Wilderness Fire Management: Was it Harder Then or Now?

Wilderness Fire Workshop Choteau, MT – July 9, 2019

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Wilderness Fire

Natural & Wild

A Place for Students of Fire & Fire Ecology

An Ecological Imperative

A Fuels Mosaic

Resilient Ecosystems

Fire Adapted Plants & Animals

Short-term vs. Long-term Risk to Nearby Communities

Future Generations

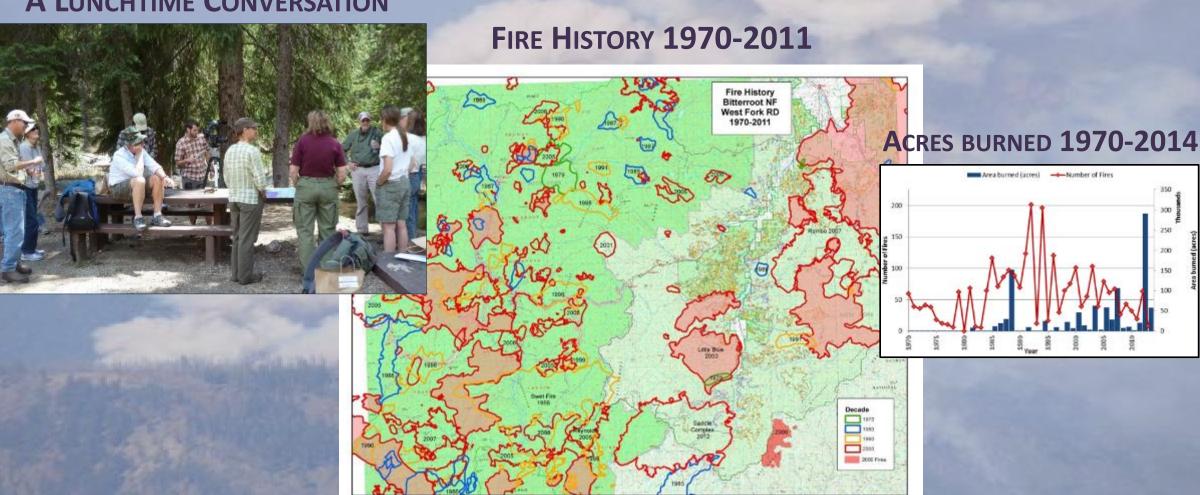
Wilderness Fire in the Northern Rockies: Large wildernesses with room to learn about fire



2014 Field Trip: 40 Years of Wilderness Fire

IN THE SELWAY-BITTERROOT & FRANK CHURCH-RIVER OF NO RETURN

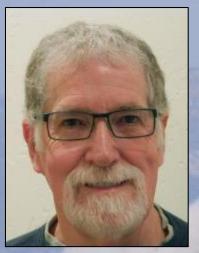
A LUNCHTIME CONVERSATION





Some of the Retired Wilderness Fire Champions in the Northern Rockies **DAVE BUNNELL**

TOM ZIMMERMAN

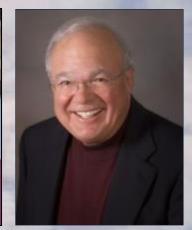


BUD MOORE



Вов Митсн





ORVILLE DANIELS



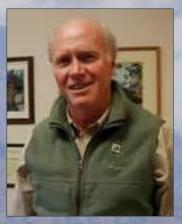
NORM KAMRUD



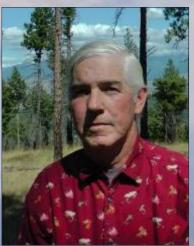
BRAD MCBRATNEY



STU HOYT



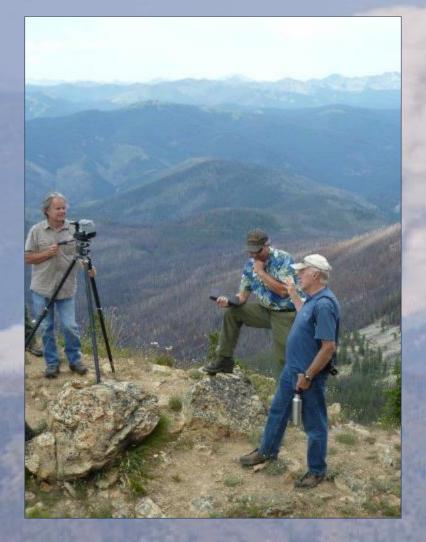
DAVE CAMPBELL



GEORGE WELDON

Interviews: Capturing Insights on Successes & **Challenges of Wilderness Fire Management**

(July 2014 - February 2016)



Dave Bunnell **Dave Campbell Orville Daniels** Stu Hoyt **Deb Mucklow** Mike Munoz Norm Kamrud Tim Sexton Mary Taber Fred VanHorne

Dick Bahr Ed Brunson **Tony Harwood Diane Hutton Brad McBratney Mark Finney** Laurie Kurth Carol Miller Penny Morgan Carl Seielstad George Weldon Tom Zimmerman

Learning from a Legacy of Wilderness Fire In the Bob Marshall Wilderness Complex

Field Trip & Workshop, Spotted Bear, July 2016

Early Champions

- Dave Bunnell
- George Weldon

Current Managers

- Deb Mucklow
- Mike Munoz

Scientists

- Carol Miller
- Phil Higuera
- Andrew Larson
 Sean Parks

9 Videos

http://nrfirescience.org/event/wilderness-fire-workshop-and-field-trips



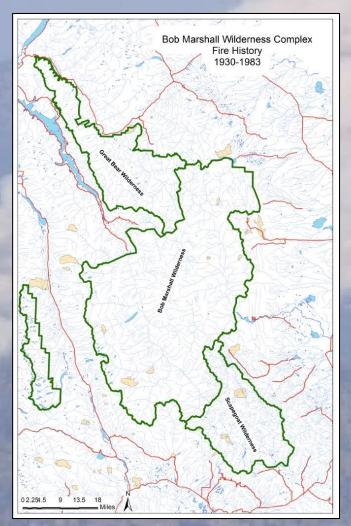
Challenges

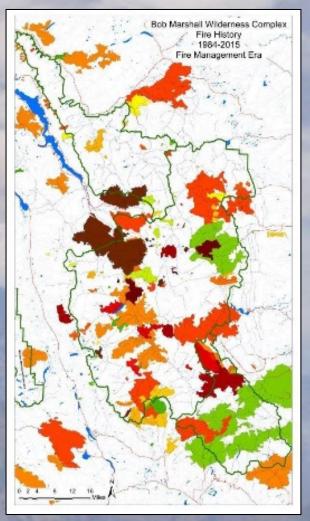
NORTHERN ROCKIES

Celebrating the Bob Marshall Wilderness Complex How Did We Get From A to B?

A: FIRE HISTORY 1930-1983 B: FIRE HISTORY 1984-2015

B: FIRE HISTORY 1984-2015





Wilderness Fire Management: Early Efforts

White Cap Study 1970 (SBW)

Fire Management Area

Bad Luck Fire 1972 (SBW)



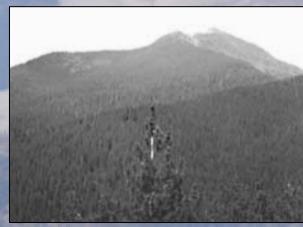
Charlotte Peak Fire 1985 (BMWC)



Was it Easier in the '70s and '80s? It Was Cooler...

REPEAT PHOTOS





-- Fire History Project Salish and Kootenai Tribes

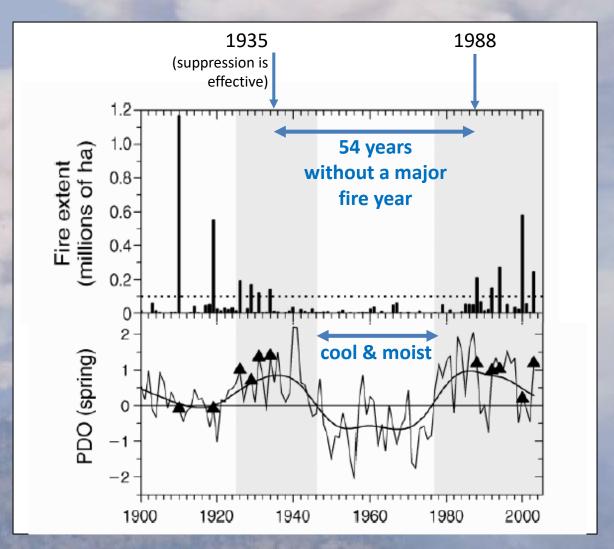


Figure modified from Morgan et al. 2008 Ecology

Was it Easier in the '70s and '80s?

"This was such an outlandish proposal — to allow natural process of fire to burn in wilderness — that it just absolutely exceeded the culture within our agency to accept that."

- Dave Bunnell

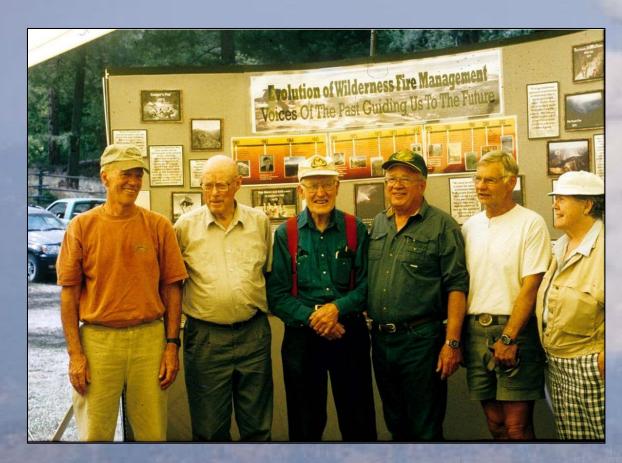






BBC News

Importance of Early Champions



WHITECAP FIVE: BOB MUTCH, BILL WORF,
BUD MOORE, ORVILLE DANIELS, DAVE
ALDRICH

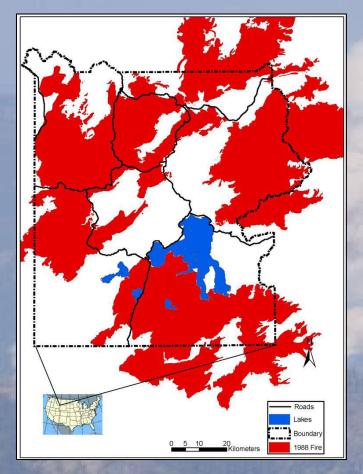


AGENDALESS MEETINGS

Prescribed Natural Fire!

Yellowstone National Park: 1988

1988 FIRES





BIG FIRE, PUBLIC COMMUNICATION, ECOLOGICAL RECOVERY

Howling Prescribed Natural Fire Glacier National Park - 1994



- PNF during National PL5
- 1994 Storm King fatalities
- New Park Superintendent
- Tools: FARSITE, RERAP
- Resources: Dedicated NPS
 Management Team (75 days)

Led to Dedicated Fire Use Teams and Fire Use Modules

2000 - 2009



- Cerro Grande
- Bitterroot Fires
- National Fire Plan
- McDonald II Fire
- 2001, 2003 Policy Updates
- USFS Fire Use Program

Increasing capacity, risk analysis tools, Land Management Plans





2009 - Present

- One Type of Fire 2009 Policy
 Implementation Guidance –
 Management for Multiple
 Objectives, Strategies, Tactics
- Warmer Climate
- Mosaic & Reburns
- More Wildland Urban Interface
- Managing natural fire outside wilderness?



Was It Harder Then Or Now? YES!

Conclusion – 2016 Workshop Discussions

Now

- Warmer climate & bigger fire
- Administrative burden

Then

- No precedent
- No policy
- Lack of science & technology
- Lack of skills for long-duration fires

Reflections

- Personal commitment many passionate champions in the Northern Rockies
- Short window to keep mosaics
- Still working on accepting long-duration fire outside of Wilderness
- What drives objectives (stated and unstated?)

Wilderness Fire – Is it a Religion?





"It's a belief system and an attitude about nature and the specific role that fire plays in nature... when people pick up the ideology that fire is a natural example that has beneficial effects, then it leads you into all kinds of actions. That's just like a religion. A religion is an ideology." - Orville Daniels



Retired Wilderness Fire Champions in the Northern Rockies



VOICES OF THE PAST GUIDING US TO THE FUTURE

For more information:

Northern Rockies Fire Science Network
NRfirescience.org

(http://nrfirescience.org/event/wilderness-fire-workshop-and-field-trips)

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