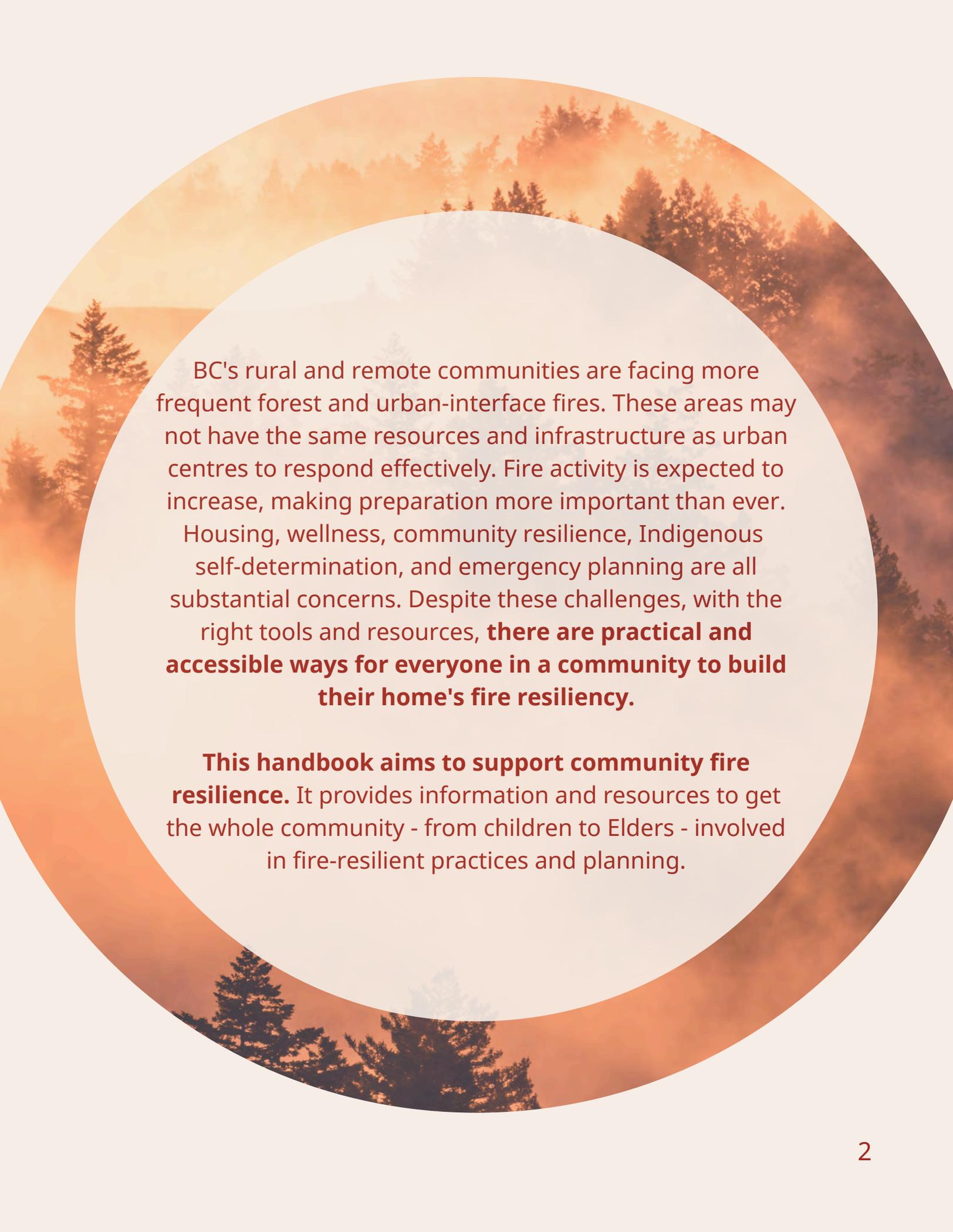# COMMUNITY FIRE RESILIENCE

2025
Community Resource Handbook

BC's rural and remote communities are facing more frequent forest and urban-interface fires. These areas may not have the same resources and infrastructure as urban centres to respond effectively. Fire activity is expected to increase, making preparation more important than ever. Housing, wellness, community resilience, Indigenous self-determination, and emergency planning are all substantial concerns. Despite these challenges, with the right tools and resources, **there are practical and accessible ways for everyone in a community to build their home's fire resiliency.**

This handbook aims to support community fire resilience. It provides information and resources to get the whole community - from children to Elders - involved in fire-resilient practices and planning.

Chapters

An interactive chapter sharing capacity & funding resources is published on the website only.

Acknowledgements

This handbook is part of a PICS-funded project, **Building Climate Resilience in Rural & Remote Communities.** The project is centred around collaborations that bridge climate strategies and policies in British Columbia with Indigenous and community-driven expertise. It focuses on low-carbon resilience in housing, technical systems, and community planning.

As a step towards Indigenous self- governance, the First Nations Housing and Infrastructure Council (FNHIC) delivers housing and infrastructure programs for First Nations in British Columbia. They provide comprehensive services that promote self-determination, organizational growth, and transformation, ensuring that no First Nation is left behind.

FireSmart, Intelli-feu and other associated Marks are trademarks of the Canadian Interagency Forest Fire Centre Inc.
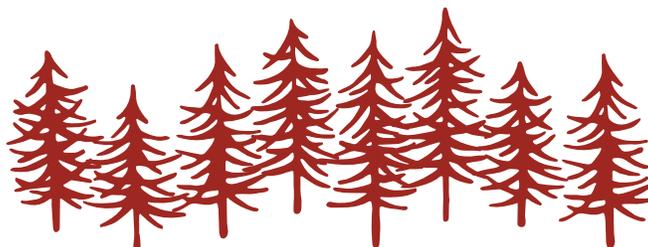
Defining Resilience

Fire resilience is distinct to each community, meaning every community may need distinct supports and tools to support their resilience. A community's infrastructure, residents, capacity, and values will all influence fire resilience. Resilience facilitates recovery, empowering individuals to support each other and strengthen their community's capacity to respond to the ongoing, urgent challenges posed by wildfires.

The handbook aims to:
- Be **engaging** for everyone, at every age.
- Serve as a **resource guide** for housing, maintenance, capital, infrastructure and other managers, residents, and homeowners.
- Provide **practical information** on fire mitigation strategies.
- Be a source of **capacity-building** ideas, activities, and programs for communities.

This handbook is grounded in the principle of building resilience for future generations, drawing on the knowledge and experiences of the generations who came before us. Building fire-resilient communities for future generations should be rooted in past, present, and future innovations. The resources in this guide aim to acknowledge and honour Indigenous knowledges, building styles, and governance.

Community Fire Resilience

Community fire resilience begins with systems of shared responsibility. Every generation plays a role, and by working collectively, communities can create holistic systems that protect the intersecting risks associated with fire.

Community resilience includes practices that are embedded into many aspects of community life, governance, and planning. As a result, community resilience is interwoven with other risks, concerns, and the wellbeing of the community. The Fire Resilience Wheel aims to capture these related topics. It can be customised to more precisely represent individual communities and Nations' priorities.

The inner segments of the wheel represent broad, overlapping aspects of fire resilience. The outer segments are examples of those broad categories and were chosen through community engagement sessions. They are not exhaustive.

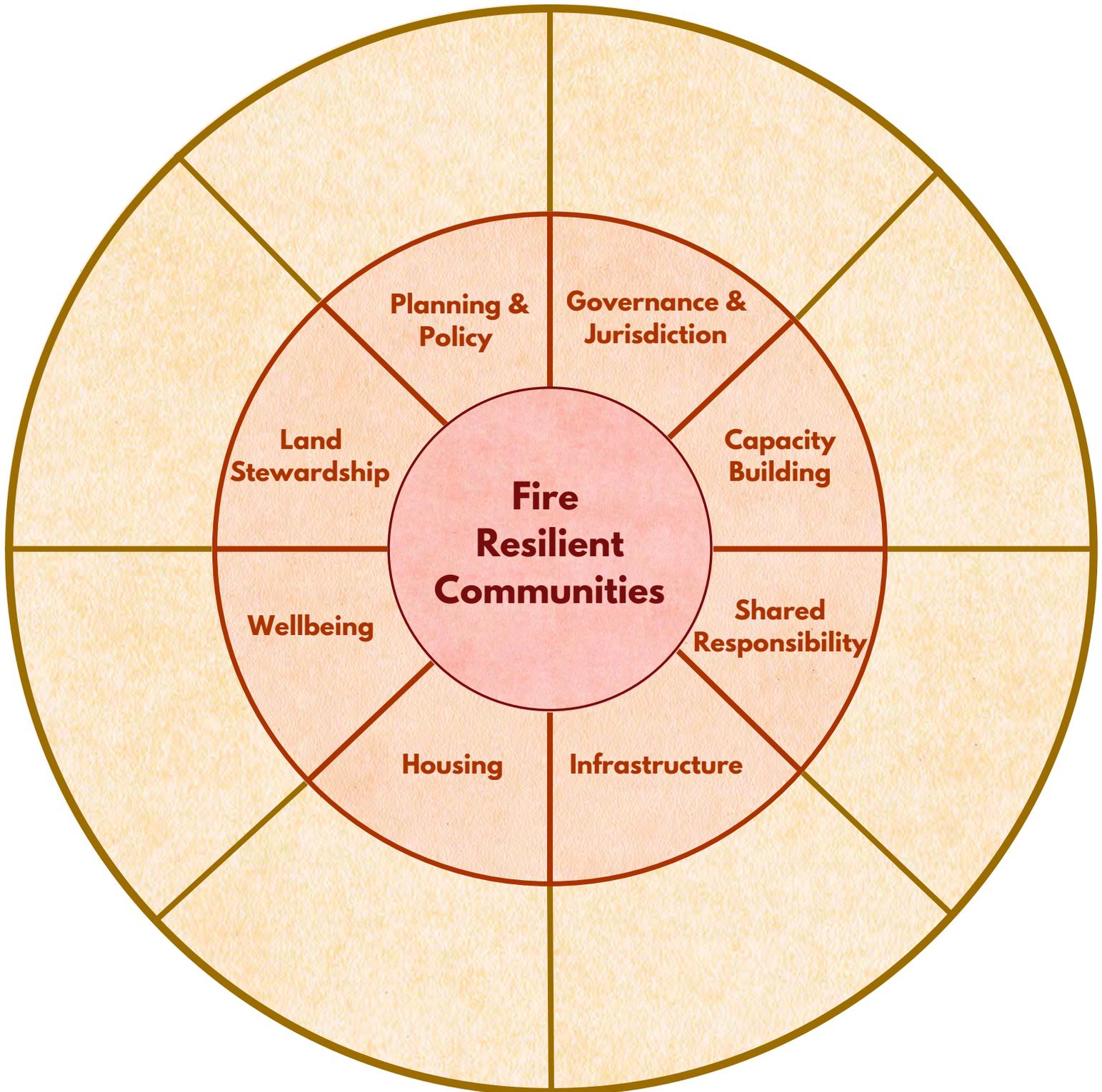Community resilience includes practices that are embedded into many aspects of community life, governance, and planning. As a result, community resilience is interwoven with other risks, concerns, and the wellbeing of the community. The Fire Resilience Wheel aims to capture these related topics.

Fire Resilient Communities

Planning & Policy
- Emergency response
- Go bags and resources
- Community plans

Governance & Jurisdiction
- Establishing roles across jurisdictions
- Nation authority and response plan

Capacity Building
- Youth engagement
- Fire response training
- Trades training

Land Stewardship
- Traditional knowledge
- Cultural Burns
- Forest stewardship

Shared Responsibility
- Engagement
- Working together
- Seven Generations

Wellbeing
- Safe and timely return
- Holistic healthcare
- Smoke safety

Housing
- Fire Smart
- Safe storage of fuel
- Retrofits and building codes

Infrastructure
- Evacuation routes
- Muster Stations
- Equipped safe gathering sites
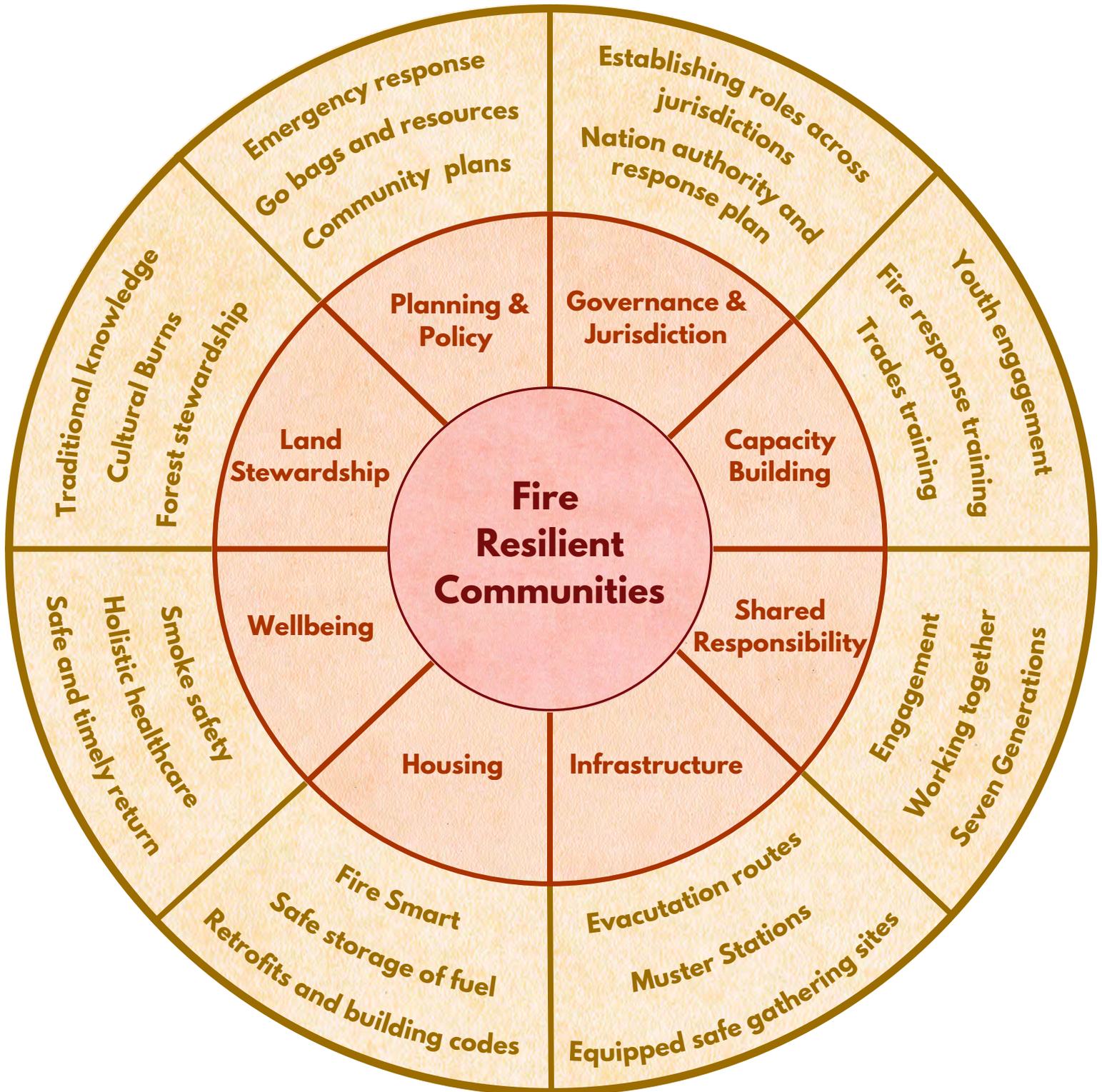
Community resilience includes practices that are embedded into many aspects of community life, governance, and planning. As a result, community resilience is interwoven with other risks, concerns, and the wellbeing of the community. The Fire Resilience Wheel aims to capture these related topics. Try filling out your community's priorities!

Community resilience includes practices that are embedded into many aspects of community life, governance, and planning. As a result, community resilience is interwoven with other risks, concerns, and the wellbeing of the community. Try filling out your community's values and priorities in this blank wheel.

Fire Resilient Communities
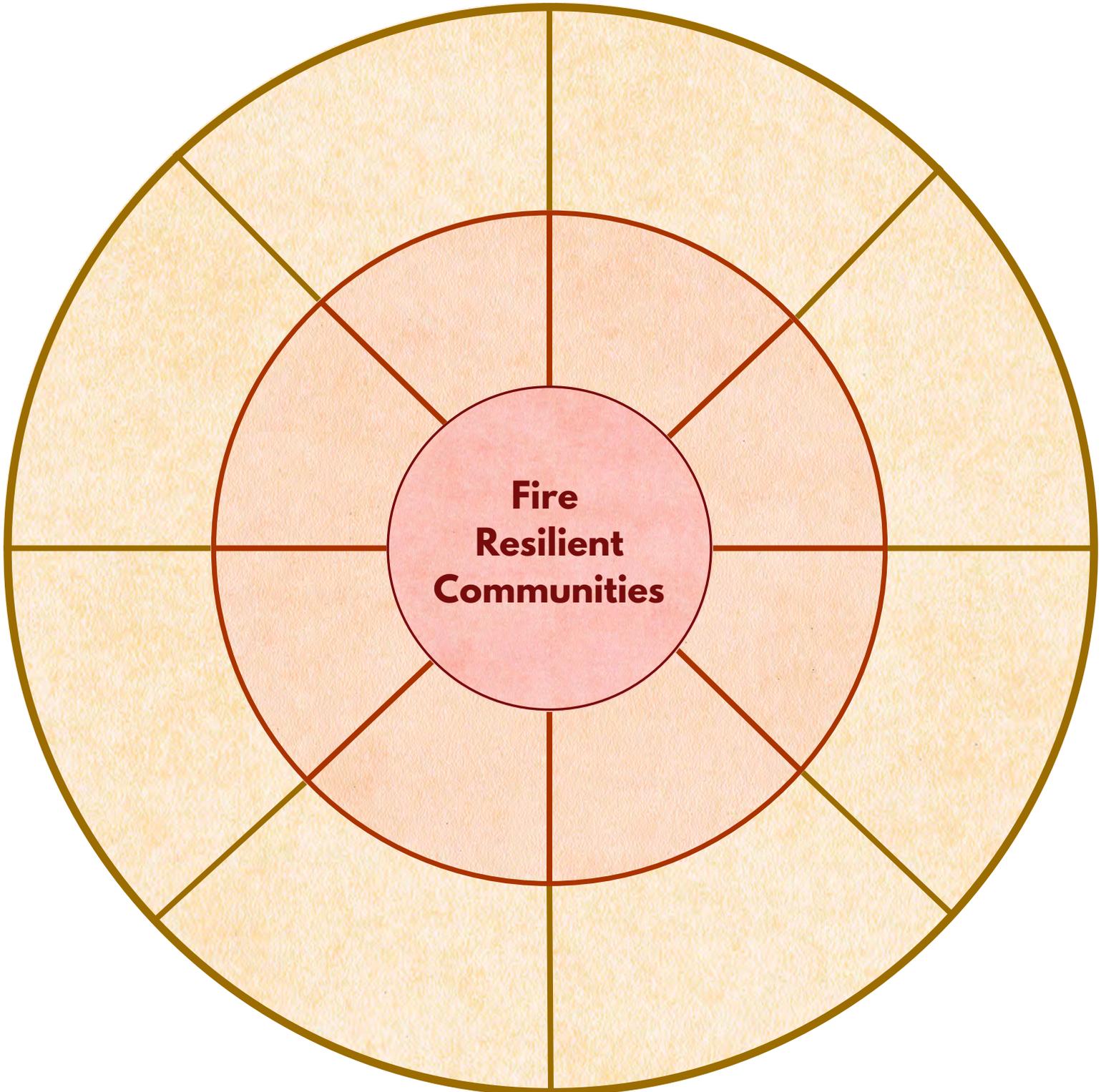
Community Planning Kit

This section provides resources to help both households and communities prepare for fires.

Resources available in this section include:

- A calendar of important dates related to fire resilience and preparedness;
- Contact sheets for urgent situations (standard letter size, pocket-size for wallets, and one specifically for kids/youth);
- A checklist of items to include in a 'go bag' for emergencies;
- Community mapping activities to support:
  - Community asset mapping.
  - Evacuation route planning.

FIRE PREPAREDNESS CALENDAR - BRITISH COLUMBIA

January
- ☐ Community planning sessions & workshops

February
- ☐ Tool maintenance
- ☐ Community tool shed fundraiser

March
- ☐ Tree maintenance event
- ☐ Ignition Zone 1 planning: clear debris and gutters

April
Fire season may begin
- ☐ FireSmart Home Assessments
- ☐ Community event to assemble and distribute Go Bags

May
- ☐ Continue yard and home maintenance tasks
- ☐ Community lawn mowing event

June
Refresh and review:
- ☐ Go Kits
- ☐ Evacuation plans
- ☐ Shelter-in-place plans

July
- ☐ Community outreach and FireSmart maintenance

August
- ☐ Community outreach and FireSmart maintenance

September
- ☐ Community outreach and FireSmart maintenance

October
Fire season is likely to be coming to a close
- ☐ Yard and home maintenance tasks

November
- ☐ Community recovery and planning for the year ahead

December
- ☐ Community fire resilience groups and workshops

The calendar above has examples of community events and maintenance tasks. Every community will differ in seasonality, landscape, planning, and resources. FireSmart™ practices should be maintained year-round.

Contact Sheets

Collecting key contacts ahead of time can aid in rapid response to fires.

As applicable, have the contacts for the following individuals/groups available:
- Fire Department;
- Housing Manager;
- Emergency Services;
- Fire Resilience Steward (a community leader who promotes fire resilience and supports fire preparedness activities);
- Personal emergency contact(s).

The contact sheets from the handbook can be printed to fill by hand or filled out using a PDF viewer. You could also save these contacts on your phone if possible.

Note: to print out the contact sheet at the correct size, set the Scale (%) in the print settings to 'Actual' instead of 'Fit to Printable Area'

FIRE SAFETY: KEY CONTACTS

Role	Name	Contact Information
Local emergency service		
Non-emergency fire service		
Housing manager		
Urgent health service		

FIRE SAFETY: KEY CONTACTS

Role	Name	Contact Information
Local emergency service		
Non-emergency fire service		
Urgent health service		
Trusted Adult*		
Trusted Adult		
Trusted Adult		

--------------------		

*A trusted adult might be a family member, close friend, community elder, teacher, or anyone else you would feel safe and able to contact in an urgent situation.

FIRE SAFETY: KEY CONTACTS

Role	Name and Contact Information
Local emergency service	
Non-emergency fire service	
Housing manager	
Urgent health service	

'Go' Bags

Useful for more than just fires, a 'go' bag is a collection of supplies a household keeps ready in a portable kit in case of emergency. They can save time and stress in case of a sudden evacuation order or other urgent event.

In addition to the general list of items included within the checklist (next page), go bags should be adapted to fit a household's health, cultural, and personal needs.
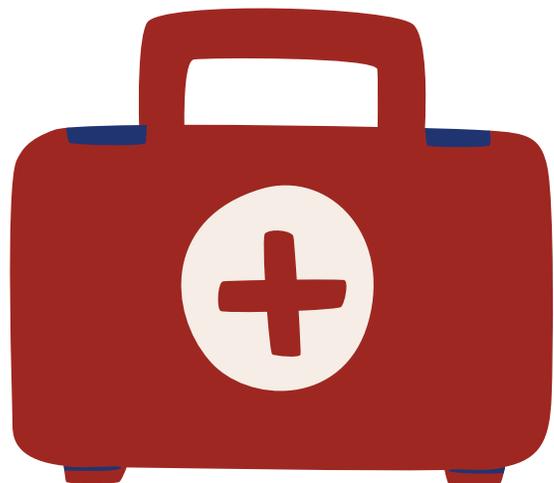As examples:
- Identification may include a passport, driver's license, health card, birth certificate, permanent resident card, visa, and/or status card.
- The First Nations Health Authority's example kit, made by their Vancouver Coastal Health Emergency Management Team, includes Skwxwu7mesh Uxwumixw canned sockeye salmon, plant medicines, and a sage & cedar bundle. Different nations may have culturally significant plants and/or medications that could be included in a kit.
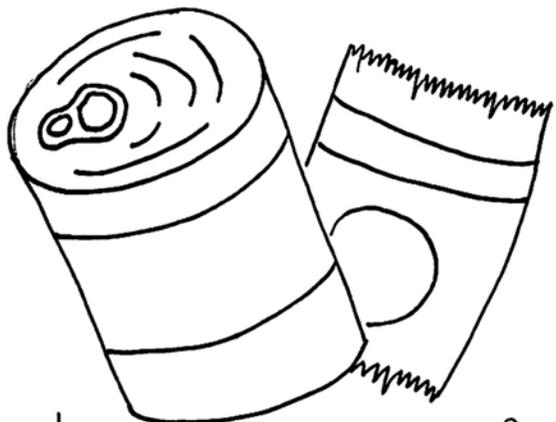
Emergency Kits

Emergency preparedness kits will have many of the same items as a go bag, but are for sheltering in place during an emergency situation. In addition to the items in a go bag, they should include:
- Food for at least three days. In remote areas with limited access and exit routes, food for 7-10 days is ideal.
- A one-week supply of water, which should be replaced once a year.
- Garbage bags and towelettes.
- Lantern and fuel for light. Be sure that any fuel is stored outside and away from a heat source.
- Bush cooking stove for cooking outside. Be sure that any fuel is stored outside and away from a heat source.

Supply lists for kits have been produced by the Government of BC and the Red Cross (page 11 of the PDF).

'GO' BAG FOR EMERGENCIES

Location of bag:

Last time checked/replenished:

Checklist:

- ◯ Enough non-perishable food for 3 to 7 days
- ◯ Bottled drinking water, 4 litres per person for 3 - 7 days is best
- ◯ Toiletries and medication
- ◯ First aid kit
- ◯ Phone charger and battery for phones
- ◯ Flashlight (battery, crank, or solar-powered) and spare batteries
- ◯ Radio (battery, crank, or solar-powered)
- ◯ Whistle

- ◯ PPE masks for heavy smoke or dust
- ◯ Emergency contact information and other plans
- ◯ Copies of identification and insurance documents
- ◯ Blankets and seasonal clothing, such as spare jackets
- ◯ ....
- ◯ ....
- ◯ ....
- ◯ ....
- ◯ ....

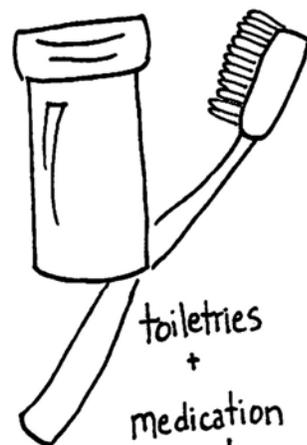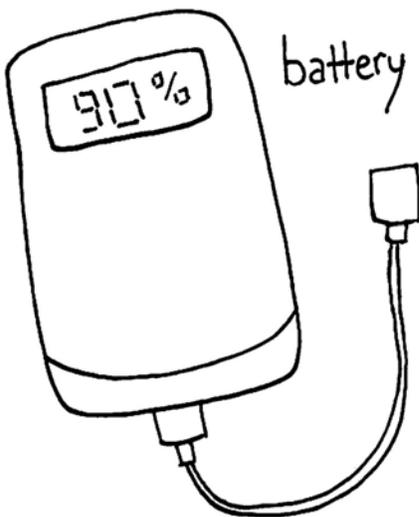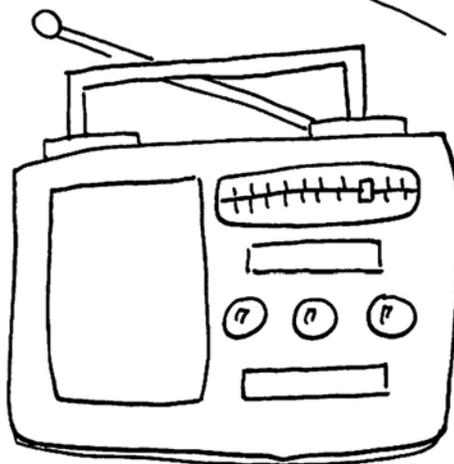# GO BAGS

3-7 days of non-perishable food

4L of water /person

toiletries + medication

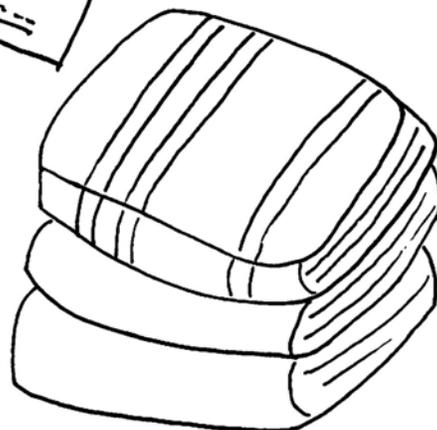flashlight

90% battery

radio

whistle

first aid kit
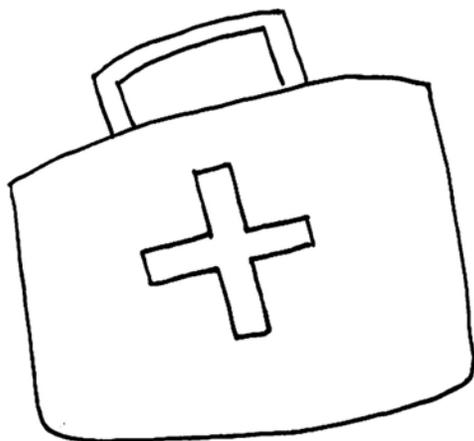
masks (in case of smoke /dust)

ID, insurance, plans, key contacts

blankets

Community Tool Sheds

Enacting fire resilient strategies often requires access to physical tools. A community tool shed, or <u>tool library</u>, can provide community members with access to tools they might not otherwise have, which can help everyone maintain a fire resilient community. Community tool sheds often operate like a library, with sign out sheets and membership cards to keep track of shared tools. They may come from collaborations with the local public library, community center, or through grassroots initiative.

Potential items that might be in a community shed include:
- Buckets
- Gardening or hedge clippers
- Lawn mowers and grass trimmers
- Rakes
- Shovels
- Wheelbarrows

The <u>Toronto Tool Library</u> is an excellent example of a potential model for a community tool shed.
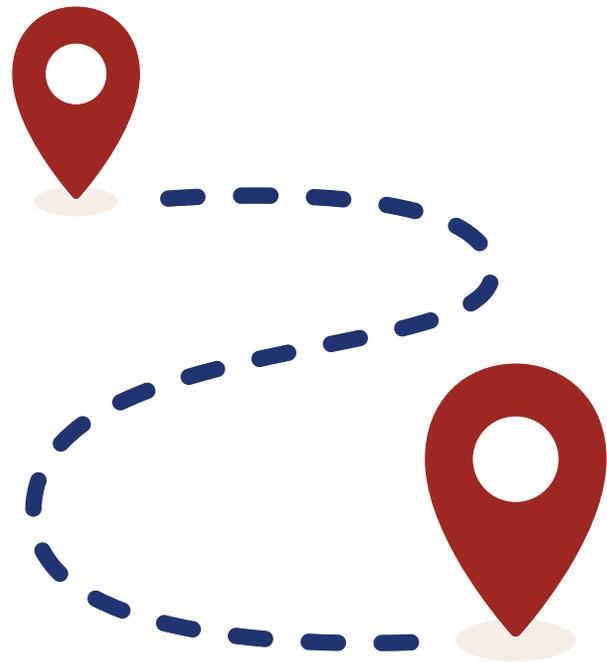
Community Asset Mapping

When planning for emergencies, an inventory of critical infrastructure can be useful to identify coordinated evacuation points, potential hubs for emergency services, and which buildings should be prioritised when funding upgrades for climate resilience. For example, critical infrastructure buildings might be the first to receive formal FireSmart assessments.

Which locations are identified as critical infrastructure is community-dependent and should be informed by community values and priorities. Potential critical infrastructure types include:
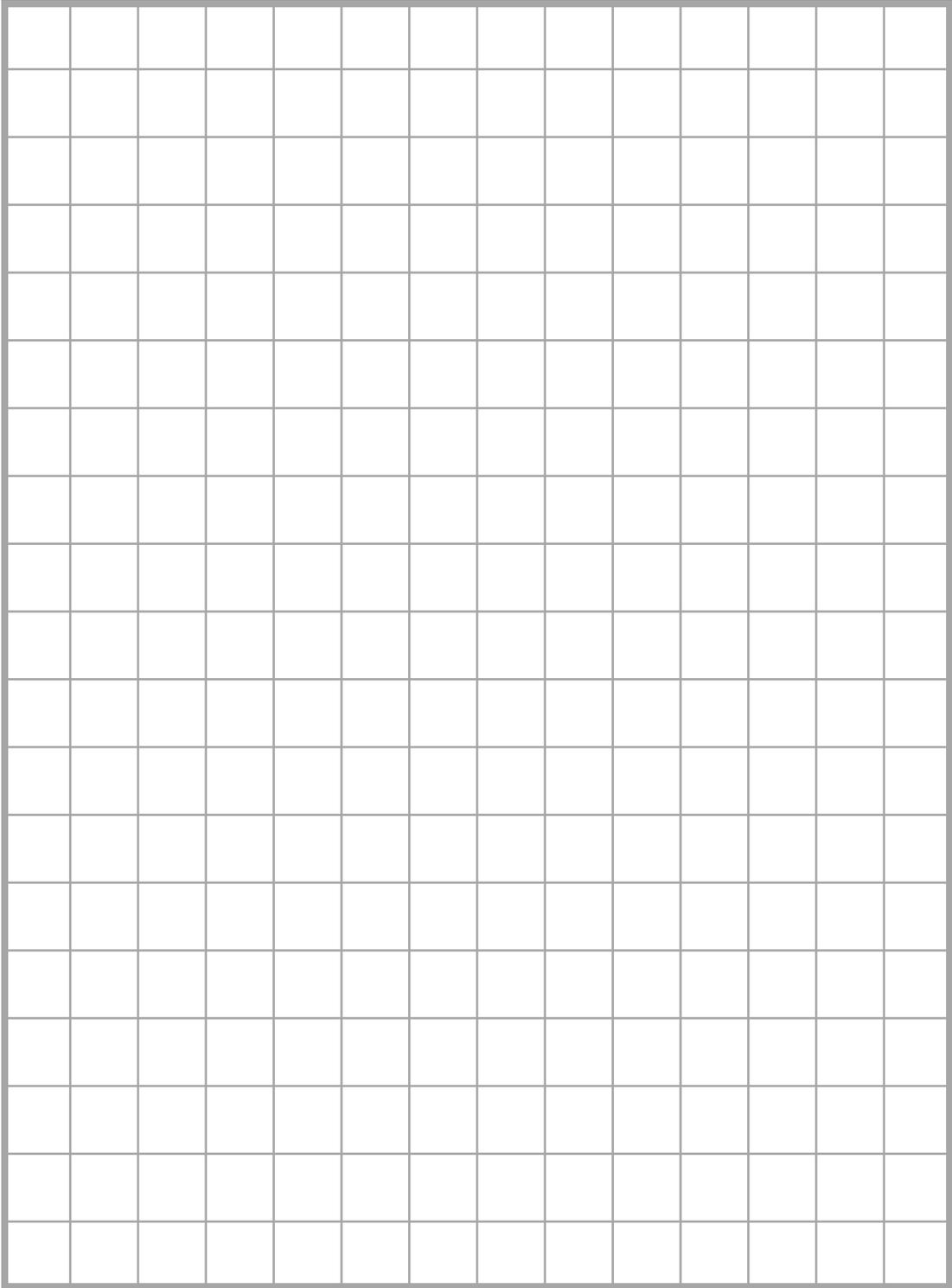- Animal welfare shelters;
- Cultural, community, and recreation centres;
- Fire halls;
- Halls or other large gathering places;
- Libraries;
- Museums and archives;
- Operations centres;
- Schools and other educational facilities;
- Youth centres and preschools;

Evacuation Routes

Fires may require communities to evacuate quickly and on very short notice. Mapping out potential evacuation routes ahead of time can aid with safe and lower-stress evacuations.

Map Your Community:
Community Assets and Evacuation Routes

Notes

Map an Evacuation Route!

Route Notes:

Other Resources for Community Planning

Three Features of a Wildfire-Ready Community

Author: Intact Centre on Climate Adaptation at the University of Waterloo
Published 2023.

This one-page document provides three ways to plan a wildfire-resilient community through protecting structures, designing the community to reduce risk, and proactively designing emergency responses.

Wildland Urban Interface Community Preparedness Digital Tool

Author: National Indigenous Fire Safety Council
Published 2023.

This tool identifies 18 community roles and/or groups who have a part to play in wildfire preparedness, outlining what they should do before, during, and after a wildfire. Each role is represented by an icon designed by Anishinaabe Onyota'a:aka artist Tsista Kennedy. This one-page document provides three ways to plan a wildfire-resilient community through protecting structures, designing the community to reduce risk, and proactively designing emergency responses.

The recommendations within the tool are based on a report from the University of Waterloo, which draws from case studies of wildfire preparation and management in First Nations communities.

Other Resources for Community Planning

The Fires Awakened Us – Wildfire Report

Author: Jocelyn Stacey, Crystal Verhaeghe, and Emma Feltes, produced for the Tŝilhqot'in Nation
Published 2019.

This report reflects on the Tŝilhqot'in Nation's experiences of the 2017 wildfire season. As shared by the Nation's Tribal Chairman, Nitsil'in Joe Alphonse, "we hope this report can be used to improve emergency management in other First Nation communities while also maintaining their rightful jurisdiction". Community planners may find the calls to action on pages 12 to 20 of the document particularly useful.

Fire Primer: How do fires spread?

Understanding fire behaviour is the first step in preventing its spread. When forest fires reach residential areas, they become *interface fires*. Mitigating the spread of interface fires requires community planning, home and yard maintenance, and following FireSmart™ practices.

Fire Triangle: Fire requires fuel, heat, and oxygen to start and spread. By clearing surface fuels throughout communities and ladder fuels against structures, the spread of interface fires can be mitigated. Fuels include anything that could catch fire: vegetation, firewood, wood chips, leaf piles, fuel tanks, and trees are all examples of fuels.

Oxygen Heat

Fuel
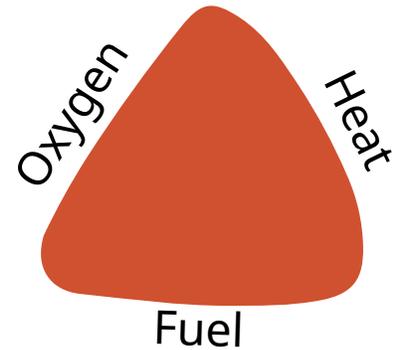
There are three ways fires spread:

Embers

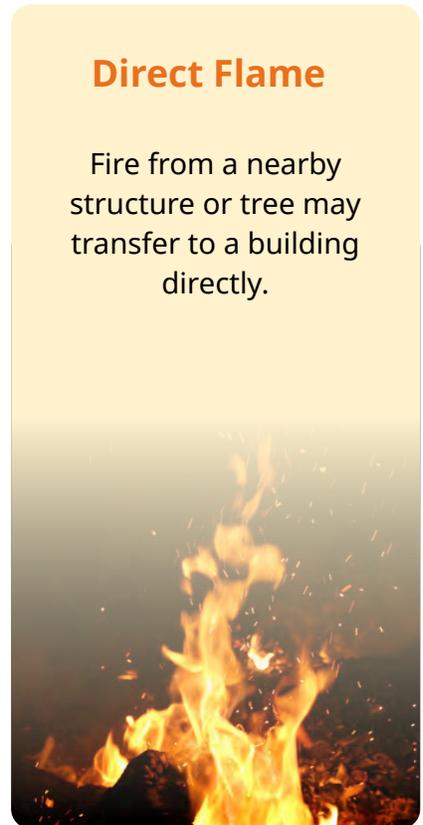Embers are burning debris carried by wind. They can travel up to 8 km.

Radiant Heat

Intense heat from a nearby fire can ignite a structure.

Direct Flame

Fire from a nearby structure or tree may transfer to a building directly.
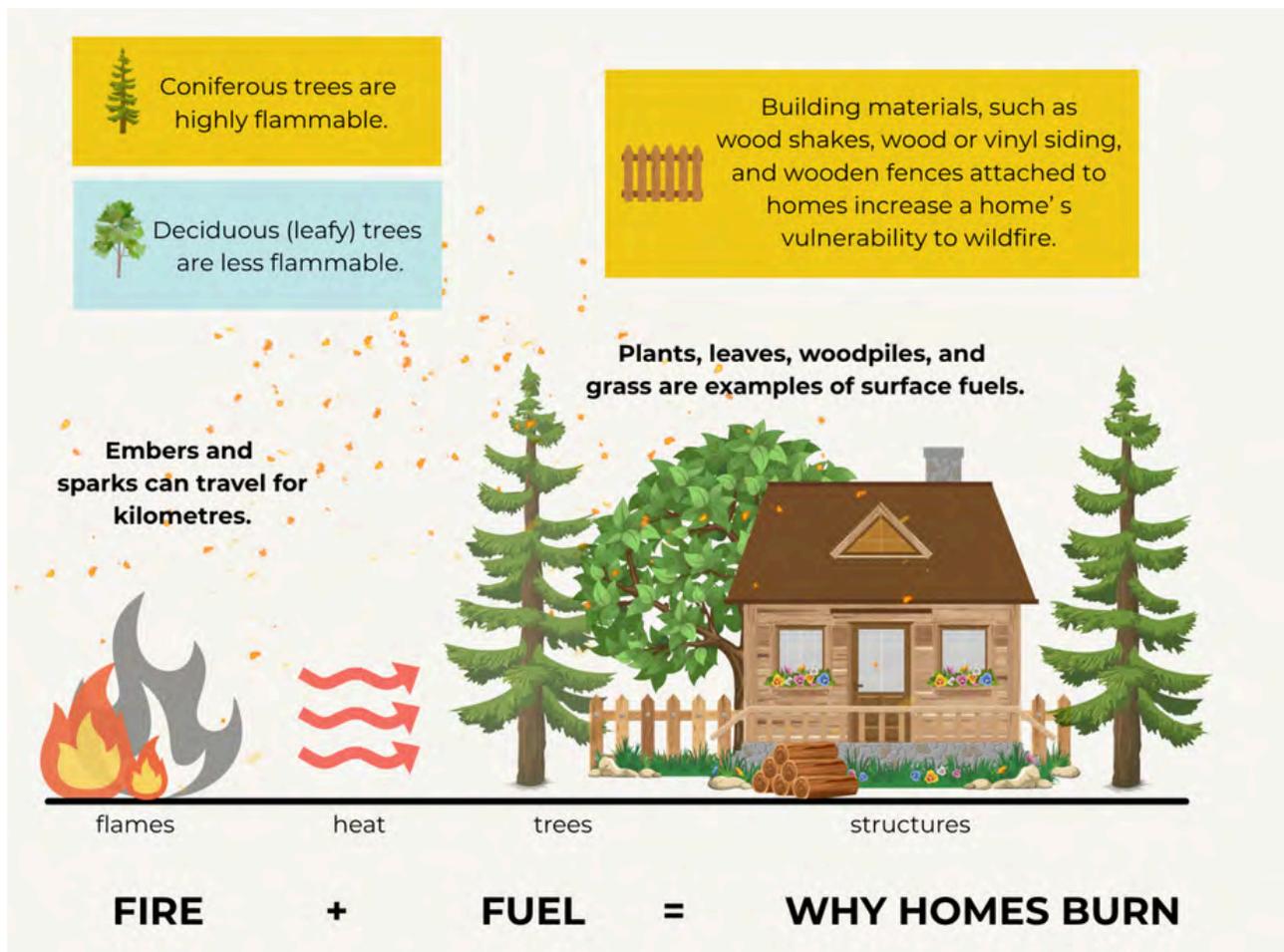
Fires can spread due to trees, surface fuels, and structures made of flammable building materials. Graphic made by Alexandria Jones (FireSmart™ Canada).

Why does the fire triangle matter?

In many rural households, it's common practice to store firewood against the exterior wall of the home. This can pose a fire risk because the combination of the wood (fuel) and gaps between logs (space for oxygen) can quickly ignite if an ember from a fire, even just a small campfire, falls into the gap. Decks with wooden boards with a >3mm gap pose a similar hazard, especially if leaves and other dry matter that could fuel a fire are underneath the deck.

The other recommendations to mitigate fire spread in the following section also aim to minimise the potential of embers becoming larger, dangerous fires.

Home Ignition Zones

Careful planning and maintenance for each zone can improve your home's resilience to fire and mitigate spread. This section provides some suggestions of important tasks to maintain fire safety in each zone. Additional recommendations are provided in the FireSmart Begins at Home Guide.

Immediate: 0 - 1.5m

Priority: reduce the chance of ignition if an ember lands near your home by reducing fuel sources.

- Clear debris. Nothing should be stored against the house.
- Roofs and gutter cleaned and equipped with <3mm mesh.
- Chimneys equipped with spark arrestors.
- Decks cleared and free of gaps.

Intermediate: 1.5 - 10m

Priority: manage the area to mitigate the risk of fire transmission to the home.

- Lawns mowed shorter than 10 cm.
- Foliage and trees tended from overgrowth.
- Fire resistant foliage and trees when possible.
- No placement of fuel tanks, firewood, or fire pits.

Extended: 10 -30m

Priority: reduce the intensity of any potential fires.

- Trees pruned and thinned from the bottom up.
- Space trees at least 3 m apart.
- Ensure safe and visible exits for emergency services.
- Plan collaboratively with neighbours to steward shared extended zones.

HOW DOES FIRE SPREAD? — HOME IGNITION ZONES

IMMEDIATE ZONE 0-1.5m

INTERMEDIATE ZONE 1.5-10m

EXTENDED ZONE 10-30m

FIRE SPREAD

EMBERS

SURFACE FUEL

STRUCTURES

HEAT

FLAMES

Graphics adapted from FireSmart Canada
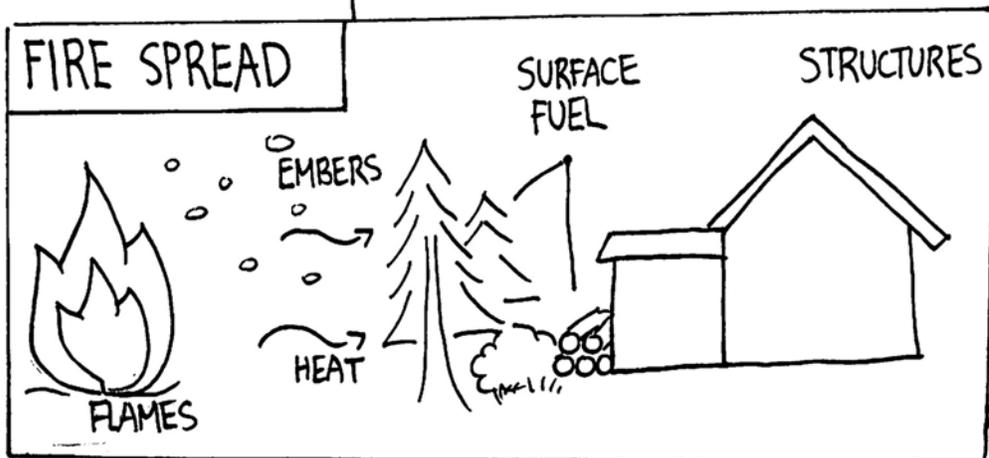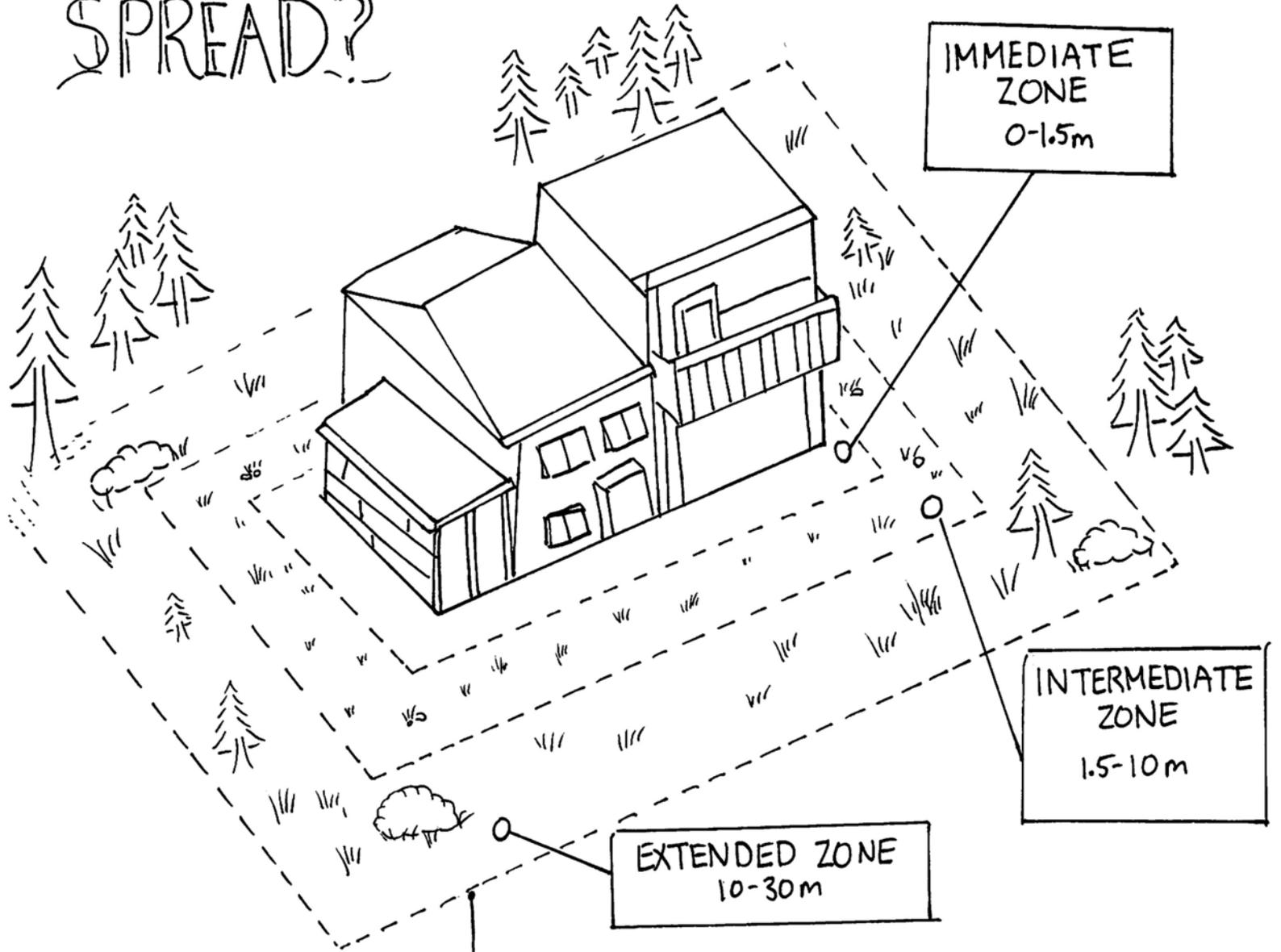
Air Quality Primer

Communities across British Columbia are finding practical and creative ways to protect themselves from wildfire smoke. From building your own portable air purifiers to establishing dedicated clean-air spaces in community gathering spaces, there are simple and cost-effective measures that you and your community can take to protect your well-being and health.

Why does wildfire smoke matter?

Wildfire smoke can:

- Cause immediate and long-term adverse health effects.
- Travel long distances and can last for days to weeks.
- Infiltrate homes through cracks, vents, doors, windows, chimneys etc.

Among the many pollutants in wildfire smoke, tiny airborne particles called fine particulate matter (PM2.5) pose the greatest risk to human, animal, and plant health. These extremely small particles (smaller than 2.5 micrometers) can travel deep into the lungs and even enter the bloodstream. Extensive research shows that PM2.5 can reduce lung function and cause serious health problems, including bronchitis, cognitive decline, heart failure, and premature death.

Who is most at risk?

Those at higher risk may include:

- Older adults, infants, and pregnant individuals.
- Outdoor workers, athletes.
- Individuals living in rural or remote areas.
- Individuals with pre-existing heart, lung, or chronic health conditions.
- Individuals with lower socio-economic status (e.g. income, housing, education).

There is no safe level of exposure to wildfire smoke. Even healthy adults risk adverse health effects after brief exposure.

How do I monitor air quality?

Canada uses the Air Quality Health Index (AQHI) to measure overall health risk from air pollution on a scale from **1 (low risk) to 10+ (very high risk).**

To monitor current or forecasted air quality near you, useful resources include:

- Weather forecast apps, available on most mobile devices.
- WeatherCan App for real-time updates and alerts.
- FireSmoke Canada for smoke forecasts.
- Purple Air Monitor Maps for localised, real-time air quality readings.
- BC Air Quality Warning Alerts to subscribe to notifications during times of degraded air quality.

Forecasts may not always accurately reflect local conditions. Trust your instincts - **if smoke is noticeable through sight or smell, please take precautions.**

How do I remove particulate matter from smoky air?

Using a HEPA (High Efficiency Particulate Air) filter is one of the most effective tools for protecting yourself from fine particulate matter.

- If possible, use an air purifier with a **HEPA and carbon filter** to remove both smoke particles and odors.
  - Learn how to make a low-cost Do-it-Yourself air filter through a tutorial developed by the SFU Breathe Project.
- Ozone-generating "air purifiers" can worsen indoor air quality. The California Air Resources Board keeps a list of 'purifiers' that intentionally omit ozone.
- Replace filters regularly if they appear dark or dusty.
- Vacuums with a HEPA filter may help prevent stirring up indoor particles.

Need help choosing an air purifier? Try this simple step-by-step guide!
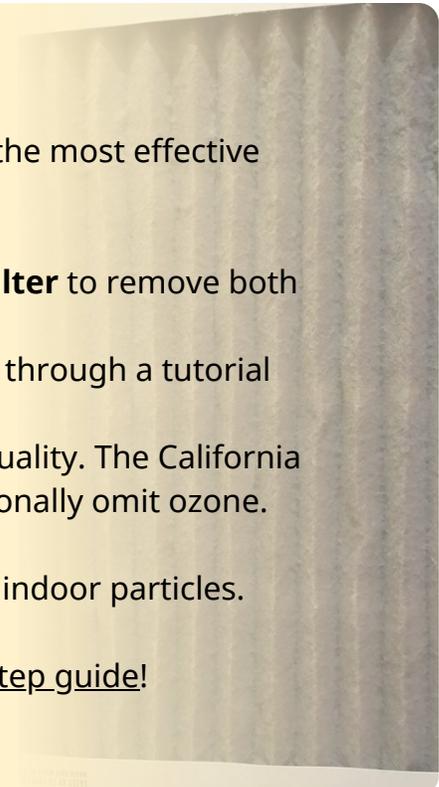
How does smoke infiltrate homes, and what can individuals do to stop it?

For most people, fully sealing a home against wildfire smoke is difficult and expensive, especially in older buildings. A more practical option is to designate a **clean air room**: a space such as the bedroom or basement designed to provide protection from excess smoke inhalation.

The room should preferably include:
- A **portable air purifier with a HEPA filter** to remove particles.
    - No filters? Block vents and other gaps with towels or cloth to limit smoke indoors.
- Extra HEPA air filters. Remember, not all filters are made equally. HEPA filters are certified to remove 99.97% of particles 0.3 microns or larger.
- A portable air cleaner.
- An **activated carbon filter** to reduce odors and gases.
- **Taped or sealed windows** and **doors** to limit smoke entry.

Please seek immediate medical attention for worsening symptoms such as chest discomfort, shortness of breath, severe coughing or wheezing, dizziness, or any worsening of mental health.

**The best way to protect your health
is by reducing exposure to wildfire smoke.**

COMMUNITY PLANNING FOR WILDFIRE SMOKE

Preparing for Wildfire Smoke

○ **Collaborate** with local emergency staff, health authorities, or community volunteers to **tailor emergency plans** that include considerations for wildfire smoke safety in ways that reflect local needs and resources.

○ **Support community gathering centres** including schools, childcare centres, care homes, and health centres in creating smoke resilience plans to reduce exposure during smoke events (see ASHRAE Guidelines for sample smoke resilience plans).

○ **Establish local air monitoring** by using tools like the WeatherCAN app or PurpleAir to track air quality in real time. Air quality alerts may not always reflect current conditions of the geographic location. If air quality reports are not accurate to the community, consider installing a local air quality monitor - ideally both indoor and outdoor - at a communal gathering space or public space.

○ **Raise awareness and share resources** to reduce smoke risks and inform community members of designated cool & clean air spaces, if available.

Responding During Smoke Events

○ **Establish cool & clean air spaces** that are protected from smoke intrusion by:
  - Closing windows and doors (if extreme heat is not present)
  - Blocking drafts with towels, tape, or plastic sheeting.
  - Using portable HEPA air purifiers or building a DIY box fan filter.
  - Using MERV 13 + and carbon filters to reduce odour and particulate pollutants.
  - Spaces may also be equipped with bottled water, chairs and blankets, fans and A/C units, and information about extreme heat and smoke safety.

○ **Assist community members** who may not be able to reach clean air spaces or collect equipment on their own by arranging delivery through local staff, health teams, or community volunteers where possible.

○ **Conduct wellness checks** by phone or in person, particularly on older adults, people living alone, or those with pre-existing health concerns. Communities may use the check-in to ensure they have access to supplies, clean air spaces, or health services.

HOUSEHOLD PLANNING FOR WILDFIRE SMOKE SAFETY

Preparing for Wildfire Smoke

○ **Monitor air quality:** to monitor current or forecasted air quality near you, useful resources include:
  - Weather forecast apps, available on most mobile devices.
  - WeatherCan App for real-time updates and alerts.
  - FireSmoke Canada for smoke forecasts.
  - Purple Air Monitor Maps for localised, real-time air quality readings.
  - BC Air Quality Warning Alerts to subscribe to notifications during times of degraded air quality.

Please note: forecasts may not always accurately reflect local conditions. Trust your instincts! If smoke is visibly hazy and/or can be smelled, it is best to take precautions.

○ **Set up a dedicated clean air room** like a bedroom or basement with intended protection from smoke.
  - Seal and close all windows and doors.
  - Block drafts with towels, tape, or plastic sheeting.
  - Use a HEPA air purifier or, if one is not accessible, consider building a DIY box fan filter.
  - Use activated carbon filters to reduce gaseous pollutants.
  - Install MERV 13+ air filter to capture particulate matter.
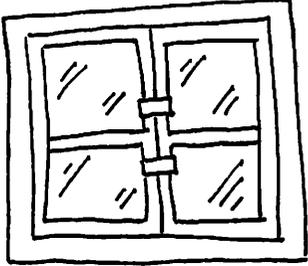
Staying Safe During Smoke Events

○ Spend time in cool & clean air spaces whenever possible.

○ Avoid outdoor exercise or strenuous activity when the air is smoky, especially for children, older adults, or people with pre-existing health conditions.

○ Use a well-fitted N95 or KN95 mask when going outside during heavy smoke to reduce inhalation of fine particles (PM2.5).
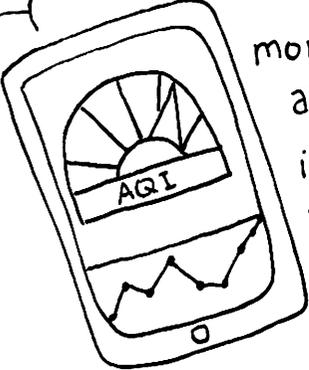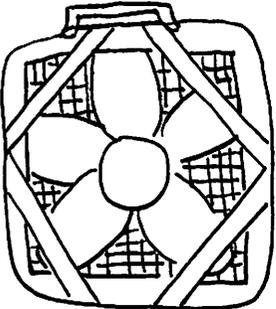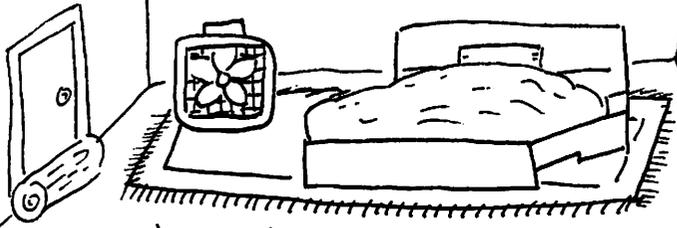
Other Wildfire Smoke & Air Quality Resources

A public health companion for ASHRAE Guideline 44: Protecting building occupants from smoke during wildfire and prescribed burn events

Authors: National Collaborating Centre for Environmental Health
Published 2025.

This guide is a companion to a technical document for engineers and facility managers trying to keep indoor air clean during wildfire smoke events. It provides a guide for developing smoke-readiness plans for buildings. The checklists and one-page summary in the appendices may be particularly useful as a reference.

SFU BREATHE DIY Air Cleaners

Author: SFU BREATHE Project
Published 2024.

The BREATHE project helps communities prepare for wildfire smoke exposure and has published resources to help folks build their own air cleaners using a box fan, filter, duct tape, and scissors.

Housing, Building Materials, and Landscapes

Innovations in building materials and best practices can aid in designing more fire-resilient housing. This section covers information on those materials and best practices. Recognising that homes often extend beyond a human-constructed structure, it also includes resources with information about fire-resilient landscaping.

More information about climate-resilient building materials can be found on our Building Materials project page!

Material	Description	Fire Rating	Common Uses
Rammed earth	Compacted layers of earth.	4 hours	Infill walls with steel or timber framing. Load-bearing walls.
Straw bale	Dry grain stalk compacted into bales.	1-2 hours with plaster, 30 minutes without	Infill with timber or steel-frame walls.
Cob	Clay, straw, sand, water, and lime.	2-4 hours	Infill post and beam/timber-framing walls. Load-bearing walls.
Hempcrete	Blocks made form hemp, lime, and water.	1+ hours, depending on thickness	Infill walls with steel or timber framing.
Autoclaved aerated concrete (AAC)	Mineral-based block cured under high heat and pressure.	2-4 hours.	Load-bearing walls. Cladding.
Mass timber	Engineered wood bonded with adhesive or fastener.	3+ hour.	Load-bearing walls and structural elements (floors, roofs etc.)

Other Resources for Fire-Resilient Housing

FireSmart Residential Development Guide Best Practices for Planning, Design, and Construction

Authors: FireSmart Canada™
Published 2025.

This document is based on the FireSmart Development Planning and Design Best Practices and the NRC-National Guide for Wildland-Urban
Interface Fires. It shares principles and best practices for planning, design, and construction of homes to make them more resilient to wildland fires. Example diagrams are provided in the Appendix (page 21 onwards).

Village of Lytton - Fire Resilient Community Fact Sheet

Author: Village of Lytton
Published 2024.

This is a one-page list of recommendations related to landscaping and building to reduce the risk of fire spread and damage, building from the Village's experience with a destructive wildfire in 2021.

The right column is focused on building recommendations, while the left is about landscaping.

West Coast Building Standard: Residential Construction Specifications

Author: Richard Hall, Nuxalk Nation Housing Specialist and Advisor
Published 2023.

Developed as part of the Nuxalk Nation's Housing Initiative, this building design guide provides solutions for affordable, energy-efficient homes for coastal areas where buildings need to be resilient to rain, moisture, and other coastal climate hazards. The guidelines lead to units that are energy-efficient to a minimum of Energy Step Code 3, which means they are 20% more efficient compared to the baseline requirements of the BC Building Code. The standard also includes culturally appropriate features, such as a shared cultural kitchen for canning, skinning, and weaving.

A series of six short videos - Richard & Friends - that complement this publication is available on the BCIT website.

FireSmart Fact Sheet: Siding

Author: FireSmart Canada
Published 2022.

Exterior walls - siding - are a fire safety risk because damage to siding can allow fires to reach underlying walls and penetrate a building's interior. This one-page document provides guidelines for those who are considering renovating siding to promote fire resilience.

FireSmart has also produced a more comprehensive home development guide that recommends designs, materials, and practices to reduce a building's vulnerability to wildfire.

Cool Roofs and Walls to Reduce Heat Gain

Author: Building America Solution Centre, Office of Energy Efficiency & Renewable Energy
Published 2023.

'Cool' roofs or walls use materials or coatings that stay relatively cool when the sun shines directly on them, which reduces heat conducted into the building. Cool roofs and walls improve comfort and energy efficiency, especially during periods of extreme heat.

Climate zones are only mapped for the United States on the website. BC's climate zones can be found on Better Homes BC.

Three Steps to a Cost-Effective FireSmart™ Home

Author: Intact Centre on Climate Adaptation at the University of Waterloo
Published 2023.

This document provides guidance on landscaping and home upgrades that improve a home's fire resilience, including options that do not require working with a contractor and can be done by a resident and/or their community.

The low-cost options in step 1 are related to landscaping and home maintenance.