THE CROWN OF THE CONTINENT HIGH-FIVE WORKING GROUP

A Multi-Stakeholder Approach to Cross-Border Collaboration

Regan Nelson, Crown Conservation Initiative







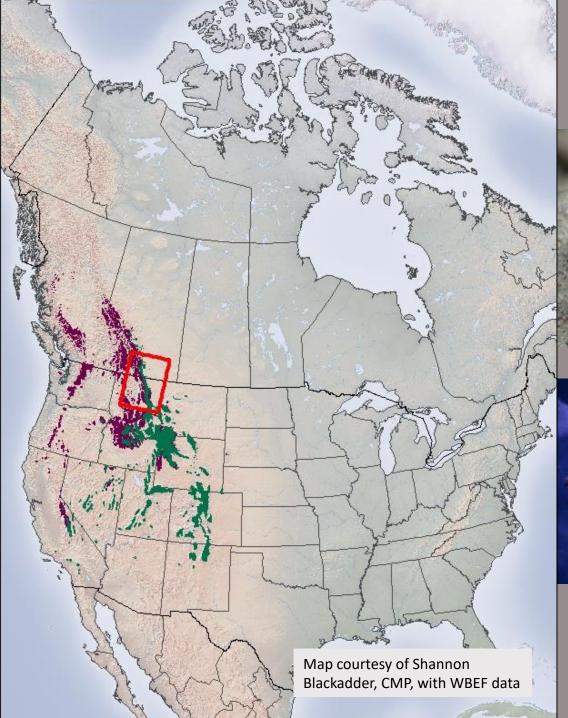
CROWN OF THE CONTINENT







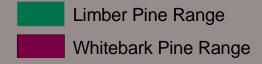




CROWN OF THE CONTINENT







CROWN OF THE CONTINENT

- Whitebark Pine:
 - 29,824 km²
 - 41% of CCE
- Limber Pine
 - 15,017 km²
 - 20% of CCE

Lethbridge ranbrook MONTANA Kalispell Whitebark Pine Range Limber Pine Range Missoula Helena

Map courtesy of Shannon Blackadder, CMP, with WBEF data

5NP HEALTH STATUS AND TRENDS IN THE CROWN

BLISTER RUST (Smith et al. 2013)

- Infection levels ~80% for both species
- Infection levels increased twice as fast in limber vs.
 whitebark over the last decade

MOUNTAIN PINE BEETLE

 Mountain pine beetle mortality peaked 2009-2011 and is on downward trend (very low mortality over the last 3 years).







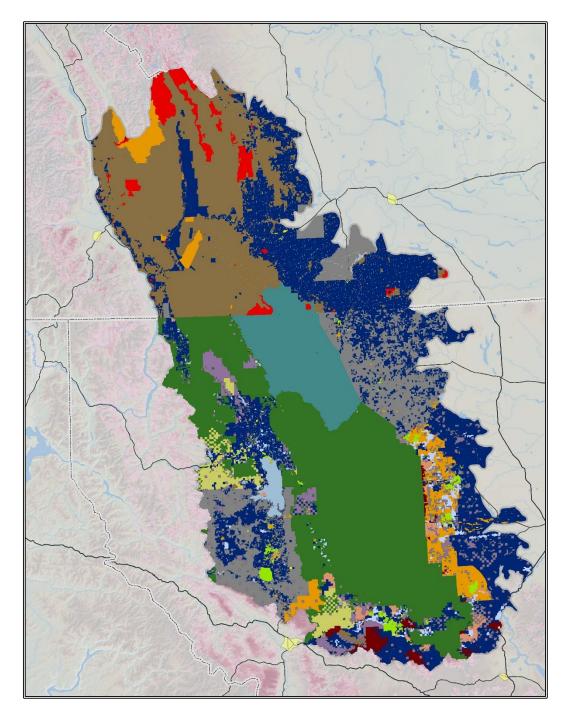
HUMAN-DRIVEN THREATS

- Oil and Gas Development
- Coal Mining
- Wind Farms
- Logging
- Ski Area Development
- Heli-Ski Development
- Climate Change
- Fire Suppression









Jurisdictions in the CCE

First Nations & Tribal Lands **National Parks UV bitebarlo Pine**d Management Melaterpairebabilitymenecupancy Montana Fish, Wildlife & Parks Federal Plum Creek (Weyerhaeuser) **Private Land Private Conservation Provincially Protected** State Trust **US Fish & Wildlife US Forest Service**

Slide credit: Shannon Blackadder, CMP





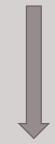




1935 - 2010

FRAN WORK 2016-2020





Ar Canadian Parl



SOUTHWESTERN CROWN

Heart of the Rockies conservation initiative

nidsر

Mor Nationa

South













Wildsight

Yellowstone to Yukon Conservation Initiative

Individuals with University of Montana

nivores

WE NEED THE NEEDLES: Coordinating Action to Conserve 5-Needle Pine Forests in the Crown of the Continent







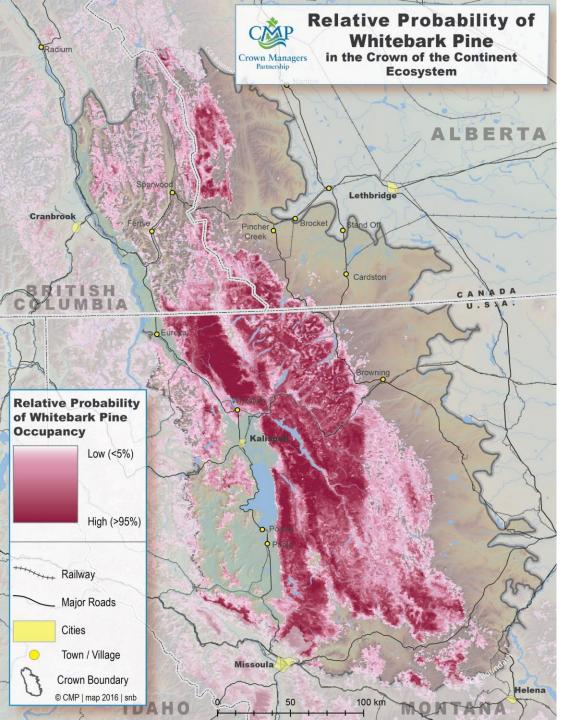












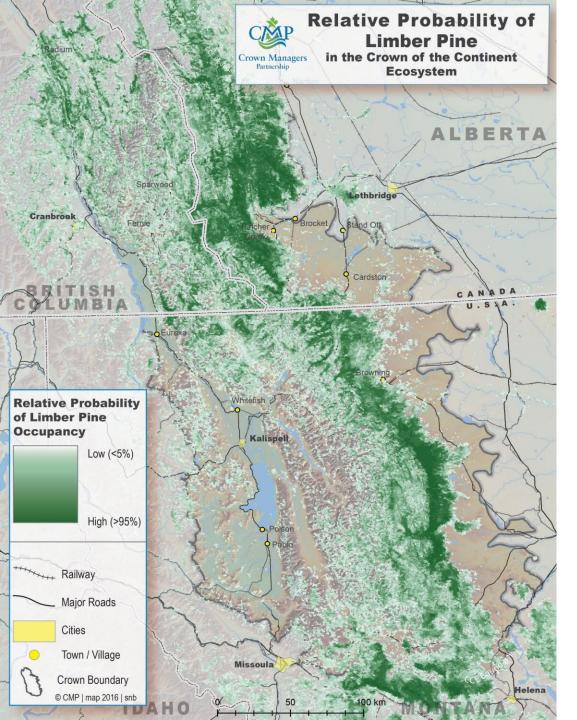
ScienceBase.gov

Search for Crown Managers Partnership: Transboundary Conservation Initiative

or

https://www.sciencebase.gov/ca talog/item/51102e04e4b048b5c ead853b

Credit: Shannon Blackadder, CMP



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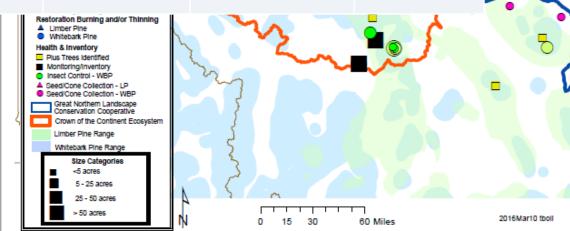
Credit: Shannon Blackadder, CMP

Whitebark and Limber Pine Restoration Projects Completed or Underway in the Crown



Species	Inventory	Planting	Restoration	Total	\lberta lontana
вотн	70,377	11		70,388	Ontario
LP	6	74	2,500	2,580	
WBP	2,368	1,129	9,518	13,015	
TOTAL	72,751	1,214	12,018	85,983	,
		estoration Burning and/or Thinning L Limber Pine Whitebark Pine eaith & Inventory	Ser.		

Credit: Trisha Boll, Flathead National Forest





Ecological and Cultural Value of Five-Needle Pine in the Crown





CHALLENGES FOR ACCELERATING THE PACE AND SCALE OF RESTORATION Jurisdictional complexity and lack of formal means for coordination

Need for increased public awareness of the

Need to prioritize restoration investments in

Uncertainty about how climate change will

Lack of consistent guidance about restoration

high priority areas across the Crown

in Wilderness/Highly Protected areas

Continued loss of 5NP to development

affect restoration effectiveness

severity of the problem

MULTI-STAKEHOLDER

Group

science initiative

Needle Pine Forests

individuals and stands

RECOMMENDATIONS FOR ACTION

Develop and implement a Crown-Wide

Develop and implement a Crown-Wide

Restoration Strategy and Action Plan

Communications Strategy; Consider a citizen

Work with scientists to develop a Best Practices

Guide to the Management of Fire in Five-

Work with the Aldo Leopold Wilderness

identify triggers/thresholds for action

Research Institute on decision framework to

Develop a Crown-wide Mitigation Strategy and

Best Management Practices to avoid loss of

Establish a Crown-Wide High Five Working

Introducing: The Crown High-Five Working Group!!!







MILESTONES FOR YEAR 1

- By March, peer-reviewed guide to Best Practices of Fire Use and Management in 5NP Forests
- By early spring, a peer-reviewed 5NP Mitigation Strategy, including Best Management Practices related to avoiding, minimizing, restoring or offsetting loss of 5NP
- By January, a scoping document for a Crown-wide Restoration Strategy, and a first subcommittee meeting to draft the elements of the plan







MILESTONES FOR YEAR 1

- In 2017, a users needs assessment for developing a Crown-wide Inventory and Monitoring database
- This fall, the first convening of the Communications
 Strategy subcommittee
- Two High Five Working Group Conference Calls (January and April), and our next in-person High Five Working Group meeting in Jasper next year, in concert with WBEF Annual Meeting.







Introducing: The Crown High-Five Working Group!!!

