



# Hazard Resilience Index (HRI)

## Fires

Brush, Bush and Grasses Fires  
 Forest Fires or Wildfires  
 Peat Bog Fires  
 Urban/Structural Fires  
 Wildland/Urban Interface Fires

### Fires

Please refer to the *Hazard Resilience Index Instructions (HRI)* document for more information on using this document.

Note that since significant fires can lead to extensive air pollution from the smoke, communities at risk from fire should refer to the “Contamination” guide.

### Brush, Bush and Grass Fires <sup>1 2 3</sup>

Hazard Resilience Rating      High Resilience       Low Resilience       Need More Info       Not Applicable

Yes	No	Need More Info	Not Applicable	FACTORS	This factor is important to my community
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Before issuing a permit for any prescribed/controlled burns there have to be adequate plans to avoid the fires becoming uncontrolled including scenarios of high winds.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Community-based brush, bush and grass fire exercises have taken place in the community-at-large (e.g., table-top or full-scale exercises)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residences and all businesses have smoke detectors and fire extinguishers on each floor of the building	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents and businesses have cleared flammable vegetation (e.g., dried grass) within 10 metres of structures and cleared all combustible material (e.g., firewood, debris under porches) within 10 metres.	<input type="checkbox"/>



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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have burn barrels located well away from their homes and have proper ventilation and screens.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have covered building vents and chimneys with wire mesh to prevent flying embers from entering or leaving the home	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have home fire evacuation plans and have tested them.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have homes that do not have single-paned glass and have metal, clay tile and asphalt shingles with outer surfaces of stucco, metal, brick and concrete which offer superior fire resistance to wildfire or logs and heavy timbers (wood and vinyl siding offer very little protection).	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have shovels, rakes, axes, garden hoses, sprinklers and roof ladders to assist in suppressing brush, bush and grass fires.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residents have been educated regarding FireSmart principles and have completed the British Columbia Ministry of Forests' <i>Homeowners FireSmart Risk Assessment</i> (2003).	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community and Parks Boards have policies in place to ban outdoor fires and to advise residents and visitors about these fire bans.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has cleared and pruned flammable brush, bushes and grasses in an extensive zone around the community core.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has developed designated evacuation routes.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has signage posted (which include the appropriate phone number) encouraging residents and visitors to report any fires which are observed no matter where they are spotted.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community requires new construction to be built using fire-resistant building materials and to have sprinkler systems.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Fire Department checks frequently with fire risk monitoring and weather forecasting agencies such as the Canadian Wildland Fire Information System, provincial/territorial fire agencies and Environment Canada.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Fire Department conducts programs (e.g., such as <i>Learn Not To Burn</i> ) within schools and with youth to prevent arson/fire setting.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify community residents and businesses of a potential brush, bush or grass fire and how to prepare for it.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify police, fire and ambulance personnel of a potential brush, bush or grass fire	<input type="checkbox"/>

Forest fires or wildfires <sup>4 5 6</sup>

<b>Hazard Resilience Rating</b>	High Resilience <input type="checkbox"/>	Low Resilience <input type="checkbox"/>	Need More Info <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
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Yes	No	Need More Info	Not Applicable	FACTORS	This factor is important to my community
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Before issuing a permit for any prescribed/controlled burns (e.g., slash burning) there have to be adequate plans to avoid the fires being uncontrolled including scenarios of high winds.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forest fighting organizations have held forest fire exercises with scenarios including forests near the community (e.g., table-top or full-scale exercises)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forestry practices around the community are sustainable and ecologically sound.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forestry practices reduce the amount of forest fuel build-up.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community and Parks Boards have policies in place to ban outdoor fires and to advise residents and visitors about these fire bans.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Fire Department conducts programs (e.g., such as <i>Learn Not To Burn</i> ) within schools and with youth to prevent arson/fire setting.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The forested area around the community is covered by a real-time Lightning Detection Network (providing immediate feedback on local lightening) and the Fire Department has access to the information to plan for potential forest fires.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify community residents and businesses of a potential forest fire and how to prepare for it.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify police, fire and ambulance personnel of a potential forest fire	<input type="checkbox"/>

Peat Bog Fires <sup>7 8 9</sup>

<b>Hazard Resilience Rating</b>	High Resilience <input type="checkbox"/>	Low Resilience <input type="checkbox"/>	Need More Info <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
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Yes	No	Need More Info	Not Applicable	FACTORS	This factor is important to my community
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Before issuing a permit for any planned controlled burns residents have to demonstrate adequate plans to avoid the fires being uncontrolled, including scenarios of high winds.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Community-based peat bog fire exercises have taken place in the community-at-large (e.g., table-top or full-scale exercises)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has banned all fires in and around peat bogs.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community protects all peat bogs and does not allow any water to be drained from the peat bog.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Fire Department conducts programs (e.g., such as <i>Learn Not To Burn</i> ) within schools and with youth to prevent arson/fire setting.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify community residents and businesses of a potential peat bog fire and how to prepare for it.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify police, fire and ambulance personnel of a potential peat bog fire	<input type="checkbox"/>

Urban Structural Fires <sup>10 11 12 13</sup>

<b>Hazard Resilience Rating</b>	High Resilience <input type="checkbox"/>	Low Resilience <input type="checkbox"/>	Need More Info <input type="checkbox"/>	Not Applicable <input type="checkbox"/>
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Yes	No	Need More Info	Not Applicable	FACTORS	This factor is important to my community
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Community-based urban structural fire exercises have taken place in the community-at-large (e.g., table-top or full-scale exercises)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residences and all businesses have smoke detectors and fire extinguishers on each floor of the building	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents and businesses have cleared and pruned flammable trees and vegetation (e.g., dried grass) within 10 metres of structures and cleared all combustible material (e.g., firewood, debris under porches) within 10 metres.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have burn barrels located well away from their homes and have proper ventilation and screens.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have covered building vents and chimneys with wire mesh to prevent flying embers from entering or leaving the building	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have home-based fire evacuation plans and have tested them.	<input type="checkbox"/>

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have homes that do not have single-paned glass and have metal, clay tile and asphalt shingles with outer surfaces of stucco, metal, brick and concrete which offer superior fire resistance to wildfire or logs and heavy timbers (wood and vinyl siding offer very little protection).	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have spaced trees so that the crowns of individual trees are 3 to 6 metres apart and have removed or reduced the number of evergreen trees within 10 to 30 metres from their homes.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residents have been educated regarding FireSmart principles and have completed the British Columbia Ministry of Forests' <i>Homeowners FireSmart Risk Assessment</i> (2003) and are aware of their individual risk.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has plans in place to provide fire hydrants or access to large quantities of water in the community business area/community core.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has a warning plan to advise residents and visitors about fire bans.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has policies in place limiting the number of levels in the construction of multi-level wood frame buildings in order to offset fire hazards.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has policies in place for historical, wood frame buildings to install fire sprinkler systems.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has signage postage (which include the appropriate phone number) encouraging residents and visitors to report any fires which are observed no matter where they are spotted.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community requires new construction have fire sprinkler systems and to be built using fire-resistant building materials.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Fire Department conducts programs (e.g., such as <i>Learn Not To Burn</i> ) within schools and with youth to prevent arson/fire setting.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify community residents and businesses of an urban fire and how to prepare for it.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify police, fire and ambulance personnel of an urban fire	<input type="checkbox"/>

Wildland/URban Interface fires <sup>14 15 16 17</sup>

**Hazard Resilience Rating**      High Resilience       Low Resilience       Need More Info       Not Applicable

Yes	No	Need More Info	Not Applicable	FACTORS	This factor is important to my community
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Before issuing a permit for any prescribed/controlled burns there have to be adequate plans to avoid the fires being uncontrolled, including scenarios of high winds.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Community-based wildland/urban interface fire exercises have taken place in the community-at-large (e.g., table-top or full-scale exercises)	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Forestry practices around the community are sustainable and ecologically sound.	<input type="checkbox"/>

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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most homes do not have single-paned glass and have metal, clay tile and asphalt shingles.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residences and all businesses have smoke detectors and fire extinguishers on each floor of the building	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents and businesses are able to access water to sprinkle/hose down roofs and areas surrounding their home.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents and businesses have cleared and pruned flammable trees and vegetation (e.g., dried grass) within 10 metres of structures and cleared all combustible material (e.g., firewood, debris under porches) within 10 metres.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have burn barrels located well away from their homes and have proper ventilation and screens.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have covered building vents and chimneys with wire mesh to prevent flying embers from entering or leaving the building	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have home-based fire evacuation plans and have tested them.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have homes with outer surfaces of stucco, metal, brick and concrete which offer superior fire resistance to wildfire or logs and heavy timbers (wood and vinyl siding offer very little protection).	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have shovels, rakes, axes, garden hoses, sprinklers and roof ladders to assist in suppressing wildfires	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Most residents have spaced trees so that the crowns of individual trees are 3 to 6 metres apart and have removed or reduced the number of evergreen trees within 10 to 30 metres from their homes.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Residents have been educated regarding FireSmart principles and have completed the British Columbia Ministry of Forests' <i>Homeowners FireSmart Risk Assessment</i> (2003) and are aware of their individual risk.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community and Parks Boards have policies in place to ban outdoor fires and to advise residents and visitors about these fire bans.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has cleared and pruned flammable brush, bushes and grasses in an extensive zone around the central community core.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has developed designated evacuation routes.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community has signage postage (which include the appropriate phone number) encouraging residents and visitors to report any fires which are observed no matter where they are spotted.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The community requires new construction to have sprinkler systems and to be built using fire-resistant building materials.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Fire Department checks frequently with fire risk monitoring and weather forecasting agencies such as the Canadian Wildland Fire Information System, and Environment Canada.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Fire Department conducts programs (e.g., such as <i>Learn Not To Burn</i> ) within schools and with youth to prevent arson/fire setting.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify community residents and businesses of a potential wildland/urban interface fire and how to prepare for it.	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There is a warning system in place to notify police, fire and ambulance personnel of an wildland/urban interface fire	<input type="checkbox"/>

## References

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- <sup>1</sup> Harris, Lauren M. , McGee, Tara K., McFarlane, Bonita L. (2011). Implementation of Wildfire Risk Management By Local Governments in Alberta, Canada, *Journal of Environmental Planning and Management*, 54, 457-4
- <sup>2</sup> Federal Emergency Management Agency. (2011). Prepare for a Wildfire. U.S. Department of Homeland Security. Retrieved from [http://www.fema.gov/hazard/wildfire/wf\\_prepare.shtm](http://www.fema.gov/hazard/wildfire/wf_prepare.shtm)
- <sup>3</sup> British Columbia Ministry of Forests. (2003). The Homeowners FireSmart Manual. Retrieved June 15 2011 from <http://www.pssg.gov.bc.ca/firecom/pdf/homeowner-firesmart.pdf>
- <sup>4</sup> Harris, Lauren M. , McGee, Tara K., McFarlane, Bonita L. (2011). Implementation of Wildfire Risk Management By Local Governments in Alberta, Canada, *Journal of Environmental Planning and Management*, 54, 457-475
- <sup>5</sup> Federal Emergency Management Agency. (2011). Prepare for a Wildfire. U.S. Department of Homeland Security. Retrieved from [http://www.fema.gov/hazard/wildfire/wf\\_prepare.shtm](http://www.fema.gov/hazard/wildfire/wf_prepare.shtm)
- <sup>6</sup> Van Wagner, C. E. (1990). Six Decades of Forest Fire Science in Canada. *The Forestry Chronicle*. 133-137. Retrieved July 10 2011 from <http://pubs.cif-ifc.org/doi/pdf/10.5558/tfc66133-2>
- <sup>7</sup> Harris, Lauren M. , McGee, Tara K., McFarlane, Bonita L. (2011). Implementation of Wildfire Risk Management By Local Governments in Alberta, Canada, *Journal of Environmental Planning and Management*, 54, 457-475.
- <sup>8</sup> Federal Emergency Management Agency. (2011). Prepare for a Wildfire. U.S. Department of Homeland Security. Retrieved from [http://www.fema.gov/hazard/wildfire/wf\\_prepare.shtm](http://www.fema.gov/hazard/wildfire/wf_prepare.shtm)
- <sup>9</sup> ClimateAction. (2011). Peatbog Protection Central to Climate Change. Retrieved June 30 2011 from [http://www.climateactionprogramme.org/news/peatbog\\_protection\\_central\\_to\\_climate\\_change/](http://www.climateactionprogramme.org/news/peatbog_protection_central_to_climate_change/)
- <sup>10</sup> Harris, Lauren M. , McGee, Tara K., McFarlane, Bonita L. (2011). Implementation of Wildfire Risk Management By Local Governments in Alberta, Canada, *Journal of Environmental Planning and Management*, 54, 457-475.
- <sup>11</sup> Federal Emergency Management Agency. (2011). What to do Before a Fire. U.S. Department of Homeland Security. Retrieved from [http://www.fema.gov/hazard/fire/fire\\_before.shtm](http://www.fema.gov/hazard/fire/fire_before.shtm)
- <sup>12</sup> Federal Emergency Management Agency. (2011). Prepare for a Wildfire. U.S. Department of Homeland Security. Retrieved from [http://www.fema.gov/hazard/wildfire/wf\\_prepare.shtm](http://www.fema.gov/hazard/wildfire/wf_prepare.shtm)
- <sup>13</sup> British Columbia Ministry of Forests. (2003). The Homeowners FireSmart Manual. Retrieved June 15 2011 from <http://www.pssg.gov.bc.ca/firecom/pdf/homeowner-firesmart.pdf>
- <sup>14</sup> Federal Emergency Management Agency. (2011). Prepare for a Wildfire. U.S. Department of Homeland Security. Retrieved from [http://www.fema.gov/hazard/wildfire/wf\\_prepare.shtm](http://www.fema.gov/hazard/wildfire/wf_prepare.shtm)
- <sup>15</sup> Harris, Lauren M. , McGee, Tara K., McFarlane, Bonita L. (2011). Implementation of Wildfire Risk Management By Local Governments in Alberta, Canada, *Journal of Environmental Planning and Management*, 54, 457-475.
- <sup>16</sup> British Columbia Ministry of Forests. (2003). The Homeowners FireSmart Manual. Retrieved June 15 2011 from <http://www.pssg.gov.bc.ca/firecom/pdf/homeowner-firesmart.pdf>
- <sup>17</sup> Van Wagner, C. E. (1990). Six Decades of Forest Fire Science in Canada. *The Forestry Chronicle*. 133-137. Retrieved July 10 2011 from <http://pubs.cif-ifc.org/doi/pdf/10.5558/tfc66133-2>