Blister Rust Screening for Whitebark Pine in BC

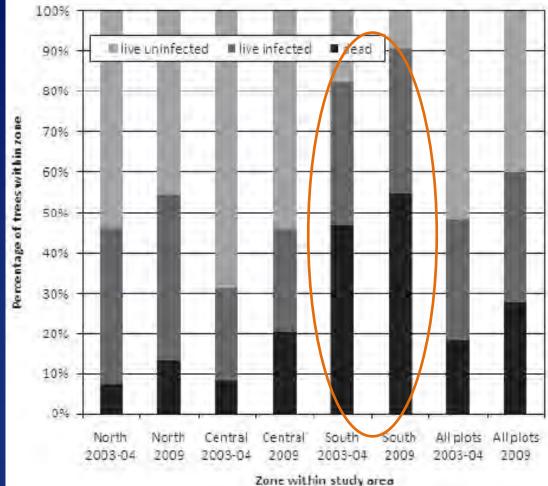


Outline

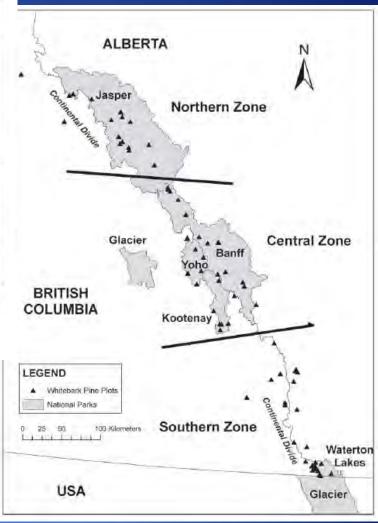
- Intro to blister rust
- Why develop resistance?
- Rust screening procedure
- New BC effort
- Challenges







Re-measurement of whitebark pine infection and mortality in the Canadian Rockies. Smith, Cyndi M.; Shepherd, Brenda; Gillies, Cameron; Stuart-Smith, Jon. 2011. In: Keane, Robert E.; Tomback, Diana F.; Murray, Michael P.; and Smith, Cyndi M., eds. 2011. The future of high-elevation, five-needle white pines in Western North America: Proceedings of the High Five Symposium. 28-30 June 2010; Missoula, MT. Proceedings RMRS-P-63. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.



COSEWIC Assessment and Status Report

on the

Whitebark Pine

Pinus albicaulis

in Canada



ENDANGERED 2010

COSEWIC Committee on the Status of Endangered Wildlife in Canada



COSEPAC

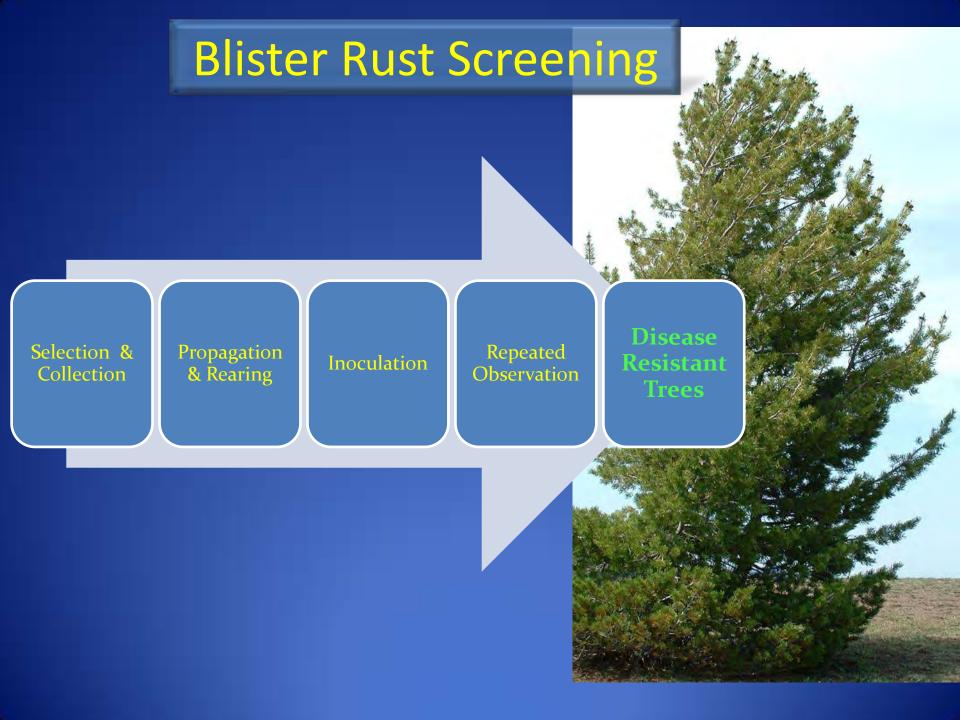
Comité sur la situation des espèces en péril au Canada

"High risk of extirpation in Canada"

Blister Rust Screening BC

To call a tree "putatively resistant"...

- Dominant or co-dominant tree.
- Has abundant foliage (at least average for stand).
- Tree has been carefully examined has no cankers.
- If cankers present, only inactive, healed, or dead cankers.
- Occurs in midst of heavily impacted (very high incidence) blister rust with most trees having multiple cankers.



Summer 2011

West Kootenays

- 6 Sites
- 20 Trees



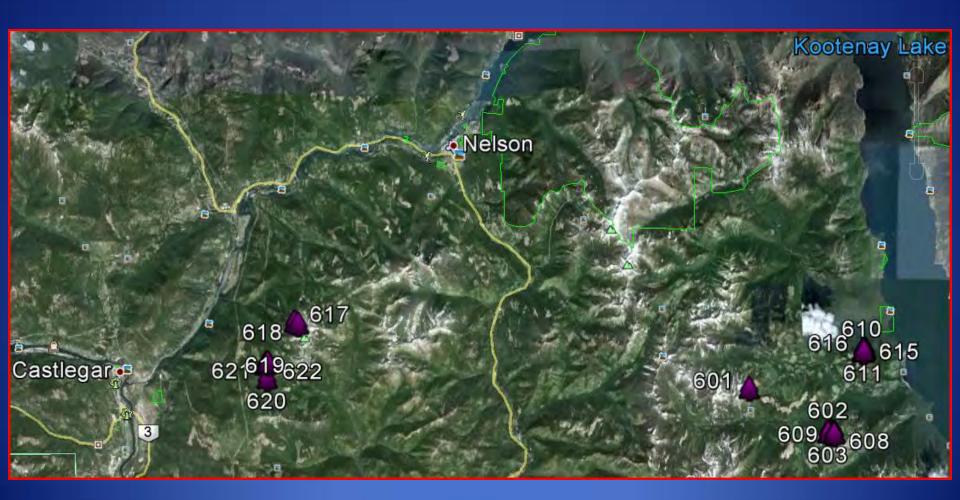
East Kootenays

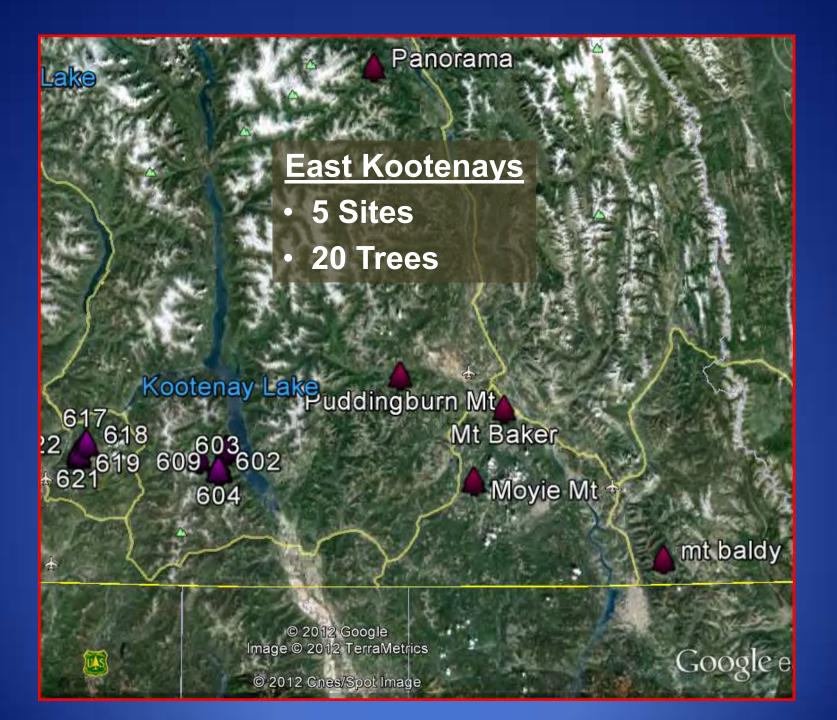
- 5 Sites
- 20 Trees

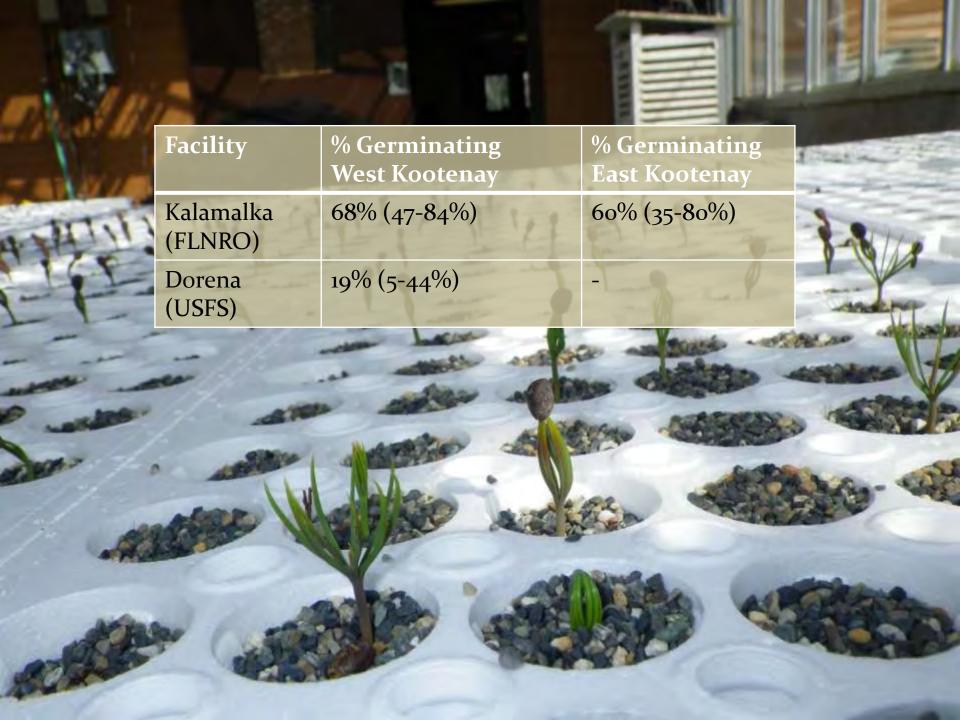


West Kootenays

- 6 Sites
- 20 Trees









Challenges encountered

Hungry Nursery Rodent





Challenges encountered

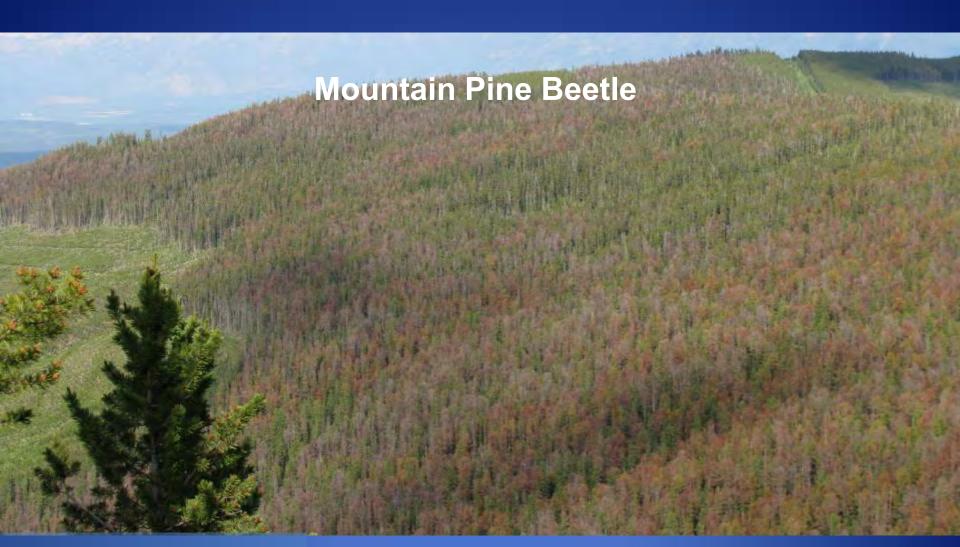




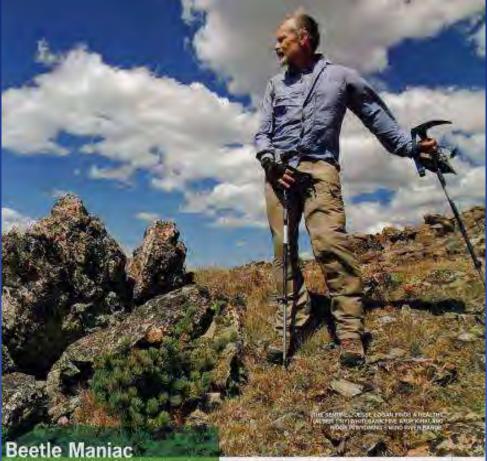




Challenges encountered



Puddingburn Mtn, BC



One backcountry loving scientist's wild migring have become a high-rising reality.

JESSELCCSAN MAY DE A SCIENTEST put not mongrhead. A dripping Facking reliable. Logist is an used fly favorening and expert burstconcern selve may have speed an enviroble number of days explaint off-bas. And we anyone who have bugged before, widerness time in the nothern Receive, be has sought shade from the identifies unking. The Michigal private that you just before most har.

So it's fitting that Logar, who began his earner as an appointed witchingual, tith remy facused on the mountain pine bedges that led him chalghopack to those same trees.

Andwin in his held as the beete guy, Logan opent most of the 1950s studying row halos assumers insidely belong in twee elevation trappole price. In the 1950s Foreir Sovietie Rocky Maumain Passauril States in Logan UT, where he declared to years to begin to too drive the fee buys when fighty sensitive in amplitude.

As increasivelence of global warring energed in the mid-SGs, logar began to get a starting feasing in the pit of fearing-line Warringson, the warring ten matter been tightened in OC as plug some global warring fearing warring tenderal matter made in Coarrings.

"Bullething", he says, "Just on exempter". But what he bond address her. With just is slightly forger summer, speace, his model providend, resonant part benefits posed complete their the system to be assessmented of their company in greater numbers to operation muse post staypong that were once manife beyond their respir.

Such, these theories have become hard feet logar peoply the fest glimber of the quidence in 2003 at the techniq of the Sawtoon's control Sawtoon's present and the properties of the sawtoon's present which by the next year, the receipts would turn red and doe, leveling a wise of dry weatherers, because stongs. Even as a submitted who had winteded numerous benchmer, because stongs. Even as a submitted who had winteded numerous benchmer, because stongs wise, devadated. "Ye absorbed numerous benchmer," in says, "I can't find other words."

HS Indings allow the Roses Service award more long-own excepted records, but logan left the against last pear—in part, he lays a bettingted for lark of infiniteering to such research. New mostly letted at 63, he there to enjoy the wilderness as much as he can the sciently security although at one of the flexible de stoppe on the outheast expect of England First in copiered. Mortane, and Copanhaid that will storp pare threats and become functionally research as soon as a generation. "As now one of the most much cooperation the most stopped to the says." That my grand-flaters may treat most site. If



Thanks

Vicky Berger
Adrian Leslie
Randy Moody
Richard Sniezko



