

Fire Plan for Marlborough

2024-2027



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Status of this document

This document is issued by Fire and Emergency New Zealand.

Recommendations for change

The document, its content and specific processes are not to be altered except through Fire and Emergency New Zealand document management processes.

Requests or recommendations for changes to this material should be sent to District Manager, Nelson Marlborough District. See [Local contacts](#)

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Approval

Full Name: Brad Mosby

Title: Region Manager, Te Ihu

Date: 12 July 2024



Signature

Introduction

How to use this document

The front sections of this document cover:

- general information about fire plans
- the basics of Fire and Emergency New Zealand's fire control powers
- how we use these powers to reduce the risk of unwanted fires, particularly in the open air.

The back section, [Marlborough information](#), is for specific local information about this fire plan area. Fire plans must take the local fire risk conditions into account and not just apply a blanket standard across the country. All of our areas have different levels of risk, so what may be appropriate for one area of the country may not apply somewhere else.

Why do we have fire plans?

Fire plans are required by [section 22](#) of the [Fire and Emergency New Zealand Act 2017](#) (the Act) and the [Fire and Emergency New Zealand \(Fire Plans\) Regulations 2018](#).

According to [Regulation 5](#) of the Regulations, the purpose of a fire plan is to:

- provide transparency and predictability in relation to the use of Fire and Emergency's fire control powers under sections [52 to 58](#) and [62 to 68](#) of the [Fire and Emergency New Zealand Act 2017](#) in each local area; and
- ensure that the particular fire risk conditions in each local area are considered by Fire and Emergency when it establishes policies and procedures for, and exercises fire control powers within, that local area.

This means that we need to explain how we:

- set locally appropriate triggers for changing fire seasons for outdoor fires to:
 - require permits
 - prohibit fires
 - restrict activities that may cause unwanted fires
- apply our other powers to manage fire hazards or require firebreaks.

These explanations help people to understand what to expect, how to plan for this and what they need to do to comply with any requirements.

Content of the fire plans

This Fire Plan is about how, when and why Fire and Emergency will exercise its fire control powers to reduce the incidence of unwanted fires in the area.

Fire plans are not about how we fight fires in the local area, or the resources available to do so.

Fire plans must do the following.

Describe local fire risk conditions

A fire plan must describe the particular fire risk conditions that exist or are likely to exist in the local area. This means that each fire plan:

- is accurate and relevant for its area
- can be broken down into specific zones within the area where fire risk conditions or control measures differ.

Set out policy

A fire plan must set out the policy for fire control in the local area. It must specify when and why we:

- restrict or prohibit fires in the outdoors
- restrict activities that may cause unwanted fires
- manage fire hazards
- require firebreaks.

Set out procedures

A fire plan must set out fire control procedures for the local area. These include:

- details of the processes that Fire and Emergency will follow
- factors that Fire and Emergency will consider when deciding to:
 - issue notices of prohibitions or restrictions for fire control under [section 52](#) of the Act
 - declare a prohibited or restricted fire season in relation to the local area, or a part of that area, under [section 56](#) of the Act
 - issue notices in relation to firebreaks under [section 62](#) of the Act
 - issue notices to remove or destroy vegetation or other things on land under [section 65](#) of the Act.

This means that our communities understand how we have come to those decisions, and that we can show that they are evidence-based decisions that don't impact on recreational and economic activities unnecessarily.

Take Fire and Emergency's other requirements, agreements and policies into account

A fire plan must be consistent with:

- Fire and Emergency's national strategy
- any local planning by Fire and Emergency for the local area
- any current operational service agreement and memorandum of understanding that Fire and Emergency has with other agencies or people relevant to the local area
- any relevant Fire and Emergency policies. The first part of this template highlights policies that impact our regulatory role, However, fire plans must comply with other Fire and Emergency internal policies, such as records management.

Cover the entire area

A fire plan must cover the entire local area that it relates to, but we can break each area down into smaller zones to manage them individually. This ensures that each fire plan is relevant to everywhere within its area.

Set out Fire and Emergency's fire control powers

Fire plans are not about how we fight fires in the local area, or the resources available to do so. This plan is about how, when and why Fire and Emergency will exercise its fire control powers to reduce the incidence of unwanted fires in the area.

Local area and zones

Local area

In these fire plans, local area is the area within each Local Advisory Committee's (LAC's) boundaries.

The Fire and Emergency New Zealand (Fire Plans) Regulations 2018 indicate that Fire and Emergency must prepare and issue a fire plan for each local area as soon as possible after the boundaries of the LAC for the local area are set.

In May 2019, the Board of Fire and Emergency New Zealand approved LAC boundaries aligned with the Civil Defence Emergency Management Group (CDEMG) boundaries as originally proposed and publicly consulted. There was one modification in the Hawke's Bay LAC area to include the Tararua District.

Zones

When dividing a local area into zones, we consider factors such as climatic conditions, geographical features, land use or territorial authority.

We also look at previous analyses of the wildfire threat.

Applying fire seasons to zones

When we apply fire seasons to a zone, we consider:

- whether they season make sense from a fire science point of view
- how we can communicate to the public where the boundaries are.

Consultation

Before issuing a fire plan for a local area, or an amended fire plan, Fire and Emergency must do the following:

Publish a notice

The notice should:

- outline the proposed plan
- say where you can see and read a copy of the plan
- say how you can make a submission on the plan and where to send your submissions
- give the closing date and time for submissions.

It must be published in the Gazette, or in a newspaper circulating in the local area, or a website.

Consider submissions

Fire and Emergency New Zealand must consider every submission received by the closing date and time for submissions.

Include a list of key stakeholders

A fire plan should include a list of key stakeholders in the local area and zone information. Stakeholders include those who:

- were involved in creating the plan
- should contribute to maintaining it and making relevant decisions.

Record stakeholder engagement

Fire and Emergency will record stakeholder engagement and their inputs in the stakeholder engagement plan for the fire plan.

Review and amendment

Fire and Emergency may amend a fire plan at any time.

However, we must review the fire plan for each local area at least once every 3 years, or if there are significant changes to the boundaries of the local area.

When we review the fire plan for a local area, we must either:

- confirm that the fire plan is still appropriate for that area
- amend the fire plan as necessary and consult on changes.

4 Rs of emergency management

The '4 Rs' sum up New Zealand's approach to emergency management – reduction, readiness, response and recovery.

Fire plans are a part of reduction space. Previous fire plans issued under the old rural fire authorities also included readiness and response. We now put that information in our other planning work and operational procedures.

The next sections outline the work Fire and Emergency does in each of the 4 Rs.



Reduction

Reduction means:

- identifying and analysing long-term risks to human life and property
- taking steps to eliminate these risks if practicable
- if not, reducing their impact and the likelihood of them occurring.

The first of Fire and Emergency's principal objectives is to reduce unwanted fires.

For Fire and Emergency, this work includes

- our National framework for fire control. This framework includes:
 - these fire plans
 - our fire control powers for reducing the likelihood of unwanted fire from the use of fire in the open air
 - our fire control powers for reducing the likelihood of other causes of wildfire by setting fire seasons, requiring fire permits, firebreaks and fire hazard removal
- evacuation procedures and evacuation schemes for buildings
- input into building design for fire safety, and our part in the building consent application process
- the national automatic fire alarm system
- influencing policies within standard-setting bodies and with central and local government

- public education campaigns around escape planning, fire safety, and smoke alarms.

Readiness

Readiness means developing operational systems and capabilities before an emergency occurs. These include self-help initiatives for the public, specific programmes for emergency services, lifeline utilities and other services.

For Fire and Emergency, this includes:

- establishing and maintaining our response capability (our fire stations and trained people) across the country
- the 111 call centre where the public can report fires and other emergencies
- contact lists and contracts with service providers that we can use in response
- tactical plans (how we plan to respond to a particular site or location)
- community planning, including rural communities
- work with local government around provision of water for firefighting
- response and tactical plans (how we plan to respond to a particular site or location.)
- fire weather data and indices that determine the fire danger rating.

Response

Response means:

- attending incidents
- taking any actions from the time our communications centres are notified until to the incident controller moves the incident to recovery phase.

For Fire and Emergency, this includes:

- firefighting
- responding to hazardous substance incidents
- rescuing trapped people
- urban search and rescue.

It can also include responding to:

- medical emergencies
- maritime incidents
- other rescues
- weather events and disasters
- incidents where substances present a risk to people, property or the environment
- any other situation where we can assist.

Note: This fire plan is not a response related plan.

Recovery

Recovery means helping people who have suffered loss and trauma to receive the appropriate support. It involves coordinated efforts and processes to bring about the immediate, medium-term and long-term recovery of a community following a major emergency.

For Fire and Emergency, this includes:

- during our immediate actions at emergencies, following good incident management practices that minimise the short-term and long-term impact and consequences of the original event

- helping those immediately affected by the emergency get the support they need, including making sure people suffering loss and trauma receive appropriate support from the relevant agency.

In addition, as a precursor to recovery, we:

- support and encourage communities to pre-plan for major events
- support recovery/clean-up activities to strengthen community resilience following an incident.

Our commitment to working with Māori as tangata whenua

Fire and Emergency recognises the status of Māori as tangata whenua and, as such, the importance of Māori communities as key stakeholders in Fire and Emergency's work.

We recognise:

- iwi and Māori as community leaders with an important role to play in preventing fires and other emergencies, building community resilience, and informing emergency response
- iwi as our partners in risk reduction as significant and growing land and forest owners
- Māori are disproportionately affected by unwanted fires, and that needs to change.

By committing to working with tangata whenua, we contribute to a safer environment not only for Māori but for all New Zealand communities.

We will do this by building strong relationships that enable us to engage with iwi and Māori as we design and deliver services. This will require us to engage in culturally appropriate ways. We will strengthen our cultural capability, diversity and inclusion, so that we better reflect and engage with the communities we serve.

National Framework for Fire Control

Not all fires are unwanted. New Zealand has a long history of using fire as a tool, for land management, cooking, recreation, comfort, and warmth.

The National Framework for Fire Control consists of policies, procedures tools, and agreements that enable Fire and Emergency to manage fires. The framework supports people to use fire safely where appropriate and restricts or prohibits its use when there is a risk of unwanted fire.

The public face of the framework is:

- the [Checkitsalright.nz](https://www.checkitsalright.nz) website
- the [fire permit application system](#)
- these fire plans
- additional information on our public website – [fireandemergency.nz](https://www.fireandemergency.nz).

This plan outlines Fire and Emergency's statutory fire control powers and how we can apply them to help reduce risk by:

- setting fire seasons
- prohibiting fire in open air or revoking the prohibition
- prohibiting or restricting activities or revoking the prohibition or restriction
- fire permitting
- control of firebreaks
- fire hazard removal

Our policies

This table sets out the current internal policies and supporting processes that guide our decisions and actions.

Policy	Detail
Fire seasons, prohibitions and restrictions policy	<p>Relates to sections 52 to 58 of the Act and decisions to:</p> <ul style="list-style-type: none"> • declare or revoke a prohibited or restricted fire season • prohibit fire in open air or revoke a prohibition • prohibit or restrict activities that may cause a fire to start or spread and revoke prohibition or restriction.
Fire permitting policy	<p>Supports the policy above and defines actions for:</p> <ul style="list-style-type: none"> • supporting a member of the public who is applying for a fire permit • assessing a fire permit application • granting or renewing a fire permit • refusing to grant or renew a fire permit • suspending or cancelling a fire permit • operational decisions when responding to an alarm of fire in open air.
Firebreaks policy	<p>Relates to sections 62 to 64 of the Act to support decisions and actions relating to requirements for landholders to:</p> <ul style="list-style-type: none"> • make and clear any firebreak on the landholder's land • remove any vegetation or other thing from an existing firebreak.
Fire hazard removal policy	<p>Relates to sections 65 to 68 of the Act and decisions about what to do when:</p> <ul style="list-style-type: none"> • a potential fire hazard is reported to Fire and Emergency • we assess a potential fire hazard • we arrange for the removal or destruction of a confirmed fire hazard.
Regulatory compliance policy	<p>Covers how we monitor and take action to identify and influence landowners and others to comply with the requirements of the Act and other relevant legislation. This covers activities which:</p> <ul style="list-style-type: none"> • reduce harm from unwanted fire • support the safe use of fire as a land management tool and reduce harm if fire escapes control • minimise avoidance of the Fire Emergency levy • reduce non-compliance with any legislation or regulations under which Fire and Emergency New Zealand has a compliance function.

Fire risk conditions

The Act defines the circumstances where we can use our fire control powers to prohibit fire and or restrict other activities as when:

- fire risk conditions exist or are likely to exist in the area; and
- the prohibition or restriction is necessary or desirable for fire control.

We also take these into account when setting fire seasons.

The Act defines fire risk conditions as weather or other conditions that will, or are likely to, endanger persons or property by increasing the risk of the outbreak or spreading of fire.

Decision-makers must be satisfied that:

- fire risk conditions, and potential ignition sources exist, or are likely to exist in the area
- these will endanger people or property by increasing the risk of outbreak or spread of fire.

They make decisions based on evidence, not for the convenience of Fire and Emergency.

This table sets out other fire risk conditions we consider to be fire risk conditions for the purposes of exercising our fire control powers.

Condition	Description
Fire weather science	The NZ Fire Danger Rating System includes measures such as: <ul style="list-style-type: none"> • Build-up Index (BUI) • Initial Spread Index (ISI) • Fire Weather Index (FWI) • Grass curing percentage • Fine Fuel Moisture Code (FFMC) • Drought code (DC).
Topography	Factors that influence how a fire spreads, including: <ul style="list-style-type: none"> • steepness of slope • direction fire is facing, i.e. aspect • terrain features, e.g. gullies and chimneys.
Fuel behaviour models	The characteristics of fuel, or vegetation, that contribute to fire ignition and spread.
History of fires	History of recent fires and their ignition sources in the area, based on available fire data.
Socio-economic factors	Factors that influence the likelihood of fires being lit for cooking purposes and to dispose of rubbish in backyards, e.g. absentee owners and lifestyle blocks burning during holiday season. Expectations of the public to be able to light certain types of fires, e.g. cultural cooking fires.
Time of year	Time of year, e.g. land clearing forestry, land clearing hill and high country, late winter to spring.
Public knowledge – awareness of the risks	The expected public awareness of risks may be low, e.g. a large influx of visitors during summer holiday periods who may reasonably be expected to have little understanding of the risks of lighting fires in an area.
Proximity to property or other values	The closeness of property or other valuables to fire, for example: <ul style="list-style-type: none"> • life values, e.g. size of land parcels in an urban area • distance from commercial forestry.

Condition	Description
Ability to respond effectively	Factors that contribute to our ability to respond to an out of control fire include: <ul style="list-style-type: none"> • availability of response resources, i.e. people and equipment • isolation • accessibility issues • availability of water supplies.
Impacts from natural hazards	Natural hazards impacts are likely to influence resource availability and the likelihood of fires.
People	The presence of people increases the risk of fire.
Impact of other events that increase the risk of the outbreak or spread of fire	Events that increase the risk of potential fire, e.g. the rupture of an oil pipeline.

Fire seasons

Fire and Emergency uses fire seasons to:

- inform people about the requirements for or restrictions on lighting fires in the open air
- manage the use of fire to protect communities from the consequences of unwanted fire.

There may be other legal requirements and regulatory approvals needed for a fire under other legislation, such as the [Resource Management Act 1991](#), or Council by-laws. It is your responsibility to comply with all other legislation and get all other necessary approvals.

Fire and Emergency can declare or revoke a prohibited or restricted fire season in an area. We use our fire seasons, prohibitions and restrictions policy and associated processes (including stakeholder and partner consultation) to manage this.

Fire seasons are applied to geographic zones based on:

- the fire environment (fuel types, fuel condition (curing/dryness), weather, topography, historic trends)
- fire climatic zones
- topographical boundaries/features (rivers, roads, coastlines, forest and national park boundaries)
- fire control considerations.

There are three types of fire season is in force at any time in an area or zone:

Open fire season



Fires may be lit in open air, without restriction. Applies whenever there is not a prohibited or restricted fire season in place.

Restricted fire season



Lighting a fire is riskier than usual and you must get a fire permit. This permit may also have specific conditions to make sure you can light a fire safely and it will remain under control.

Prohibited fire season



Lighting fires in the open air is not permitted. Existing fire permits are suspended, though fire permits may still be granted in exceptional circumstances.

It is important that people know what the current fire season is and understand how they can comply with the requirements.

To see what the current fire season is within a local area (or zone within an area) go to checkitsalright.nz.

Open fire seasons

We use an open fire season when the fire danger is consistently low enough that Fire and Emergency does not need to apply additional controls on when people can light fires in the open air. To help you to use fire safely, we have a set of guidelines for fire types that you should follow even when there are no restrictions or prohibitions in place, see the [Authorised fire types, descriptions and conditions](#) table below for guidance.

Note that this does not mean that you can light fires anywhere you want to. You should still check the conditions at checkitsalright.nz and follow any advice provided.

Those lighting a fire have a duty of care to ensure that fire remains under control and is fully extinguished once complete. [Section 60 \(1\)](#) of the Act requires this: 'A person must not cause or allow a fire to get out of control and to spread to vegetation or property.'

Other legislation or regulatory requirements, such as local council or regional council by-laws or air quality plans, may apply additional restrictions, or not allow you to light a fire at all.

You must also have permission from the landowner or occupier to light a fire, even in an open fire season.

We still like to hear from you if you are lighting a large fire, e.g. for land management, so that we can share advice on how and when to light and use your fire safely. Go to our [Fire Permit website](#). Select Lighting a fire in an open season and complete the address info or use the map. Once the address information updates and confirms an Open fire season, select the Notify Us of your fire button at the bottom of the screen and complete the form.

This also helps us manage notifications about your fire that might be made by members of the public.

Restricted fire seasons

We use restricted fire seasons when the fire danger has increased enough that we need more control over where, when and how people use fire.

Requiring permits for particular types of fires in the open air lets us know where and when fire is being used. This means our fire brigades don't need to respond unnecessarily.

It also gives us an opportunity to advise how to light and use the fire safely. We can also apply conditions about when the fire can be lit, how big it can be, or any other requirements that reduce the chance of the fire escaping control. Go to firepermit.nz to check and apply

Note: When you get a permit, you must read and follow the conditions of that permit.

Prohibited fire seasons

When the fire danger reaches higher levels, we need to stop people from lighting fires that may escape. Fire behaviour during these conditions makes fires very difficult and dangerous to contain, control and extinguish.

Certain types of fires may still be used, but people need to be very careful with fire during these times. See the section on [Authorised fire types in a prohibited fire season](#).

Trigger thresholds for changing fire seasons

The New Zealand Fire Danger Rating System and its component Fire Weather System are a consistent, scientific way to monitor the fire danger in an area.

Trigger thresholds are based on relevant fire weather measurements and values. They are set in consultation with stakeholders for declaring restricted and prohibited fire seasons within the fire plan area or fire season zone within that area. The trigger thresholds identify when prevailing weather conditions create ongoing potential for problem fires.

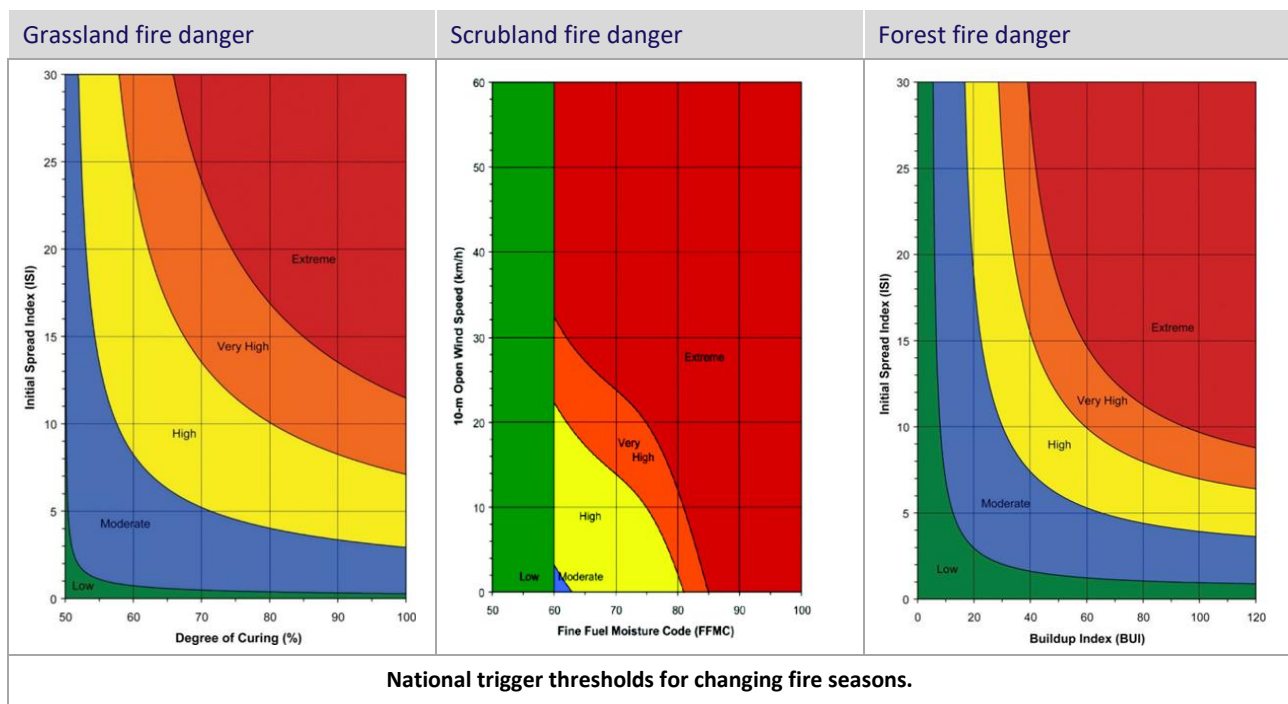
The trigger thresholds use:

- the Remote Automatic Weather Station (RAWS) climatology data for the fire plan area or zone.
- historical fire data for the fire plan area or zone.

Other factors, such as consultation with partners, resource availability or other emergency events, may also influence a decision to declare or revoke a fire season earlier or later than the trigger threshold would indicate.

Forecast weather trends must be taken into consideration when declaring a change in fire season. An upcoming rain event may defer a change in fire season or forecast dry weather. Strong winds may indicate a need to change fire season days before the trigger threshold would otherwise be reached.

Locally agreed thresholds will be listed in the zone information in this document.



Prohibiting fires in open air (section 52)

Fire and Emergency may sometimes need to prohibit fires in the open air outside the usual fire season changes. These occasions are known as Extreme fire, Red Flag Days or Cross-Over conditions. Examples of when we might use these powers are:

- during large or multiple incidents that put firefighting resources under strain
- when extreme fire weather conditions occur during a restricted fire season, e.g. strong dry winds, high temperatures associated with very low humidity
- when emergency events occur, e.g. a rupture of the Marsden Point fuel pipeline, increasing the fire hazard in a specific area.

We can only prohibit fires in the open air when fire risk conditions exist or are likely to exist that indicate that the prohibition or restriction is necessary or desirable for fire control.

Fire and Emergency may also prohibit fires in the open air while any pandemic support legislation, such as the [Epidemic Preparedness \(COVID-19\) Notice 2020](#), is in force. Fire and Emergency can do this without needing to consider fire risk conditions or other factors. This might happen if our response capabilities are affected by any pandemic, and we aren't able to respond effectively if there is an unwanted fire.

Fire and Emergency can create temporary zones that are smaller than the zones in this fire plan for the purposes of limiting the impact of prohibiting fires in open air under [section 52](#) of the Fire and Emergency New Zealand Act 2017.

If someone breaches the ban, they can be charged under [section 54](#) of the Act.

Trigger thresholds for prohibiting fire in open air

We can use the same Fire Weather System trigger thresholds for prohibiting fires in the open air under [section 52](#) as we do for changing to a prohibited fire season, but use [section 52](#) when the fire risk conditions are not expected to last long enough to make changing to a prohibited fire season practical.

If Fire and Emergency has come to an agreement with stakeholders on other thresholds for when to implement a [section 52](#) prohibition of fire in open, these will be included in the zone information in this document.

Restricting and prohibiting activities (section 52)

There are times when fire risk conditions are elevated to an extent that certain activities may cause a fire to start or spread. These occasions are known as Red Flag Days or Cross Over conditions. Examples of these activities include but are not limited to:

- roadside mowing
- 'hot works' – cutting or welding operations outdoors using portable gas, disc grinder or arc welding equipment that produces sparks, flames or heat
- chainsaw use or scrub-cutting
- mowing, ploughing or harrowing fields
- use of retail fireworks and, in certain conditions, pyrotechnics (See the [Retail fireworks](#) and [Pyrotechnics](#) sections below)

[Section 52](#) of the Act allows us to prohibit or restrict one or more activities in an area or areas when we assess that:

- the activity (including access to an area) may cause a fire to start or spread and adequate controls are not available
- [fire risk conditions](#) exist or are likely to exist in the area
- the prohibition or restriction is necessary or desirable for fire control purposes
- it's not possible to adequately mitigate the assessed risk.

This table defines prohibition and restriction.

When an activity is...	It means the activity...
Prohibited	must not be undertaken at all by any person while the prohibition is in effect (except if it is an excluded activity that relates to the carrying out of essential services in the area).
Restricted	can be undertaken subject to certain conditions, such as restrictions on: <ul style="list-style-type: none"> • the times of the day • the manner in which it is undertaken.

If we have restricted or prohibited access to a location under [section 52](#), we can't prevent someone who lives or works in the location from entering. [Section 52](#) also doesn't prevent someone from carrying out essential services where it applies.

Essential services are:

- supplying and distributing of food, water, fuel, power, and other necessities
- maintaining transport and communication facilities that are essential to the well-being of the community
- maintaining the health of the community
- maintaining law and order, public safety, and the defence of New Zealand
- preserving property at immediate risk of destruction or damage.

Fire and Emergency can create temporary zones that are smaller than the zones in this fire plan for the purposes of limiting the impact of restricting or prohibiting activities under [section 52](#).

If someone fails to comply with the restriction or prohibition, they can be charged under [section 54](#) of the Fire and Emergency New Zealand Act 2017.

Trigger thresholds for restricting or prohibiting activities under section 52

Some industries have their own restrictions that they place on themselves when fire risk increases. However, we will use [section 52](#) to apply the restrictions or prohibitions to everyone within the zone when either:

- these voluntary restrictions are not enough to reduce the risk of a fire starting or spreading, or
- we need to restrict or prohibit the public from the same high risk activities.

Our policy for fire seasons, prohibitions and restrictions says that we only prohibit or restrict activities if:

- we have engaged with stakeholders
- they are unable to satisfactorily mitigate the identified risks.

Legally restricting or prohibiting activities can have a significant economic impact, so we won't do it without due consideration.

If we've agreed with stakeholders on set thresholds for implementing a [section 52](#) restriction or prohibition, we'll include these in the zone information in this document.

Activities and risk mitigation

Forestry operations

The NZ Forest Owners Association have developed the [Forest Fire Risk Management Guidelines \(2018\)](#) which contains example trigger point tables and what fire prevention actions are suggested during different fire danger levels. Fire and Emergency supports these guidelines.

The National Environmental Standard – Commercial Forestry (NES-CF) regulations and SCION research confirms that the risk of heating and spontaneous combustion in slash can be reduced by eliminating embedded rubbish (metal), monitoring depth and compaction of slash piles and local fire environment conditions..

If local trigger values have been set, they will be listed in the zone information in this document. NIWA's fire weather website www.fireweather.niwa.co.nz will be updated to display the levels decided locally.

Powerline auto-reclosers

Most power companies use a computer-controlled auto recloser system. This attempts to reconnect the power up to three times after a fault, before they send a technician. If a downed wire caused the fault, this creates three potential sparking events.

If local trigger values have been set, they will be listed in the zone information in this document. NIWA's fire weather website www.fireweather.niwa.co.nz will be updated to display the levels decided locally.

To comply with the [Electricity \(Hazards from Trees\) Regulations 2003](#), power companies also take other risk reduction measures. These include trimming trees around power lines, reporting faults to the public, putting power lines underground, and giving guidance on tree planting.

Hot works

This includes activities such as welding, grinding, and metal cutting.

If local trigger values have been set, they will be listed in the zone information in this document. NIWA's fire weather website www.fireweather.niwa.co.nz will be updated to display the levels decided locally.

Fire and Emergency will work with Waka Kotahi (NZTA) and local councils on roadside mowing issues during days with elevated fire danger and changing operations to suit conditions.

We will also work with rural land managers to discuss the approach to fire measures, using machinery and equipment during high fire danger periods and the potential effect on local landholders and communities.

Retail fireworks and pyrotechnics

Fire and Emergency does not regulate the use of fireworks or pyrotechnics when fire risk conditions are not elevated.

The term 'firework' is reserved for retail fireworks that are specifically sold to the public. A display of 'fireworks' does not require written agreement from Fire and Emergency. However, pyrotechnics are classed as a hazardous substance and must be under the control of a person who holds a certified handler compliance certificate for the substances they are working with. This person must get written approval from Fire and Emergency before they hold a display.

When fire risk conditions are elevated, Fire and Emergency can restrict or prohibit the use of fireworks, and in certain circumstances, pyrotechnics, as an activity under [section 52](#) of the Fire and Emergency New Zealand Act 2017.

Fireworks

Sale of fireworks is regulated by the [Hazardous Substances \(Fireworks\) Regulations 2001](#). Storage is regulated by the [Health and Safety at Work \(Hazardous Substances\) Regulations 2017](#).

Council by-laws may limit where and when fireworks may be used.

Whether fireworks should be banned is a decision for Government, and our work related to fireworks will continue to reflect decisions made by central Government.

Fire and Emergency is responsible for promoting fire safety, so we advise the public on using fireworks safely. We recommend people attend publicly organised displays where possible.

Pyrotechnics

Applications for indoor and outdoor pyrotechnic displays need to comply with sections [9.35](#) and [9.43](#) of the Health and Safety at Works (Hazardous Substances) Regulations 2017.

The person in charge of a pyrotechnics display must get written agreement from Fire and Emergency before holding the display.

The exception to requiring written agreement is for a class 1 category G pyrotechnic display. This is where the pyrotechnics are used for special effects (e.g. film set) and there is no intention to display them to the public.

Fire and Emergency is not an enforcement agency for hazardous substances.

Fire and Emergency's agreement or otherwise to a specific pyrotechnic display proceeding will be determined in accordance with Fire and Emergency's policy and standard operating procedures relating to the same.

Sometimes, after we consider the relevant risk conditions in a particular area, we may decide that, even where the requirements of the Health and Safety at Work (Hazardous Substances) Regulations 2017 could be met in terms of controlling fires igniting within an exclusion zone, the risk to the surrounding area outside of any exclusion zone nevertheless requires a prohibition or restriction of pyrotechnic displays generally under [section 52](#). However we are only likely to do this in situations where, for example, the terrain, weather and substrate are such that there is a risk of a pyrotechnic display causing fire to ignite outside of any exclusion zone in the area.

Communicating changes in fire seasons and restrictions or prohibitions

It's important that people planning to light fires in the open air know whether they can do so safely and legally. This means they need to know:

- the current fire season in the area
- whether any other prohibition applies
- whether a permit is required.

We notify our communities, stakeholders and partners of fire season changes and restrictions and prohibitions under [section 52](#) of the Act in several ways. These include:

- direct contact with our partners and stakeholders, including email
- local newspaper and radio ads
- social media and media
- email and text directly to permit holders
- on the Check It's Alright website checkitalsright.nz
- via information available by phoning 0800 658 628
- with fire danger or fire season signs – we change these to reflect season status by adding 'Fire by permit only', 'Total fire ban' or similar messaging.

During periods of elevated and extreme fire danger days, we increase our communication of fire safety and prevention messages. This is to build awareness of the dangers of wildfires and promote positive behaviour changes. Since fire danger/fire risk conditions are locally specific, Districts will make local decisions about the best ways to communicate this to their communities.

We can also target messaging using traditional and digital media, such as social media and on-demand video, at affected areas at the most effective times.

When a fire season change affects public conservation land (PCL), we must also notify the Department of Conservation (DOC) if we intend to declare or revoke a prohibited or restricted fire season on public conservation land. This must also be followed up with a written notification.

Department of Conservation informs visitors of the controls or bans on lighting fires, including for cooking, warmth and campground fires, through notices and advertising.

Fire permits

The information included with a fire permit helps people understand how to light a fire safely and to reduce the risk of their fire burning out of control. Fire permits carry conditions which vary based on the type and size of the proposed fire, along with the current local fire risk conditions. To check and apply for a fire permit, visit firepermit.nz.

Fire risk conditions vary by time and other factors such as fuel, weather and topography, so the acceptable conditions for burning are set for each fire permit.

We may also suspend or cancel fire permits in certain circumstances, such as:

- where fire risk conditions change

- for fire control purposes
- as fire seasons change or we imposed prohibitions.

Under [section 190\(8\)](#) of the Act, granting a fire permit does not impose any liability on Fire and Emergency.

Council by-laws, regional plans, legal covenants, or restrictions

Fire and Emergency must only consider the fire risk conditions when issuing permits. We can't apply other organisations' requirements, so even if we've issued a fire permit, you may still not be allowed to light your fire due to other requirements.

Even if you don't need a fire permit from us, due to an open fire season etc., you may not be able to light fires in some places. You must also follow council by-laws and regional plan rules relating to smoke and air pollution.

Managing smoke nuisance comes under local government jurisdiction and not Fire and Emergency's, unless the smoke is an immediate threat to life. However, we will still promote good practice and suggest alternatives.

There may also be legal covenants or restrictions which restrict the ability to light a fire in some areas, regardless of the fire season – for example, if there are power pylons or other infrastructure nearby.

You will also need private landowner or occupier approval before lighting a fire, even if Fire and Emergency has issued a fire permit.

If there is signage in a location that says to light no fires or equivalent, then you must follow those instructions.

Where relevant, information about applicable bylaws and regional plans is included in the area overview of this document.

When a permit is needed

The need for a fire permit is based on the:

- type of fire
- fire season, or restrictions or prohibitions on fires in the open air.

Fire types

Some fire types may be allowed in restricted and prohibited fire seasons by making them:

- authorised (no permit required)
- permit required

For more information on fire types, see [Open air fires – rules and permits](#) on the Fire and Emergency website www.fireandemergency.nz.

Authorised fire types, descriptions and conditions in a restricted fire season

This table lists the fire types that are authorised in a restricted season and the conditions for using them. As long as people using these fire types in a restricted season meet these conditions, they don't need to get a fire permit, because Fire and Emergency doesn't consider them to be fires in open air.

Fire type	Description and conditions
Gas-operated appliances	<p>Manufactured gas-operated appliances, such as barbecues, outdoor fireplaces and outdoor gas heaters.</p> <p>Find out more about the safe use of Gas BBQs, cookers and heaters.</p>
Charcoal barbecues or grills	<p>Barbecues or grills that use either charcoal briquettes or natural lump charcoal as their fuel source.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Don't use on an apartment balcony, deck, under a roof overhang or within other enclosed areas. • You must have a suitable way to extinguish the fire within easy reach – a maximum of 5 metres away. • You must not leave the fire unsupervised while burning <p>If you cannot meet this condition, you must apply for a permit.</p>
Open-top liquid fuel cooker	<p>Examples include (but are not limited to) portable smokers.</p> <p>These are usually small portable cooking devices that are liquid-fuelled with an open fuel container either under or in the cooking device.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Must be on a non-combustible area/base. • You must have a suitable way to extinguish the fire within easy reach – a maximum of 5 metres away. • Don't light your fire within 3 metres of any part of a building, hedge, shelter belt or any other combustible material. • You must not leave the fire unsupervised while burning. <p>If you cannot meet these conditions, you must apply for a permit.</p>
Non-pressurised liquid-fuelled heaters	<p>Examples include (but are not limited to) frost pot, smudge pot, diesel heater.</p> <p>Usually fuelled by diesel, vegetable oil, kerosene or waste oil.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Must be at least 3 metres clear of any part of a building, hedge, shelter belt or any other combustible material. • Must be placed on a non-combustible surface, not directly on grass or wooden decks. • You must not use the heater in small, confined areas. • If refuelling, ensure heater has cooled down before refilling. • You must not leave the fire unsupervised while burning. <p>If you cannot meet these conditions, you must apply for a permit.</p>
Permanent outdoor fireplace Wood-fired pizza oven/wood oven	<p>Purpose-built or manufactured woodburning fireplace/wood oven with an open front and a vertical smoke vent/chimney.</p> <p>Generally constructed of concrete, concrete blocks, stone, or bricks, fixed in place (not mobile/movable).</p> <p>Usually in home outdoor entertaining areas.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Must have a non-combustible hearth or base that extends a minimum of 500 mm either side of the left and right edges and a minimum of 1 metre from the front edge of the fire box. This is to stop any burning material falling from the fire box landing onto anything combustible.

Fire type	Description and conditions
	<ul style="list-style-type: none"> • Smoke vent/chimneys must have a purpose-built manufactured cap, or maximum of 5 millimetre steel mesh fitted in the top to stop any hot ash or embers from escaping. • Firewood storage must be in areas not affected by heat from the fire and clear of any possible hot ash or ember-affected areas. • You must have a suitable way to extinguish the fire within easy reach – a maximum of 5 metres away. • You must not leave the fire unsupervised while burning, or • It must have a solid or mesh screen/door that prevents any burning material from escaping the fire box. • Fireplaces with external construction made of steel must be at least 1 metre clear of any part of a building, hedge, shelter belt or any other combustible material. <p>If you cannot meet these conditions, you must apply for a permit.</p>
Movable/ portable free-standing front-loading fireplace.	<p>Examples include (but are not limited to) chiminea.</p> <p>A freestanding front-loading fireplace or oven, usually with a bulbous body – usually has a vertical smoke vent or chimney.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Don't light your fire within 3 metres of any part of a building, hedge, shelter belt or any other combustible material. • You must have a suitable way to extinguish the fire within easy reach – a maximum of 5 metres away. • You must not leave the fire unsupervised while burning or • It must have a solid or mesh screen/door that prevents any burning material from escaping the fire box. <p>If you cannot meet these conditions, you must apply for a permit.</p>
Cultural cooking fires	<p>Conditions</p> <p>Examples include hāngi, umu and lovo.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Your fire area must be less than 4 square metres. • Don't light your fire within 5 metres of any part of a building, hedge, shelter belt or any other combustible material. • You must have a suitable way to extinguish it within easy reach – a maximum of 5 metres from your cultural fire. • You must not leave the fire unsupervised while burning. • On completion of cooking or the purpose required for cooking food the fires must be extinguished. <p>If you cannot meet these conditions, you must apply for a permit.</p> <p>Find out more about the safe use of Cultural cooking fires.</p>
Braziers Fire pits/bowls (Recreational)	<p>Brazier: a container for hot coals – usually an upright standing or hanging metal bowl or box.</p> <p>Fire pit/bowl: a pit dug in the ground, made from stone, brick or metal, or a bowl on an upright stand.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Your fire area must be less than 1 square metre. • Where hot embers/ash are able to escape, there must be a non-combustible base/tray that will contain these hot embers or ash, to prevent any risk of fire escaping. • Don't light your fire within 3 metres of any part of a building, hedge, shelter belt or any other combustible material.

Fire type	Description and conditions
	<ul style="list-style-type: none"> You must have a suitable way to extinguish it within easy reach – a maximum of 5 metres from your brazier or fire pit/bowl. You must not leave the fire unsupervised while burning. <p>If you cannot meet these conditions, you must apply for a permit.</p>
Manufactured or drum incinerators	<p>A drum or container, with a mesh or solid lid designed to prevent the escape of hot ash or fire, often with a vertical smoke vent or chimney; designed exclusively for incineration.</p> <p>Conditions</p> <ul style="list-style-type: none"> Don't light your fire within 5 metres of any part of a building, hedge, shelter belt or any other combustible material. You must have a suitable way to extinguish it within easy reach – a maximum of 5 metres from your incinerator. Smoke vent/chimneys must have a purpose-built manufactured cap or maximum of 5 millimetre steel mesh fitted in the top to stop any hot ash or embers from escaping. <p>If you cannot meet these conditions, you must apply for a permit.</p>

Authorised fire types on public conservation land in a restricted fire season

This table lists the fire types that are authorised on public conservation land (PCL) in a restricted fire season and the conditions for using them. As long as people using these fire types in a restricted season meet these conditions, they don't need to get a fire permit, because Fire and Emergency doesn't consider them to be fires in open air.

Fire type	Description and conditions
Gas-operated appliances	<p>Manufactured portable gas-operated appliances, such as butane tramping stoves, gas barbeques and outdoor gas heaters.</p> <p>Find out more about the safe use of barbeques and gas cylinders and outdoor gas-operated appliances.</p> <p>Conditions</p> <p>The gas-fire must not be:</p> <ul style="list-style-type: none"> lit if the appliance is not in full operational condition in accordance with the manufacturer's specifications lit unless on a flat, level surface, stable and solid enough to support the weight of the appliance plus any containers and food used during cooking lit unless at least one metre clear of all combustible material lit in conditions where wind or other factors may cause the fire to spread to surrounding flammable material left unsupervised while flame is present.
Pressurised liquid appliances	<p>Manufactured portable liquid cookers which use liquid under pressure to fuel the cooker. The type of liquid is not specific (e.g. White spirits, kerosene or methylated spirits) but the delivery mechanism is.</p> <p>Note: This excludes cookers using an open top, non-pressurised system.</p> <p>Conditions</p> <p>The pressurised liquid fire must not be:</p> <ul style="list-style-type: none"> lit if the appliance is not in full operational condition in accordance with the manufacturer's specifications

Fire type	Description and conditions
	<ul style="list-style-type: none"> • lit unless it is on a flat, level surface, stable and solid enough to support the weight of all the appliance parts plus any containers and food used during cooking • lit unless at least one metre clear of all combustible material • lit in conditions where wind or other factors may cause the fire to spread to surrounding flammable material • left unsupervised while flame is present and/or the liquid is still turned on.
Campfires in a permanent fireplace	<p>Positioned and constructed by the Department of Conservation (DOC) to minimise the threat of fire spread and located within formally established DOC overnight campsites or daytime amenity areas.</p> <p>Conditions</p> <p>The campfire in a permanent fireplace must not be:</p> <ul style="list-style-type: none"> • lit if the fireplace has any damage that could allow the fire, hot embers, or ash to escape and spread beyond the constructed fireplace • within three metres of any combustible material • lit where notices and advertising are present which specifically prohibit the lighting of fires • lit during a prohibited fire season • lit in conditions where wind or other factors may cause the fire to spread to surrounding flammable material • left unsupervised while burning and without the ashes being fully extinguished • used to burn rubbish.
Cooking and warming fires	<p>Small, open outdoor wood-burning fires are only permitted to be lit on PCL in remote areas and only if required for essential cooking or survival purposes. As a guide, remote areas for this purpose are considered to be at least 3km from the nearest public road, public vehicle easement accessway or publicly accessible jetty or wharf.</p> <p>Additionally, fires must not be lit in locations fitting the freedom camping criteria, as defined in the Freedom Camping Act (2011).</p> <p>Conditions</p> <p>The cooking and warmth fire must not be:</p> <ul style="list-style-type: none"> • more than 0.5 m diameter x 0.5 m height (including wood and flames) • within three metres of any tree or any place underneath overhanging vegetation; and • within three metres of any log or any dry vegetation • lit unless and until the ground surface within three metres of the site of the fire has been cleared of all combustible material • lit where notices and advertising are present which specifically prohibit the lighting of fires or specify the lighting of fires only in other types of receptacles or places • lit in National Parks which have bylaws prohibiting the lighting of wood burning fires in the open air • lit during a prohibited fire season

Fire type	Description and conditions
	<ul style="list-style-type: none"> lit in conditions where wind or other factors may cause the fire to spread to surrounding flammable material left unsupervised without the ashes being fully extinguished used to burn rubbish. <p>Note: This only applies to small open fires (as described above). Solid fuel fires, front loaded portable fires, non-gas barbecues or chimineas are all prohibited fire types on Public Conservation Lands at all times.</p> <p>Find out more about the safe use of campfires.</p>

Authorised fire types, descriptions and conditions in a prohibited fire season

This table lists the fire types that are authorised in a prohibited season and the conditions for using them. As long as people using these fire types in a prohibited season meet these conditions, they don't need to get a fire permit, because Fire and Emergency doesn't consider them to be fires in open air.

Fire type	Description and conditions
Gas-operated appliances	<p>Manufactured gas-operated appliances, such as barbecues, gas outdoor fireplaces and outdoor gas heaters.</p> <p>Conditions</p> <p>Find out more about the safe use of Gas BBQs, cookers and heaters.</p>
Charcoal barbecues or grills	<p>Barbecues or grills that use either charcoal briquettes or natural lump charcoal as their fuel source.</p> <p>Conditions</p> <ul style="list-style-type: none"> Don't use on an apartment balcony, deck, under a roof overhang or within other enclosed areas. You must have a suitable way to extinguish the fire within easy reach – a maximum of 5 metres away. You must not leave the fire unsupervised while burning. <p>If you cannot meet these conditions, you must apply for a permit.</p>
Open top liquid fuel cooker	<p>Examples include (but are not limited to) portable smokers.</p> <p>These are usually small portable cooking devices that are liquid-fuelled with an open fuel container either under or in the cooking device.</p> <p>Conditions</p> <ul style="list-style-type: none"> Must be on a non-combustible area/base. You must have a suitable way to extinguish the fire within easy reach – a maximum of 5 metres away. Don't light your fire within 3 metres of any part of a building, hedge, shelter belt or any other combustible material. You must not leave the fire unsupervised while burning.
Non-pressurised liquid-fuelled heaters	<p>Examples include (but are not limited to) frost pot, smudge pot, diesel heater.</p> <p>Usually fuelled by diesel, vegetable oil, kerosene or waste oil.</p> <p>Conditions</p> <ul style="list-style-type: none"> Must be at least 3 metres clear of any of any part of a building, hedge, shelter belt or any other combustible material. Must be placed on a non-combustible surface, not directly on grass or wooden decks. You must not use the heater in small, confined areas.

Fire type	Description and conditions
	<ul style="list-style-type: none"> • If refuelling, ensure heater has cooled down before refilling. • You must not leave the fire unsupervised while burning. <p>If you cannot meet these conditions, you must apply for a permit.</p>
<p>Permanent outdoor fireplace Wood-fire pizza oven/wood oven</p>	<p>Purpose-built or manufactured woodburning fireplace/wood oven with an open front and a vertical smoke vent/chimney.</p> <p>Generally constructed of concrete, concrete blocks, stone, or bricks, fixed in place (not mobile/movable).</p> <p>Usually in home outdoor entertaining areas.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Must have a non-combustible hearth or base that extends a minimum of 500 mm either side of the left and right edges and a minimum of 1 metre from the front edge of the fire box. This is to stop any burning material falling from the fire box landing onto anything combustible. • Smoke vent/chimneys must have a purpose-built manufactured cap, or maximum of 5 millimetre steel mesh fitted in the top to stop any hot ash or embers from escaping. • Firewood storage must be in areas not affected by heat from the fire and clear of any possible hot ash or ember-affected areas. • You must have a suitable way to extinguish the fire within easy reach – a maximum of 5 metres away. • You must not leave the fire unsupervised while burning, or • It must have a solid or mesh screen/door that prevents any burning material from escaping the fire box. • Fireplaces with external construction made of steel must be at least 1 metre clear of any of any part of a building, hedge, shelter belt or any other combustible material. <p>If you cannot meet these conditions, you must apply for a permit.</p>
<p>Movable/ portable free-standing front-loading fireplace.</p>	<p>Examples include (but are not limited to) chiminea.</p> <p>A freestanding front-loading fireplace or oven, usually with a bulbous body – usually has a vertical smoke vent or chimney.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Don't light your fire within 3 metres of any part of a building, hedge, shelter belt or any other combustible material. • You must have a suitable way to extinguish that will easily reach it, a maximum of 5 metres away. • You must not leave the fire unsupervised while burning or • It must have a solid or mesh screen/door that prevents any burning material from escaping the fire box. <p>If you cannot meet these conditions, you must apply for a permit.</p>
<p>Cultural cooking fires</p>	<p>Examples include hāngi, umu and lovo.</p> <p>Conditions</p> <ul style="list-style-type: none"> • Your fire area must be less than 4 square metres. • Don't light your fire within 5 metres of any part of a building, hedge, shelter belt or any other combustible material. • You must have a suitable way to extinguish it within easy reach – a maximum of 5 metres from your cultural fire. • You must not leave the fire unsupervised while burning. • On completion of cooking or the purpose required for cooking food the fires must be extinguished. <p>If you cannot meet these conditions, you must apply for a permit.</p>

Fire type	Description and conditions
	Find out more about the safe use of cultural cooking fires – fireandemergency.nz > Traditional or cultural use of fire .

Authorised fire types on public conservation land in a prohibited fire season

This table lists the fire types that are authorised on public conservation land (PCL) in a prohibited fire season and the conditions for using them. As long as people using these fire types in a prohibited season meet these conditions, they don't need to get a fire permit, because Fire and Emergency doesn't consider them to be fires in open air.

Fire type	Description and conditions
Gas-operated appliances	Manufactured gas-operated appliances, such as barbeques, outdoor fireplaces and outdoor gas heaters. Find out more about the safe use of Gas BBQs, cookers and heaters .

Permits in prohibited fire seasons or during prohibitions under section 52

Fire and Emergency may grant permits:

- during a prohibited fire season, or
- when there is a prohibition under [section 52](#) of the Act but the fire or activity is necessary to prevent, reduce, or overcome any hazard to life or because of any other serious emergency.

We may grant fire permits during a prohibited fire season if weather or other conditions have temporarily reduced the fire hazard, so as to make it apparently safe to light a fire.

Note: Fire and Emergency may grant permits for the purposes of assisting compliance with other legislation such as Bio-security measures. For example:

The Management Agency for the American Foulbrood (AFB) Pest Management Plan implements the Biosecurity (National American Foulbrood Pest Management Plan) Order 1998.

- Where AFB is discovered, beekeepers have an obligation within 7 days of becoming aware of that case to destroy all honeybees, bee products, and appliances associated with that infected honeybee colony by burning.
- If it's a PROHIBITED fire season – Fire and Emergency New Zealand will promptly (24hrs) produce a District Manager-approved special Fire Permit to Burn during a prohibited season, under biosecurity emergency response status.

Permits issued in a prohibited fire season (e.g. for biosecurity reasons) remain active when the fire season changes.

Applying for a permit

To check if a fire permit is required, use the website checkitsalright.nz. If you need a permit, this site will automatically take you to the fire permits website.

When you know you need a fire permit, you can apply:

- online through Fire and Emergency's fire permitting system – firepermit.nz
- over the phone – 0800 658 628. Your application is then completed in the online system on your behalf
- in person, by asking local Fire and Emergency fire permitting personnel for a fire permit
- by email or post, using the manual [fire permit application form](#). You can print and complete the form by hand or complete the editable pdf and send it back to us.

Assessment

The fire permit assessors will make a risk-based decision about whether a desk-based assessment or an on-site inspection of the burn location is required before deciding to grant or refuse the fire permit.

Note: Where an application has multiple burn locations, they must consider each location.

The assessor must inspect a permit applications if:

- they have insufficient information to make a desk-based assessment, or
- where any of the following apply to the proposed fire:
 - it is during a prohibited fire season
 - it requires a burn plan
 - it is in a location where the predominant fuel type is considered to be of high flammability
 - it is in a location that is adjacent to areas of significant commercial or environmental values
 - it involves multiple fires burning at the same time in different locations on a property
 - it is located on steep or complex terrain
 - it involves burning large amounts of material unless the applicant has a history of successfully managing similar fires.

The follow additional factors can be considered to be fire risk conditions or relevant fire control matters:

- The environment around the burn site
- The actual site area and boundaries of the proposed burn
- Other property and/or values at risk from a possible escaped fire
- Other relevant hazards
- Time of ignition, light-up sequence and method of the proposed fire
- Potential fire behaviour and rate of fire spread
- Firebreaks around the area to be burnt
- Resources available to carry out the burn safely and effectively
- The applicant's understanding of the risks associated with the proposed fire, and their ability to manage those risks effectively.

Prescribed burn plans may be required for complex and higher-risk burns, e.g. land clearing. They help the person proposing to burn to:

- go through a planning process
- consider how to undertake the proposed fire safely.

The applicant is responsible for developing the [prescribed burn plan](#). However, we can advise them what the plan should contain to carry out the proposed fire safely.

Mandatory conditions

Every permit must contain standard conditions that are required by the [Fire and Emergency New Zealand \(Fire Permits\) Regulations 2017](#) and cannot be removed. These are:

- You must not light a fire in fire risk conditions that make it likely that the fire will spread beyond the limits of the location or property specified in the permit as the location of the fire.
- If this permit was issued for a proposed fire in an area which is in a restricted fire season:
 - it is suspended if we declare a prohibited fire season or prohibit fire in open air
 - you must, immediately before lighting a fire, make reasonable efforts to confirm that, in the location of the fire:
 - no prohibited fire season is in place; and
 - no prohibition on the lighting of fires in open air is in place.

If the fire permit is issued when fire has been prohibited in open air ([section 52](#) (1) of the Act) the following condition must be included on the permit:

- immediately before lighting a fire you must make reasonable efforts to confirm that no restricted or prohibited fire season under [section 56](#) (1) of the Act is in place in the location of the fire. Use [Checkitsalright.nz](https://www.firepermit.nz).

The permit will also include a condition to notify the Communications Centre immediately before lighting the fire. For example:

- notify us before lighting the fire using the text code or email links provided or at <https://www.firepermit.nz/FENZ/Default.aspx>.
- call Southern fire communications on 03 341 0266.

For fire permits where the public are likely to notice the fire call 111, we prefer you notify us electronically.

For example, where the fire :

- is close to a road, or to other houses or buildings
- covers a large area, such as land clearing.

During an open fire season, you can notify us by contacting the [fire communications centre](#), or preferably by clicking **Lighting a fire in an open season** on [firepermit.nz](https://www.firepermit.nz) and completing the **Permit Activation** form.

These notifications are flagged within the call centre system, so if they get a 111 call, it's clear there is a permitted/controlled fire.

Firebreaks

Fire and Emergency has the authority under [section 62](#) of the Act to require landholders to make or clear firebreaks on the landholder's land, or keep them clear if we think it's needed for fire control. This can include green firebreaks, or strips of lower flammability or removing all vegetation down to mineral earth.

Sections [63–68](#) of the Act explain appeal provisions and compliance pathways.

We use our [Firebreaks policy and guideline](#) to apply the relevant science-based calculation to check if a fire break is the right solution. The policy guides us on working closely with affected landholders to work towards a voluntary solution.

Fire and Emergency has powers to:

- require compliance
- make or clear any firebreak
- issue an infringement notice if compliance is not reached voluntarily.

Note: This power relates to making and clearing firebreaks outside of incident response – before a fire happens. Our powers during response in [section 43](#) allow us to create firebreaks as needed to prevent the spread of fire.

Fire hazard removal

Sometimes, Fire and Emergency reasonably considers that vegetation, or some other thing, is a fire hazard, meaning that it is likely to endanger people or property by increasing the risk of outbreak or spread of fire. In these situations, we can require that the vegetation or thing be removed or destroyed.

We will work with affected people to fix the issue first, but we're authorised under [section 65](#) of the Act to legally require action. You then have one month to fix the problem, although you can appeal against the requirement. You must appeal within 14 days and your appeal will be handled through Fire and Emergency's dispute resolution scheme.

Our fire hazard removal powers apply to anything on the land, but not to anything on or inside a building. Local councils have the authority to address fire risk related to buildings, such as hoarding.

If it's urgent (an imminent danger) we can tell you, and immediately fix the problem ourselves to keep people and property safe.

Reporting fire hazards

Anyone who becomes aware of a fire hazard, or is worried that something is a fire hazard, can report it to Fire and Emergency.

To do this:

1. Go to [Fire hazards in your community](#).
2. Scroll down the page and choose **Submit a Fire Hazard Assessment Request**.
3. At the bottom of the page, under **Report a Potential Fire Hazard**, click **Start process**.
4. Complete the 'Potential Fire Hazard Advice' form.

Assessment of fire hazards

Fire and Emergency will assess whether there is a potential for the fuel to harm people or damage property if a fire starts. We will assess the likelihood of a fire starting and the consequences in terms of risk to human life, structures and other values.

We use an assessment tool to provide a structured framework for determining whether:

- it is appropriate for us to exercise our fire hazard removal powers under [sections 65–68](#) of the Act
- it is more appropriate to educate the complainant or occupier/owner of the location of the potential fire hazard on how to mitigate risks from fires
- to refer the matter to another jurisdiction
- no further action is required.

Initial review

The assessor starts by answering four key questions:

- Is the potential hazard:
 - trees close to power lines, or
 - hoarding inside a building?
 If yes, then the hazard is referred to the relevant lines company or local council for action.
- Is the material involved likely to pose a risk to life or property through ignition without spreading? This covers fuel types that are likely to endanger adjacent or downwind properties (either through creating significant health concerns or possible contamination damage), without spreading. This could be due to smoke toxicity or high intensity of burning.
- Is there sufficient material of appropriate type and composition to support a fire spreading to adjacent property or values? This captures the spread potential, taking into consideration the physical properties of the fuel as well as the general topography and onsite conditions. That includes continuity, size and shape, fuel load and flammability, as well as likely direction of fire travel.
- Is the burning material likely to produce enough heat to cause damage to property? Gives consideration to the fire having sufficient energy to actually cause damage to property if spread to it, or to compromise the health of property users.

Risk assessment matrix

If it's appropriate, we then use a risk assessment matrix. This involves:

- assigning a risk of ignition rating, where 'rare' is a low rating and 'almost certain' is a high rating

- assigning a likely consequence rating for each component, and using the highest value of:
 - human life at risk
 - structure at risk
 - other values at risk
- using the risk of ignition and likely consequence ratings to determine the risk assessment score in the matrix

		Likely consequence (highest consequence rating)				
		1	2	3	4	5
Risk of ignition rating	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5

- using the risk assessment matrix score to determine the next course of action.

Score	Next course of action
1-5	No further action.
6, 8, 9	Consider providing information/education to occupier/owner/complainant on how to mitigate risks from fire.
10, 12	Provide information/education to occupier/owner/complainant on how to mitigate risks from fire.
15, 16	Consider issuing a <i>Fire hazard removal notice (s 65)</i> , otherwise provide information/education to the occupier/owner /complainant on how to mitigate risks from fire.
20, 25	May issue a voluntary compliance letter citing a timeframe to meet that compliance. Failure to comply means the assessor must issue a <i>Fire hazard removal notice (s 65)</i> . Consider if an <i>Imminent danger notice (s 68)</i> is appropriate.

Outcomes from the fire hazard assessment

The assessment will recommend one of the following courses of action:

1. No further action, because the vegetation or other thing does not present a fire hazard, or imminent danger. The matter may be referred to another agency, such as the local council if appropriate, e.g. hoarding or vermin infestation.
2. Providing education and information to the occupier or owner of the land, and/or to the complainant, on how to mitigate any risks from fire. We would do this where the notice threshold has not been reached but the assessment indicates that proactive action would be helpful.
3. Giving the occupier or owner of the land the opportunity to voluntarily mitigate the risk within an appropriate time period. We would do this if the threshold for issuing a Fire hazard removal notice ([section 65](#)) has been met. If the occupier or owner won't do this voluntarily, we will issue them with a Fire hazard removal notice ([section 65](#)). This notice gives them one month to remove or destroy the vegetation or other thing increasing the risk of the outbreak or spread of fire.
4. Give the owner or occupier of the land verbal notice that we are taking immediate action to remove or destroy any vegetation or other thing on the land that is a source of imminent danger under [section 68](#). We would only use this power when there is an 'almost certain' likelihood of a fire starting or spreading at any moment that would put life or property at risk.

Note: We will use this power very rarely.

Powers of entry

We will not enter private property without permission from the occupier other than to knock on the front door or other entry point to find and speak with an occupier.

If the occupier doesn't give us permission or we can't find them, we will attempt to assess the potential fire hazard from outside of the property. For example, we might view it from the roadside or from a neighbouring property if the neighbour consents to us entering their property.

If we need to, a Fire and Emergency inspector can enter and inspect land that is not a home or marae (or a building associated with a marae) to determine whether certain materials (including timber, dry plant cuttings and other flammable material) are being stored outside a building in a way that creates a fire hazard to the building, another building, or to any road or other public place (see [regulation 13\(4\)](#) of the [Fire and Emergency New Zealand \(Fire Safety, Evacuation Procedures, and Evacuation Schemes\) Regulations 2018](#)).

A Fire and Emergency inspector must obtain a warrant to enter and inspect land that is a home or marae (or a building associated with a marae).

We can take photographs of private land (or things on private land) from public land as long as we don't take pictures of an area or thing that a person can reasonably expect to be private (e.g. a photo that includes a view into a shower or a secluded area where someone is sunbathing).

Fire hazard removal notice (section 65)

A fire hazard removal notice ([section 65](#)) is formal written notification under [section 65](#) of the Act to an occupier or owner of land that they must remove or destroy the 'vegetation or other thing' that we've assessed as meeting the threshold for issuing a notice.

The notice:

- describes the vegetation or other thing that must be removed or destroyed, including a map if practicable identifying the specific location or extent of the vegetation or other thing
- explains the risk that Fire and Emergency reasonably considers that the vegetation or other thing presents
- specifies the actions that must be taken to mitigate the fire hazard risk, e.g. how much vegetation must be removed or destroyed.

Before we issue a fire hazard removal notice, we will always try to negotiate with the occupier or owner to give them an opportunity to fix the issue voluntarily.

The occupier of the land where the fire hazard is located is primarily responsible for removing or destroying it. If the land is unoccupied, then the responsibility passes to the owner of the land.

Occupier, in relation to any place or land, means any person in lawful occupation of that place or land; and includes any employee or other person acting under the authority of any person in lawful occupation of that place or land.

Imminent danger notice (section 68)

An Imminent danger notice is verbal notification under [section 68](#) of the Act to an occupier or owner of land that Fire and Emergency is going to enter the land and remove or destroy any vegetation or other thing on land that we consider is a source of imminent danger from fire to life, property, or any road.

Anyone receiving the verbal notice should be able to understand:

- that Fire and Emergency has decided that [description of fire hazard] is a source of imminent danger to [life, property, and/or road]
- why the fire hazard is a source of imminent danger
- that Fire and Emergency has arranged for the [removal or destruction] of the fire hazard under [section 68](#) of the Act by [name of contractor] on [date]
- any arrangements for the storage of items removed from the land, and the terms under which the owner/occupier can retrieve those items.

In the event of an actual fire, we can use all of our powers to deal with the emergency, including [sections 42 and 43](#) to remove vegetation or material without telling you.

Regulatory compliance

Fire and Emergency's role

The Act gives Fire and Emergency compliance and enforcement responsibilities, and powers to support interventions in cases of non-compliance. In line with this, we have developed a comprehensive [Risk Reduction Strategy](#), supported by a Regulatory compliance policy. Our [Regulatory compliance guide](#) has details of our approach to compliance.

Our compliance activities generally focus on education and awareness first, followed by issuing warnings. If compliance is still an issue, then we may use more formal enforcement powers.

If there are cases of serious or repeated non-compliance, we may use infringement notices or prosecute. For more information on our regulatory compliance policies and procedures and other relevant topics, visit [Regulatory compliance](#).

Contact Fire and Emergency

In case of an emergency please call 111

General enquiries and questions

- Recruitment/volunteering
- Fire safety information
- Fire permits and seasons
- Evacuation schemes
- Request for access to the site of an emergency.

[Submit a general enquiry or question](#) or call 04 496 3600.

Lodge a complaint

<https://www.fireandemergency.nz/contact-us/complaints/>

Fire hazards

- Complete [this online form](#)
- You can also call the Regulatory Compliance Group on 0800 336 942.

Local contacts for this plan

To communicate with the District team for this fire plan please email fireadvicenm@fireandemergency.nz

Glossary

4Rs – Reducing risk, ensuring response readiness, providing emergency response and making coordinated efforts to enable recovery following an emergency.

Build-up Index (BUI) – A component of the Fire Weather System. This index shows the amount of fuel available for combustion, indicating how the fire will develop after the initial spread. It is calculated using the Duff Moisture and Drought Code.

Duff Moisture Code (DMC) – A numerical rating of the average moisture content of loosely compacted organic layers of moderate depth. This code gives an indication of fuel consumption in moderate duff layers and medium-size woody material.

Firebreak – A natural or artificial physical barrier against the spread of fire from or into any area of continuous flammable material – e.g., a track bulldozed clear of all vegetation.

Fire control – Preventing, detecting, controlling, and putting out fire, and protecting persons and property from fire.

Fire control powers – Our ability to legally require people to stop doing things that increase the risk of a fire – e.g. restricting where and when they can use fire, requiring vegetation to be removed to prevent the spread of fire, etc.

Fire danger – A rating of how difficult a fire will be to control once it starts – e.g. low to extreme: low being easy to contain, extreme very difficult to contain.

Fire Danger Rating System - A relative class denoting the potential rates of spread, or suppression difficulty for specific combinations of temperature, relative humidity, drought effects and wind speed, indicating the relative evaluation of fire danger.

Fire environment – The surrounding conditions, influences, and modifying forces of topography, fuel, and weather that determine fire behaviour.

Fire hazard – Vegetation or other thing on the land that Fire and Emergency reasonably considers likely to endanger persons or property by increasing the risk of the outbreak or spread of fire.

Fire in open air – Fire that isn't in a fireplace in a building or structure or isn't in something else that Fire and Emergency says is not in the open air.

Fire risk conditions - Weather or other conditions that will, or are likely to, endanger persons or property by increasing the risk of the outbreak or spread of fire.

Fire seasons – Period when we restrict or prohibit the use of fire in the open air. Areas that are not in a Restricted or Prohibited fire season are in an Open fire season. Can also refer to the October to May period when fires are more likely.

Fire weather – Weather conditions which influence fire ignition, behaviour and suppression.

Fire Weather System – Numerical values that indicate weather and fuel conditions that influence fire behaviour, which feeds into the Fire Danger Rating System.

Grass curing (GC) – A component of the Fire Weather System. Grass goes through a natural process where after flowering/seeding it changes colour as it dies off. This process is known as 'curing.' The degree of curing (%) is the portion of dead grass vs live. Dead grass allows fire to spread easily.

Important Bird Areas (IBAs) – Sites recognised as internationally important for bird conservation and known to support key bird species and other biodiversity. Legal protection, management and monitoring of these crucial sites are all important targets for action. Many bird species may be effectively conserved by these means.

Land cover – What covers the land – trees, grasslands, scrub, residential property.

Land use – How the land is used – e.g. primary production (farming), forestry, residential, industrial.

Local area – The area within the boundaries of a local advisory committee that are set in accordance with [section 16](#) of the Act.

Primary production – Livestock farming for dairy, meat and wool. Horticulture, including kiwifruit, apples, avocados, grapes for wine production, vegetables, arable and seed crops, other horticultural crops, cut flowers, and other animal products. Also includes forestry, but this is dealt with separately in fire plans.

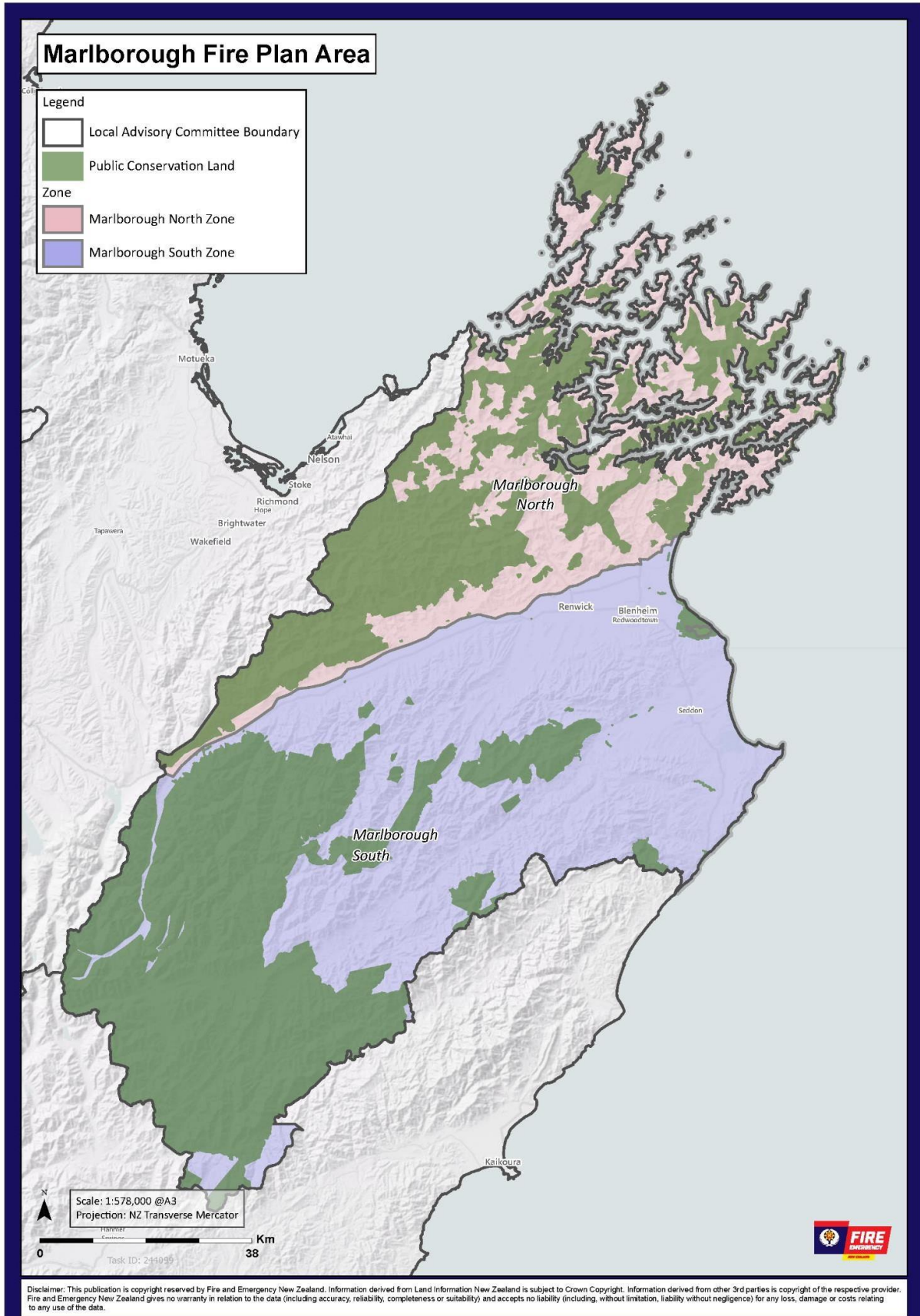
Public conservation land (PCL) – Land used for conservation purposes, including National Parks and forest parks. Often managed by Department of Conservation or the regional council.

Remote Automatic Weather Station (RAWS) – Weather station that automatically provides the data used to determine weather and fuel conditions. Results are available from <https://fireweather.niwa.co.nz> and products such as Eco Connect.

Scientific Reserves – Per the [Reserves Act 1977](#), the principal purpose of these reserves is the protection and preservation in perpetuity of areas for scientific study, research, education and the benefit of the country.

Marlborough information

This section contains the information specific to this fire plan area, including an overview of the area, and more detailed information for each of the zones within the area.



Area overview

Geography

The Marlborough Fire Plan consists of all the lands within the boundaries of the Marlborough District Council Unitary Authority. This includes all privately owned and publicly managed lands within the plan boundaries, excluding the defence land at Royal New Zealand Air Force (RNZAF) Base Woodbourne.

The plan covers all land, and islands, encompassing the Marlborough Sounds area to the north, and borders the Nelson/Tasman District to the west, starting at Cape Soucis (Raetihi), travelling through the Rai Saddle and the Bryant and Richmond Ranges before crossing State Highway 63 near the Rainbow Road turnoff. It follows the St Arnaud Range to the south and begins to border the North Canterbury District near the head waters of the Clarence River. It then follows the Crimea, crosses the Amuri to then follow part of the Inland Kaikoura Ranges before meeting the East Coast below the settlement of Wharenui.

The Marlborough District covers 12,482 square kilometres.

Demographics

Demographics help us understand how our communities use fire, and the type of support they might need and how we communicate with them.

Statistics New Zealand estimates the population at 50,200 as of June 2020. The region is home to 1.0% of New Zealand's population.

Marlborough has three towns with a population over 1000. Together they are home to 70.6% of the region's population.

Urban area	Population (June 2020)	% of region
Blenheim	28,200	56.2%
Picton	4,790	9.4%
Renwick	2,418	4.9%

Zones

Because of the different fire risk conditions that exist in different parts of the fire plan area, the area is divided into a number of different fire season zones to allow for appropriate fire control measures to be applied locally:

- Marlborough North
- Marlborough South
- Public Conservation Land

Each zone is described and its relevant trigger thresholds and other factors for changing fire seasons are listed in the Appendices.

Frequency of elevated fire danger

On average, this area experiences:

- 44 days of extreme fire danger (4-year average using Mid Awatere RAWS)
- 42 days of very high fire danger (4-year average using Mid Awatere RAWS)

Schedule of stakeholders

This schedule of stakeholders includes those who should be involved in the creation of these fire plans and their amendments, or consulted before making use of the powers of section 52 of the Fire and Emergency New Zealand Act 2017, or notified when this happens. Zone-level stakeholders are listed with each zone description.

When we say...	What we mean is...
Consult while amending plan	You will have the opportunity for input into the fire plan before it is released for public consultation. Can include workshops and other opportunities to contribute. Note: not all or any inputs are guaranteed to be used. Fire and Emergency New Zealand reserves the right to determine the best outcome for all communities.
Public consultation	You will have the opportunity to comment during the 4-week public consultation period.
Consult during decision making	The plan to change to a prohibited fire season or use section 52 will be discussed with you before it is implemented.
Notify of decision	You will be contacted directly when there is a change to a prohibited fire season, or when section 52 is implemented.
Notify using public channels	You will find out about the change in fire season etc. the same way as other members of the public.
Notify via normal channels	This is relationship based, at either national or local level where existing relationships and engagement arrangements are used

National-level stakeholders

Stakeholders who have an interest in this fire plan area but are managed at national level.

Stakeholder	Fire plan development	Fire plan amendment	Fire season changes Restricted or prohibited. Moving to, or revoking	Section 52 fire prohibitions	Section 52 restrictions/prohibitions on activities
Department of Conservation	Consulted while creating plan	Consult while amending plan	Consult during decision making	Consult during decision making	Consult during decision making
New Zealand Defence Force	Consulted while creating plan	Consult while amending plan	Consult during decision making	Consult during decision making	Consult during decision making
Environmental Protection Authority	Consulted while creating plan	Consult while amending plan	Notify using public channels	Notify using public channels	Notify using public channels

Stakeholder	Fire plan development	Fire plan amendment	Fire season changes Restricted or prohibited. Moving to, or revoking	Section 52 fire prohibitions	Section 52 restrictions/ prohibitions on activities
Federated Farmers of New Zealand	Public consultation	Consult while amending plan	Consult during decision making	Consult during decision making	Consult during decision making
Toitū Te Whenua – Land Information New Zealand	Consulted while creating plan	Consult while amending plan	Notify using public channels	Notify using public channels	Notify using public channels
Taituarā – Local Government Professionals Aotearoa (formerly Society of Local Government Managers (SOLGM))	Consulted while creating plan	Consult while amending plan	Notify using public channels	Notify using public channels	Notify using public channels
Local Government New Zealand (LGNZ)	Consulted while creating plan	Consult while amending plan	Notify using public channels	Notify using public channels	Notify using public channels
Forest Owners Association	Consulted while creating plan	Consult while amending plan	Consult during decision making	Consult during decision making	Consult during decision making
Ministry for Primary Industries: <ul style="list-style-type: none"> Te Uru Rākau New Zealand Forest Service Crown Forestry 	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Consult during decision making
NZ Farm Forestry Association	Public consultation	Consult while amending plan	Consult during decision making	Consult during decision making	Consult during decision making
Te Puni Kōkiri	Public consultation	Consult while amending plan	Notify using public channels	Notify using public channels	Notify using public channels
Ngā Whenua Rāhui	Public consultation	Consult while amending plan	Notify using public channels	Notify using public channels	Notify using public channels
Waka Kotahi NZ Transport Agency	Public consultation	Consult while amending plan	Notify using public channels	Notify using public channels	Consult during decision making
Nga Pirihimana O Aotearoa New Zealand Police	Public consultation	Public consultation	Notify of decision	Notify using public channels	Notify using public channels

If your organisation should be involved in fire plans at a national level, please contact us.

Area-level and zone-level stakeholders

This list is for stakeholders who have an interest in the fire plan area or in specific zones. Fire and Emergency undertakes to consult as indicated for each zone's stakeholders.

Stakeholder	Fire plan development	Fire plan amendment	Fire season changes Restricted or prohibited. Moving to, or revoking	Section 52 fire prohibitions	Section 52 restrictions/prohibitions on activities
Rangitāne o Wairau	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Ngāti Kuri	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Ngāti Tama ki Te Tau Ihu	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Te Ātiawa o Te Waka-a-Māui	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Ngāti Rārua	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Ngāti Kōata	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Ngāti Toa Rangatira	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Ngāti Kuia	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision

Stakeholder	Fire plan development	Fire plan amendment	Fire season changes Restricted or prohibited. Moving to, or revoking	Section 52 fire prohibitions	Section 52 restrictions/prohibitions on activities
Ngāti Apa ki te Rā Tō	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Marlborough District Council	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Notify of decision
Top of the South Wood Council	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Notify of decision
One Forty One Limited	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
PF Olsen Limited	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
M&R Forestland Management Limited	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Earnslaw One Limited	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Department of Conservation	Consulted while creating plan	Consult while amending plan	Consult during decision making and notify of decision	Consult during decision making and notify of decision	Notify of decision
Pāmu - Landcorp Farming Limited	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Notify of decision
Kiwi Rail	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Notify of decision
Marine Farmers Association	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Notify of decision

Stakeholder	Fire plan development	Fire plan amendment	Fire season changes Restricted or prohibited. Moving to, or revoking	Section 52 fire prohibitions	Section 52 restrictions/prohibitions on activities
Federated Farmers	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Notify of decision
Waka Kotahi - NZ Transport Agency	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Notify of decision
Marlborough Lines Limited	Consulted while creating plan	Consult while amending plan	Notify of decision	Notify of decision	Notify of decision
Public	Public consultation	Public consultation	Notify via public channels	Notify via public channels	Notify via public channels

Zone Information

Marlborough North

Geography

The Marlborough North zone encompasses all land and islands, including Department of Conservation (DOC) land, to the north of the Wairau River excluding the flat land from the eastern side of State Highway 1 from Tuamarina to Rarangi.

The fire permit zones that make up the Marlborough North zone include Marlborough North Urban and Marlborough North Rural.

Demographics

Demographics help us understand how our communities use fire, and the type of support they might need and how we communicate with them.

Within the Marlborough North zone there is one small urban area being Picton (population 4730), along with the following rural settlements:

- Havelock – population 588
- Tuamarina – population 240
- Rai Valley – population 190
- Anakiwa – population 177
- Okiwi Bay – population 80
- Ngakuta Bay – population 57

Climate/weather

The Marlborough region has a temperate oceanic climate with warm summers, cool winters, and rainfall distributed across the year.

In general, coastal sites have fewer extremes than inland sites. For example, the Pelorus Sounds have 6 days per year on average where the maximum air temperature exceeds 20 degrees Celsius and one day in three years when the minimum air temperatures fall below zero degrees Celsius. In contrast, Molesworth records 16 days where temperatures rise above 25 degrees Celsius, and 129 days when temperatures fall below freezing.

The Marlborough North zone has a mild climate which is generally warm and temperate. Rainfall in this zone is significant, with precipitation even during the driest months. Although annual rainfall in this zone is approximately 1000mm per year, some areas in the Marlborough Sounds can receive in excess of 1500mm per year. On average May is the wettest month.

Wind is predominantly from the north at an average of 9.5 months per year. Wind from the west averages 1.5 months and from the south averages 1 month per year.

During the months of January, February, March and December, Marlborough is most likely to experience good days with pleasant temperatures that fall between 20 degrees Celsius and 25 degrees Celsius. February is the warmest month with an average maximum temperature of 23 degrees Celsius. The coldest month is July with an average maximum temperature of 12 degrees Celsius.

Land cover/ land use

Land cover in this zone is predominantly DOC managed indigenous forest with small amounts of scrub and grass land. There are scattered patches of wilding pines. DOC manage approximately 70 percent of land in this zone.

Private land in this zone consists of predominantly production forest, both high and low producing grassland, indigenous forest, and scrub fuels. There is a higher

percentage of indigenous forest and scrub fuels in the Marlborough Sounds area, whilst production forest is predominately in the southern part of the zone along the Northbank and Port Underwood areas.

Land usage within the zone, on the flat ground and rolling hills, is predominantly dairy, sheep and beef farming with a small amount being in vineyards. Production forest covers approx. 40,000 ha.

Industry

Industry	Contributes to increased risk of fire in high risk conditions	Affected by use of fire control measures	Needs to be protected by using fire control measures
Multiple primary production locations in the Koromiko, Havelock, Linkwater, Rai Valley and Marlborough Sounds areas <ul style="list-style-type: none"> • use of machinery – sparks • use of fire for land management • relevant operations affected 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forestry <ul style="list-style-type: none"> • use of machinery – sparks • relevant operations affected • Use of firebreaks 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Apiculture (beekeeping) <ul style="list-style-type: none"> • Use of smoke • Use of fire to destroy infested hives 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One Forty-One Limited Kaituna Sawmill <ul style="list-style-type: none"> • Impacted by restrictions on activities for suppliers 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tourism and recreation <ul style="list-style-type: none"> • People unfamiliar with local fire risk and rules • Access to locations may be restricted 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Forestry includes multiple small privately-owned production forests and:

- One Forty-One – Manuka Island, Patriarch, Glengyle, Top Valley, Pine Valley/Cat Creek, Bartletts/Quartz Creek, Langley Dale, Briggs, Davies, Adams, Bookers, Storeys Creek, Okaramio, Crump/Farnell, Linkwater, Wilsons, Canvastown, Kaiuma, Burroughs, Wilson Construction, Wakamarina, Prices, Swan Weller, Bowns, Butlers, Tinline, Reids, Coupers, Gilchists, Roeskes, Opouri, Denkers, Kokorua, Collins, Hori Bay and Whangamoia Forestry Blocks
- M&R Forestland Management Limited – Koromiko, Strachan Peak, Pukaka, Speeds, Waikakaho, Para, Kaituna, Northbank, Underwood Forests and Marberry Estate Forest
- PF Olsen Limited – Linkwater Forests, Rai valley, Robinhood Bay and Crail Bay.

Lifeline utilities/other infrastructure

Lifeline utility/ other infrastructure	Contributes to increased risk of fire in high risk conditions	Affected by use of fire control measures	Needs to be protected by using fire control measures
Electricity transmission lines <ul style="list-style-type: none"> • Sparking during high winds • Use of auto-reclosers limited in high fire danger • Recommended vegetation mitigation practices 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Railway line <ul style="list-style-type: none"> • Sparks from passing trains and during track maintenance 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Roading network <ul style="list-style-type: none"> • Sparks from vehicle malfunction, discarded cigarettes • Spark causing activities during road maintenance and mowing 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Telecommunications network <ul style="list-style-type: none"> • Protect by applying controls to surrounding areas 	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Electricity transmission

Transpower's 350 kV High Voltage Direct Current (HVDC) line enters this zone starting at Fighting Bay and goes past Port Underwood and Rarangi continuing into the Marlborough South zone.

Transpower's 110 kV AC line travels from Blenheim to Nelson mainly via State Highway 6, cutting inland before Havelock and to the south of Canvastown.

Marlborough Lines have distribution networks throughout the zone included in the total Marlborough network consisting of 278km of 33kV lines, 2091km of 11kV lines and 406km of 400/230V lines.

State highway network

Starting in Picton State Highway 1 travels through the zone and is the main arterial route to Blenheim.

State Highway 6 starts at the Wairau River bridge near Renwick and travels through Havelock, Canvastown, Rai Valley and is the main arterial route to Nelson.

Rail

Kiwi Rail operate both freight trains and the Coastal Pacific passenger train through this zone, mainly parallel with State Highway 1 on the eastern side of the zone.

Marlborough Flyer steam train operates predominately through the October – April summer cruise season taking tourists on a scenic trip from Picton to Seddon and return.

Recreational locations

Recreational activities/locations that will be affected by Fire and Emergency exercising its fire control powers are:

- Production forestry areas that usually allow public access.
- Department of Conservation camping areas including Whites Bay and Onamalutu.

Cultural and recreational activities and events

Tangata whenua have very strong ties to their whenua (land) and culture, and value being able to use their whenua without unnecessary restrictions.

We will consult with tangata whenua and consider the needs of iwi when making decisions about implementing restrictions or prohibitions with our fire control powers. The relevant iwi for this zone are listed as stakeholders.

Large scale events that might be cancelled because a restriction on activities can have a significant economic impact.

Placing restrictions or prohibitions on fire hazardous activities should not impose any unreasonable restrictions on people living and enjoying recreational activities in this zone.

Cultural and recreational activities and events	Contributes to increased risk of fire in high risk conditions	Affected by use of fire control measures	Needs to be protected by using of fire control measures
Cultural cooking, e.g. hāngī, umu, braai and lovo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Fireworks displays <ul style="list-style-type: none"> ○ Picton Maritime Festival ○ Picton Foreshore New Year's Eve ○ Okiwi Bay New Year's Eve <ul style="list-style-type: none"> • Use may be prohibited during high fire danger • Pyrotechnics managed by other approvals 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Recreational hunting <ul style="list-style-type: none"> • Campfires • Access may be restricted during high fire danger 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mountain biking, horse riding, back country running, hiking. <ul style="list-style-type: none"> • Access may be restricted during high fire danger 	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> • Use of off-road vehicles – hot exhausts in long grass 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> • Increase in people without knowledge of fire risk or rules 	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Special risk areas

Special risk area	Contributes to increased risk of fire in high risk conditions	Affected by use of fire control measures	Needs to be protected by using of fire control measures
Public conservation land <ul style="list-style-type: none"> Ecological values at risk In own zone to apply separate controls 	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The Queen Charlotte track, which is part of the Te Araroa Trail, that in parts runs along the ridge top between the Kenepuru and Queen Charlotte Sounds is a high use area for hiking and mountain biking. This track has had sections closed in previous years by the DOC when fire danger has been extreme.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Multiple DOC camp sites throughout the zone which are restricted 365 days a year unless moved to prohibited.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mt Richmond Forest park beyond the Crown forest easement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
The Link Pathway – a 42km walking and mountain bike track that connects Havelock, Picton, Anakiwa and the Queen Charlotte Track.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High fuel loading around dwellings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Known fire hazards There are no long-term fire hazards listed in this zone in the Fire Hazard Removal Case Management System.

Frequency of elevated fire danger

On average, this zone experiences:

- 5 days of extreme fire danger (5-year average using Rai Valley RAWS)
- 10 days of very high fire danger (5-year average using Rai Valley RAWS)

Fire history

The known fire history for this zone for significant wildfires or fires caused by activities regulated by our fire control powers includes:

Year	Fire	Cause
2015	Waikakaho Valley	Accidental – Forestry Harvesting Operations
2015	Onamalutu Valley	Undetermined

Predominant fuel type

The predominant fuel type in this zone is forest with patches of grassland.

Thresholds

Fire seasons

For setting fire season status, Build-up Index (BUI) and the degree of grass curing (GC%) are the most relevant fire weather indices to monitor where there is a mixture of forestry and grasslands as the predominant fuel types.

Grass Curing (GC%)	Build Up Index (BUI)		
	(%)	0-40	40-60
0-50	Open	Open/Restricted	Restricted/Prohibited
50-80	Open/Restricted	Restricted	Prohibited
>80	Restricted/Prohibited	Prohibited	Prohibited

Interpreting this matrix:

Open	Open fire season
Open/Restricted	Open fire season but we may move to a restricted season earlier if forecast conditions support this.
Restricted	Restricted fire season
Restricted/prohibited	Restricted Fire Season but we may move to a prohibited season earlier if forecast conditions support this or stay in a prohibited season longer if grasses remain dry and cured.
Prohibited	Prohibited fire season

Prohibition on fires in open air (section 52)

We can use the same Fire Weather System trigger thresholds for prohibiting fires in the open air under section 52 as we do for changing to a prohibited fire season but use section 52 when the fire risk conditions are not expected to last long enough to make changing to a prohibited fire season practical.

Other local thresholds have not been set.

Prohibitions or restrictions on activities (section 52)

Localised trigger thresholds for applying section 52 to activities have not yet been developed, however there are some local mitigations used to reduce the need to implement it.

Advice is available through our advice website [Checkitsalright.nz](https://www.checkitsalright.nz) for when to avoid certain activities that may be of risk for causing a wildfire. Noting these are voluntary restrictions it is envisaged the majority of public will follow this, where there is an elevated risk or public are not following this advice, imposing prohibitions or restrictions on activities is a tool available to us.

Forestry operations

Since 2003, forest owners and contractors have been collaborating with the Fire Authority / Fire and Emergency, producing the *Forest Industry Working Group Fire Prevention Guidelines for Forestry Operations*. It has been regularly reviewed to consider new equipment, evolving work practices and lessons learned from fire events, so that it remains effective and relevant. The latest version is the result of 12 such reviews.

The guideline details the equipment requirements and activity requirements for each aspect of forest operations across six levels of fire risk. BUI and Fire Weather Index (FWI) are used as the trigger level.

Once the BUI climbs above 40, a daily update of fire risk level or 'Colour' for each forest zone is emailed out to a list of industry people and organisations. The update is sent each morning with the current day and following day forecast fire risk levels given.

A copy of the guideline is included as [Appendix 1](#).

Chainsaw thinning to waste/tree felling

Chainsaw thinning to waste/tree felling restrictions are documented within the *Forest Industry Working Group Fire Prevention Guidelines for Forestry Operations*. They are communicated across the Forest contractors and industry inline with the procedure outlined above for Forestry Operations.

Spark hazardous activities

In 2019, in consultation with a working group consisting of farmers, agricultural contractors, engineering companies, roadside mowers, and Local Authorities, the *Nelson Marlborough Fire Prevention Guideline for Heat and Spark Hazardous Activities / Hot Works* was developed. It is currently on its eighth iteration. The guideline uses a matrix of Grass Curing and Fine Fuel Moisture Code to determine the risk of ignition that is expressed in one of four colours: green, yellow, orange and red. For each risk level, the response equipment requirements are listed for various activities including:

- Roadside and pasture / gorse / scrub mowing
- Welding / Grinding / Gas Cutting
- Crop Harvesting machine including crop trimming
- Mechanical pasture / scrub development / discing / ploughing / cultivating
- Tracked and digging machines on grass dead / vegetation (includes civil contracting and quarrying)
- Use of electric fences
- Chainsaws, chippers, steel scrub cutters

The activity requirements for each activity type are given for each coloured fire risk level.

Each day the forecast risk levels for each zone in the district is emailed out to a list of people and organisations. This list is different from the Forestry Operations email list.

A copy of the guideline is attached in [Appendix 2](#).

Powerline auto-reclosers

In 2015, the *Powerline Auto-recloser Guideline* was developed in consultation with local power network distributors. The guideline is based on the risk level being calculated on a matrix of grass curing and Fine Fuel Moisture Code with a wind component and results in a 3-colour risk level rating that indicates if the auto-reclose should be switched off.

A copy of the guideline in [Appendix 3](#).

**Representative
remote automated
weather stations**

The Remote Automated Weather Station (RAWS) used to determine whether we have reached the trigger thresholds are:

Rai Valley

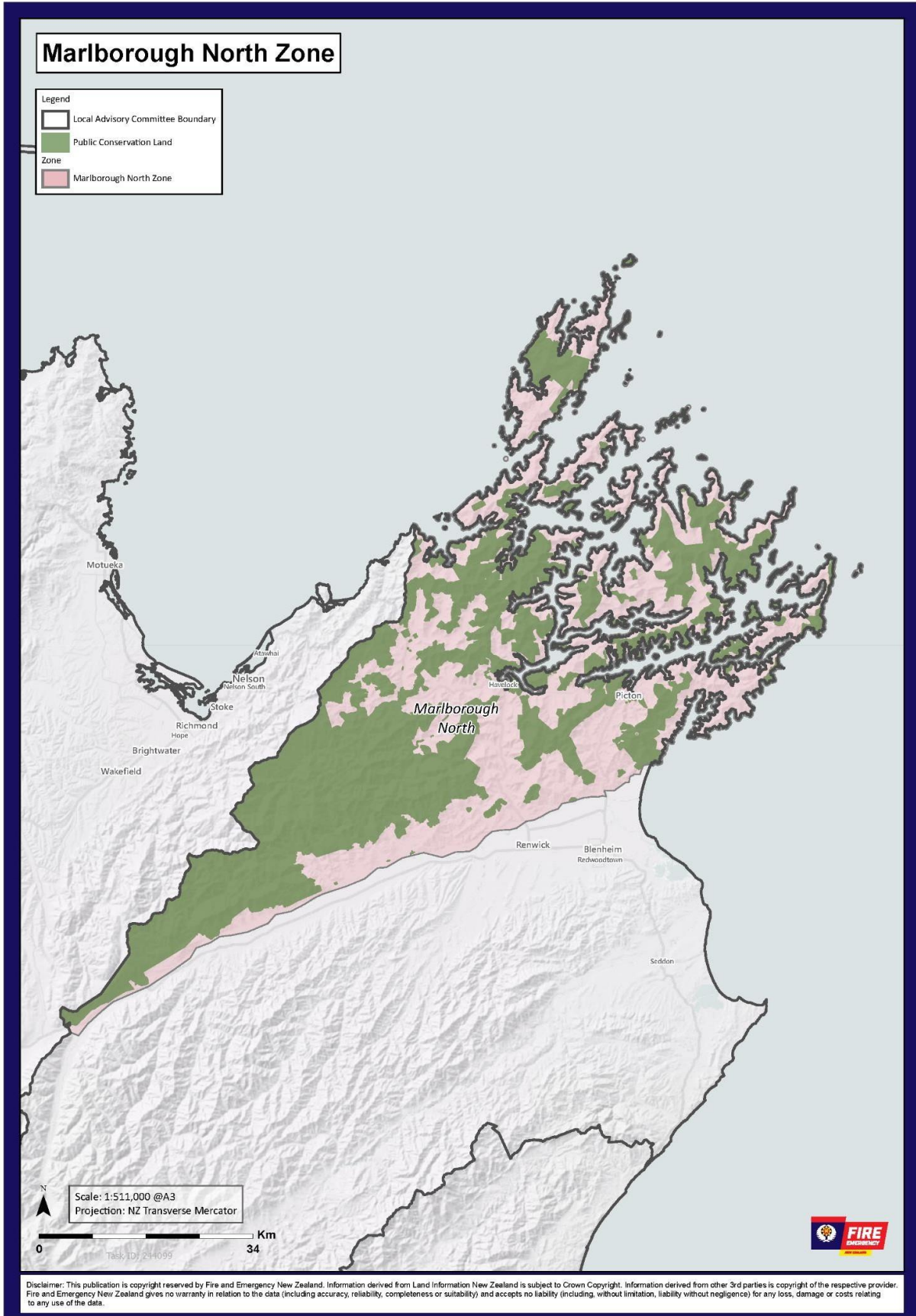
Koromiko

Onamalutu

Kenepuru Heads

We will consider the forecast for these location(s) when declaring or revoking a fire season.

Marlborough North Zone Map



Marlborough South

Geography

The Marlborough South zone encompasses all land in the Marlborough District, including Department of Conservation land, but excluding Defence land at the RNZAF Base Woodbourne, to the south of the Wairau River including the flat land from the eastern side of State Highway 1 from Tuamarina to Rarangi. State Highway 1 travels in a north to south direction on the eastern side of the zone and State Highway 63 travels in a south west direction from Renwick.

The fire permit zones that make up the Marlborough South zone are Central Marlborough Urban, Central Marlborough Rural, Lower Wairau, Marlborough West, Wither Hills and Woodbourne.

Demographics

Demographics help us understand how our communities use fire, and the type of support they might need and how we communicate with them.

Within the Marlborough South zone there is one medium and one small urban area being Blenheim (population 28,200) and Renwick (population 2,530) respectively, along with the following rural settlements:

- Wairau Valley – population 320
- Woodbourne – population -2094
- Spring Creek-Grovetown – population 1071
- Seddon – population 600
- Rarangi – population 690
- Marlborough Ridge – population 250
- Ward – population 80

Climate/weather

The Marlborough region has a temperate oceanic climate with warm summers, cool winters, and rainfall distributed across the year.

In general, coastal sites have fewer extremes than inland sites. For example, the Pelorus Sounds have 6 days per year on average where the maximum air temperature exceeds 20 degrees Celsius and one day in three years when the minimum air temperatures fall below zero degrees Celsius. In contrast, Molesworth records 16 days where temperatures rise above 25 degrees Celsius, and 129 days when temperatures fall below freezing.

The Marlborough South zone enjoys one of New Zealand's sunniest climates, with warm, relatively dry summers and cool, crisp winters. Annual rain fall in this zone is approximately 700 mm with some areas like the Awatere Valley, Lake Grassmere and along the east Coast receiving less than 600 mm per year. It is not uncommon to see annual rainfall figures below 300 mm per year in some locations. On average May is the wettest month.

The climate is generally very settled, largely due to the rain shadow effect of the mountain ranges to the west which shelter the Marlborough South zone from the heaviest of rains that hit the western part of the South Island.

Wind is predominantly from the north at an average of 9 months per year. Wind from the west and the south average 1.5 months per year each.

During the months of January, February, March and December, Marlborough is most likely to experience good days with pleasant temperatures that fall between 20 degrees Celsius and 25 degrees Celsius. February is the warmest month with an

average maximum temperature of 23 degree Celsius. The coldest month is July with an average maximum temperature of 12 degrees Celsius

Land cover/land use

Land cover in this zone is predominately grass fuels, consisting of high producing exotic grasslands and tall tussock grassland, and scrub fuels. There are also small areas of vineyards, plantation forest and indigenous forest.

Land usage within the zone, on the flat ground, is predominantly viticulture with approx. 23,000 ha planted. Production forest covers approx. 30,000 ha. Rolling hill country is predominantly large-scale sheep and beef operations.

DOC land in this zone is predominantly grass and tussock land to the South of the zone with large areas of indigenous forest through the centre and western side of the zone. There are small patches of poisoned wilding pines in this zone.

Industry

Industry	Contributes to increased risk of fire in high risk conditions	Affected by use fire control measures	Needs to be protected by using fire control measures
Primary production locations in the Wairau and Awatere Valleys and Flaxbourne areas, including viticulture <ul style="list-style-type: none"> • use of machinery – sparks • use of fire for land management • relevant operations affected 	☒	☒	☒
Forestry <ul style="list-style-type: none"> • use of machinery – sparks • relevant operations affected • Use of firebreaks 	☒	☒	☒
Tourism and recreation <ul style="list-style-type: none"> • People unfamiliar with local fire risk and rules • Access to locations may be restricted 	☒	☒	☒

Forestry includes multiple small privately-owned production forests, and:

- One Forty One Limited – Ngaruru, Glenarran, The Terraces, Fairacres/Lansdowne, Ditchling, Taylor Pass, Bannochburn
- Earnslaw One Ltd Forests – Renwick, Tordarroch, Netherwood, Sweetstream, Waihopai Downs, Wither Hills and Byron’s Creek
- M&R Forestland Management Limited – Benhopai, Sunhill, Chestnut Valley, Hidden Valley, The Terraces, Benredwood and Branch River Forests
- PF Olsen Limited – Wairau Valley, Malvern Hills, Kone Forest, Tempello Forest and Centre Valley Forests
- New Zealand Carbon Farming – Keirnan Creek Forest

Lifeline utilities/other infrastructure

Lifeline utility/ other infrastructure	Contributes to increased risk of fire in high risk conditions	Affected by use of fire control measures	Needs to be protected by using fire control measures
Electricity transmission lines <ul style="list-style-type: none"> • Sparking during high winds • Use of auto-reclosers limited in high fire danger • Recommended vegetation mitigation practices 	☒	☒	☐
Roothing network <ul style="list-style-type: none"> • High cured grass fuel loadings along roadsides • Sparks from vehicle malfunction, discarded cigarettes • Spark causing activities during road maintenance and mowing 	☒	☒	☐
Railway line <ul style="list-style-type: none"> • Sparks from passing trains and during track maintenance 	☒	☒	☐

Electricity transmission

Transpower's High Voltage Direct Current (HVDC) lines continues into this zone from the Marlborough North zone on the western side of Rarangi. It travels through the eastern side of the zone crossing State Highway 1 near Cloudy Bay Industrial Park heading south until it meets the Awatere Valley Road. It continues along the Awatere Valley until Molesworth Station where it changes direction to the south until it the end of the zone.

Transpower's 110 kV AC line travels from Blenheim to Lake Argyle through the Wairau Valley.

Marlborough Lines have distribution networks throughout the zone included in the total Marlborough network consisting of 278 km of 33 kV lines, 2091 km of 11 kV lines and 406 km of 400/230 V lines.

Roothing

State Highway 1 runs through this zone on the eastern side of the zone. Acheron Road runs through Molesworth Station, and Awatere Valley Road.

Molesworth Station at the top of the Awatere Valley is a heavily used route during the summer months for the public to get to Hanmer Springs. The road is open for public access from Labour weekend Saturday until Easter Monday, or the second Sunday in April (whichever is the later date) but may be closed without warning due to fire danger.

Rail

KiwiRail operate both freight trains and the Coastal Pacific train through this zone, mainly parallel with State Highway 1 on the eastern side of the zone.

Marlborough Flyer steam train operates predominately through the cruise ship season taking tourists on a scenic trip from Picton to Seddon and return.

Recreational locations

The Wither Hills Farm Park, located in the urban/rural interface on the southern residential boundary of Blenheim is extremely popular with walkers, runners and mountain bike users. It is estimated approx. 180,000 people use the farm park walking tracks, including larger groups of people i.e., school groups, and approx. 25,000 people use the mountain bike tracks. Fire danger is extreme during most summers with long dry flashy fuels being the predominant fuel type.

Commercial forestry areas that usually allow public access.

Cultural and recreational activities and events

Tangata whenua have very strong ties to their whenua (land) and culture, and value being able to use their whenua without unnecessary restrictions.

We will consult with tangata whenua and consider the needs of iwi when making decisions about implementing restrictions or prohibitions with our fire control powers. The relevant iwi for this zone are listed as stakeholders.

Large scale events that might be cancelled because a restriction on activities can have a significant economic impact.

Placing restrictions or prohibitions on fire hazardous activities should not impose any unreasonable restrictions on people living and enjoying recreational activities in this zone.

Cultural and recreational activities and events	Contributes to increased risk of fire in high risk conditions	Affected by use of fire control measures	Needs to be protected by using of fire control measures
Classic Fighters Omaka Air Show – pyrotechnics <ul style="list-style-type: none"> Pyrotechnics managed by other approvals Increase in people without knowledge of fire risk or rules 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Marlborough Wine and Food Festival <ul style="list-style-type: none"> Increase in people without knowledge of fire risk or rules 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cultural fires including hāngi, umu, braai and lovo	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fireworks, Chinese New Year and the use tea light lanterns <ul style="list-style-type: none"> Use may be prohibited during high fire danger Pyrotechnics managed by other approvals 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hunting <ul style="list-style-type: none"> Campfires Access may be restricted during high fire danger 	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Special risk areas

Special risk area	Contributes to increased risk of fire in high risk conditions	Affected by use of fire control measures	Needs to be protected by using of fire control measures
The Awatere Valley, which can be heavily used by the public accessing Molesworth Station, also suffers extreme fire conditions most summers. The Awatere Valley Road, spanning 100km, is the only road in and out of the valley.	☒	☒	☒
Multiple DOC camp sites throughout the zone which are restricted 365 days a year unless moved to prohibited (refer to Public conservation land).	☒	☒	☒
High loadings of volatile vegetation types surrounding dwellings	☒	☐	☐

Known fire hazards

There are no long-term fire hazards listed in this zone in the Fire Hazard Removal Case Management System.

Frequency of elevated fire danger

On average, this zone experiences:

- 44 days of extreme fire danger (4-year average using Mid Awatere RAWS)
- 42 days of very high fire danger (4-year average using Mid Awatere RAWS)

Fire history

The known fire history for this zone for significant wildfires or fires caused by activities regulated by our fire control powers includes:

Year	Fire	Cause
2015	Parsons Road	Accidental – Chainsaw Refueling
2000	Wither Hills	Undetermined
2000	Ward	Accidental – Agricultural Mowing

Predominant fuel type

The predominant fuel type in this zone is grassland.

Thresholds**Fire seasons**

The degree of grass curing (GC%) is the most relevant fire weather data to monitor for where grassland is the predominant fuel type.

Grass Curing (GC%)		
0-60	60-80	>80
Open	Restricted	Prohibited

Prohibition on fires in open air (section 52)

We can use the same Fire Weather System trigger thresholds for prohibiting fires in the open air under section 52 as we do for changing to a prohibited fire season

but use section 52 when the fire risk conditions are not expected to last long enough to make changing to a prohibited fire season practical.

Other local thresholds have not been set.

Prohibitions or restrictions on activities (section 52)

Localised trigger thresholds for applying section 52 to activities have not yet been developed, however there are some local mitigations used to reduce the need to implement it.

Forestry operations

Since 2003, forest owners and contractors have been collaborating with the Fire Authority / Fire and Emergency, producing the *Forest Industry Working Group Fire Prevention Guidelines for Forestry Operations*. It has been regularly reviewed to consider new equipment, evolving work practices and lessons learned from fire events, so that it remains effective and relevant. The latest version is the result of 12 such reviews.

The guideline details the equipment requirements and activity requirements for each aspect of forest operations across six levels of fire risk. Build Up Index (BUI) and Fire Weather Index (FWI) are used as the trigger level.

Once the BUI climbs above 40, a daily update of fire risk level or 'Colour' for each forest zone is emailed out to a list of industry people and organisations. The update is sent each morning with the current day and following day forecast fire risk levels given.

A copy of the guideline is included as [Appendix 1](#).

Chainsaw thinning to waste/tree felling

Chainsaw thinning to waste / tree felling restrictions are documented within the *Forest Industry Working Group Fire Prevention Guidelines for Forestry Operations*. They are communicated across the forest contractors and industry inline with the procedure outlined above for Forestry operations.

Spark hazardous activities

In 2019, in consultation with a working group consisting of farmers, agricultural contractors, engineering companies, roadside mowers, and Local Authorities, the *Nelson Marlborough Fire Prevention Guideline for Heat and Spark Hazardous Activities / Hot Works* was developed. It is currently on its eighth iteration. The guideline uses a matrix of Grass Curing and Fine Fuel Moisture Code to determine the risk of ignition that is expressed in one of four colours: green, yellow, orange and red. For each risk level, the response equipment requirements are listed for various activities including:

- Roadside and pasture / gorse / scrub mowing
- Welding / Grinding / Gas Cutting
- Crop Harvesting machine including crop trimming
- Mechanical pasture / scrub development / discing / ploughing / cultivating
- Tracked and digging machines on grass dead / vegetation (includes civil contracting and quarrying)
- Use electric fences
- Chainsaws, chippers, steel scrub cutters

The activity requirements for each activity type are given for each coloured fire risk level.

Each day the forecast risk levels for each zone in the district is emailed out to a list of people and organisations. This list is different from the Forestry operations email list.

A copy of the guideline is attached in [Appendix 2](#).

Powerline auto-reclosers

In 2015, the *Powerline Auto-recloser Guideline* was developed in consultation with local power network distributors. The guideline is based on the risk level being calculated on a matrix of grass curing and Fine Fuel Moisture Code with a wind component and results in a 3-colour risk level rating that indicates if the auto-reclose should be switched off.

A copy of the guideline in [Appendix 3](#).

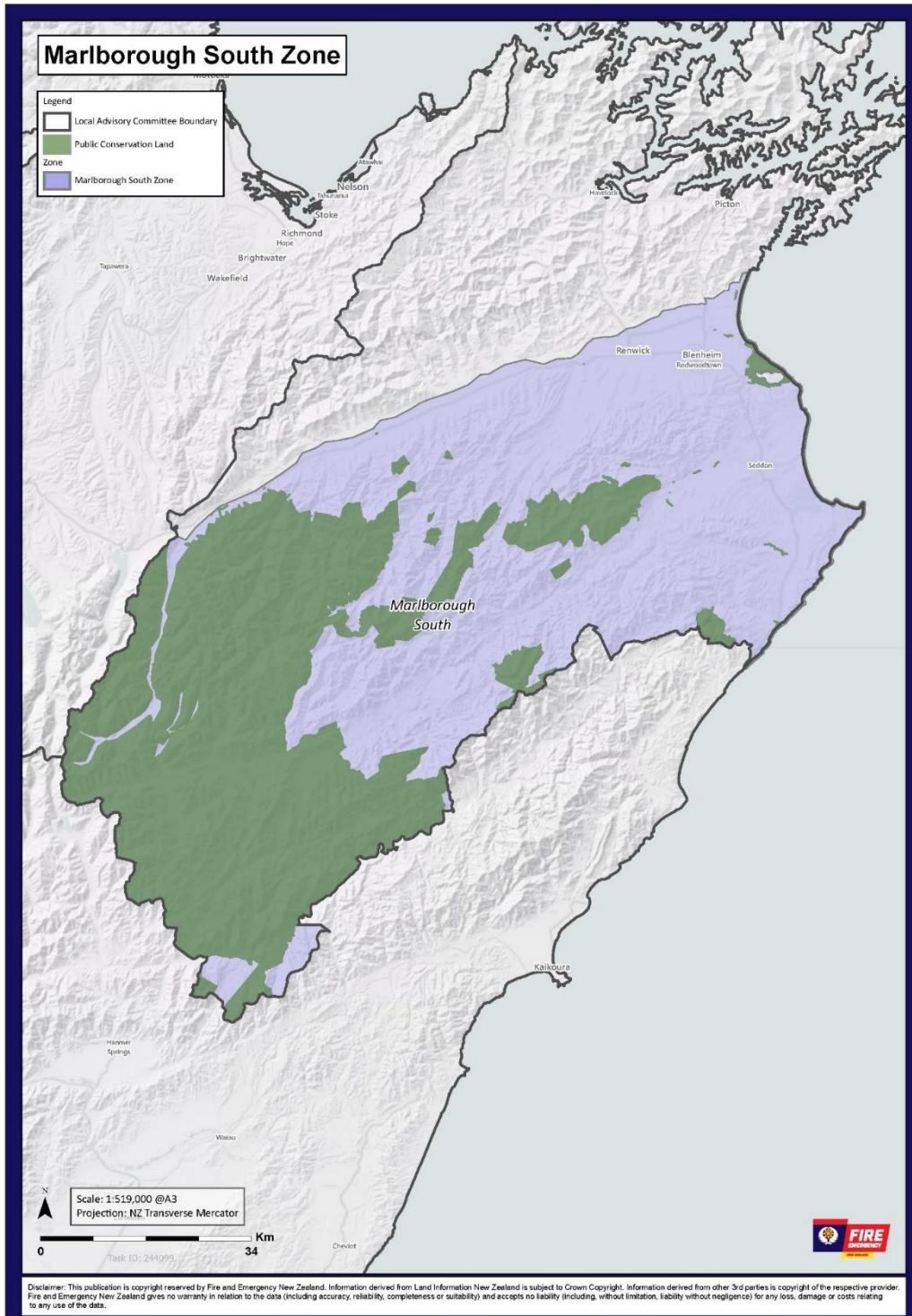
Representative remote automated weather stations

The Remote Automated Weather Stations (RAWS) used to determine whether we have reached the trigger thresholds are:

Awatere	Mid-Awatere	Ward
Lower Wairau	Lansdowne (Wairau Valley)	

Individual RAWS or an average of multiple RAWS may be used. We will consider the forecast for this/these location(s) when declaring or revoking a fire season.

Marlborough South Zone Map



Public conservation land

Geography

As Public Conservation land administered by Department of Conservation covers large areas of both zones, please refer to the information in the zones in relation to the following.

- Geography
 - Climate and weather
 - Land cover
 - Special risk areas
 - Known fire hazards
 - Frequency of elevated fire danger
 - Fire history
-

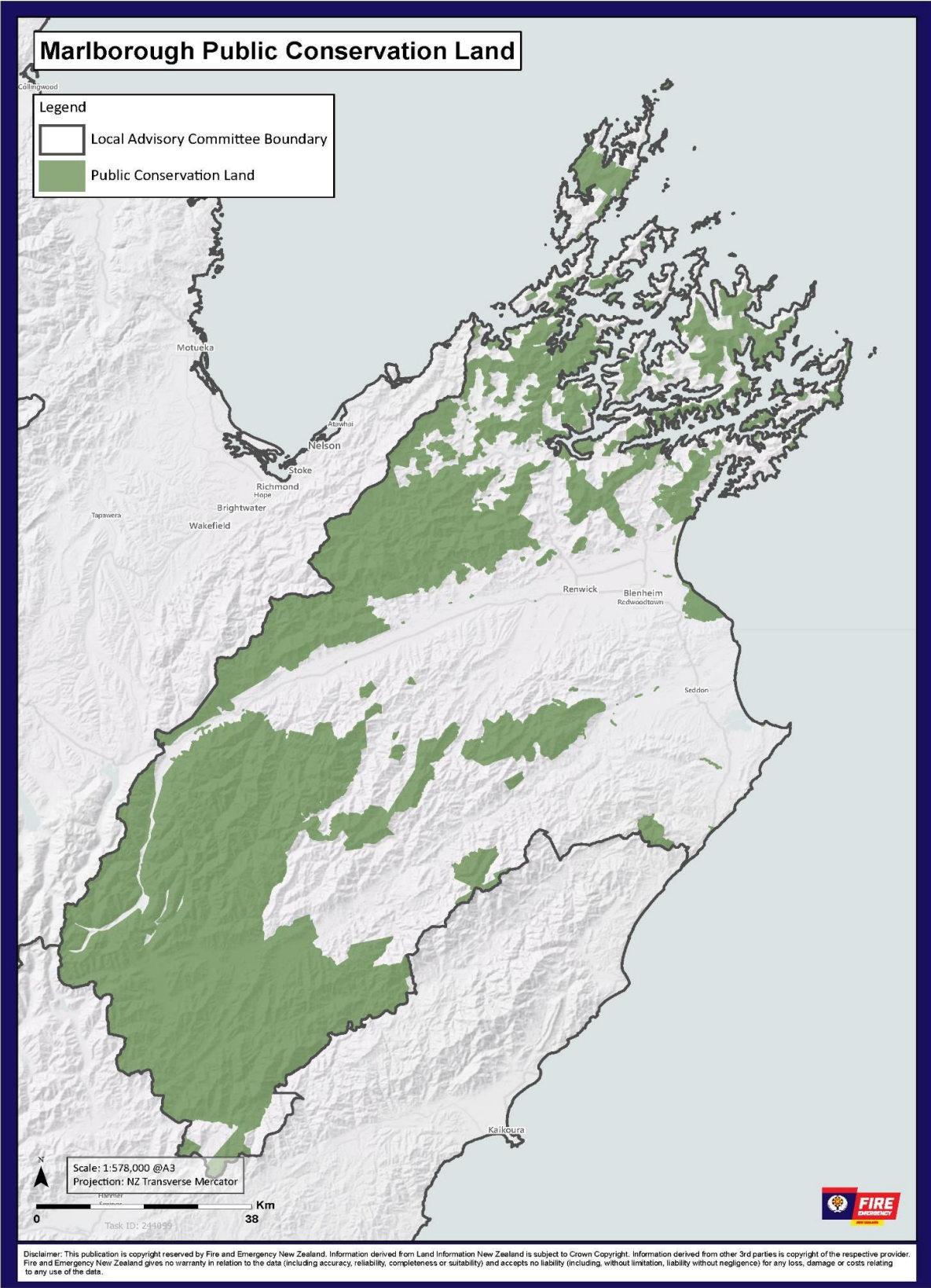
Thresholds

Restricted seasons year-round

Due to the values at risk, public conservation lands are kept in a restricted fire season when they are not in a prohibited fire season. Even when the surrounding zone goes to an open fire season, public conservation land will remain in a restricted fire season.

Thresholds for declaring or revoking a prohibited fire season are the same as the thresholds for the surrounding zone and are set in consultation with Department of Conservation.

Public conservation land map



NZ Defence Force

Scheduled Defence Areas

Fire and Emergency has entered into an operational service agreement with the New Zealand Defence Force. The New Zealand Defence Force exercises fire control powers in relation to certain Defence Areas listed in a schedule to the agreement, where they have their own fire plans.

Within the Marlborough South area, activities in the following Defence Areas are subject to New Zealand Defence Force fire control powers, including fire permit requirements:

- Woodbourne Airbase

Any New Zealand Defence Force activities, including training activities, in other Defence Areas in Marlborough are subject to Fire and Emergency's fire permit requirements, though not our other fire control powers.

Further information about the boundaries of the defence areas and applicable fire controls is available through www.nzdf.mil.nz/nzdf/contact-us

Appendix 1 – Fire prevention guidelines for forestry operations

Nelson/Marlborough Forest Industry Working Group fire prevention guidelines for forestry operations

Operative from 16 October 2023 Updated 1 August 2023

When a BUI of over 40 exists, the colour code for each of the forest climate areas will be broadcast over the radio at 10:00am each morning. The current day's level will be given as well as the forecast for the following day.

Nelson Tasman Area Channels broadcast on are:

- OFO: (Forestry 1,3,5) (Harvesting 12,13,14,15)
- TPF : Ops 46 (Western forests), Ops 47 (Eastern forests)

You may also obtain the broadcast by email, contact – Firepermit.nelsonmarlborough@fireandemergency.nz or alternatively you can view the colour code levels with a 5 day forecast at: <https://fireweather.niwa.co.nz/region/Nelson%20Marlborough>

Escalating to one or more higher code levels may be appropriate for a period of time if significant wind and or low RH and or high temperatures exist. A guide on assessing this can be found at the back (Appendix 1).

Equipment Requirements for all Levels

BUI Less than 40								BUI Greater than 120	
Requirements for....	Extinguishers / Knapsacks	Water	Hand tools	Communication					
Silviculture Crew	1* 350gm capacity Class A, B carried on belt for each person using chainsaw and; 1*15 litre (full) or 1*9 litre pressurised water extinguisher per 5 people on site	1*20 Litres per knapsack	Per 5 people - 4 total made up of shovels, slashers, combi, puklowski, mcleod	Radio					
Harvesting Crews	2*15 litre (full) or 2*9 litre pressurised water extinguisher on skid	2*20 Litres per knapsack.	4 shovels	Radio					

BUI Less than 40						BUI Greater than 120	
Requirements for....	Extinguishers / Knapsacks	Water	Hand tools	Communication			
Tree faller (Manual)	1* 350gm capacity Class A, B carried on belt each person using chainsaw			Radio			
Tractor, Skidder, Excavator, Felling Machine	1*2kg dry powder Class A, B 1* 9 litre water pressure or 2kg foam						
Loader, Hauler, Bell and Waratah	1*2kg dry powder Class A, B						
Car, Utility or Van	1*0.9 kg Class A, B		1 shovel	Radio			
Truck or Grader	1*2kg dry powder Class A, B		1 shovel	Radio			
Extra Equipment Requirements for Blue BUI 40.1 through to Purple 120+							
Extra Requirements for....	Extinguishers	Water	Hand tools	Communication			
Harvesting Crews, Mechanised thinning		1000 litre mobile pressurised water available with 60m hose on skid.					
Extra Equipment Requirements for Orange 80.1 through to Purple 120+							
Extra Requirements for....	Extinguishers	Water	Hand tools	Communication			
Harvesting Crews			Shovel or fire rake at each back block				

PPE Requirements from Code Blue 40.2 through to Purple 120+

PPE Requirements for Blue BUI 40.1 through to Purple 120+			
Requirements for....	PPE type	Number	Location Held
Silviculture crews	Cotton or fire-resistant long sleeve shirt, long pants or overalls	One set for each worker	At worksite and or in vehicle
Harvesting and Earthworks crew Mechanised silviculture	Cotton or fire-resistant long sleeve shirt, long pants or overalls	Sites with 6 or more people, one set for 50% of people on work site. Sites less than 6 people one set each.	At worksite and or in vehicle or machine

Activity Requirements

Code Green BUI less than 40

Activity Requirement	
Requirements for....	
Welding / Gas Cutting / Abrasive Wheel Cutting	Only on bare earth 1 * 15 litre knapsack (full) or 9 litre pressurised water within 5m of work area. Patrol for 30 minutes after completion
Smoking	Only on bare mineral earth areas or in huts / vehicles
Mowing and slashing (Roadside and ground)	Refer and adhere to the “Nelson Marlborough Fire Prevention Guideline For Heat and Spark Hazardous Activities / Hotworks”

Code Blue BUI 40.1 to 60

Activity Requirements	
Requirements for....	Requirements are....
Welding / Gas Cutting / Abrasive Wheel Cutting	Only on bare earth 1 * 15 litre knapsack (full) or 9 litre pressurised water within 5m of work area. Patrol for 30 minutes after completion
Smoking	Only on bare mineral earth roads, landings, in huts or vehicles. No Smoking in cutover
Daily Inspections and maintenance	Assess daily weather at 11:00am onsite to determine need for elevation of preparedness &/or work restrictions. ** See escalation methods at back of guide Check chainsaws and machinery for debris build up near hot working parts such as belly pans and radiators. Check engine bay hydraulic hoses for leaks. Inspect hauler blocks for heat, and ropes for binds, rock strikes. Vegetation around backline blocks cleared of vegetation to mineral earth 1.5m radius. Inspections should be noted in diary.
Weekly inspections and maintenance	Documented inspection of all fire equipment (including extinguishers)
Chainsaw and mechanised thinning	Review site hazards (Undergrowth fuels, aspect, and escape routes). Move thinning to areas with lower hazard where possible
Fire starts	All fire starts regardless of size call 111.
Emergency planning	Discuss code blue requirements and preparation for future elevation to code yellow at tailgate meetings Identify suitable water points (For ground and helicopter) around work areas
Forest access	Review public access to forest.
Mowing and slashing (Roadside and ground)	Refer and adhere to the "Nelson Marlborough Fire Prevention Guideline For Heat and Spark Hazardous Activities / Hotworks"

Note: Items highlighted in BOLD are equipment or activity requirements that have been newly introduced from the previous colour code

Code Yellow BUI 60.1 to 80

Activity Requirements	
Requirements for....	Requirements are....
Welding / Gas Cutting / Abrasive Wheel Cutting	<p>Only on bare earth</p> <p>Wet down area within 4m of work site before commencing.</p> <p>Contact your Forest Owner / Manager before starting.</p> <p>1 * 15 litre knapsack (full) or 9 litre pressurised water within 5m of work area.</p> <p>Patrol for 30 minutes after completion.</p>
Smoking	Only on bare mineral earth roads, landings, in huts or vehicles. No Smoking in cutover
Daily Inspections and maintenance	<p>Assess daily weather at 11:00am onsite to determine need for elevation of preparedness &/or work restrictions. ** See escalation methods at back of guide</p> <p>Check chainsaws and machinery for debris build up near hot working parts such as belly pans and radiators.</p> <p>Check engine bay hydraulic hoses for leaks.</p> <p>Inspect hauler blocks for heat, and ropes for binds, rock strikes.</p> <p>Vegetation around backline blocks cleared of vegetation to mineral earth 1.5m radius.</p> <p>Inspections should be noted in diary.</p>
Weekly Inspections and maintenance	<p>Documented inspection of all fire equipment (including extinguishers)</p> <p>Weekly cleaning for all machines and chainsaws.</p>
Chainsaw and mechanised thinning	Review site hazards (Undergrowth fuels, aspect, and escape routes). Move thinning to areas with lower hazard where possible
Fire starts	All fire starts regardless of size call 111.
Emergency planning	<p>Discuss code yellow requirements and preparation for future elevation to code orange at tailgate meetings</p> <p>Consider covering in tailgate meetings:</p> <p>escape plans (X2).</p> <p>Identify suitable water points (For ground and helicopter) around work areas</p>
Forest access	Restrict public access to forest.
Mowing and slashing (Roadside and ground)	Stop road side mowing and slashing.
Flying Drones within forest boundary	Stop Drone / UAV flights within the forest boundary at 1200hrs

Note: Items highlighted in BOLD are equipment or activity requirements that have been newly introduced from the previous colour code

Code Orange BUI 80.1 to 100

Activity Requirements	
Requirements for....	Requirements are....
Welding / Gas Cutting / Abrasive Wheel Cutting	Only on bare earth Wet down area within 4m of work site before commencing. Contact your Forest Owner / Manager before starting. 1 * 15 litre knapsack (full) or 9 litre pressurised water within 5m of work area. Patrol for 30 minutes after completion.
Smoking	Only on bare mineral earth roads, landings, in huts or vehicles. No Smoking in cutover
Daily Inspections and Maintenance	Assess daily weather at 11:00am onsite to determine need for elevation of preparedness &/or work restrictions. ** See escalation methods at back of guide Check chainsaws and machinery for debris build up near hot working parts such as belly pans and radiators. Check engine bay hydraulic hoses for leaks. Inspect hauler blocks for heat, and ropes for binds, rock strikes. Vegetation around backline blocks cleared of vegetation to mineral earth 1.5m radius. Inspections should be noted in diary.
Weekly inspections and maintenance	Weekly documented inspection of all fire equipment (including extinguishers) Weekly cleaning for all machines and chainsaws.
Chainsaw and mechanised thinning	Review site hazards (Undergrowth fuels, aspect, and escape routes). Move thinning to areas with low hazard i.e D.fir, south facing slopes, low fuel loading, flat topography.
Fire starts	All fire starts regardless of size call 111.
Emergency planning	Discuss code Orange requirements and preparation for future elevation to code Red at tailgate meetings Consider covering in tailgate meetings: escape plans (X2). Identify suitable water points (For ground and helicopter) around work areas
Forest access	Restrict public access to forest. Consider putting up signage at access points warning of fire danger. Restrict all hunting and firewood gathering.
Mowing and slashing (Roadside and ground)	Stop roadside mowing and slashing
Flying Drones within forest boundary	Stop Drone / UAV flights within the forest boundary at 1200hrs

Activity Requirements	
Requirements for....	Requirements are....
Machines – including Cable assisted machines, Mobile machinery and 2 stage trucks. Does not include cable haulers	Stop all machines except backline tractors working on cutover or tracks that do not have working inbuilt engine compartment suppression systems at 1300hrs.

Note: Items highlighted in BOLD are equipment or activity requirements that have been newly introduced from the previous colour code

Code Red BUI 100.1 to 120

Activity Requirements	
Requirements for....	Requirements are....
Welding / Gas Cutting / Abrasive Wheel Cutting (hotworks)	Only on bare earth and no hotworks between 1200hrs and 1900hrs Wet down area within 4m of work site before commencing Contact your Forest Owner / Manager before starting 1 * 15 litre knapsack (full) or 9 litre pressurised water within 5m of work area. 1000 litres available under pressure with at least 60m of hose within 2 minutes of worksite Patrol for 30 minutes after completion.
Smoking	Only on bare mineral earth roads, landings, in huts or vehicles. No Smoking in cutover
Daily Inspections and maintenance	Assess daily weather at 11:00am onsite to determine need for elevation of preparedness &/or work restrictions. ** See escalation methods at back of guide Check chainsaws and machinery for debris build up near hot working parts such as belly pans and radiators. Check engine bay hydraulic hoses for leaks. Inspect hauler blocks for heat, and ropes for binds, rock strikes. Vegetation around backline blocks cleared of vegetation to mineral earth 1.5m radius. Inspections should be noted in diary.
Weekly Inspections and maintenance	Weekly documented inspection of all fire equipment (including extinguishers) Weekly cleaning for all machines and chainsaws.
Chainsaw and mechanised thinning	Review site hazards (undergrowth fuels, aspect and escape routes). Move chainsaw thinning to areas with lower hazards where possible. No chainsaw or mechanised thinning after 1200hrs
Fire starts	All fire starts regardless of size call 111.

Activity Requirements	
Requirements for....	Requirements are....
Emergency planning	<p>Staff at least one lookout 24/7. Consider staffing a second lookout.</p> <p>Notify lookout of any road closures or weekend work</p> <p>Discuss code Red requirements and preparation for future elevation to code Purple at tailgate meetings</p> <p>Consider covering in tailgate meetings: escape plans (X2).</p> <p>Identify suitable water points (For ground and helicopter) around work areas.</p> <p>Patrol sites for at least 1 hour after machine shutdown.</p> <p>Consider having 3 person quick response crew with tanker within 10 minutes of each operation.</p>
Forest access	<p>Restrict public access to forest.</p> <p>Consider putting up signage at access points warning of fire danger.</p> <p>Restrict all hunting and firewood gathering</p>
Mowing and slashing (Roadside and ground)	Stop roadside mowing and slashing
Flying Drones within forest boundary	Stop all Drone / UAV flights within the forest boundary
Harvesting Chainsaws	Stop all chainsaw operations in cut over after 1200hrs
Machines including: Cable assisted machines, Mobile machinery, 2 stage trucks and cable haulers.	Stop all machines including moving ropes and carriages, working on cutover or tracks at 1300hrs.

Note: Items highlighted in BOLD are equipment or activity requirements that have been newly introduced from the previous colour code

Code Purple BUI 120.1 +

Activity Requirements	
Requirements for....	Requirements are....
Welding / Gas Cutting / Abrasive Wheel Cutting (hotworks)	<p>Consider stopping all hotworks</p> <p>Only on bare earth and no hotworks between 1200hrs and 1900hrs Wet down area within 4m of work site before commencing Contact your Forest Owner / Manager before starting 1 * 15 litre knapsack (full) or 9 litre pressurised water within 5m of work area. 1000 litres available under pressure with at least 60m of hose within 2 minutes of worksite Patrol for 30 minutes after completion.</p>
Smoking	Only on bare mineral earth roads, landings, in huts or vehicles. No Smoking in cutover
Daily Inspections and maintenance	<p>Assess daily weather at 11:00am onsite to determine need for elevation of preparedness &/or work restrictions. ** See escalation methods at back of guide</p> <p>Check chainsaws and machinery for debris build up near hot working parts such as belly pans and radiators. Check engine bay hydraulic hoses for leaks. Inspect hauler blocks for heat, and ropes for binds, rock strikes. Vegetation around backline blocks cleared of vegetation to mineral earth 1.5m radius. Inspections should be noted in diary. Daily inspection of hydraulic hoses, block bearings, machine belly pans and radiators.</p>
Weekly Inspections and maintenance	<p>Weekly documented inspection of all fire equipment (including extinguishers) Weekly cleaning for all machines and chainsaws.</p>
Chainsaw and mechanised thinning	Stop all thinning
Emergency planning	<p>Notify lookout of any road closures or weekend work Discuss code Purple requirements tailgate meetings. Consider covering in tailgate meetings: escape plans (X2). Identify suitable water points (For ground and helicopter) around work areas. Establish 3 person quick response crew with tanker within 10 minutes of each operation. Patrol sites for at least 1 hour after machine shutdown. Consider short response standby helicopter within 10mins of operation. Extensions to working hours on bare earth or processing sites are subject to appropriate readiness and</p>

Activity Requirements	
Requirements for....	Requirements are....
	emergency response planning.
Forest access	Restrict Public access to forest Consider putting up signage at access points warning of fire danger. Stop all hunting and firewood gathering.
Mowing and slashing (Roadside and ground)	Stop roadside mowing and slashing
Flying Drones within forest boundary	Stop all Drone / UAV flights within the forest boundary
Harvesting chainsaws	Stop after 1200hrs.
Machines including: Cable assisted machines, Mobile machinery, 2 stage trucks and cable haulers.	Stop all machines working on bare earth or processing sites between 1300 and 1900 HRS Stop all machines including moving ropes and carriages, working on cutover or tracks at 1300hrs. Consider stopping log truck movement between 1300-1900hrs. (An example method for doing this is in Appendix 2) Stop all slash raking and fire breaking

Note: Items highlighted in BOLD are equipment or activity requirements that have been newly introduced from the previous colour code.

Appendix 1 to the Nelson/Marlborough Forest Industry Working Group fire prevention guidelines for forestry operations

Code Escalation Options

The following options are available in assessing current weather conditions or forecast conditions when making the decision to escalate to a higher code level: **NB it may be appropriate that you elevate more than one level while a significant fire weather event is occurring i.e strong wind and or low RH and or high temperatures.**

1. If the FWI for your work area is or forecast to be over 25. This can be found at:

<https://fireweather.niwa.co.nz/region/Nelson%20Marlborough>

Note that daily broadcast will have already escalated the code if the FWI is forecast to be over 25

or

2. An onsite measurement of Wind and RH indicates that the FWI is likely to be over 25, The following table can be used to determine if escalation is needed. **Note that the broadcast when received may already be escalated. If so it will be noted. The escalation will be due to increased wind. If this is the case use the “unescalated” code when applying the table below for your site.**

Today's Code	Required windspeed to change code to:			
Blue	25- 29km	30-34km	35 -49 km	50 + km
Yellow	15- 19km	20 - 49 km	50 + km	
Orange	10 -39 km	40 + km		
Red	20 + km			

An accurate wind anemometer must be used to measure windspeed at a distance 2m off the ground and clear of sheltering obstacles i.e caravans, machines. Wind must be measured for a period of ten minutes and the AVERAGE wind speed used.

Appendix 2 to the Nelson/Marlborough Forest Industry Working Group fire prevention guidelines for forestry operations - Example Template

Considering risks associated with log transport in extreme conditions (Code Purple)

There are several specific risks associated with log transport operations described below. Before fire weather conditions reach Code PURPLE each logging site and location can be reviewed against the risks described as well as any other risks that might be relevant. The risks provided in this document along with recommended mitigations can be reviewed for each logging crew and a strategy for the next 3 weeks based on their location proposed and documented in the table below.

Risk assessment considerations:

People
The operation is near a rural community that would be threatened by a fire. The driver is at risk from a fire starting within the near neighbour environment
Equipment
The loading operation is by tracked excavator-based equipment that can be a source of sparks The loader is a source of a machine fire. Regular checks of cleanliness and/or inbuilt suppression equipment. Chains dragging on the road can ignite fine fuels along road edge A flat tyre collapses onto the steel rim generating sparks Failed wheel bearings and brake components can drop hot metal
Materials
There are fine fuels in close proximity to the loading operation There is a fuel loading imposing into the roadway
Environment
Wind conditions The crew is near to a county road with a low fuel environment. Short pasture There is a very long lead distance to the nearest county road The exit road is narrow and carries some form of fuel loading near to the carriageway There is no alternative access (escape) opportunity for the truck

Mitigations

1. Chains, tyres, wheels are all checked prior to leaving skid and at the load securing point
 - a. Any fine fuel on the loading area is brushed off to mineral soil prior to the logging crew leaving at the end of their shift 1300hrs.
 - b. The crew has a mobile pressurised water supply of at least 1000 litres and at least 60m of fire hose located within 10 minutes response time for the loading point and exit road.

Stop transport operations between 1300-1900 in code purple when: (If any of the following considerations are present)

1. Wind exceeds 10 Km/hr (FWI 30)
- c. A dwelling or community is close to the operation or access road and evacuation would be complicated (fire would block one-way valley system; continuous high fuel loadings surround property/dwellings)
- d. A tracked excavator-based loader is working
- e. The access roadway is narrow and/or overgrown (carries some form of fuel loading)

- f. There is any combustible material on the loading area
- g. There is no reliable/suitable alternative escape route for the people on the load out site

Proposed load out restrictions 1300-1900 for the next three weeks at each crew are:

List of each crew / location with risk assessment and restrictions

Crew	Location	Risks	Restrictions
A	Block XXX	Located in gully below houses	No Load outs
B	Block YYY	People in houses further up one-way valley	No load outs
C	Block ZZZ	No near neighbours, new road with no encroaching fuel, wheeled loader, fresh skid clear of slash, reliable escape route available. Pressurised water available	Load outs allowed

Appendix 2 – Heat and Spark Hazardous Activities / Hot Works

Marlborough Fire Prevention Guideline for Heat and Spark Hazardous Activities / Hot works

Spark Hazardous industry activities with grass and scrub fuels fire risk potential:

1. Roadside and pasture/ gorse / scrub mowing and mulching
2. Welding, grinding, gas cutting
3. Crop harvesting including harvesters and transport vehicles
4. Land preparation including tractors and implements that strike or move through the ground
5. Tracked machine operation
6. Use electric fences
7. Use Scrub Bars, Chainsaws, Chippers

Grass Fuels:

- At low **grass curing** values, the proportion of dead grass fuel present is low and there is little fuel to be ignited. Potential for fire spread is also low and any fire will only spread slowly, if at all, and with lower fireintensity so that control is more easily achieved.
- At high **grass curing** values, the proportion of dead grass fuel present is higher meaning fire will develop and spread faster with higher intensity making control more difficult.
- At low **FFMC (Fine fuel moisture code)** values, grass fuels are moister so that the likelihood of ignition is low, and fire spread is impeded.
- At high **FFMC (Fine fuel moisture code)** values, grasses are drier and are easily ignited, develop fast and spread rapidly.

Scrub Fuels:

Scrub fuels particularly Manuka and Gorse have a high loading of fine fuels that dry out rapidly often within days after rain. Hot, dry and windy days will dry scrub out and make it available to burn rapidly. Fires are easily ignited, develop and spread quickly and burn with high intensity making control difficult.

Heat and Spark Hazardous Operations (Hot works) Fire Prevention Guideline

As well as grass mowing when the grass or scrub is dry, cutting, grinding and activities where metal may strike metal or stone have a history of starting fires. These typically ignite grass and scrub fuels. Grass curing and FFMC (Fine Fuel Moisture Code) are the major factors in determining fire risk ignition potential from sparks. High wind speeds will escalate fire spread and growth once ignition has occurred.

How to use this guide

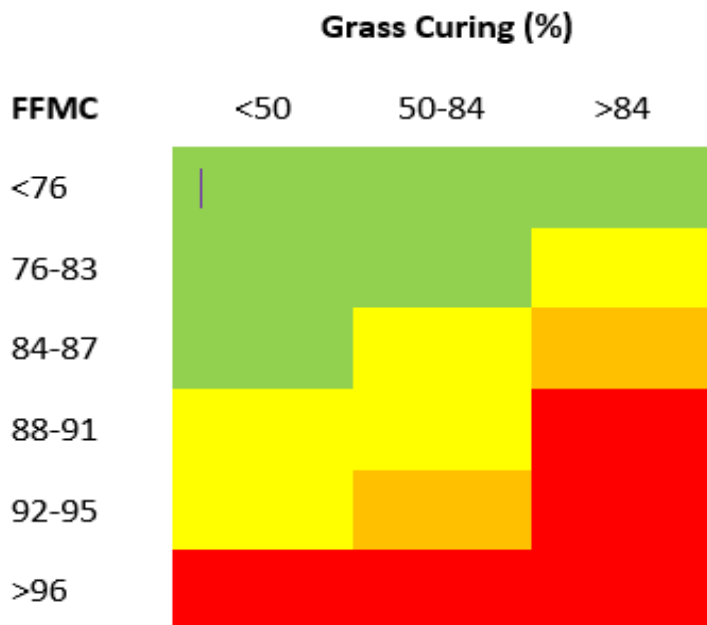
There are two ways to use this guide –












- Use the method described below for a site-specific assessment. You will need to have a basic understanding of fire science to understand how to do this.
- Use the code produced and emailed out each day by Fire and Emergency NZ.

Site Specific Assessment Procedure

1. Use the grass curing guide on the next page to help determine grass curing level
2. Determine the FFMC by
 - h. FFMC Level Guidelines can be viewed at <https://fireweather.niwa.co.nz/region/Nelson%20Marlborough> scroll down to the table and the FFMC level for your nearest weather station can be read or
 - i. Or refer to the daily broadcast provided by Fire and Emergency New Zealand
3. Use this matrix below to identify the relevant risk by cross matching the onsite grass curing level with the FFMC for the day / time. Where these two indices cross give the “Colour Code” risk level for the site. Look up the applicable “Colour Code” in the table below to determine equipment requirements and timing restrictions for your activity

Grass Curing Guide



From early growth to start of seed head development	0	GREEN PHASE	
Seed heads formed and flowering	10		
Seed heads maturing and changing colour	20		
Yellowing becoming apparent in leaves	30		
Slightly more than half green	40	YELLOW PHASE	
Half green and half yellow, half of stems have dropped their seeds	50		
Slightly more than half yellow	60		
Yellow dominating landscape, some green visible	70	DRY PHASE	
Lower third of stalk may be green	80		
Very little green in landscape, all seeds dropped	90		
No green in landscape, stalks fully cured and break easily	100		

When estimating the amount of cured or dead grass, ensure that you consider the amount of thatch that may be under the top grasses

Code Green**Equipment Requirements**

Requirements for....	Extinguishers	Water	Handtools	Communication
Roadside and pasture/ gorse / scrub mowing and mulching.	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15 litre knapsack 	Shovel	
Welding / Grinding / Gas cutting	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15 litre knapsack 	Shovel	
Crop Harvesting machine / site, includes crop trimming	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15 litre knapsack 	Shovel	
Mechanical pasture / scrub development /discing / ploughing / cultivating	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15 litre knapsack 	Shovel	
Tracked and digging machines on grass / dead &/or dry vegetation (Includes civil contracting and quarrying)	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15 litre knapsack 	Shovel	
Use electric fences		<ul style="list-style-type: none"> 		
Chainsaws, chippers, steel scrub cutters		<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15 litre knapsack 	Shovel	

Activity Requirements**Requirements for....**

Welding / Gas Cutting / Abrasive Wheel Cutting	<ul style="list-style-type: none"> Only on bare earth / non-flammable surface
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Code Yellow

Equipment Requirements				
Requirements for....	Extinguishers	Water	Handtools	Communication
Roadside and pasture/ gorse / scrub mowing and mulching.	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher or full 15 litre knapsack. • 100 litres available under pressure within 5 minutes. 	Shovel	Radio to base or cell phone with coverage
Welding / Grinding / Gas cutting	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher or full 15 litre knapsack. within 5m of worksite 	Shovel	Radio to base or cell phone with coverage
Crop Harvesting machine / site, includes crop trimming	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher or full 15 litre knapsack. 	Shovel	Radio to base or cell phone with coverage
Mechanical pasture / scrub development /discing / ploughing / cultivating	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher or full 15 litre knapsack. 	Shovel	Radio to base or cell phone with coverage
Tracked and digging machines on grass / dead &/or dry vegetation (Includes civil contracting and quarrying)	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher or full 15 litre knapsack. 	Shovel	Radio to base or cell phone with coverage
Use electric fences		<ul style="list-style-type: none"> • 		
Chainsaws, chippers, steel scrub cutters	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher or full 15 litre knapsack. 	Shovel	Radio to base or cell phone with coverage

Activity Requirements**Requirements for....**

Roadside and pasture/ gorse / scrub mowing and mulching.	<ul style="list-style-type: none"> • Ensure mower head bearings are in good condition • Ensure engine compartment is clean
Welding / Grinding / Gas cutting	<ul style="list-style-type: none"> • Not permitted above vegetation. Only on bare earth / non-flammable surface • Wet down area 4m around work site before commencing • Patrol for 30 minutes after completion
Crop Harvesting machine / site, includes crop trimming	<ul style="list-style-type: none"> • Check and if necessary clean machine daily
Mechanical pasture / scrub development /discing / ploughing /cultivating	<ul style="list-style-type: none"> • Check and if necessary clean machine daily
Tracked and digging machines on grass / dead &/or dry vegetation(Includes civil contracting and quarrying)	<ul style="list-style-type: none"> • Check and if necessary clean machine daily
Use electric fences	<ul style="list-style-type: none"> • Check fences and mains feed lines for shorts - weekly
Chainsaws, chippers, steel scrub cutters	<ul style="list-style-type: none"> • Check and if necessary clean machine daily. Avoid using scrub bars where contact with rock or steel may occur

Code Orange

Equipment Requirements				
Requirements for....	Extinguishers	Water	Handtools	Communication
Roadside and pasture/ gorse / scrub mowing and mulching.	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15litre knapsack. 300 litres available under pressure with atleast 60m hose within 2 minutes. 	Shovel	Radio to base or cell phone with coverage
Welding / Grinding / Gas cutting	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15litre knapsack within 5m of worksite 	Shovel	Radio to base or cell phone with coverage
Crop Harvesting machine / site, includes croptrimming	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15litre knapsack. 300 litres available under pressure with atleast 60m hose within 2 minutes. 	Shovel	Radio to base or cell phone with coverage
Mechanical pasture / scrub development / discing / ploughing / cultivating	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15litre knapsack. 300 litres available under pressure with atleast 60m hose within 2 minutes. 	Shovel	Radio to base or cell phone with coverage
Tracked and digging machines on grass / dead&/or dry vegetation (Includes civil contracting and quarrying)	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15litre knapsack. 300 litres available under pressure with atleast 60m hose within 2 minutes. 	Shovel	Radio to base or cell phone with coverage
Use electric fences		<ul style="list-style-type: none"> Consider using low power portable units and turning off farm mains units. 		
Chainsaws, chippers, steel scrub cutters	2kg dry powder	<ul style="list-style-type: none"> 9 litre pressurised water extinguisher or full 15litre knapsack. 300 litres available under pressure with atleast 60m hose within 2 minutes. 	Shovel	Radio to base or cell phone with coverage

Activity Requirements	
Requirements for....	
Roadside and pasture/ gorse / scrub mowing and mulching.	<ul style="list-style-type: none"> • Ensure mower head bearings are in good condition • Ensure engine compartment is clean • Have an observer behind operation or where all work area can be seen. • Restricted hours of work to when FFMC less than 83 (generally no work 12:00pm – 7:00pm)
Welding / Grinding / Gas cutting	<ul style="list-style-type: none"> • Not permitted above vegetation. Only on bare earth / non-flammable surface • Wet down area 4m around work site before commencing • Patrol for 30 minutes after completion
Crop Harvesting machine / site, includes crop trimming	<ul style="list-style-type: none"> • Consider restricted hours of work to when FFMC greater than 83 (generally no work 12:00pm – 7:00pm) • Consider having an observer watching for fires from where all the work area can be seen • Check and if necessary clean machine daily
Mechanical pasture / scrub development /discing / ploughing / cultivating	<ul style="list-style-type: none"> • Consider restricted hours of work to when FFMC greater than 83 (generally no work 12:00pm – 7:00pm) • Consider having an observer watching for fires from where all the work area can be seen • Check and if necessary clean machine daily
Tracked and digging machines on grass / dead vegetation (Includes civil contracting and quarrying)	<ul style="list-style-type: none"> • Consider restricted hours of work to when FFMC greater than 83 (generally no work 12:00pm – 7:00pm) • Consider having an observer watching for fires from where all the work area can be seen • Check and if necessary clean machine daily
Use electric fences	<ul style="list-style-type: none"> • If strong wind over 25km/h turn off fence or use low power portable unit
Chainsaws, chippers, steel scrub cutters	<ul style="list-style-type: none"> • Consider restricted hours of work to when FFMC greater than 83 (generally no work 12:00pm – 7:00pm) • Consider having an observer watching for fires from where all the work area can be seen • Check and if necessary clean machine daily • Stop use Steel Scrub Bars

Code Red

Equipment Requirements				
Requirements for....	Extinguishers	Water	Handtools	Communication
Roadside and pasture/ gorse / scrubmowing and mulching.		<ul style="list-style-type: none"> • Operation stopped 		
Welding / Grinding / Gas cutting	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher within 5m of work site • 1000 litres available under pressure with at least 60m hose within 2 minutes of site. 	Shovel	Radio to base or cell phone with coverage
Crop Harvesting machine / site, includes crop trimming	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher. • 1000 litres available under pressure with at least 60m hose within 2 minutes of site. 	Shovel	Radio to base or cell phone with coverage
Mechanical pasture / scrub development /discing / ploughing / cultivating	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher. • 1000 litres available under pressure with at least 60m hose within 2 minutes of site. 	Shovel	Radio to base or cell phone with coverage
Tracked and digging machines on grass / dead vegetation (Includes civil contracting and quarrying)	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher. • 1000 litres available under pressure with at least 60m hose within 2 minutes of site. 	Shovel	Radio to base or cell phone with coverage
Use electric fences		<ul style="list-style-type: none"> • Check all fences and feeds daily for shorts 		
Chainsaws, chippers, steel scrub cutters	2kg dry powder	<ul style="list-style-type: none"> • 9 litre pressurised water extinguisher or full 15litre knapsack. • 1000 litres available under pressure with at least 60m hose within 2 minutes. 	Shovel	Radio to base or cell phone with coverage

Activity Requirements	
Requirements for....	
Roadside and pasture/ gorse / scrub mowing and mulching.	<ul style="list-style-type: none"> • Stop roadside mowing
Welding / Grinding / Gas cutting sites	<ul style="list-style-type: none"> • Not permitted above vegetation. Only on bare earth / non-flammable surface Wet down area 4m around work site before commencing • Patrol for 30 minutes after completion
Crop Harvesting machine / site, includes crop trimming	<ul style="list-style-type: none"> • No work 12:00pm – 7:00pm. If FWI >25 stop work. FWI can be found on the website listed under how to use this guide. • Have an observer watching for fires from where all the work area can be seen. • Check and if necessary clean machine daily
Mechanical pasture / scrub development /discing / ploughing / cultivating	<ul style="list-style-type: none"> • No work 12:00pm – 7:00pm. If FWI >25 stop work. FWI can be found on the website listed under how to use this guide. • Have an observer watching for fires from where all the work area can be seen. • Check and if necessary clean machine daily
Tracked and digging machines on grass / dead vegetation (Includes civil contracting and quarrying). (Does not include machine working on bare earth surfaces)	<ul style="list-style-type: none"> • No work 12:00pm – 7:00pm. If FWI >25 stop work. FWI can be found on the website listed under how to use this guide. • Have an observer watching for fires from where all the work area can be seen • Check and if necessary clean machine daily
Use electric fences	<ul style="list-style-type: none"> • Turn off farm mains units between 12:00pm and 7:00pm where grass under wire is more than 50% cured / dead and on fences essential to stock containment use low power portable battery unit.
Chainsaws, chippers, steel scrub cutters	<ul style="list-style-type: none"> • No work 12:00pm – 7:00pm. If FWI >25 stop work. FWI can be found on the website listed under “how to use this guide”. • Check and if necessary clean machine daily • Stop use Steel Scrub Bars

Appendix 3 – Power Line Guideline

Power Line Auto Re-Closure System Triggers - Fire Risk Guidelines

Online Mapping: <https://fireweather.niwa.co.nz/region/Nelson%20Marlborough>

Computer-controlled power restarts after electrical faults have put a line off the grid have the potential to start fires from sparking electrical current if the line is severed and lying on the ground in ignition-receptive fuels. The objective is to minimise the risk of fire starts from the automatic switching of power by using triggers to identify when auto-reclosing should be switched off.

Grass is the main fuel type beneath powerlines along roadsides and in adjacent agricultural lands into which fires could spread. Again, this is a spark-hazardous activity, and Wakelin et al.'s (2010) grass ignition thresholds for metal sparks can be used.

- Faults often caused by high winds (line arcing, contacts or breakage)
- Often ignite rank roadside grass beneath lines (mod/high grass fuel load)
- Ignition is dependent on presence of dead fuels (grass curing) and grass moisture content (from FFMC)
- Fire spread (and intensity) is also dependent on grass curing and ISI
- Matrix of FFMC and Grass Curing, with additional Wind Speed trigger retained to capture both wind effects online breakage potential and fire spread

Refer to Grass Curing Guide below...













- Wind Speed is used as an indicator of when power failures are likely to be caused by line breakage (lines snapping directly or being broken by fallen branches in high winds), and therefore to come into contact with the ground and fuels where they could ignite a fire, in high winds (as opposed to other faults or false alarms)
- Wind Speed also governs the rate of fire spread potential following ignition
- The Wind Speed trigger has been set at WS <40 km/h (which equates to gusts of 60-80 km/h) to take account of likely line breakage above this level of wind speed
- The range of conditions under which the Level 2 Wind Speed condition applies has also been expanded to include lower FFMC levels across all curing levels (up one step in each case).

Separating out FFMC and wind speed better reflects the separate fuel moisture and wind speed influences. It also avoids instances where a high wind speed but low FFMC results in a high ISI that might otherwise have triggered higher level auto-reclosure controls, but ignition is highly unlikely (due to wet fuels at the low FFMC).

Refer to the Grass Curing Guide below...



Grass Curing Field Card for On-site Estimation of % Cured Grass in a pasture.

 Grassland Curing Field Card				
Date / Time: _____ Location: _____				
Point Observation				
20	Height (cm) _____ Curing (%) _____ Cover (%) _____ Fuel Load (dry t/ha) _____	From early growth to start of seed head development	0	GREEN PHASE    
		Seed heads formed and flowering	10	
		Seed heads maturing and changing colour	20	
		Yellowing becoming apparent in leaves	30	
15		Slightly more than half green	40	YELLOW PHASE   
		Half green and half yellow, half of stems have dropped their seeds	50	
		Slightly more than half yellow	60	
10		Yellow dominating landscape, some green visible	70	DRY PHASE   
		Lower third of stalk may be green	80	
		Very little green in landscape, all seeds dropped	90	
5		No green in landscape, stalks fully cured and break easily	100	
1	Remember to increase your curing if there is substantial thatch in your grassland.			