

Topographic map of the Cascade National Park area in Oregon, showing the proposed Cascade Wildland Fire Suppression Project. The map includes a grid with coordinates from 46°N to 49°N and 121°E to 124°E. A red line outlines the project boundary, which covers a large area of the Cascade National Park and surrounding regions. The map shows various geographical features, including mountains, rivers, and towns. A scale bar in the bottom left corner indicates a scale of 1:25,000.

Communications Information		
Service	Channel	Location and Comments
NPWS - VHF	23.28	<ul style="list-style-type: none"> • Some dead spots; can delink CH.23 if required • Reverse channels 67, 72
NPWS - VHF (Fireground Comms)		• Determine channel on fire-ground.
NPWS - UHF	15	•
NPWS - VHF (Portable Repeater)	14 (orange) 16 (brown)	<ul style="list-style-type: none"> • Stored at Derrigo / transportable. • Contact Regional Office to deploy
SF - VHF	34	Derrigo (NE)
RFS - PMR - UHF	39 - 44	My Hyland - Mt Wonderlich
RFS - GRN	-	
CB - UHF	1 - 99	<ul style="list-style-type: none"> • Available in most RFS vehicles. • Choose channel on fire-ground with RFS.
Aircraft - VHF		Choose channel on fire-ground with RFS.
Mobile Phone - CDMA		Patchy in gullies, determine number on fire-ground.
Satellite Phone	0420102351	<ul style="list-style-type: none"> • Stored at Derrigo Portage Area Office. • Requires clear view of the sky.

Operational Guidelines	
Refer to Strategy for Fire Management 2003 and Fire Management Manual 2004.	
Brief all personnel involved in suppression operations on the following issues:	
Resource	Guidelines
Aboriginal Cultural Heritage Management (NPSWS PAMA 4.3.1)	<ul style="list-style-type: none"> Refer to the notes on sites of Aboriginal cultural heritage significance is stored separately for confidentiality. Refer to Aboriginal Heritage Information Management System (AHIMS) database and regional Cultural Heritage Officers.
Historic Heritage Management (NPSWS PAMA 4.3.0)	<ul style="list-style-type: none"> Slits within the reserve are natural features, which would not be detrimentally affected by fire. If new sites are found consult with a senior NPSWS officer.
Threatened Fauna Management (NPSWS PAMA 4.12 & 4.2)	<ul style="list-style-type: none"> Threatened fauna within reserve are located in areas with a low fire risk. Where practicable, protect habitats and fauna from fires from the fire if the effects of the resulting fire frequency, season &/or intensity will have a significant or unknown impacts. Where practicable, protect large and hollow-bearing trees.
Threatened Flora Management (NPSWS PAMA 4.12)	<ul style="list-style-type: none"> FL1 - Avoid the use of earth moving machinery in locations where these species are known to occur. Avoid the use of retardant in locations where these species are known to occur. FL2 - As far as possible, exclude all fire from locations where these species are known to occur. Avoid the use of earth moving machinery in locations where these species are known to occur. Avoid the use of retardant in locations where these species are known to occur.
Threatened Property	<ul style="list-style-type: none"> Where possible property owners with assets at risk from a wildfire event should be kept informed regarding the location of the fire and asked for an assessment of their current level of asset protection procedures.
General	Guidelines
Aerial Water Bombing (NPSWS PAMA 4.4 / NSW Fire Agencies, Aircrew SOP-02: NPSWS Guidelines for Effective Aircraft Management)	<ul style="list-style-type: none"> The use of bombing aircraft should support containment operations by aggressively attacking hotspots and spot-covers. The use of bombing aircraft without the support of ground based suppression crews should be limited to very specific circumstances. Where practicable foam should be used to increase the effectiveness of the water. Ground crews must be alerted to water bombing operations.
Aerial Ignition (NPSWS PAMA 4.2.2.0, 4.4 / NSW Fire Agencies, Aviation SOP-02 & NPSWS Guidelines for Effective Aircraft Management)	<ul style="list-style-type: none"> Aerial ignition may be used during back burning or fire reduction operations, where practicable, but only within the limits of a senior NPSWS officer. Utilities incumbents to rapidly progress back-burns down slope where required.
Backburning (NPSWS PAMA 4.8)	<ul style="list-style-type: none"> Temperature and humidity trends must be monitored carefully to determine the safest times to implement backburns. Generally, when the FDI is Very High or greater, backburning should commence when the humidity begins to rise in the late afternoon or early evening when the wind is light. A lower FDI backburning may be safely undertaken during the day. Where practicable, clear a 1m radius around downed and felled brooks track fire adjacent to containment lines prior to backburning, or down these trees as part of the backburn ignition. Avoid ignition of backburns at the bottom of slopes where a tree and its top are up slope burn is likely.
Command & Control (NPSWS PAMA 4.2)	<ul style="list-style-type: none"> The first containment agency on site may assume control of the fire, but then must ensure the relevant land management agency is notified promptly. On the arrival of other containment agencies, the incident commander will consult with regard to the containment strategy and incident management team requirements as per the relevant BRCM Plan of Operations.
Containment Lines (NPSWS PAMA 2.2.1.3.9)	<ul style="list-style-type: none"> Construction of new containment lines should be avoided, where practicable, except where they can be constructed to protect critical natural or environmental impact. New containment lines require the prior consent of a senior NPSWS officer. Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression. 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 (NPSWS PAMA 4.2.2.3.4.1)	<ul style="list-style-type: none"> Earthmoving equipment may only be used with the prior consent of a senior NPSWS officer, and then only if the use of the equipment is of the 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 minimum of 100m behind the equipment. Containment lines constructed by earthmoving equipment should consider the protection of drainage features, observe the Threatened Species and Cultural Heritage Operational Guidelines and be surveyed, where possible, to identify unknown cultural heritage sites. Earthmoving equipment should be washed down, where practicable, prior to it entering NPSWS estate.
Fire Advantages/Retardant	<ul style="list-style-type: none"> All fire advantages used during wildfire suppression operations must be mapped and where relevant added to the database.
Fire Suppression Chemicals (NPSWS PAMA 4.2.2.1.4.1)	<ul style="list-style-type: none"> Wetting 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 NPSWS officer, and should be avoided where reasonable alternatives are available. Exclude the use of surfactants and retardants within 50m of streams, watercourses, dams and swamps. Areas where fire suppression chemicals are used must be mapped and the used products name recorded. The Threatened Species Operational Guidelines are to be observed.
Rehabilitation (NPSWS PAMA 5.1)	<ul style="list-style-type: none"> Where practicable, containment lines should be stabilised and rehabilitated as part of the wildfire suppression operation.
Smoke Management (NPSWS PAMA 3.4)	<ul style="list-style-type: none"> The potential impacts of smoke on people possible mitigation tactics must be considered when planning for wildfire suppression and prescribed burning operations. If smoke becomes a hazard on local roads or highways, the police and relevant media must be notified. Smoke management must be in accordance with relevant RTA traffic management guidelines.
Visitor Management (NPSWS PAMA 3.6, 4.1)	<ul style="list-style-type: none"> The reserve may be closed to the public during periods of extreme fire danger or during wildfire suppression operations.

The map displays various fire management zones across a landscape. Key zones labeled include Bushburn FMZ, Bood FMZ, Gorsebrook FMZ, Dobs FMZ, Ebor FMZ, Mount Saddleback FMZ, and Redbank FMZ. The map uses different colors and line styles to represent various management categories as defined in the legend.

Fire Management Zones	
■ NPWS Estate	— Primary (Cat 1)
■ Asset Protection Zone	— Secondary (Cat 9)
■ Strategic Fire Advantage Zone	--- Dormant
■ Heritage Management Zone	--- Unclassified

Fire Management Zones

Asset Protection Zones	The objective of APZs is the protection of human life and property. This will have precedence over guidelines for the management of biodiversity. Maintain Overall Fuel Hazard at Moderate or below.
Strategic Fire Advantage Zones	The objective of SFAPZs is to reduce fire intensity across larger areas. Maintain Overall Fuel Hazard at High or below, however adherence to guidelines for biodiversity will take precedence where practical.
Heritage Management Zones	The objective of HMAZs is to conserve biodiversity and protect cultural heritage. Manage fire consistent with fire thresholds.

NPWS Estate
Overburnt
Vulnerable
Recently Burnt
Within Threshold
Underburnt

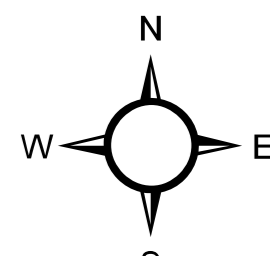
1:75,000

Contours Intervals 10 metres

<ul style="list-style-type: none"> Primary (Cat 1) Secondary (Cat 9) Dormant Unclassified Powerlines-N Logging Tramways 	<ul style="list-style-type: none"> NPWS Estate SF NSW Estate Plantation 2006-06 Fire Season 2003-04 Fire Season 2004-05 Fire Season 	<ul style="list-style-type: none"> European Cultural Sites Gate - NPWS Gate - non NPWS Helipad Refuge Area 	<ul style="list-style-type: none"> Caution Slaging Area Threatened Property Water Point Helicopter Water Point Vehicle
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Assessment Period

	NPWS Estate
	Rainforest
	Wet sclerophyll forest
	Heathland
	Semi-mesic grassy forest
	Shrubby dry sclerophyll forest
	Shrubby grassy dry sclerophyll forest
	Grassy sclerophyll woodland
	Native regrowth
	Native regrowth/Weeds
	Agriculture/timber plantation
	Cleared/weeds
	Rock/sand
	Unknown
	Water



Datum: AGD66
Projection: UTM
Grid: AMG Zone 56
Noted scales are true when this map is printed on A0 size paper