HAINES JUNCTION COMMUNITY FUEL ABATEMENT PLAN

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HAINES JUNCTION COMMUNITY FUEL ABATEMENT PLAN

EXECUTIVE SUMMARY

Fire risk is a major concern in and around the community of Haines Junction and Kluane Park. A fuel abatement strategy and an implementation plan are developed to assist in reducing that risk in the communities. If a fire does start, an emergency response plan is proposed to minimize any potential damage from the fire.

The highest priority fuel abatement areas are within the community zone, and then in the integrated interface zone adjacent to the community zone. Each of these plans and the application are discussed in this document.

The Kluane Park area adjacent to Haines Junction is being reviewed with the Yukon Wildland Fire Management to coordinate fire risk management application.

The Introduction and Background Sections provide information to recognize some of the investment that the Yukon Government (YG), the Champagne Aishihik First Nation (CAFN), and the Haines Junction community have made to date towards making their community safer.

Community members can work with the Yukon Forest Management Branch and CAFN to prepare ahead of time to reduce risk in the most critical areas, and they can change their activities during the peak fire season in areas that have a high or moderate risk. They can also prepare an emergency response plan to address fires if they do occur.

1.0 INTRODUCTION

1.1 Haines Junction Community Concerns

The threat of wildfire to any community surrounded by forest is a growing concern in the Champagne Aishihik Traditional Territory (CATT) in the Yukon. There have been several large forest fires in the region. Some areas, especially where the spruce bark beetle is killing a large number of trees, continue to add to the fire hazard.

Haines Junction is located at 150 kilometres west of Whitehorse on the Alaska Highway (Map 1). The Haines Junction community objective is to reduce the risk that fire may threaten their community. Being informed and aware of the level of risk, and taking action to reduce that risk, in any particular building or area is important in reducing risk. This plan is designed to assist the community reduce the risk of fire and prepare to deal with a wildfire should one start. The plan will incorporate guidelines set out in the Strategic Forest Management Plan and the Integrated Landscape Plan.

Fire prevention starts awareness of the critical elements for fire to be successful. It then proceeds to assessment of the elements and a plan for removing, or at least reducing, them in a strategy to reduce risk. The next step is to identify critical areas of fire risk. Assessing the forest fuels in the critical areas is the basis for creating a fuel abatement plan. Fuel abatement is the removing or reducing of forest vegetation such as standing or down dead trees, or forest litter, shrubs and other plants, that are ignitable. Treatments designed for removing ignitable fuels within and surrounding the community will reduce the destructive potential should a wildfire occur.

Since it is unlikely that all fuels can be removed from the whole community area, a strategy of reducing the risk of fire starting and having an emergency response to fires must be included.

Haines Junction members need to work with the CAFN and YG to implement the plans to reduce the chance of a fire starting within or near the community. In the event of a fire, they need to be prepared to suppress and extinguish fires quickly while they are small. They also need to plan for action for fires they cannot extinguish.

1.2. Forests and Fire Behaviour

A general discussion to highlight important fuel abatement characteristics and strategies provides some background for the fuel abatement plan development.

The fire triangle in Figure 1(a) shows fire needs fuel, heat, and air to burn. If one of these three elements is removed, a fire cannot start or will be extinguished.

The fire behaviour triangle in Figure 1(b) shows that wildfire behaviour is dependant on fuel, weather, and slope of the land. The key factors that influence fire behaviour most are summarized as:

- a) Fuel: Moisture content, type (species and size), and closeness (continuity)
- b) Weather: Wind, air moisture (humidity and precipitation), and temperature
- c) Topography: Slope, aspect, and terrain

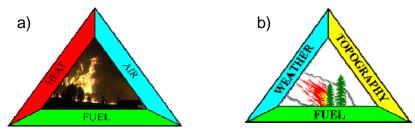


Figure 1: Fire Behaviour Triangle

In all cases, we have the most influence on available fuel, and then on heat (e.g., through the addition of water).

There are three principle kinds of wildfires (see Figure 2):

- 1. Ground fire: A ground fire burns forest litter: needles, leaves, grasses, dead branches that have fallen to the forest floor. A ground fire is not very hot and can be suppressed with quick action.
- 2. Surface fire: A surface fire moves up to the next layer of a forest, to include the smaller trees, shrubs and branches. It is hotter than a ground fire because there is heat from below and air moving through the branches. This fire can still be suppressed, with more effort, to prevent it from moving to the upper layer of the forest or the crown layer.
- 3. Crown fire: A crown fire burns very hot and can spread very quickly from tree top to tree top. It is usually very difficult to put out a crown fire. With high winds, it can jump large distances.

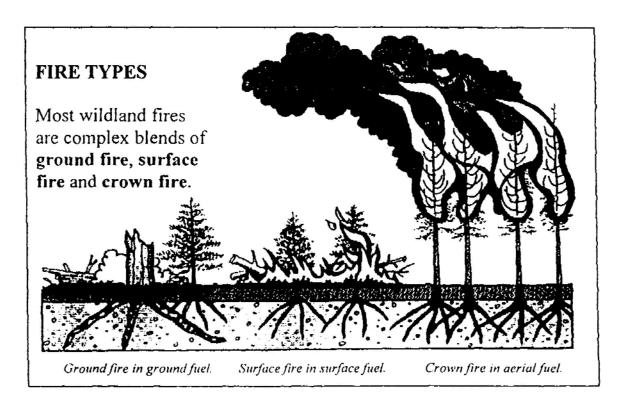


Figure 2: Fire Types

The condition of the forest, the terrain, and the weather, will determine the severity of the fire hazard. Dry forest litter, combined with old, dying or dead trees can be fuel for a high intensity wildfire. The coniferous trees, especially beetle-killed spruce trees, are more flammable than deciduous trees such as trembling aspen. The structure of the forest may support a crown fire if trees are spaced too close together or if there are many branches adding to the understory, or a mixture of tall and short trees that creates a ladder of fuel to the crown (Figure 3).

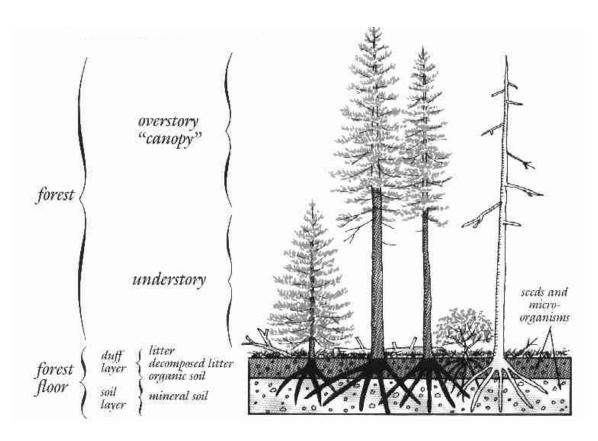


Figure 3: Forest Layers

In recent decades, Yukon forests may have experienced up to one degree of warming. This can mean more insect and disease outbreaks and more severe fires. Warming is expected to continue to increase over the next century (Ogden 2008). Fire hazard reduction needs to consider the long term effects of climate change on the forest and the fuel abatement plan.

2.0 BACKGROUND

The Strategic Forest Management Plan (SFMP), the Implementation Agreement, and the Integrated Landscape Plan (ILP) identified community fire risk management as one of its highest priorities. The Champagne and Aishihik First Nations (CAFN) and the Yukon Government (YG) agree to manage their respective lands within Champagne and Aishihik Traditional Territory (CATT) following the intent and guiding principles of the SFMP and the ILP.

The SFMP for the CATT has the goal to keep the forest healthy, productive and dependable as a resource for the people. The ILP was drafted to help the SFMP reach its goals. The ILP identified management zones which provide direction as to what activities can occur where, and present planning guidelines for setting priorities for fire hazard abatement (see Section 4.0 Table 3).

There is a cost to fire hazard abatement and fire response preparation. Funding of these projects will be enhanced by the community's plan being consistent with the guiding principles of the SFMP and the ILP, and being fundamentally sound. Since Haines Junction is connected to other neighbouring forest users in CATT and along the Alaska Highway, it can further enhance the plan by coordination with those other communities.

A multi-agency Fuel Abatement Technical Working Group (FATWG) has been working to help carry out the SFMP objectives. The FATWG developed fuel abatement priority zones for the ILP to assist the development of fire hazard abatement plans and strategies for communities of the CATT. Treatment guidelines have been developed which were to assist developing treatment prescriptions. The guidelines are:

- 1. To reduce fuels at or near the forest floor to levels to reduce ground or surface fire potential and intensity.
- 2. To prevent ladders of fuel that the fire can climb to reach the crown level of the forest.
- 3. To reduce closely spaced coniferous tree tops to an acceptable level, so that crown fire potential is significantly reduced.
- 4. To encourage development of a vigorous forest that is less likely to be attacked by the spruce bark beetle.
- 5. To keep a forest structure and composition that will respect values for wildlife, ecosystem function, scenic beauty, and cultural aspects as much as possible without giving up community safety.

The application of these guidelines is to be focused first on areas that are in the community zone closest to values at risk (homes and special buildings, heritage areas or structures) and next on adjacent areas (the interface zone) with higher risk for fires to start. Application into the landscape zone will be primarily to address specific high risk areas identified by the YWFM.

The Integrated Landscape Plan identified priority zones for fuel abatement based on recommendations of the Resource Assessment Technical Working Group (RATWG). The ILP also suggested methods for fuel abatement treatment. Table 1 summarizes the recommendations of the ILP for the highest priority treatment areas.

The first priority is to make the community zone safe. In Haines Junction, the community zone does not have High Wildlife areas identified. All CZ areas are Priority Rank 1 with the potential of extensive and/or intensive fuel management.

The next priority are the interface zone areas outside, and then within, the High Wildlife Value areas as shown in Map 2. There is a significant area that has deciduous leading timber types that will not need treating. The primary risk areas are the coniferous leading timber types with larger numbers of spruce bark beetle-killed trees that could cause loss of identified values at risk.

The Haines Junction interface zone includes a portion of the Kluane Park. It is in the High Wildlife area in Priority Class 3. The treatment for this area may be postponed until an agreement on the accommodation of park values is concluded.

Table 1 Forest Resource Management Zone: Rank of Area Priorities

Fuel abatement and Timber Harvesting should be planned according to the following priorities to address fire risk.

Zone	Rank Priority	Priority/Strategy
Fuel Abatement area: Community Zone	1st	Priority: Fire hazard reduction through fuel management. Strategy: Community Plan to determine the activities used to reduce fire hazards. Options include activities like Fire Smart and logging, firewood collection.
Fuel Abatement area: Interface Zone outside High Wildlife Values area	2nd	Priority: Fire hazard reduction through fuel management is the priority in this zone. Strategy: Focus on intensive and extensive management of fuels within 2 kilometres of a community. Primary option includes logging. Site plan may include partial retention.
Fuel Abatement area: Interface Zone inside High Wildlife Values area	3rd	Priority: Fire hazard reduction through fuel management is the priority in this zone. Strategy: Focus on intensive and extensive management of fuels within 2 kilometres of a community. Primary option includes logging of beetle attacked trees. Site plan may include partial retention.
Fuel Abatement area: Landscape Zone outside of High Wildlife Value area	4th	Priority: Fire hazard reduction through fuel management, and integration of other values of equal priority. Strategy: Timber harvest and fuel abatement should be emphasized in areas. Apply THPOG for areas sensitive for wildlife and cultural values.
Fuel Abatement area: Landscape Zone in High Wildlife Value area	5th	Priority: Extensive management for a wide range of values, including fuel abatement, wildlife habitat, and commercial forestry values. Strategy: Fuel abatement and wildlife habitat values are a higher priority in these areas, but recognition that forestry activity can occur with THPOG and specific ILP guidelines. Focus timber harvest activities on stands severely affected by the spruce bark beetle and requiring minimal new access development.

3.0 COMMUNITY DESCRIPTION

3.1 Location

The community of Haines Junction is at the intersection of the Alaska Highway and the Haines Highway adjacent to the Kluane Park. The Dezadeash River borders the community zone to the south and west. It is 150 kilometres west of Whitehorse on the Alaska Highway (Map 1)

3.2 Forest Environment

The orthophotograph of the Haines Junction community (Map 3) gives a good overview of the forest environment. It shows the forest vegetation types, private lot lines, the buildings and the transportation infrastructures, power lines and the river passing through and near the community. It also shows the recent agriculture development to the northeast of the community zone.

The RATWG provided input to the SFMP and the ILP identified all of the forested area in the Haines Junction area. Some were classified as having high wildlife values; others were not (Map 2).

The key forest factors that influence fire risk are:

a) The Fuel

The forest within the Haines Junction community zone is a mixture of evenaged pure spruce patches through to pure trembling aspen patches, including mixes of the two primary types. The timber with the highest fire risk is the spruce leading species types. The predominantly spruce forests show as darker zones on the orthophotographs.

There is a larger incidence of spruce bark beetle-killed timber in the Haines Junction community and interface zone area, therefore the incremental fire risk caused by a high component of spruce bark beetle-killed spruce trees within the conifer timber areas is considered relatively high.

The largest influence that the Haines Junction community members can have on fuel abatement is to reduce the fuel on the areas around their homes (see Section 5.1 a).

b) The Weather

The weather conditions in Haines Junction are similar to those in Kluane National Park and Reserve. Because of its location north of the 60th parallel, winters in Kluane National Park and Reserve are long and dark (as few as four hours of light each day). Summers are generally warm, with long hours of daylight (up to 19 hours). The mean temperature is 11° Celsius in June and minus 21°C in January. At higher elevations the temperature is generally colder and weather is less predictable. Frost may occur at any time of year, and by the end of October there is ice on many of the lakes.

Historically, Haines Junction has few days during the fire season that are high fire hazard. Still, it only takes one day with a high fire hazard to cause concern about this kind of event.

Current weather information is available online at www. weatheroffice.gc.ca.

c) The Topography

The terrain in the community zone is relatively flat. There are steep banks rising out of the rivers, but these features are short so do not present a huge fire momentum risk. Where houses are built on slopes, next to Pine Lake for example, there is a potentially increased risk as shown in Figure 4.

Figure 4: Steep Slopes with more fuels increase risk

3.3 Fire History

Haines Junction has had only two to five fires per year in the last forty years. Still, with the climate changing and the potential for increased spruce bark beetle infestations, the wildfire risk is higher.

The cause of fire is generally from one of a few sources. One is human, a second is nature (as in lightning strikes), and a third is from infrastructure breach incidents in or near the community.

3.3.1 Human

Residents have the greatest potential for causing a fire through their own activities – such as careless handling of cigarettes, welding, operation of equipment, etc. – within the community zone.

Tourist camping and hiking activities along the Alaska Highway or the Haines Highway presents a significant risk of wildfire ignitions; e.g., Fox Lake Fire, 1998. Campfires pads must have buffer pits located near flammable fuels to reduce unnecessary risk. The travelling public's confusion about fire danger levels and compliance with campfire restrictions, suggests tourists must be warned of any high fire hazard conditions in the area and be advised about appropriate precautions when camping.

3.3.2 Nature

The greatest natural hazard may be lightning striking a target like a dead spruce tree that protrudes above the rest of the forest and acts like a lightning rod. This event could happen in any zone, but removal of these taller dead trees within the community and interface zones are the highest priority to reduce the risk significantly.

3.3.3 Infrastructure

Resident service power lines are significant wildfire ignition risks in the Haines Junction area, especially where dead trees at the edge of the power line can fall over and cause the line to break and cause a fire. Power lines to homes are susceptible to shorting when overgrown by vegetation. Wildfires have occurred in recent years (1999) in Marshall Creek to the east due to trees being blown over power lines. Resident power lines and right-of-ways must be actively cleared and/or maintained.

In the community, the interface and the landscape zone, a main power line runs west to east through the north side of Haines Junction. This line should be the focus of regular vegetation maintenance to reduce risk.

Regular burning of waste dump sites poses a hazard, especially if it is not monitored during high fire hazard periods. Burning pits should have a 30-metre clearance around them (Ember 2000).

3.4 Fire Suppression Capability

The Haines Junction community has more capability to fight fires than any other in the CATT area. It has a wildfire response centre within 5 kilometres, run by Yukon Wildland Fire Management that will come to the aid of the Haines Junction community. There is a helicopter base and an airstrip for aircraft support for ground fire suppression crews and equipment.

Haines Junction has a volunteer fire department, with staff trained in first aid and CPR. The Champagne and Aishihik First Nation also has a fire hall equipment.

Fire suppression water supply appears to be readily available in all areas of the community and interface zones through lake, creek, or river water sources. Also, a hydrant system exists in the community of Haines Junction. Supply points must be documented on a map for ease of use.

Movement of some fire fighting equipment is facilitated by the Alaska Highway, the Haines Highway, and a system of trails and rough track roads throughout the area that will facilitate (see Map 3 for water supply and access locations). The access for emergency vehicles varies but is generally poor for conventional structural fire response vehicles outside of the community zone.

4.0 FUEL ABATEMENT APPLICATION

The fuel abatement area of Haines Junction has been broken into five zones, consistent with the Integrated Landscape Plan. The zones are to assist prioritizing treatments based on values at risk to the community and to give guidance to other activities such as harvesting. Table 1 describes the zones and Map 2 shows where they are in the community.

The fuel abatement part of this plan focuses on the forests in the community zone and the interface zone. These forests have been inspected to determine their stand composition and fire behaviour characteristics. The treatment prescriptions need to follow the guidelines in this document to meet the objectives outlined in Section 2 above.

Community zone fire hazard assessments should be organized through the FireSmart Partnerships in Protection program. The prescriptions would be to match the first three objectives of the FATWG guidelines – reduce fire hazard.

Interface zone assessments and treatments will be focused on reducing fire hazard, but also focus on providing improved forest health and wildlife habitat. This zone will focus more on objectives 4 and 5 of the FATWG guidelines. These areas are larger, and a greater distance from the community; logging will be the primary method of treatment. Section 6.3 describes a general prescription.

In the landscape zone, beyond the interface zone, fuel abatement is best carried out with logging the dead timber stands, with residual branches and fine fuels disposed of during operations.

The Yukon government has also developed new agriculture areas east of Haines Junction. These areas will be generally cleared of tree vegetation and have little fire risk.

Isolated small patches of coniferous trees surrounded by aspen groves offer a lower risk of a fire spreading beyond these patches. The aspen form a fire break of inflammable material to contain a fire. These patches would be treated later than higher priority areas, especially if there are no values at risk identified.

The assessment detail within each priority zone must match the fire hazard risk, the cost of the application, and the funding available, but still must meet the fire hazard reduction target. Areas with lower risk will need less survey and assessment detail.

5.0 STRATEGY

The information in Section 4 provides the basis for a strategy for Haines Junction to reduce fire hazard based on a risk assessment of the areas of the community. Priorities are assigned to each area, first in the community zone and then the interface zone, and finally into the landscape zone, to determine which treatment should be done first. Time and money resources will not allow all risk areas to be treated concurrently.

5.1 Community Zone Strategy

The community zone strategy is largely based on the application of the FireSmart program. FireSmart's aim is to prevent or reduce fire hazards near homes and within the community. Community members whose homes have had a FireSmart assessment learned what the fire hazards around their homes are, and what they needed to do to remove or manage the risk. From this, they have a better understanding of the hazards in the larger community and the need to reduce these hazards. Keep in mind that some measures may not be suitable or may need to be modified for each property.

Priority of treatment should be based on values at risk, level of fuel loading, and risk of ignition. A higher priority should be placed on treating areas easily reached by roads or trails that are well used by people, as people can be the biggest risk for ignition.

a) Fuel Abatement a Around Structures in the Community Zone

A building will not burn if fires are prevented from getting near it. Removing ground fuel such as needles, leaf litter, and branches, which burn very quickly and very hot, will reduce the risk that a fire will cause the building to burn. As long as larger fuels such as logs and tree trunks are removed from the areas surrounding the building, the fire will not spread from the ground to the trees.

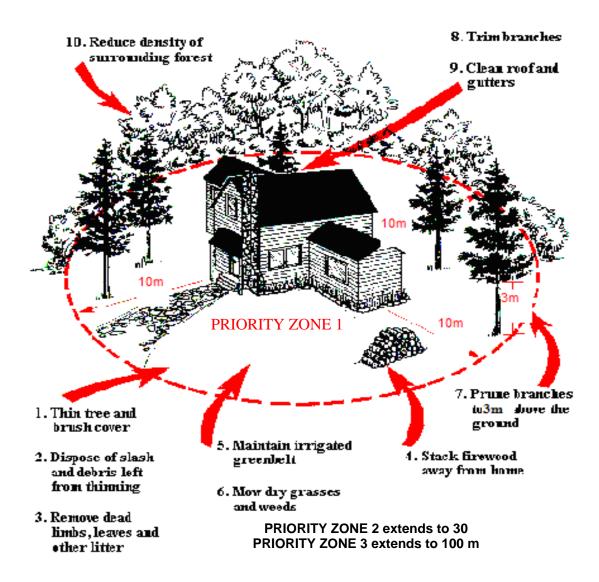


Figure 5: Home Ignition Zone/Priority Zones 1 and 2

There are three Priority Zones (PZ) around each building. Priority Zones 1 and 2 are illustrated in Figure 5. The recommended Fuel Hazard Abatement treatments for each are:

Priority Zone 1

This applies to the area immediately beside a building extending outwards in all directions up to 10 metres on flat ground. This can increase to 30 metres or more on steep slopes. This zone will ideally be fuel free with a defensible space that firefighters can prevent fires spreading between buildings and the tree line.

Vegetation management practices include:

- 1) Remove all flammable plants within 10 metres of home or convert to fire resistant species [deciduous trees (aspen), low shrubs, annuals, etc.]
- 2) Space plants to three metres apart.
- 3) Remove deadfall, dry brush and ground litter.
- 4) Remove very old, dead, and dying trees with potential to fall over or ignite. Remove or cut stumps level with the ground.
- 5) Steep slopes (i.e., greater than 15%) with trees increase the hazard to structures (i.e., placement at top of slopes), so increase the space of plants to 30 metres (see Figure 5).
- 6) Prune any evergreen trees remaining within this zone to three metres above the ground with pruning shears and remove the cuttings.

• Priority Zone 2

The area circling a building starting at the end of Zone 1, at 10 metres and extending out to 30 metres. This zone will become an area that should not support crown fires. Surface fires may spread across this zone but will be of low intensity and easily extinguished. Fuel reduction rather than removal is the main strategy. Suggested plant management practices:

- Thin forest tree crowns to tree crown separation of at least three metres. Leave larger deciduous trees and thin less at edges of windexposed stand faces.
- 2) Remove older, dead and dying coniferous trees.
- 3) Prune conifers to a height of at least two metres. If some are to be left they should not be grouped or in contact with mature trees.

• Priority Zone 3

This area starts where Zone 2 ends, extending out to one hundred metres and beyond if needed. Fuel management actions would only be applied if there were high hazard levels resulting from significant fuel loading and steep topography, and fuel management in Zone 2 does not reduce the hazard. Fuel management options would be the same as Zone 2.

 Fuel Abatement Away from Buildings within the Community Zone and in the Interface Zone

The areas away from buildings have fewer valuable items that could be lost, and have less exposure to people, and are at less risk for fire starting. Thus, they are second priority for fire hazard abatement procedures. They are more important than the more remote forested areas because of a greater exposure to risk of ignition by people and have potentially more significant impact on the community zone values at risk.

The Partners in Protection FireSmart recommends vegetation management should be done by the homeowner to minimize fire risk. Each resident must decide what level of treatment they feel is desirable.

5.2 Interface Zone Strategy

The interface zone fuel abatement treatments will be prescribed using the inventory assessment to identify which areas have the highest risk. Those areas will be treated first. A further selection criteria includes ease of suppression if a fire was to start. Highest priority treatment sub-zones will be those that have:

- a) Higher values at risk
- b) Frequency of use by people
- c) More spruce bark beetle-infested timber
- d) More ground fuels including evergreen understory vegetation
- e) Accessibility by vehicle or equipment
- f) Access to water

The priority ranking in the ILP notes that high wildlife value areas in the interface zone should be set as a lower priority for treatment than other interface zone areas. High wildlife forests are more important for their contribution to wildlife habitat and thus should receive less tree removal in prescriptions than other non-high wildlife areas. The FATWG fifth guideline in Section 2 states that high wildlife areas are:

"To keep a forest structure and composition that will respect values for wildlife, ecosystem function, scenic beauty and cultural aspects as much as possible without giving up community safety."

Most treatments will include some form of logging. Treatments will include fuel abatement by:

a) Thinning dense stands of trees: Changing the horizontal and vertical structure of the forest stand to a more open condition by removing all the large trees leaving only the smaller healthy trees or by removing

all the small trees leaving only the larger healthy trees, or spacing trees three to five metres apart. In all cases the remaining trees must be able to withstand increased wind thus avoiding timber being blowdown.

- b) Patch cutting and thinning: Removing all conifers in a selected area, varying in size from 0.2 ha to 10+ hectares, with the objective of breaking up the continuity of canopy cover and leaving small patches of well-spaced trees within these patches.
- c) Clear-cutting with reserves: Removing a strip of larger trees leaving only small islands of trees so that fire is less likely to jump across the harvested area to start a new fire inside the protected area.

5.3 Landscape Zone Strategy

The landscape zone strategy will be similar to the interface zone strategy. Harvesting areas will be selected based primarily on incidence of spruce bark beetle-infested and killed timber being near ready access or near features such as power lines where the likelihood of fire starting is a concern. Harvest patterns will fit integrated resource management objectives as set out in the SFMP, the ILP and the Timber Harvesting Planning and Operational Guidebook (THPOG).

Landscape zone treatment within the Kluane Park area will be managed with the additional constraint of meeting park objectives.

6.0 EMERGENCY RESPONSE PLAN

All fuels and risks will not be removed from any area in Haines Junction. There are not the resources or the capacity to reduce the fire hazard to zero.

The previous sections focussed on a strategy of reducing the risk of fire starting and fuel abatement strategies. The community also needs an emergency response plan (ERP) to suppress a fire if one has started in the community or the interface zone. Any fire in the landscape zone will be the addressed by the YWFM.

The primary mutual aid partner in the event of any wildfire is Yukon Wild land Fire Management. Haines Junction is located within the Critical Fire Management Zone and would receive immediate response from YFM. Average flight time for air tanker response in high hazard conditions would be anticipated to be more than 40 minutes. Ground crews in rotor wing aircraft could support from the local Haines Junction base and/or Whitehorse.

Getting the full force of the YWFM team onto a fire is expensive. It is not necessary if a community force can suppress the fire before a larger force is necessary. An appropriately equipped and trained community team with a well-constructed emergency response plan can save damage and cost of suppression.

6.1 Organization

The organization of the ERP would include Haines Junction community's one volunteer fire department hall with equipment capable of responding to local fire emergencies. Activities and preparation should be under the guidance of the YFM manager in Haines Junction.

Haines Junction needs to have one community fire coordinator and central contact. There needs to be an approved plan – preferably provided through guidance by YFM – and a communication protocol established. Volunteers would be trained and supported by the YFM. Haines Junction and the CAFN could maintain the hall and equipment.

Wildfire suppression capabilities would be focussed on initial attack response procedures. They would have to know when to call the YFM coordinator and when to call for major help if they cannot control the blaze. All effort should be made to control wildfires by 10:00 a.m. of the morning following discovery. Controlling a fire after this time is less likely to succeed because increasing winds and heat of the day will add energy to the wildfire.

6.2 Maps

A visual aid to locate key protection tool locations needs to be made for speedy access. A map should be developed to show:

- a) Location of fire fighting equipment
- b) Access roads to reliable water sources
- c) from within the community, and
- d) vehicles coming from outside the community
- e) Local fire hazards
- f) Sensitive features to be protected

6.3 Communication

Haines Junction community members need to know current fire abatement team contact numbers in the event of a fire. Anyone in the community should be able to alert the Haines Junction Fire Coordinator, or an alternate person, and the YFM authorities of the fire, and initiate the fire response system.

YWFM provides Fire Weather Index signs at the entrance to Mendenhall and in the village of Haines Junction. The fire danger rating can be found at http://www.community.gov.yk.ca/firemanagement.

Fires can be reported at:



7.0 IMPLEMENTATION

Once the strategy is approved, the community needs commitment from all members and agencies involved for the fuel abatement plan to succeed. Commitment can be achieved through:

- 1) Awareness of the need for everyone to be involved in the plan.
- 2) Participation in the promotion of the plan.
- 3) Completion of fuel abatement on private properties. Individual property owners need to do as much as they can to protect their own spaces and, at the same time, protect neighbouring areas.
- 4) Awareness of critical weather conditions.
- 5) Participation in the implementation of any joint initial fire suppression action.

The community needs to work with CAFN and the YG agencies. YWFM is the key government agency in fire protection. Their assistance and experience working with community participation is critical. Together, their combined efforts will make the whole community much safer.

The implementation of the fuel abatement plan will require the reviewing of fuel load information in the community zone and the interface zones. It will require the application of the fuel abatement strategies identified to meet the goals set out in the ILP and FATWG guidelines. It will also require the establishment of an emergency response plan and organization to respond to fire incidents.

In the community zone, as recommended by the Partners in Protection FireSmart Program, vegetation management should be done by the property owner to minimize fire risk. Each owner must decide what level of treatment they feel is desirable.

In the interface zone, community leaders need to select and organize people to be in charge of carrying out the work needed to be done to implement the plan. They will need to work with YWFM to decide how to carry out their list of activities to activate the fuel abatement plan.

In the landscape zone, YWFM and CAFN will take the lead role, but will coordinate plans with community leaders.

In the Kluane Park, the Kluane Park managers would take the lead role with the assistance of the YWFM and CAFN.

To ensure full coordination of the fuel abatement strategies:

- 1) All plans must be referred to local CATT and Yukon government resource managers. The guidelines set out in the THPOG are suitable for referral to other resource agencies with mandates in the CATT area.
- 2) Yukon government (Wildfire Management and Forest Management Branch

8.0 MONITORING AND MAINTENANCE

The Fuel Abatement Plan treatments need to be monitored and maintained to ensure its maximum effectiveness. An annual report should be prepared and shared with the community.

The annual report should include:

- 1) Treated areas recorded on maps and monitored.
- 2) Monitoring protocols should be instituted for success and failures of actions taken. The Research and Monitoring Technical Working Group have proposed one that could be implemented.
- 3) An update of priorities for the next year.

The community leaders, the CAFN, and the YFM should have active parts in this part of the plan.

9.0 FUNDING

Funding is unlikely to provide for treating all the community's needs at once. Haines Junction members will need to work with the YG and CAFN to find funding to implement the plans.

Community zone FireSmart treatments should be done by the property owner.

Interface zone treatments should be more extensive and cost less per hectare. The treatments are most likely to be done through commercial operations.

Landscape zone areas should primarily be completed by commercial operations. Logging for fire wood or sawmill timber supply should provide some or all of the treatment funding where that is done.

Non-commercial treatments will have to be funded from other sources.

ACRONYMS

CATT Champagne and Aishihik Traditional Territory

CAFN Champagne Aishihik First Nation

CFB Crown Fraction Burned
CS Community Services
CZ Community Zone

ERP Emergency Response Plan

FAP Fuel Abatement Plan

FATWG Fire Abatement Technical Working Group

FBP Fire Behaviour Prediction FMB Forest Management Branch

FWI Fire Weather Index

ILP Integrated Landscape Plan

IZ Interface Zone LZ Landscape Zone

RATWG Research and Technical Working Group SFMP Strategic Forest Management Plan

THPOG Timber Harvest Planning and Operating Guidebook (DIAND 1999)

YG Yukon Government

YWFM Yukon Wildland Fire Management

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APPENDICES

Map 1: Map 2: SFMP Overview Map showing all communities relative to one another.

ILP Priority Zones

Haines Junction Community Description Map Priority Treatment Stands . Map 3:

. Map 4:

