



Flow

- Our story 5 minutes
- FlamMap5 5 minutes
- Landscape Level Planning 5 minutes
- 5 treatment types– 10 minutes (one short movie)
- Some questions 5 minutes

Total time: 30 minutes

Thank You to:







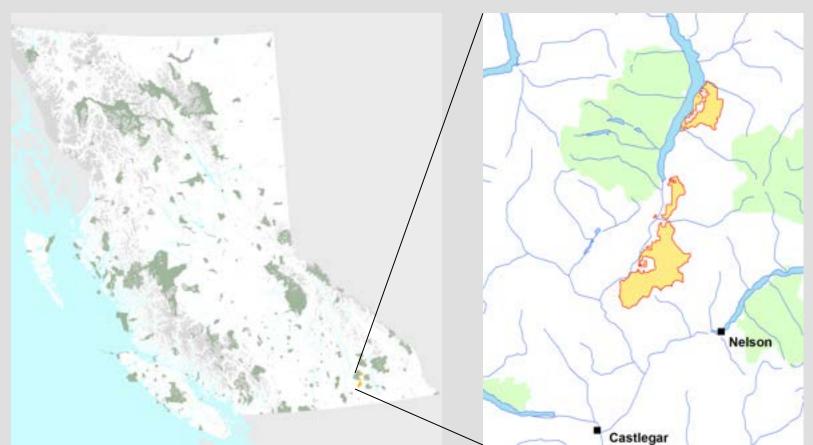






History

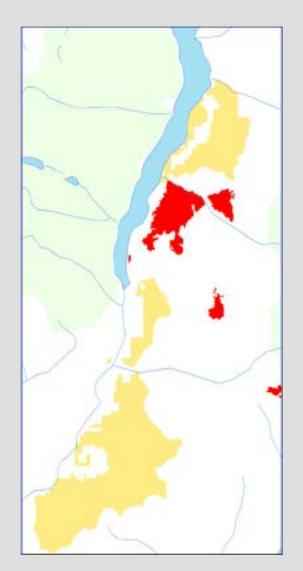
- SIFCo formed in 2005
- Goal: a Community Forest Agreement over a group of domestic use watersheds in Slocan Valley.
- Perspective: Water and Ecosystem Protection.
- CFA awarded in 2007



History

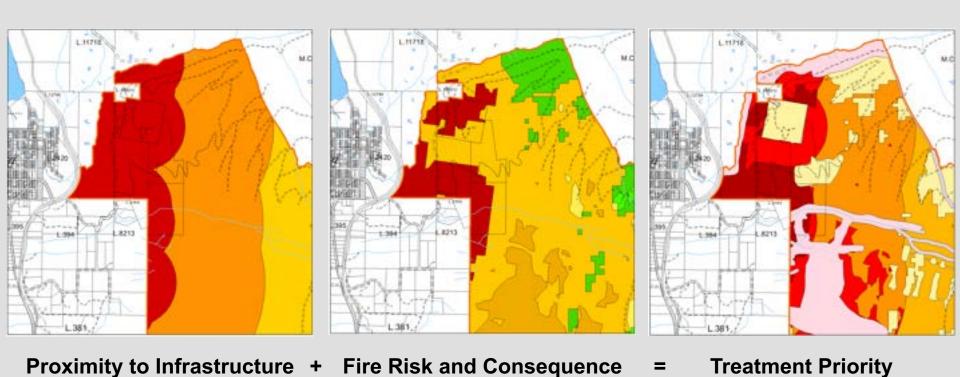
- 2007: Springer Fire a landscape scale fire next door....
- Fuel management became a CFA priority





History

Crude 2008: Initial Approach to identifying priority treatment areas



(Inop netted out)

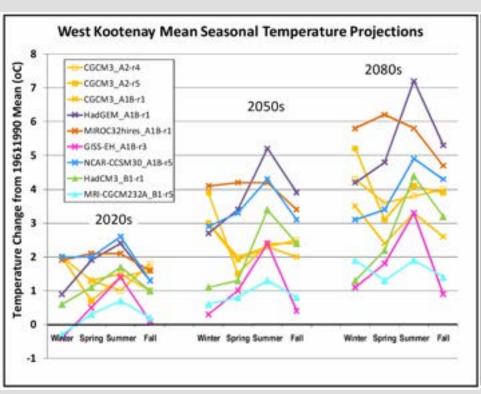
2008: wrote new WUI stocking standards in our FSP

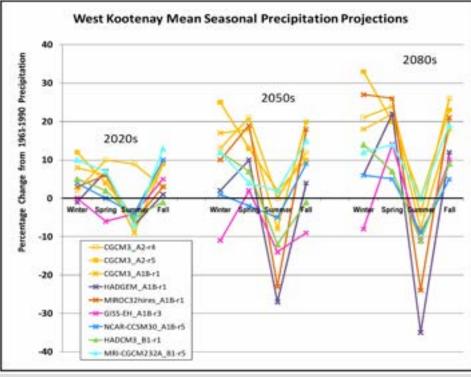
2008-13: We started working



treated 250 + ha, approximate investment and grants = \$2,000,000

THE BIG PICTURE was getting clearer:
2011 Kootenay resilience projects
Impacts of Climate change on the Kootenays
How to adapt? Huge implications!





Add to this picture ingrowth ...

and you have a volatile situation!

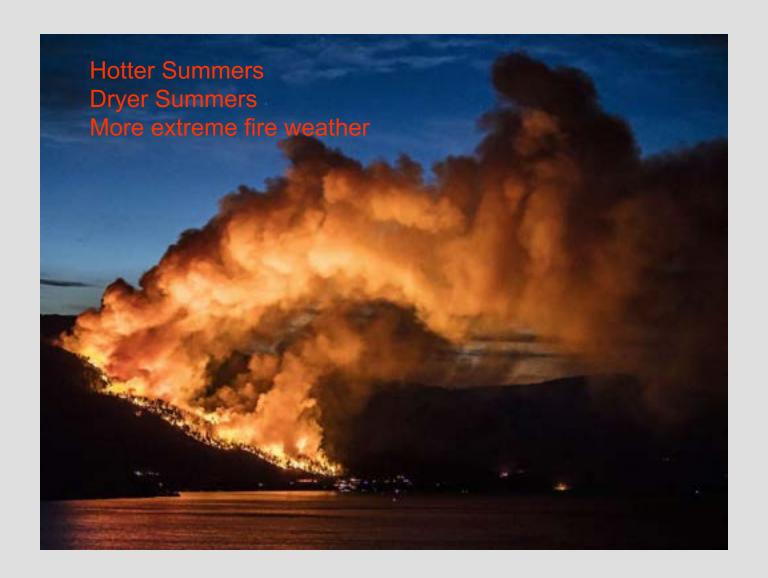








Things are not likely to get "better" – We have to scale our efforts, and become more efficient... so where and how should we work?



Some questions arose:

Were there some areas that burned more frequently?

Were there fire movement paths in the landscape?

So we turned to fire behaviour modelling.

2013-14: Fire Behavior Modeling



Using FlamMap5 – from US Joint Fire Sciences Program, Rocky Mountain Research Station.

- Model considers:
 - Terrain: slope, aspect, elevation
 - Veg Cover: species, density, height, crown base height, crown volume.
 - Weather: temperature, wind speed, wind direction, effect of terrain and daytime heating on wind.
 - Fuel Conditions: effect of previous weather patterns on flammability.

Fire Behavior Modeling

Some key model assumptions:

Hot Dry Weather:

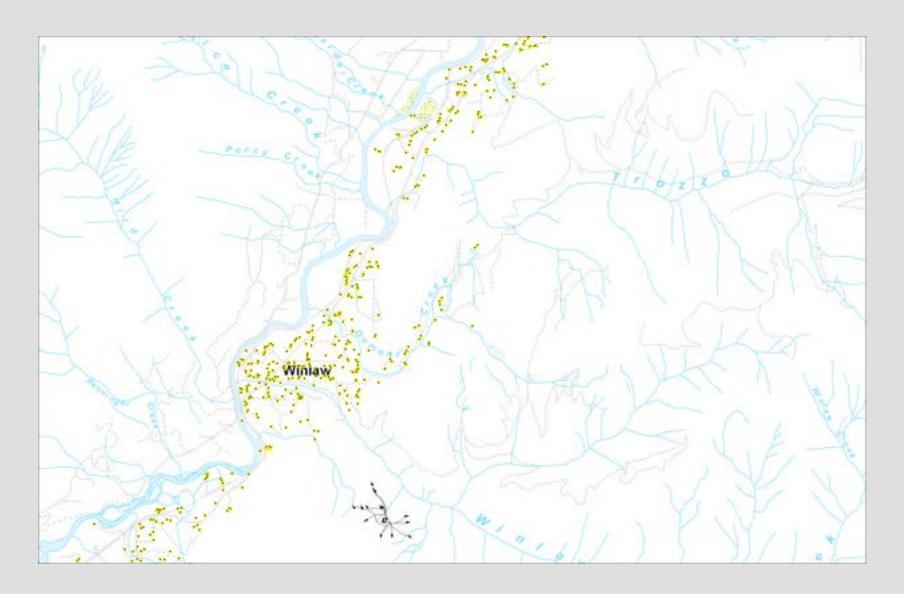
- 30° to 35° daytime temperatures, August.
- Has been a long hot summer dry fuels.
- 16 km/hr winds.

Fire Suppression:

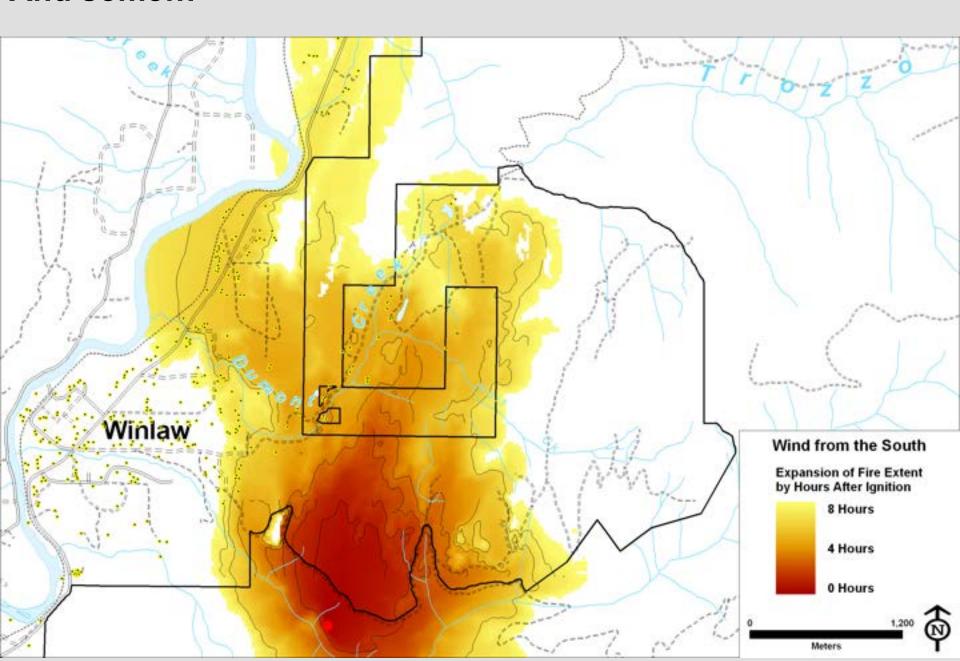
Not successful.

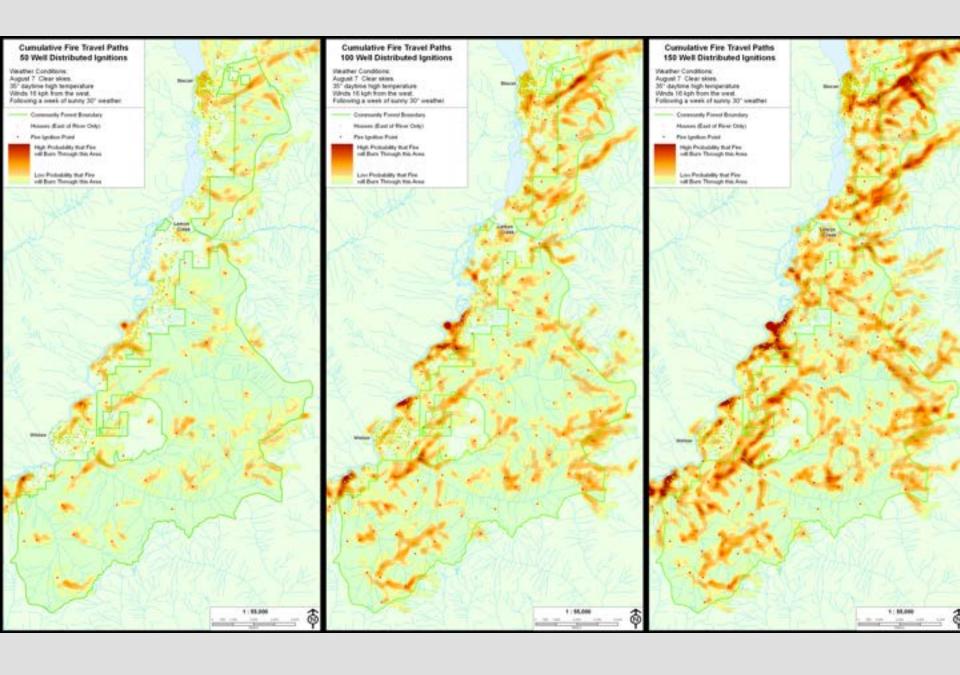
We decided to model the bad days. "You want to know what could happen when things go badly."

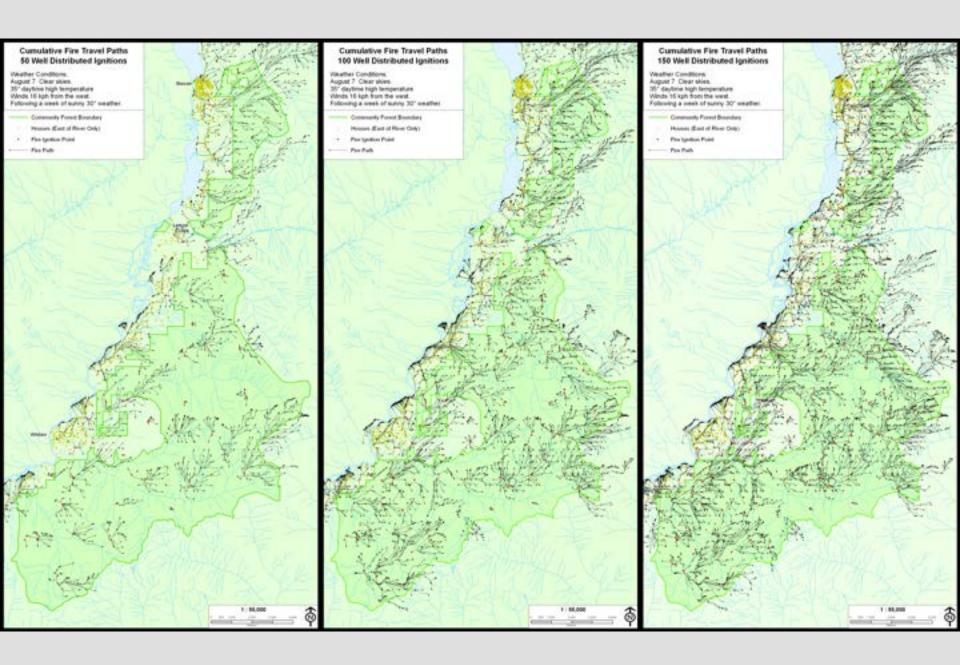
Then you begin to light fires... and some are not very exciting

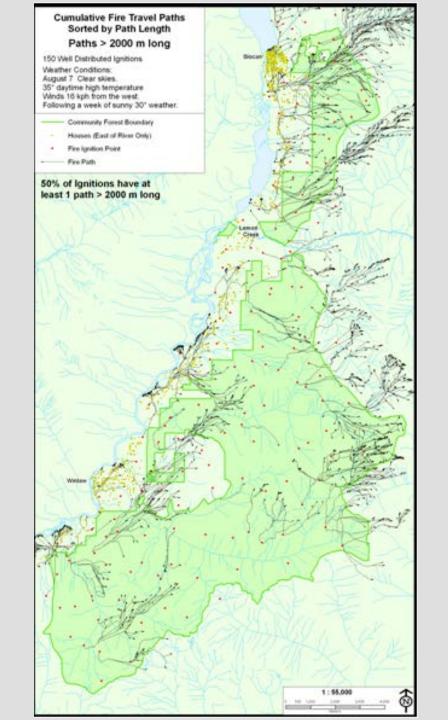


And some...



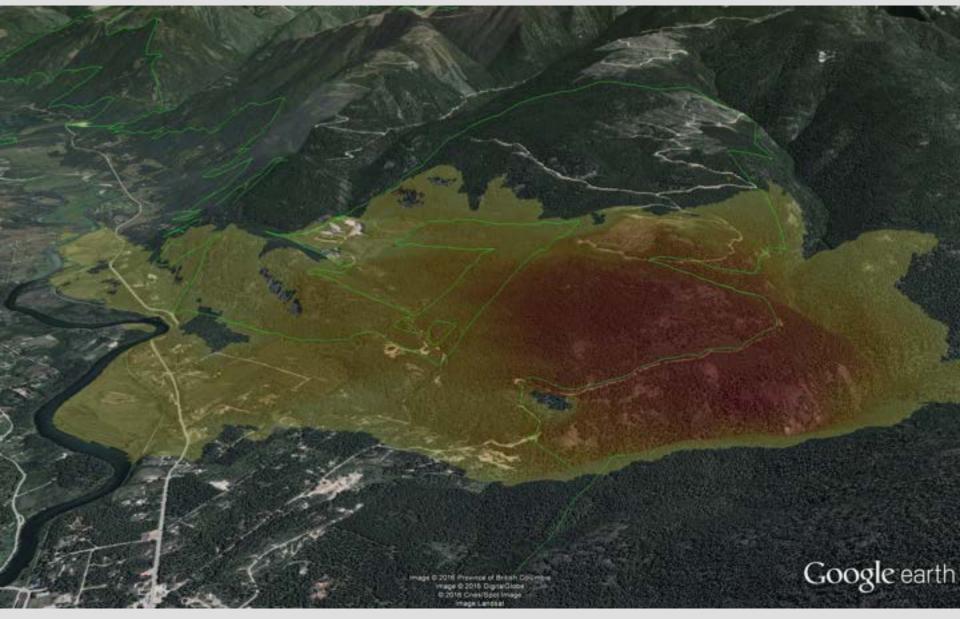


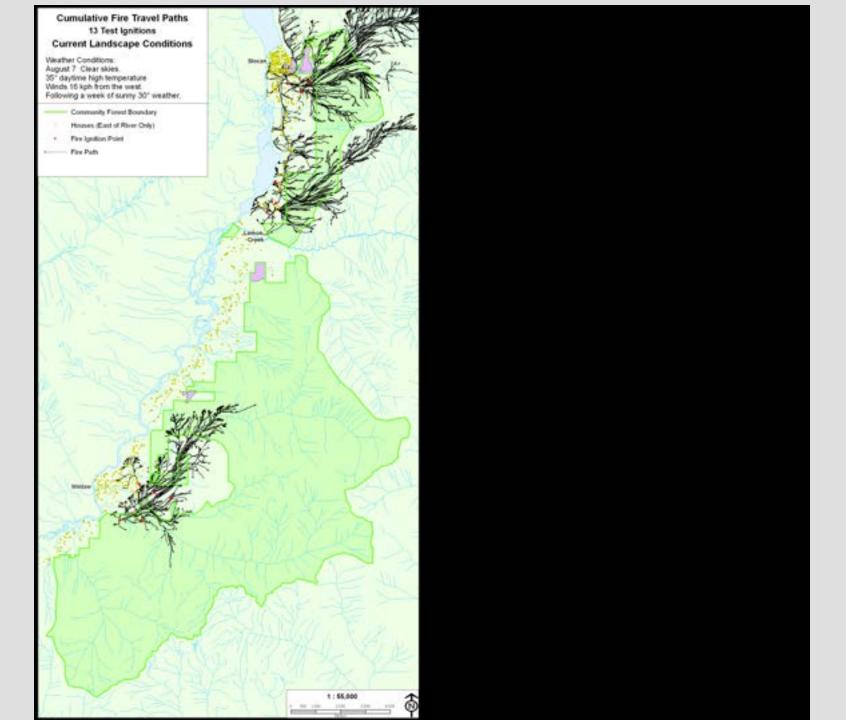


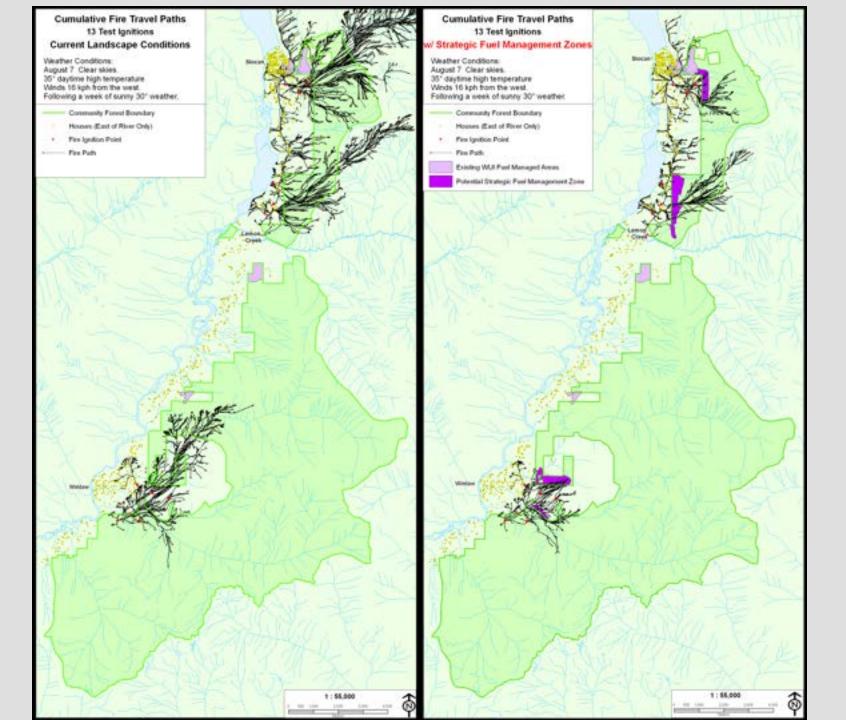


Fire Behavior Modeling

Interesting communications tool...







Next: Landscape Level Plan – 2015-16

Combined:

- i. Our knowledge/ data of CFA landbase with
- ii. fire movement paths from fire behaviour modelling.
- Where is it a priority to reduce fuels?
- Where is it feasible to operate?
- Where are there reasonably sized treatment units?

Next: Landscape Level Plan – 2015-16

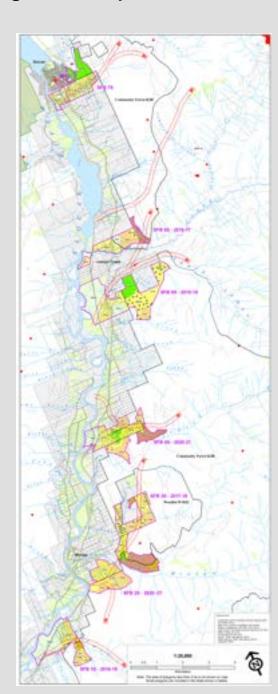
Combined:

- i. knowledge of CFA landbase with
- ii. fire movement paths from fire behaviour modelling.
- Where is it a priority to reduce fuels?
- Where is it feasible to operate?
- Where are there reasonably sized treatment units?

June 2016 we released our Slocan Valley Strategic Landscape Level Wildfire Protection Plan

Slocan Valley Strategic Landscape Level Wildfire Protection Plan

The Plan = 12 SFB





Slocan Valley Strategic Landscape Level Wildfire Protection Plan

