British Columbia's Strategic Wildfire Prevention Initiative Program, Costs and Variables

Wildland Fire Canada 2012 – Kananaskis, Alberta

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BC Wildfire Management Branch



Presentation Overview

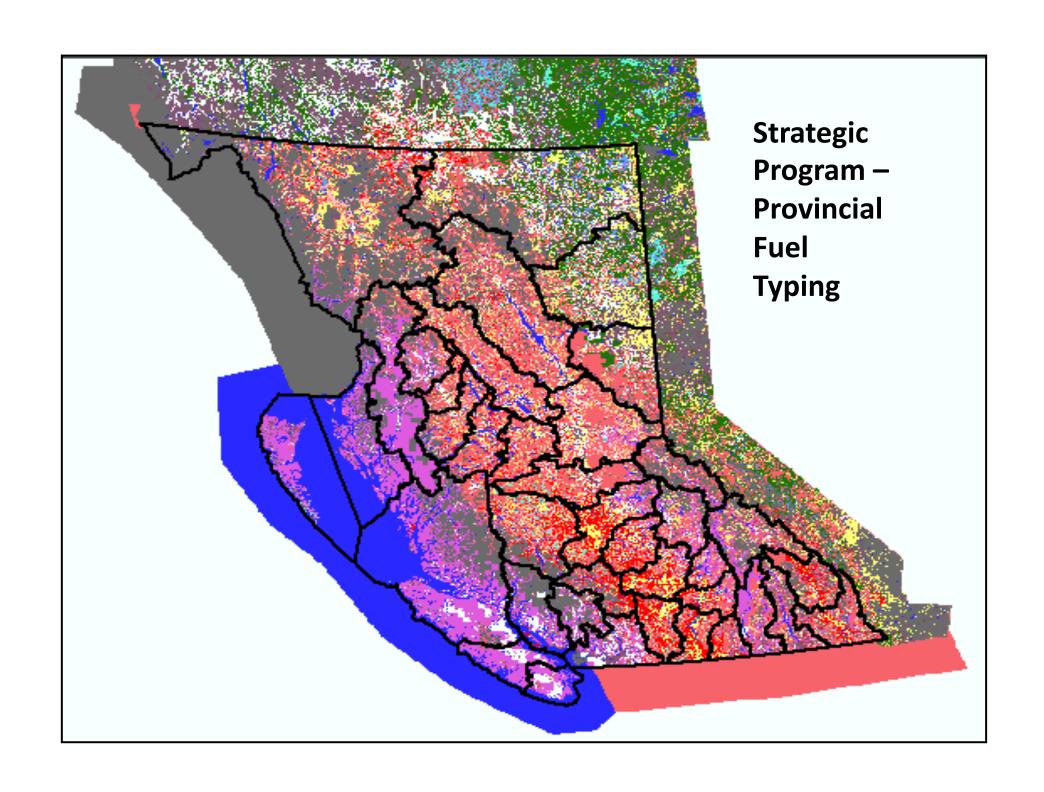
- 1. Introduction to the BC Strategic Wildfire Prevention Initiative
 - Key program elements and how it works from the Strategic to the Operational level
- 2. Discuss the initiative costs and how they are apportioned
- 3. Discuss the initiative successes and challenges

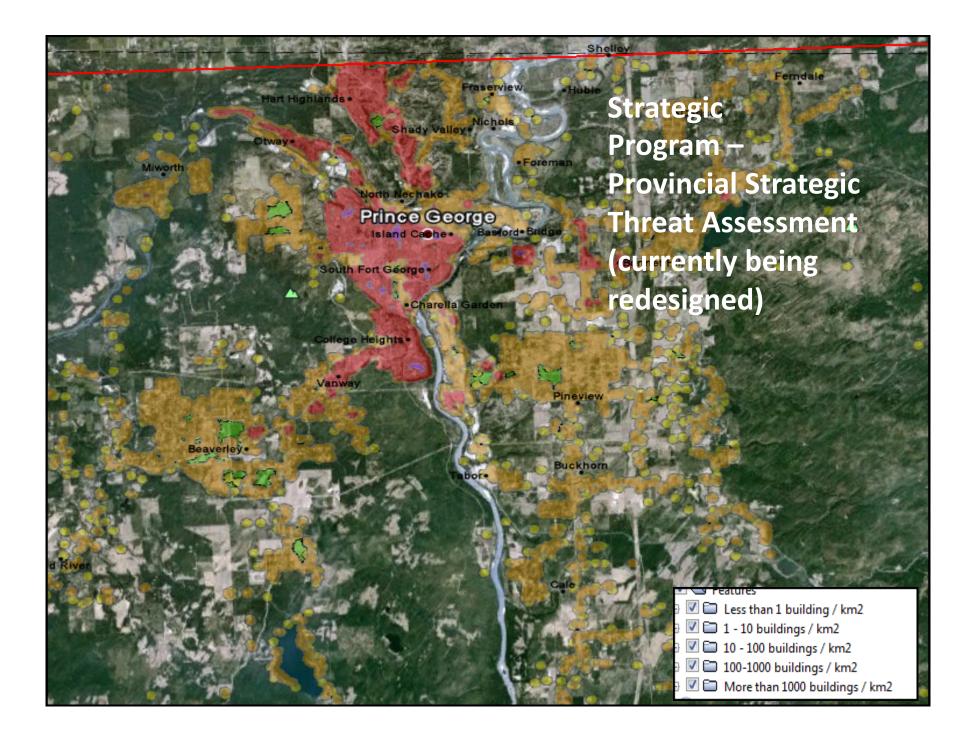
BC Strategic Wildfire Prevention Initiative –Key Elements

- ➤ Province and Partners lead Strategic Program Implementation (Union of BC Municipalities, First Nations Emergency Services Society, BC Wildfire Management Branch);
- Initiative is cost shared with Provincial/Federal governments, local governments and First Nations based upon defined cost share ratio's;
- ➤ Local government/First Nation community responsible to develop community wildfire prevention plans and prescriptions and implement treatments;
- Initiative to address high and extreme risk areas as a priority;
- Initiative to build community participation/engagement and ownership at a local level.

BC Strategic Wildfire Prevention Initiative







Strategic Program – Interface Threat Assessment

Rating Interface Wildfire Threats in British Columbia







SUBMITTED TO:

Mike Dittaro Ministry of Forests and Range Protection Branch

April 22, 2008 updated April 6, 2010



DEVELOPED BY:

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Local **Government -Community** Wildfire **Protection Plan**

Thompson-Nicola Regional District **Community Wildfire Protection Plan**







Submitted to: Terry Kress

Development Services - TNRD FINAL - March 22, 2008



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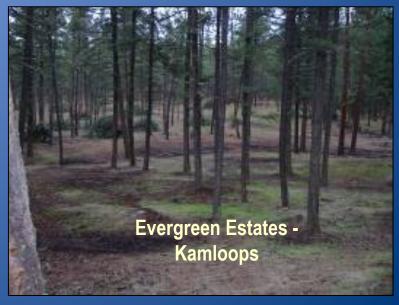


Examples: Treatment









Cost Share Ratios

- •Community Wildfire Protection Plans: 50% SWPI and 50% Community Contribution
- Prescriptions: 75% SWPI and 25% Community
 Contribution
- Demonstration Projects: 75% SWPI and 25%
 Community Contribution
- •Operational Projects: 90% SWPI and 10% Community Contribution for the first \$100,000; and, 75% SWPI and 25% Community Contribution for the remaining up to a maximum of \$400,000 annually per local government

What Does it Cost?

Community Wildfire Prevention Plans (\$5 - \$15 K): Average \$8K

• Size of plan – from small Municipality to a Regional District

Prescriptions (\$246 - \$703/ha): Average \$400/ha

- Size and complexity of prescription area
- Requirement for local stand information/inventory
- Public consultation

Treatments (\$2797 - \$15,599/ha): Average \$9640/ha

- Size and complexity of treatment area terrain, stand type
- Treatment method hand vs mechanical
- Ability to offset costs with merchantable timber
- Volume of debris and disposal method (air quality issues)

Average Treatment cost as \$9640/ha – community contribution (10%) = \$8676/ha Prescription: \$400/ha – community contribution (25%) = \$300/ha

Total: \$8976/ha

Does it Work?

- 2005 West Kelowna estates
- 2009 Alexis Creek
- 2009 Glenrosa
- 2010 Barnhartvale





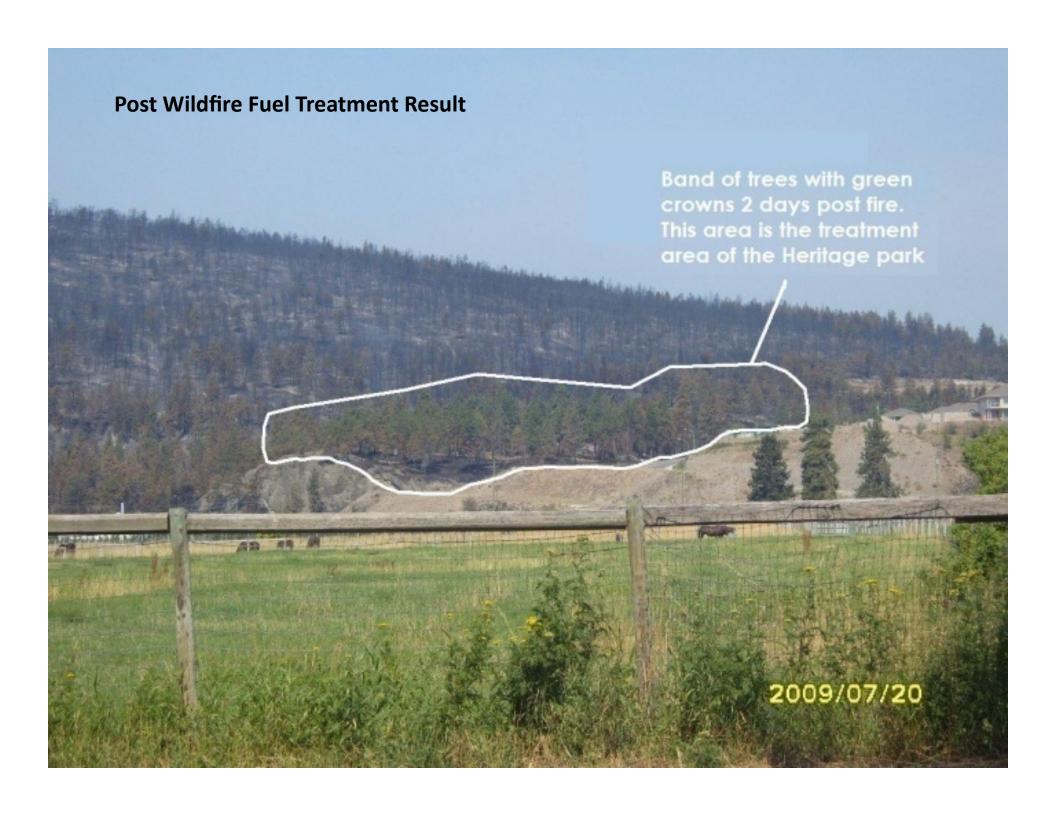




Treatment Successes Case Study

Glenrosa - West Kelowna Fire K50739 2009





Treatment Successes

- **SAFETY:** Safer crew access
- **REDUCED LOSSES:** More time to evacuate/set up structural protection units
- **REDUCED COSTS AND FASTER CONTROL**: Reduced fire behaviour and Little to no aerial support required

"The fuel management work that was done was a huge contributing factor to the success of the fire not making it across the guard, and threatening values."





Program Successes

Community Wildfire Protection Plans

- Currently 302 completed or in-progress in BC (227 completed CWPP, 75 in-progress)
- Includes 189 CWPP from local government, 113 from First Nation communities

Prescriptions

- Currently 412 completed, or in-progress in BC
- Includes 307 prescriptions from local governments, 105 from First Nation communities

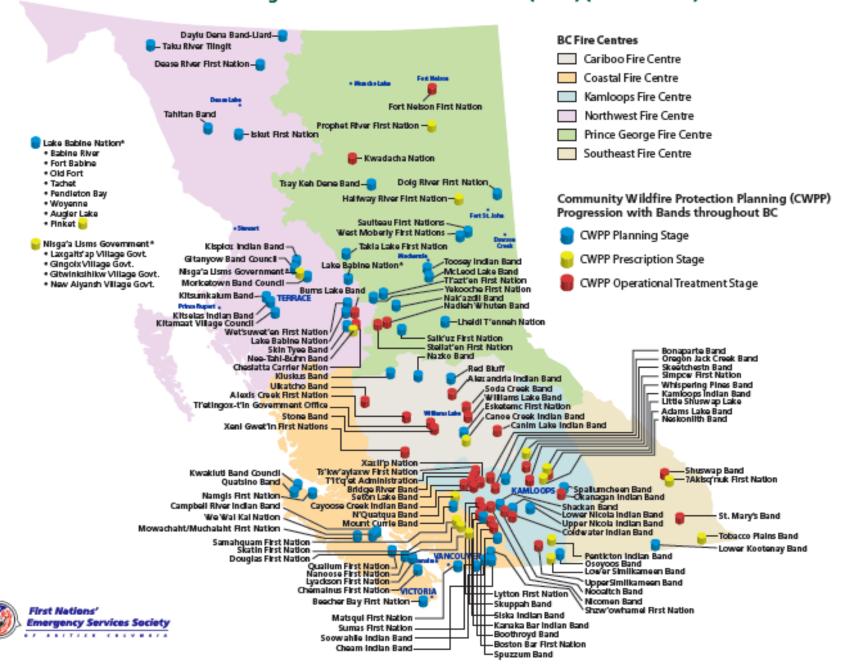
Fuel Treatments

- Currently 234 fuel treatments (Demonstration plus operational treatments)
- Includes 161 treatments from local governments, 46 from First Nation communities

Total combined ha treated Provincially June 30th, 2012 is: 46,467 ha (2004-2012)

Note: total includes Wildfire Management Branch crew treatment work (can be up to one third of annual treatment depending on fire season)

Provincial Strategic Wildfire Prevention Initiative (SWPI) (Crown Lands)



Program Challenges

- Securing long term funding Provincial and/or Federal Contributions;
- Securing community participation and having community ownership of the program;
- Funding Ratio's and community contribution amounts;
- Community expertise to engage in treatments and reliance upon contractors;
- Sheer size of the treatment area (+ 600,000 high risk, currently being reassessed)

Strategic Successes

(other than just the fuel treatments themselves):

- Building community awareness communities become active participants in community protection from wildfires
- Shared funding requirement ensures communities are responsible for costs and incents communities to reduce costs through municipal bylaws to support wildfire risk reduction
- Creates strong government/community partnerships as a basis for a wide variety of similar initiatives
- Direct delivery by First Nations Emergency Services Society supports cross government integration of the program
- An established program supports other funding initiatives community development funding, job opportunities funding etc.
- Job creation and training opportunities

Questions?