







Saskatchewan's Wildland/Urban Interface

Every year, communities and other structures are threatened or destroyed by wildfire. Evacuations of people threatened by fire or smoke is almost an annual occurrence. Unfortunately, living in the wildland/urban interface means living with fire.

People who live in a wildland/urban interface area are responsible for protecting their homes and property from the risk of wildfire. By doing this, municipal and provincial firefighters will have a better chance to prevent or reduce losses when a wildfire occurs.

The Wildfire Hazard Assessment System

The Wildfire Hazard Assessment System has two components. A Structure and Site Hazard Assessment Form helps you evaluate building and adjacent site characteristics up to 30 m from the structure. An Area Hazard Assessment Form assesses site characteristics greater than 30 m from the building itself (Priority Zone 3). Completing both portions of the Wildfire Hazard Assessment Form provides a complete assessment of the fire hazard a property is exposed to, from the perspective



of the general area, local site and the building itself.

The Area Hazard Assessment Form assesses five factors that influence potential fire behaviour. Each factor gets a point rating for the degree of fire

hazard it contributes. For each factor on the form, there is a choice of three point rating selections. To calculate the hazard level for the area, add the individual point rating scores for each factor. Use the rating scale at the bottom of the form to determine if your hazard is low, moderate, high or extreme.

		re and Site I Bold-faced numbe		essment Form zard score)	
		ard Characteri			Score
1	Roofing Material: The roof is most building. Use only fire-retardant roof co denote the relative combustibility of th denotes higher combustibility. Install r of overhangs (soffits) built of combust	overing assemblies rate ne exterior roofing su oofing material to pro	ed Class A, B or C in rface – Class A deno eclude entry of flame	interface areas. Roofing classifications tes lower combustibility; Class C es and embers. Enclose undersides	
	Metal, tile asphalt, ULC-rated non-combustible materia		Unra	ted wooden shakes (+30)	
2	Roof Cleanliness: Accumulation of c	combustible debris (le	aves, needles) on a	roof increases fire risk.	
	No combustible material (0)		ustible material, depth (+2)	Clogged gutter, combustible material, >1 cm in depth (+3)	
3	Building Exterior: With the exception Where the siding material is combustil material from the building exterior.			ural component most vulnerable to fire. lear vegetation or other combustible	
	Non-combustible stucco or metal siding (0)	Log, heavy t	imbers (+1)	Wood or vinyl siding or wood shake (+6)	
4	Eaves, Vents and Openings: While soffits and crawlspaces, they also can a rafter ends unenclosed by fascia and s exposed to heat and embers. Under-e hazard as heat and embers travel up e located and screened with corrosion-r	allow heat and ember offits) increase structu ave soffit vents placed exterior walls and dire	rs to enter a building ural fire hazard becau d close to the exterio ctly into soffit vents.	use more of the under-eave area is or wall also increase structural fire	
	Closed eaves, vents screened with 3 mm mesh and accessible (0)		nts not screened mesh (+1)	Open eaves, vents not screened, debris accumulation (+6)	
5	Balcony, Deck or Porch: Outdoor liv unwilling to eliminate the stilt construct trapping heat rising along the exterior s the defensible space requirement of 20	tion and overhangs of iding. IMPORTANT N	f decks and balconies OTE: Decks and balco	, despite the fire hazard they create by	
	None, or fire resistant material sheathed in (0)		le material, d in (+2)	Combustible material, not sheathed in (+6)	
6	Window and Door Glazing: Windo that allows firebrands to enter the buil fuels within 10 metres of windows and more vulnerable to fracture and collap pane windows are more fracture- and safety than plate glass does. But it is ur	ding so that it burns f glass doors. Large win se than smaller windo collapse-resistant thar	rom the inside. Avoi ndows, often used in ows or multiple-pane n are single pane win	d having concentrations of vegetative interface homes to maximize view, are windows. Triple or double (thermal) dows. Tempered glass provides more	
	Tempered (0)		all/Medium (+1) (+2)	Single Pane: Small/Medium (+2) Large (+4)	
7	Location of Woodpiles and Comb wooden storage shacks are all serious of fuel farther from the building. IMPC trellis) should be included in the asses	fire hazards. Homeow DRTANT NOTE: Any c	vners are urged to cl	ean up or relocate such accumulations	
	None or >10 metres from structure (0)	3 – 10 metres fro	m structures (+3)	<3 metres from structures (+6)	
		evel surface. Structure les or they will be esp	s located on a slope	and the rate of spread. Fire will burn must feature entirely non-combustible fire. Structures located at the crest of	
8	a hill can be protected somewhat by s	etback provisions.			

9	Forest Vegetation (Overstory): Crown forest fires present a significant hazard to adjacent buildings. Buildings may ignite by radiant heat transfer when the fire is burning all around it, or when firebrands land on the building before the wildfire arrives. Crown fire is more likely to occur and spread rapidly in dense coniferous forests than in mixed-wood or deciduous forests.							
		Deciduous	Mixed wood		ferous			
	<10 metres 10 – 30 metres	(+3) (+1)	(+10) (+5)	Separated (+15) (+10)	Continuous (+ 20) (+ 15)			
10	Surface Vegetation: Surface vegetation includes grasses, herbs, shrubs, dead and down woody debris (logs, branches, and twigs), and immature trees up to 2.5 metres in height. Concentrations of surface fuels will sustain high-intensity surface fires and can initiate crown fires.							
		Lawn or noncombustible	Wild grass or shrubs	Dead or Down W				
	.10 motros	material	(+ 5)	Scattered	Abundant			
	<10 metres 10 – 30 metres	(0) (0)	(+5) (+3)	(+5) (+3)	(+15) (+10)			
1	Ladder Fuels: Ladder fuels are give surface fires a pathway to the fire development. <10 metres 10 – 30 metres			duces the likelihoo				
	To Sometics			al Score for Fac				
				ture and Site H				
	HAZARD LEVEL Low <21 P	Points Moderate 21-29	Points High 30-35 Poi	nts Extreme	>35 Points			
		Area Hazard and	d Assessment Fo	orm	>35 Points			
12	Fire	Area Hazard and Hazard Characterist	d Assessment Fo	orm	>35 Points	Sco		
12	Fire Forest Vegetation (Overstor	Area Hazard and Hazard Characterist ^{y)}	d Assessment Fo	orm ngs		Sco		
12	Fire	Area Hazard and Hazard Characterist	d Assessment Fo	orm ngs Coniferous		Sco		
12	Fire Forest Vegetation (Overstor	Area Hazard and Hazard Characterist ^{y)}	d Assessment Fo tics and Point Rati	orm ngs Coniferous	5	Sco		
	Fire Forest Vegetation (Overstor Deciduous	Area Hazard and Hazard Characterist y) Mixed w	d Assessment Fo tics and Point Rati	orrm ngs <u>Coniferous</u> arated	s Continuous	Sco		
	Fire Forest Vegetation (Overstor Deciduous (+3)	Area Hazard and Hazard Characterist y) Mixed w (+10	d Assessment Fo tics and Point Rati	orrm ngs <u>Coniferous</u> arated	s Continuous (+ 20)	Sco		
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Structure and Site Hazard Level

HAZARD LEVEL Low <21 Points

Moderate 21-29 Points

I-29 Points High 30-35 Points

Interface Fire Emergency Planning

An emergency fire plan will reduce the risk to life and property in the event of a wildfire. Municipalities are required by law under the *Emergency Planning Act* to establish emergency plans, but emergency planning should not be limited to municipalities. In order to be better prepared for a wildfire emergency, it is critical for individual home owners, commercial outfitting lodges and industrial sites to develop plans that focus on preparing for a fire threat.





One of the first steps in ensuring that fire emergency concerns are adequately addressed is to quantify the interface

fire concerns in and near your property or home. The hazard assessment forms found within this handout on pages three and four will help determine your current level of risk and identify where hazards exist. Using this information, you can take steps to reduce these hazards. Points to consider when developing an emergency plan include:

- emergency warning system
- evacuation routes determined and everyone is aware of them
- transportation requirements
- location of pick-up points, meeting areas and evacuation centres
- list of items you want to take with you
- know power and gas shut off procedures
- emergency contact list
- determine who is responsible for key areas
- pet and livestock care
- fire insurance

Fire Prevention Checklist

Create a safety zone around your home. Reduce the forest density by thinning and pruning vegetation within 10 metres of your home. Trees should be thinned so there is at least four metres between the branches of one tree to the next. Branches should also be pruned to a height of three metres from the ground. All surface litter should be cleaned up within this area. This will help prevent a high intensity fire from reaching your home.

2 Ensure you have a firewise roof. Roofs are the parts of a home most vulnerable to fire. Wind-driven burning embers land on the roof

well in advance of a fire. Make sure your roof is clean of all debris and shingles are made of a fire-resistant material. A cedar shake roof with pine needles on it is like having a stack of dry kindling on your roof. Eavestroughs full of leaves and other debris should be regularly cleaned.

3 Make sure you have the basic fire suppression tools on hand. Interface fires often start as small accidents. Timely action by properly equipped residents can make the difference between a fire that escapes or is quickly controlled. A round-point shovel and a grubbing tool should be accessible from outside the home. A connected garden hose that is long enough to reach around all buildings and onto the roof will help the homeowner protect the house. A 205-litre (45 gal.) water container with a 10 litre (two gal.) pail should also be available. A ladder to access the roof and a sprinkler are useful for wetting down the roof if a forest fire is advancing on the home.

Check your roads and driveways.

Can you get out quickly and can emergency vehicles get into your home? Is your driveway properly signed to help firefighters find your home? Access roads should be 7.5 metres wide by 4.5 metres high to ensure access by firefighters. If your home is more than 45 metres off the road, an alternate access should be built. Should your main access become blocked, this will give you more than one way of getting out.

5 Identify possible ignition sources and develop a FireSmart plan.

Chimneys should have a spark arrester cap and extend 0.6 metres above the peak of the roof. Chimneys should be at least three metres from any vegetation. Burning barrels and fire pits should be properly constructed and screened. Refer to the next page for proper burning barrel and fire pit design. Check your power lines for branches or trees that may fall on the lines and call the power company to remove any problem branches.

6 Develop a wildfire safety plan.

Take the lead role in developing a plan for your own property and for your community. Work with your neighbors to create a FireSmart community.

Get more information. Call your local municipal fire department or contact the nearest SERM Forest Protection Area office. They can supply you with more information about lowering risks to your property and how to be better prepared for when a fire does occur.



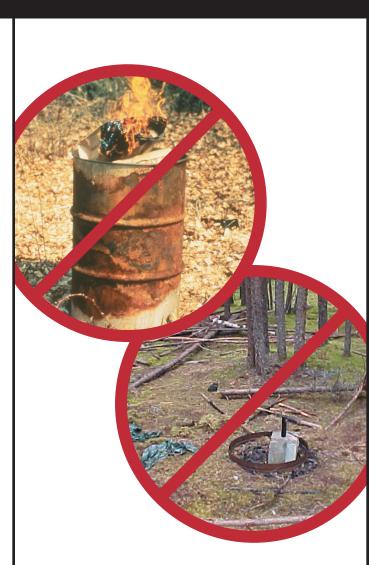
Burning Barrels and Fire Pits

Burning barrels and fire pits should be screened with a mesh size between 8 to 16 mm wide to prevent embers from escaping and igniting a new fire. Barrels should be wired to metal stakes to prevent them from being blown or tipped over. Fire pits should be less than 1 metre in width.

A proper burning barrel or fire pit should be:

- located at least three metres from any log, stump, snag or standing tree
- located at least 15 metres from any flammable building, slash or flammable debris
- surrounded by a metre-wide mineral soil strip with all leaves, twigs and other flammable materials removed.

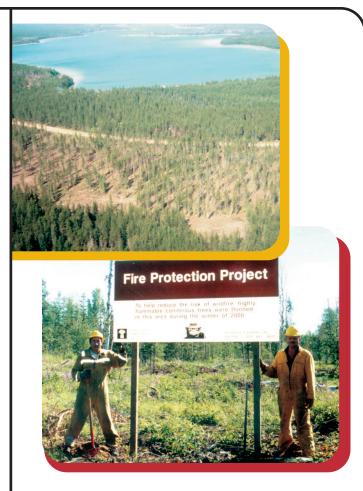
FACT: Burning barrels and fire pits are the cause of many wildland urban interface fires. By following these simple guidelines, you can help to reduce them.



ABOVE ARE TYPICAL EXAMPLES OF A BURNING BARREL AND A FIRE PIT THAT ARE LIKELY TO CAUSE A WILDLAND/URBAN INTERFACE FIRE. BURNING RECEPTACLES SHOULD BE CONSTRUCTED IN A WAY THAT WILL NOT ALLOW YOUR FIRE TO ESCAPE.

Community Protection

Managing forest fuels around communities is an effective way to reduce the risk from wildfire. In most cases, provincial and local fire departments will be able to control a wild fire. However, when conditions are right, a small smoke can quickly turn into a fast moving grass fire or move into the treetops. By removing high hazard fuels next to the community, fires lose intensity and give suppression crews a better chance to control the blaze.



ABOVE ARE TWO EXAMPLES WITHIN MEADOW LAKE PROVINCIAL PARK WHERE FOREST FUELS HAVE BEEN THINNED IN ORDER TO HELP PROTECT COMMUNITIES.

To Report a Wildfire, call 1-800-667-9660

For More Information Regarding:

- details about how you can protect your home and property
- information on FireSmart construction for developers and homeowners
- home and community fuel management options
- home and community risk assessments
- wildfire training

Contact your local SERM Forest Protection Officer or the Provincial Education and Prevention Coordinator at: 1-306-953-3245

Or visit our web site at: www.serm.gov.sk.ca/forests/fire/



