WESTERN WILDFIRES - ADAPTING TO A FUTURE WITH MORE FIRE

Susan Prichard

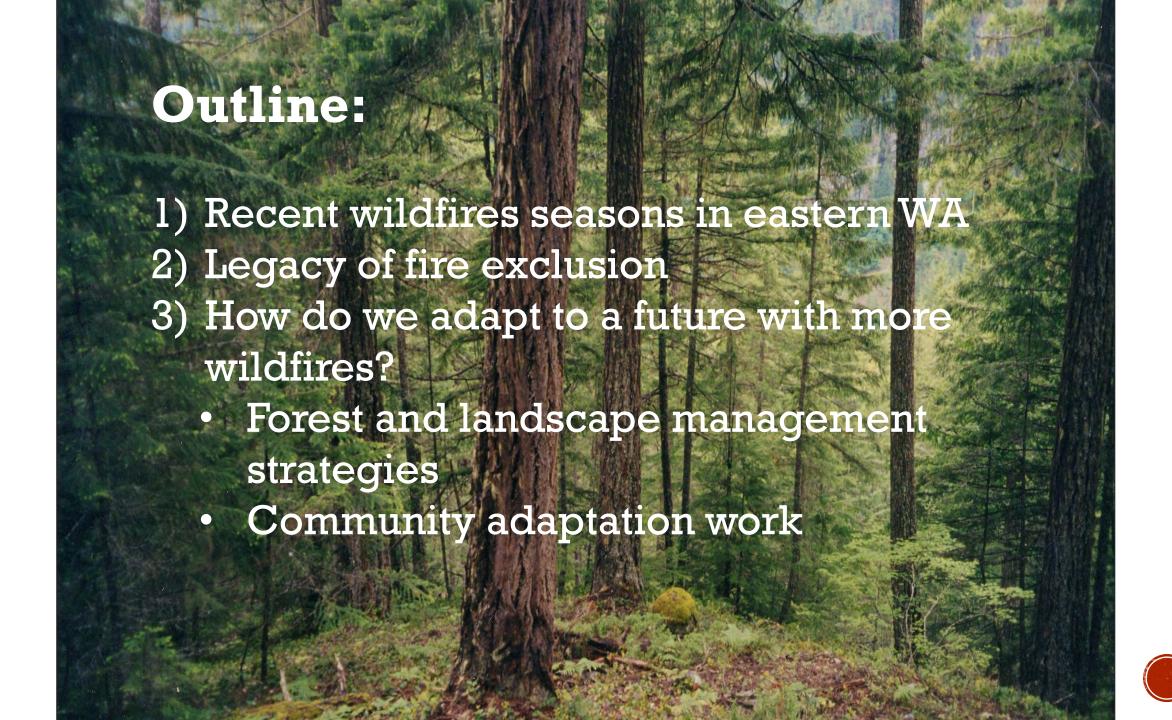
School of Environmental and Forest Sciences, University of Washington

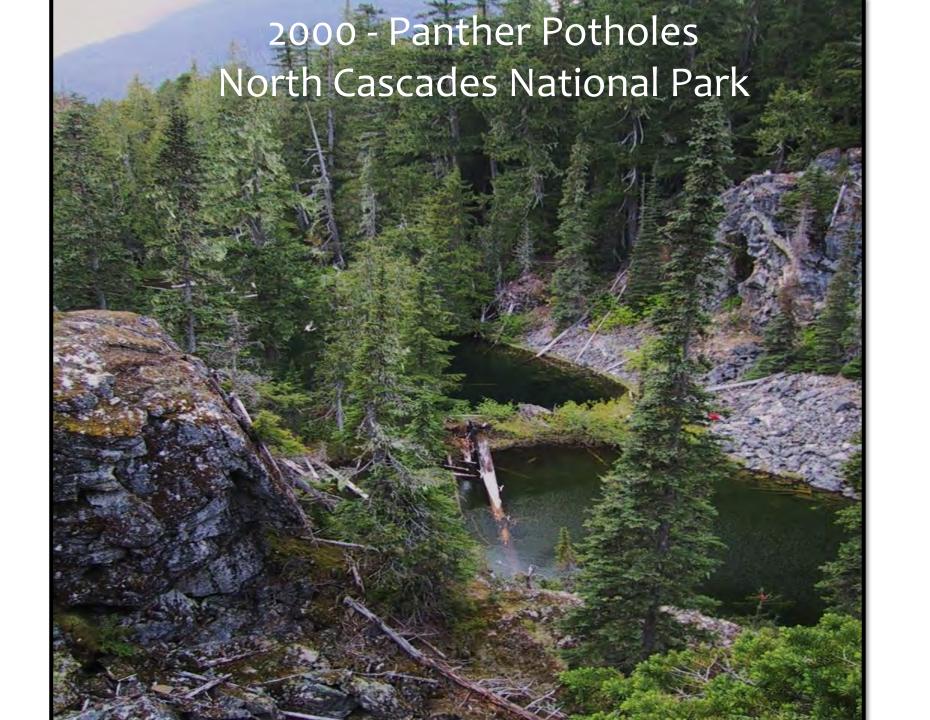
March 2, 2022 Washington Botanical Symposium



As part of the University of Washington, I respectfully acknowledge the Coast Salish peoples of this land, the land which touches the shared waters of all tribes and bands within the Duwamish, Puyallup, Suquamish, Tulalip and Muckleshoot nations.









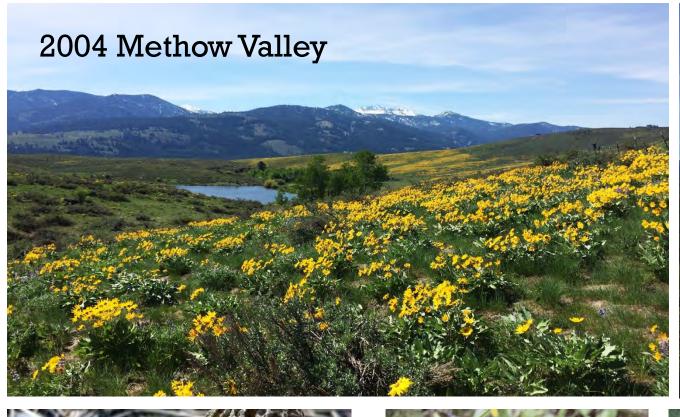








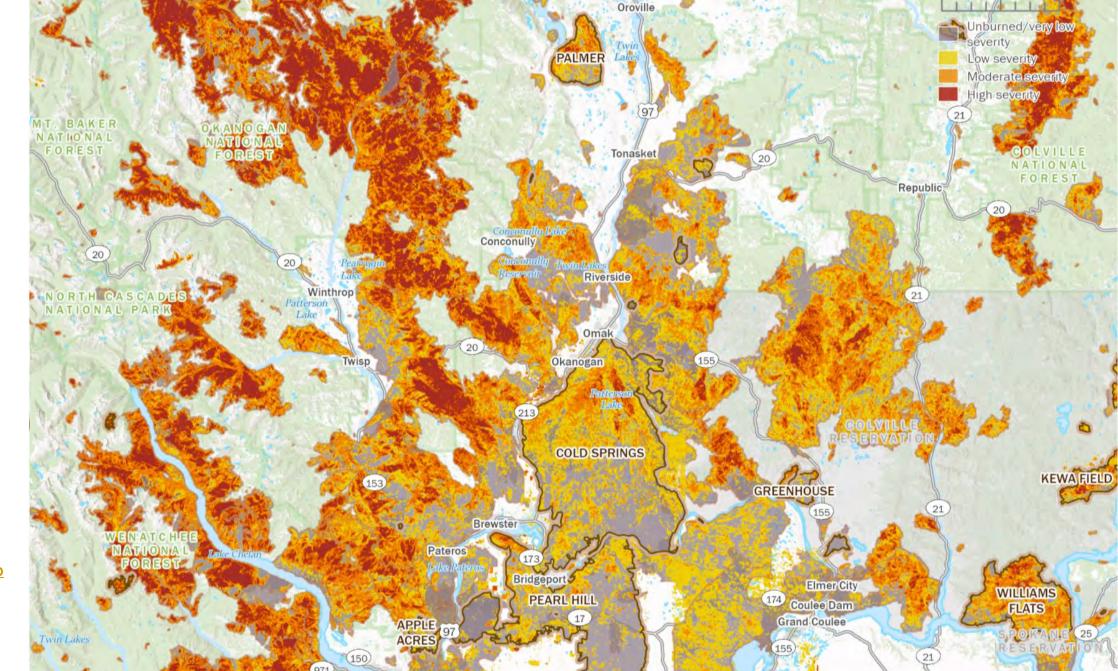




Photo credits: Teri Pieper

2019 -2020

CANADA



20 Miles

https://storymap s.arcgis.com/sto ries/da2c6d84fa 67456c87d0c2f8 91f3e0cf



LEGACIES OF FIRE EXCLUSION









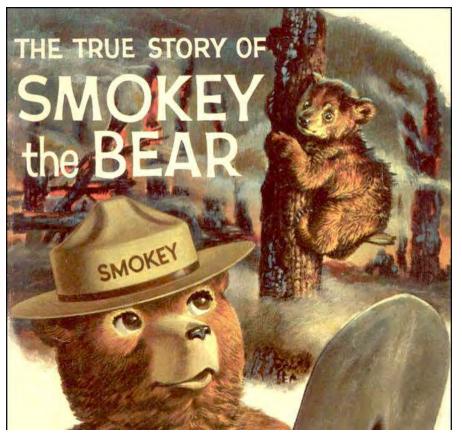
WESTERN KLAWATH MOUNTAINS



https://eos.org/features/fire-as-medicine-learning-from-native-american-fire-stewardship







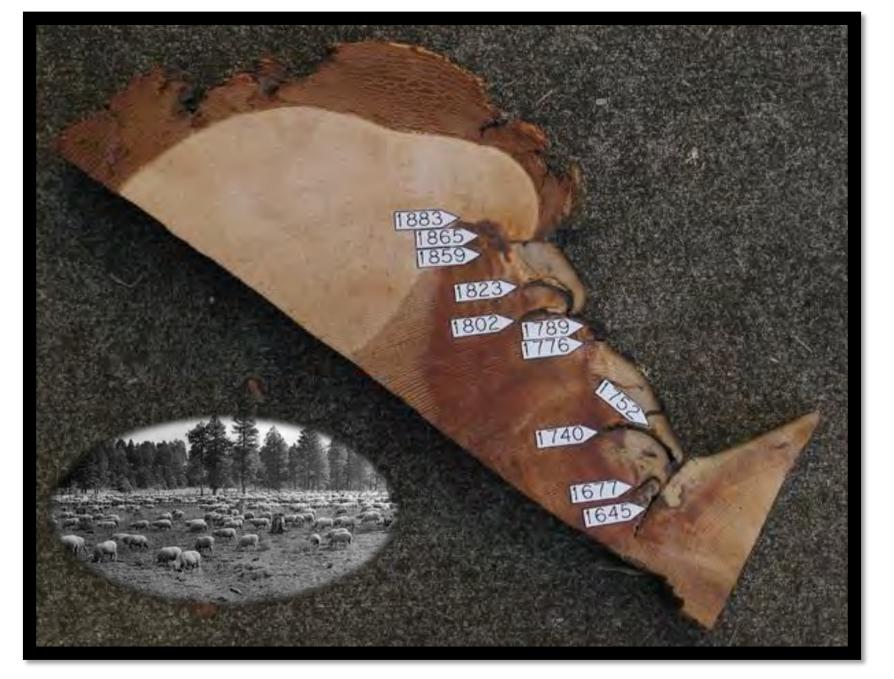


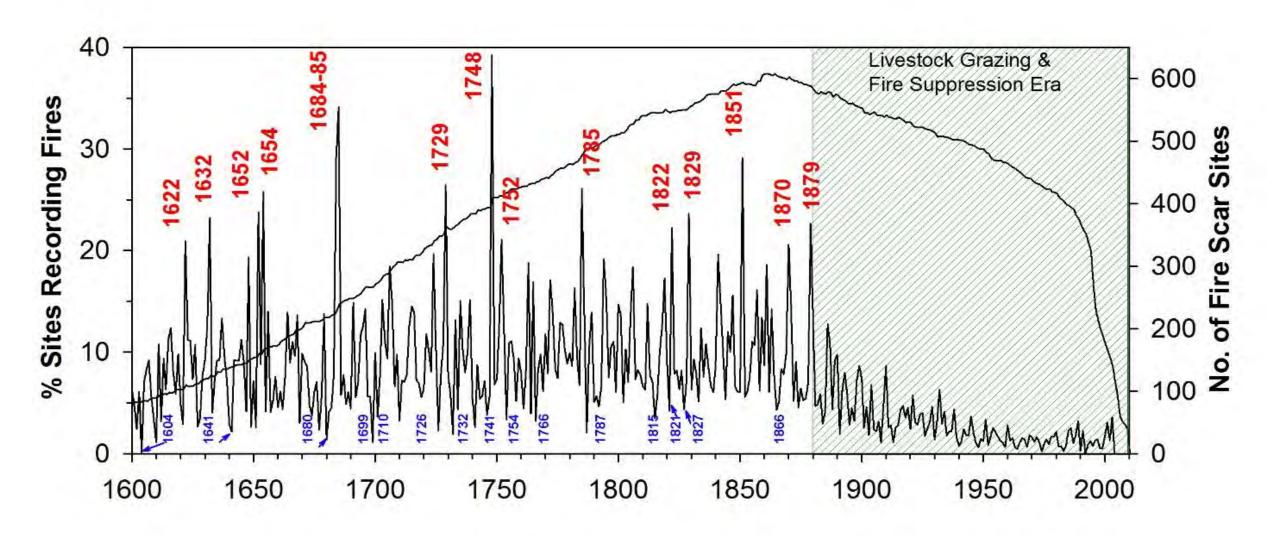
LEGACY OF FIRE SUPPRESSION?

AGENTS OF CHANGE

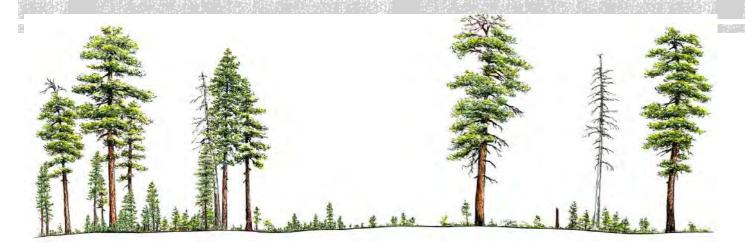


- Colonialism curtailment of Indigenous burning
- Fire suppression policies
- Livestock grazing
- Road and rail construction
- High-grade logging
- Climate change





FIRE EXCLUSION — PATCH DYNAMICS



Fire-maintained forest with a low to moderate severity fire regime



Fire-excluded forest now vulnerable to high-severity fire events





FIRE EXCLUDED LANDSCAPES

Slide courtesy of Paul Hessburg - 2010 photo by John Marshall



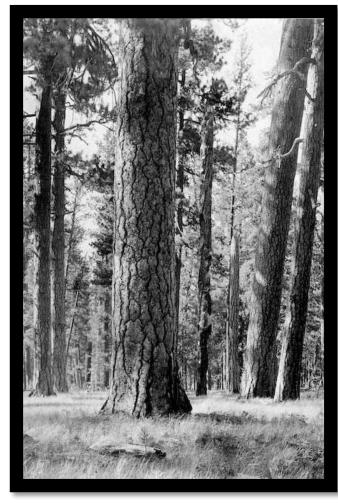
Dry, open slopes and ridgetops became filled with trees

MEGAFIRES AND CLIMATE CHANGE



2014 Carlton Complex, Upper Finley Canyon

MATURE FIRE-ADAPTED FORESTS VS TREE SEEDLINGS

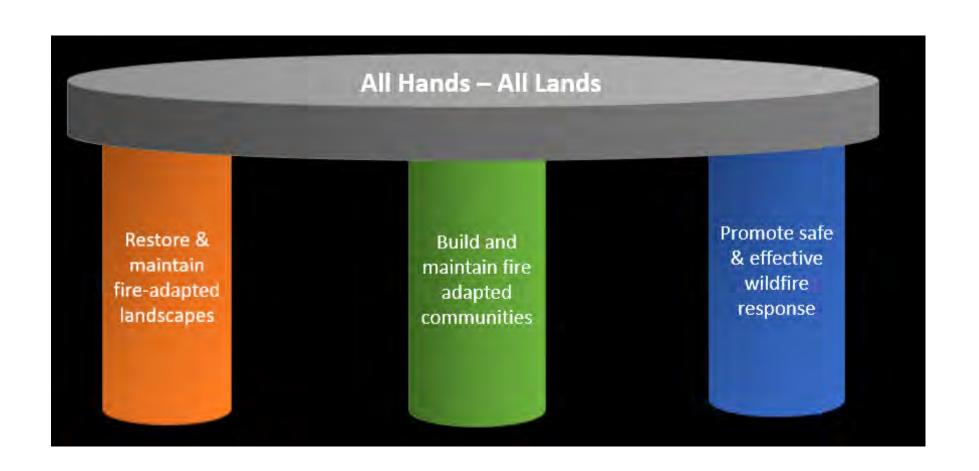


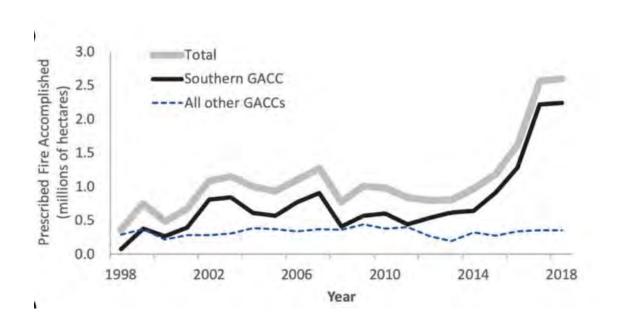
Relatively resilient to climatic extremes and fire



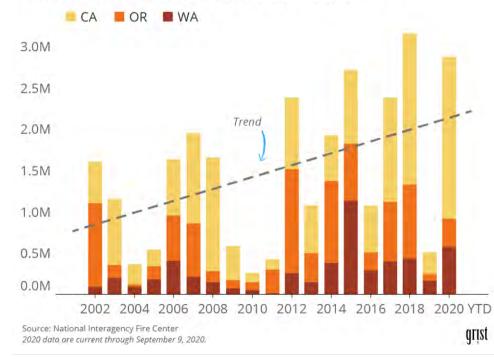
The most vulnerable phase of a plant's life

NATIONAL COHESIVE WILDLAND FIRE MANAGEMENT STRATEGY





U.S. Western wildland acres burned, millions



PACE AND SCALE OF RESTORATION





Article

We're Not Doing Enough Prescribed Fire in the Western United States to Mitigate Wildfire Risk

Crystal A. Kolden®

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INSIGHTS

PERSPECTIVES

Our land was taken. But we still hold the knowledge of how to stop mega-fires *Bill Tripp*

The solution to the devastating west coast wildfires is to burn like our Indigenous ancestors have for millennia



▲ Flames and smoke from the Bobcat fire in Arcadia, California. Photograph: Patrick T Fallon/Reuters

As wildfires rage across California, it saddens me that Indigenous peoples' millennia-long practice of cultural burning has been ignored in favor of fire suppression.

Reform forest fire management

Agency incentives undermine policy effectiveness

By M. P. North, 1,2* S. L. Stephens,3
B. M. Collins, 1,3 J. K. Agee, G. Aplet,5
J. F. Franklin, P. Z. Fulé⁶

ENVIRONMENTAL SCIENCE

(NCWFMS) (6) and the U.S. Forest Service's (USFS's) current effort to revise national forest (NF) plans provide openings to in-

Many severe wildfires are due to past fire suppression. Firefighters during the Rim Fire near Yosemite National Park, California, 25 August 2013.

Opinion

Using Wildfires as an Excuse to Plunder Forests

Logging won't end the blazes that are sweeping the West.

By Chad T. Hanson and Michael Brune

Dr. Hanson is an ecologist whose research focuses on forest and fire ecology. Mr Brune is the executive director of the Sierra Club.

Sept. 4, 2018







Anders Nilsen

https://www.theguardian.com/comment is free/2020/sep/16/california-wild fires-cultural-burns-indigenous-people

