

A horizontal banner image showing a landscape with snow-capped mountains on the left, a field of yellow and purple wildflowers in the center, and firefighters battling a wildfire on the right.

U.S. Forest Service 2016 Wildfire Season Outlook

Matthew G. Rollins
U.S. Forest Service
Research and Development



Overview

Current situation

Notable Events

Drought and tree mortality

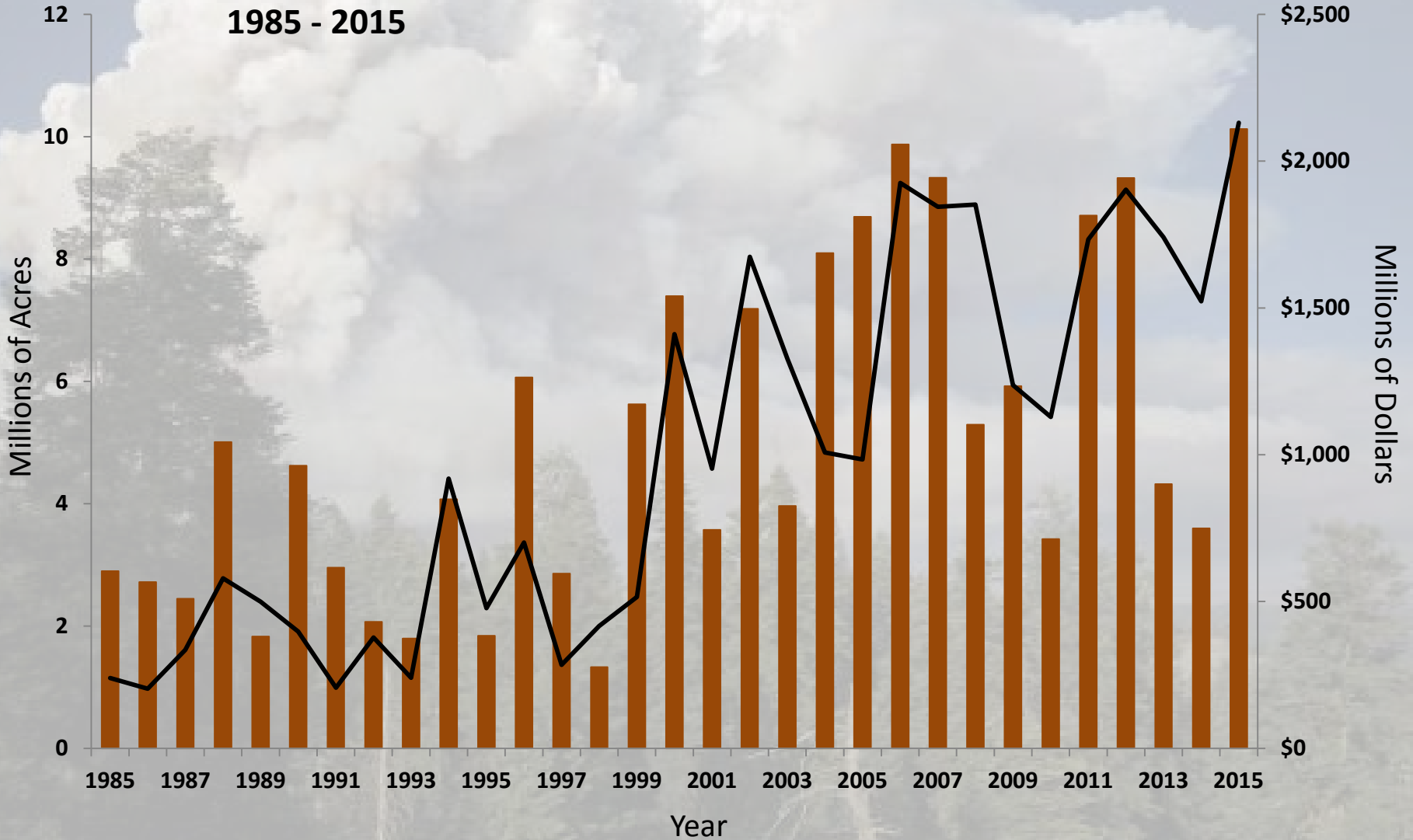
Outlook for the summer

Fire science and technology task force

Some words on risk

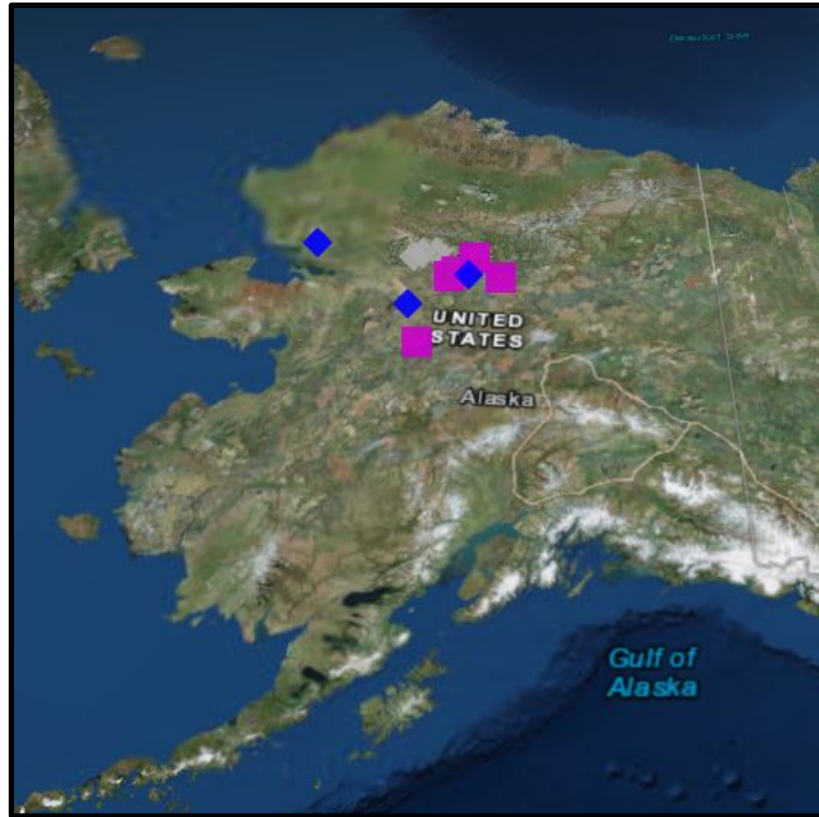


Area burned and suppression expenditures 1985 - 2015



Active Wildfires, Alaska, July 6 2016

- ◆ Large Fire IMT 2 (Other)
- ◆ Wildfire
- Emerging < 24 Hr
- Emerging > 24 Hr



129,861 Acres to date

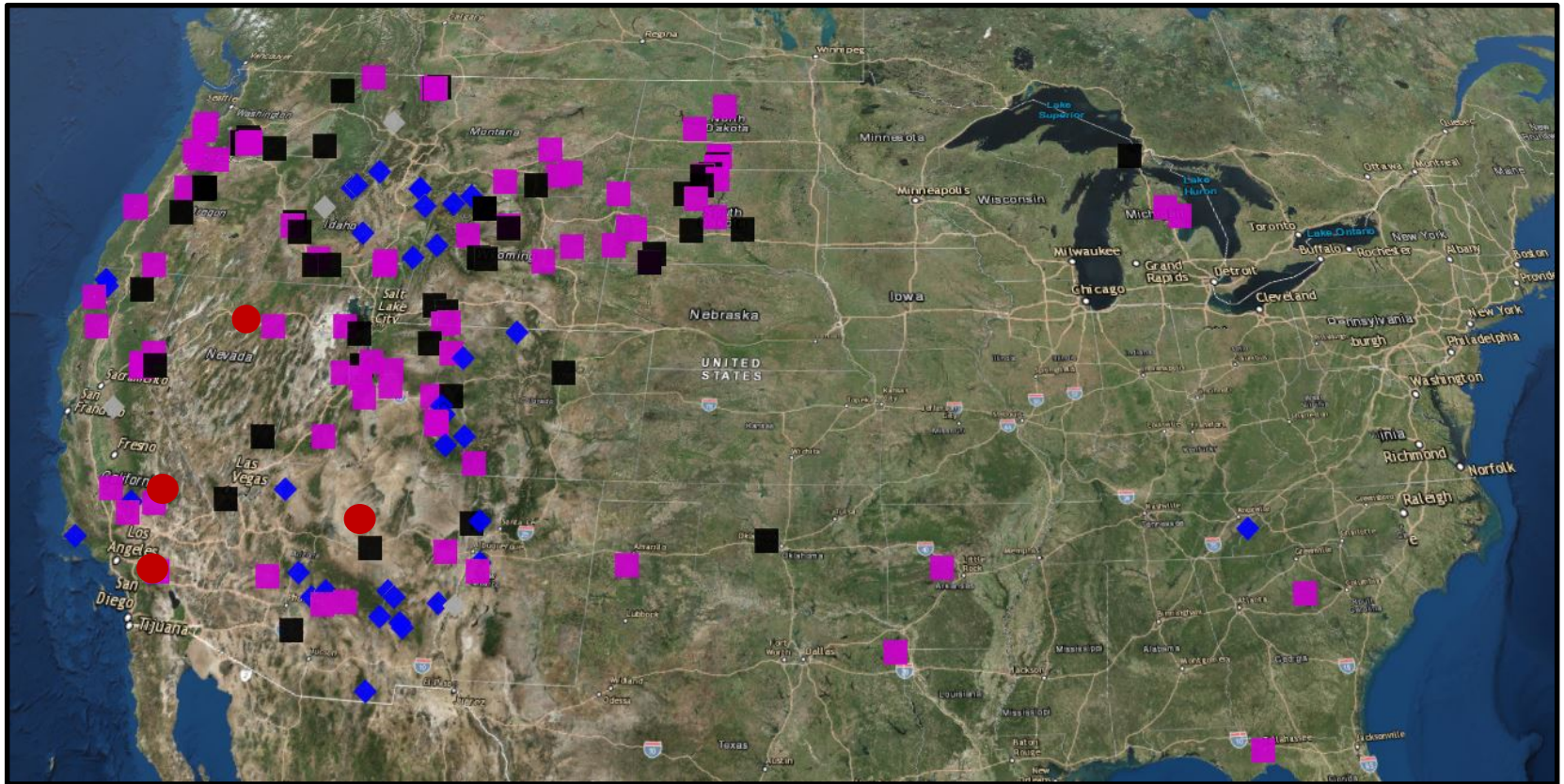


FIRE ENTERPRISE GEOSPATIAL PORTAL



Active Wildfires, CONUS, July 6 2016

2,179,306 Acres to date



- ◆ Large Fire IMT 2 (Other)
- ◆ Wildfire
- Emerging < 24 Hr
- Emerging > 24 Hr
- Notable Events



FIRE ENTERPRISE GEOSPATIAL PORTAL



Notable Events

Erskine Fire, CA (48,000 acres)

- June 23rd
- Burned 238 homes
- 2 fatalities

Cedar Fire, AZ (46,000 acres)

- June 15th
- On June 28th 6 firefighters deployed their fire shelters, no injuries

Pine Fire, CA

- June 15th
- Highest potential for growth



Erskine Fire, CA



Cedar Fire, AZ



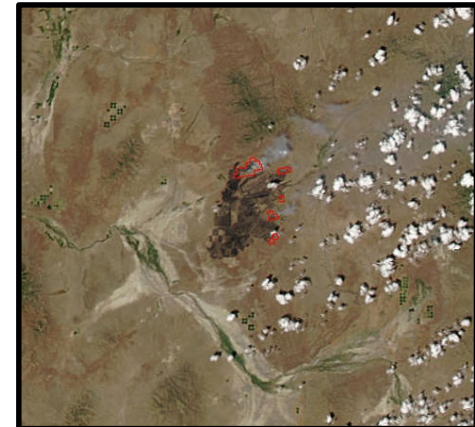
Notable Events

Hot Pot Fire, NV (123,000 acres)

- July 2nd
- Burned 90,000 acres in first 24 hours

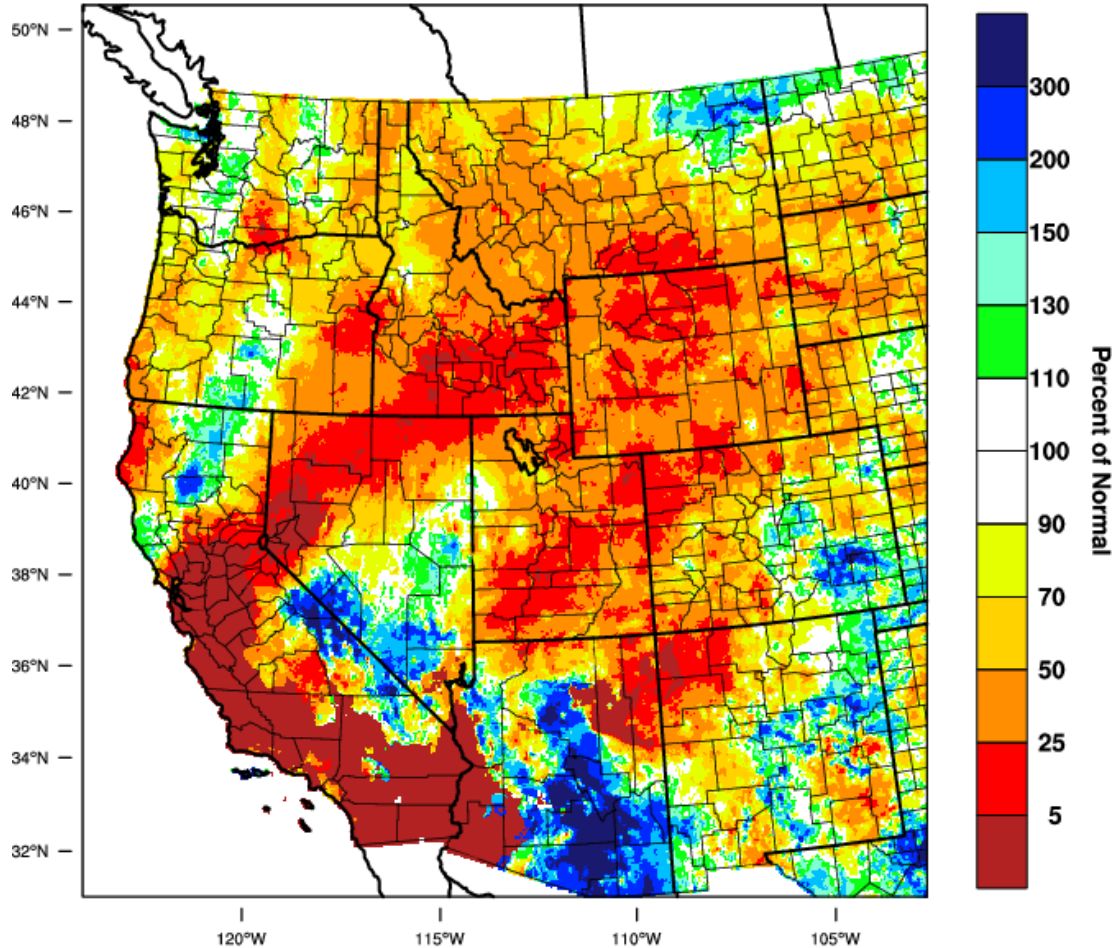
Time lapse of plume development during the first hour:

<https://youtu.be/sQp0BXcsKk4>





Western United States - Precipitation June 2016 Percent of 1981-2010 Normal



WestWide Drought Tracker, U Idaho/WRCC Data Source: PRISM (Prelim), created 5 JUL 2016



Science Serving Society



Drought and Tree Mortality in California

- Drought persists through the fall, despite increases in precipitation from El Niño last winter
- Predicted La Niña could lead to dryer conditions
- Recent survey estimated 66m dead trees in the southern Sierra Nevada





Tree Mortality and Fire in California

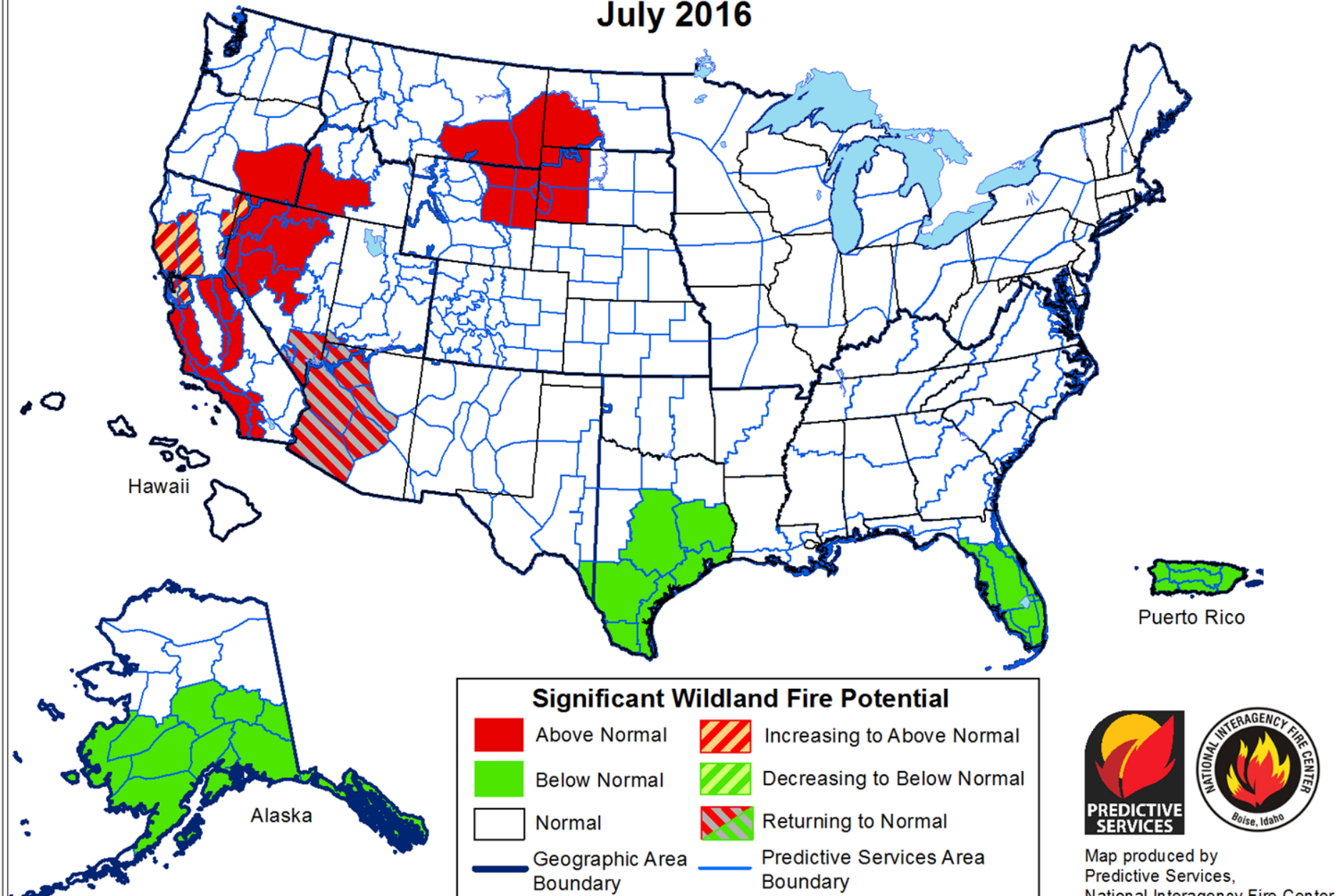
Dead trees with red needles, are more flammable than live trees.

After needle drop, the standing dead trees generally do not pose an increased risk of wildfire.

Once the trees fall, the potential to increase fire severity returns with the increased amount of large fuel on the forest floor.



Significant Wildland Fire Potential Outlook July 2016

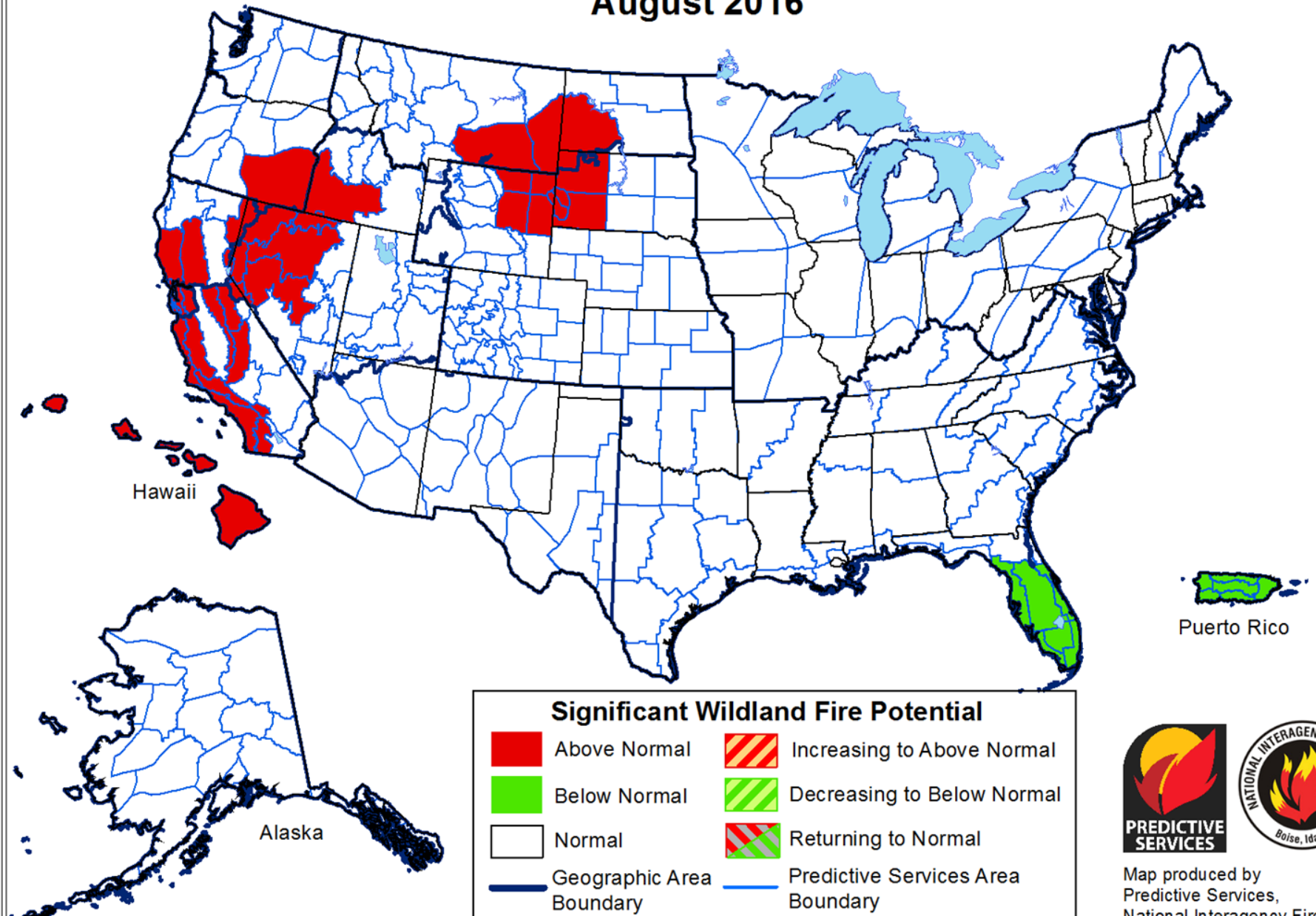


Above normal significant wildland fire potential indicates a greater than usual likelihood that significant wildland fires will occur. Significant wildland fires should be expected at typical times and intervals during normal significant wildland fire potential conditions. Significant wildland fires are still possible but less likely than usual during forecasted below normal periods.



Map produced by
Predictive Services,
National Interagency Fire Center
Boise, Idaho
Issued July 1, 2016
Next issuance August 1, 2016

Significant Wildland Fire Potential Outlook August 2016

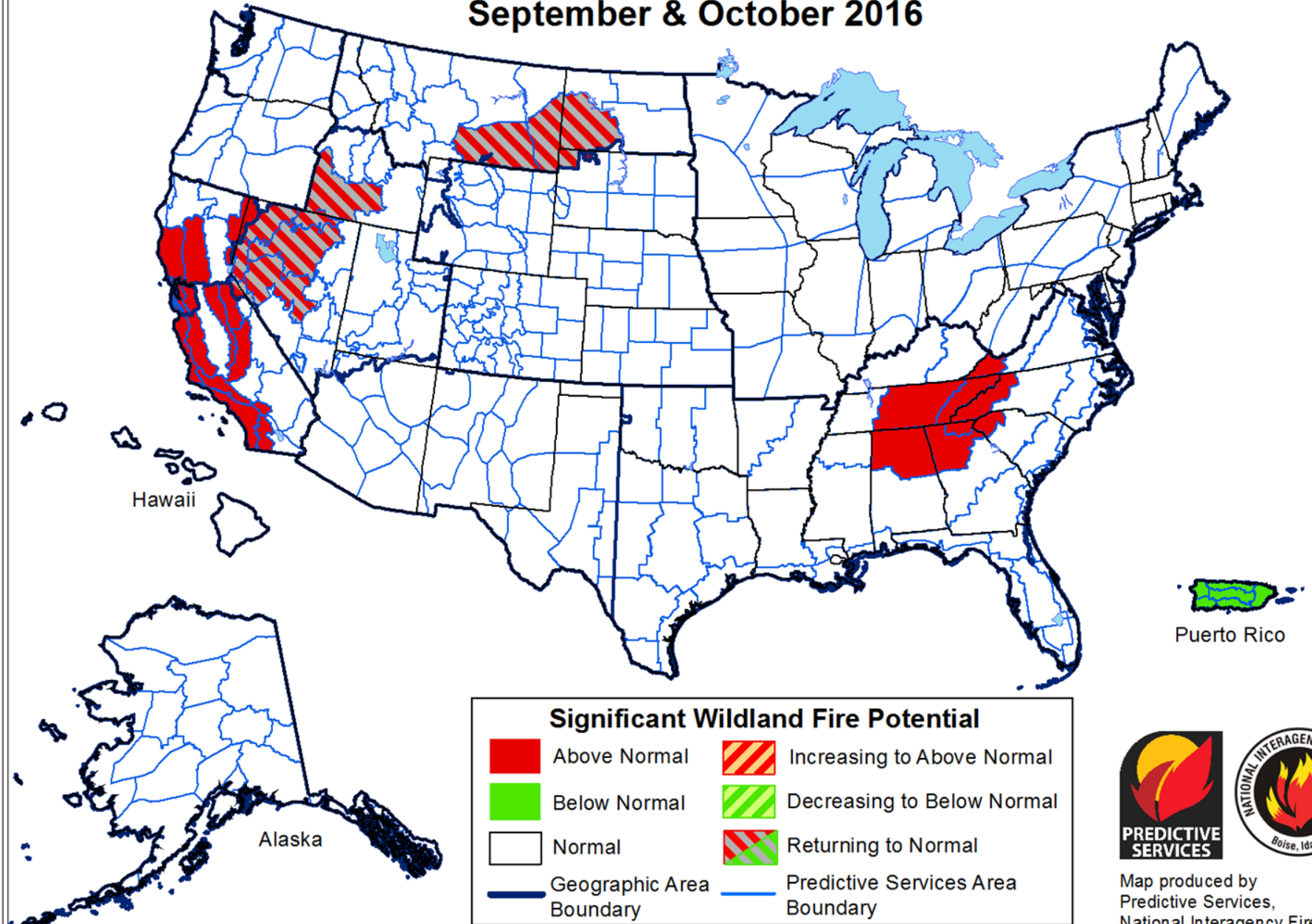


Above normal significant wildland fire potential indicates a greater than usual likelihood that significant wildland fires will occur. Significant wildland fires should be expected at typical times and intervals during normal significant wildland fire potential conditions. Significant wildland fires are still possible but less likely than usual during forecasted below normal periods.



Map produced by
Predictive Services,
National Interagency Fire Center
Boise, Idaho
Issued July 1, 2016
Next issuance August 1, 2016

Significant Wildland Fire Potential Outlook September & October 2016



Above normal significant wildland fire potential indicates a greater than usual likelihood that significant wildland fires will occur. Significant wildland fires should be expected at typical times and intervals during normal significant wildland fire potential conditions. Significant wildland fires are still possible but less likely than usual during forecasted below normal periods.



Map produced by
Predictive Services,
National Interagency Fire Center
Boise, Idaho
Issued July 1, 2016
Next issuance August 1, 2016

Federal Fire Science Coordination Council

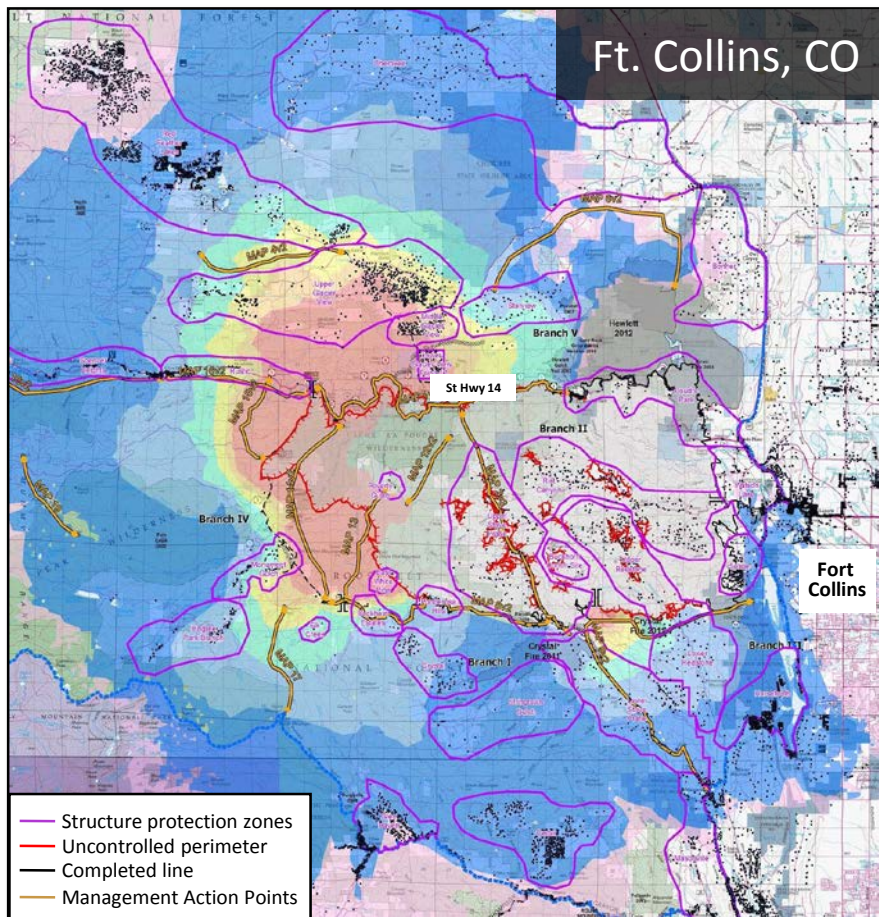
Initial meeting on June 8th

- Early scoping
- Membership
- Charter
- Products/Outcomes
- First 'Real' meeting October 12-13 in D.C.



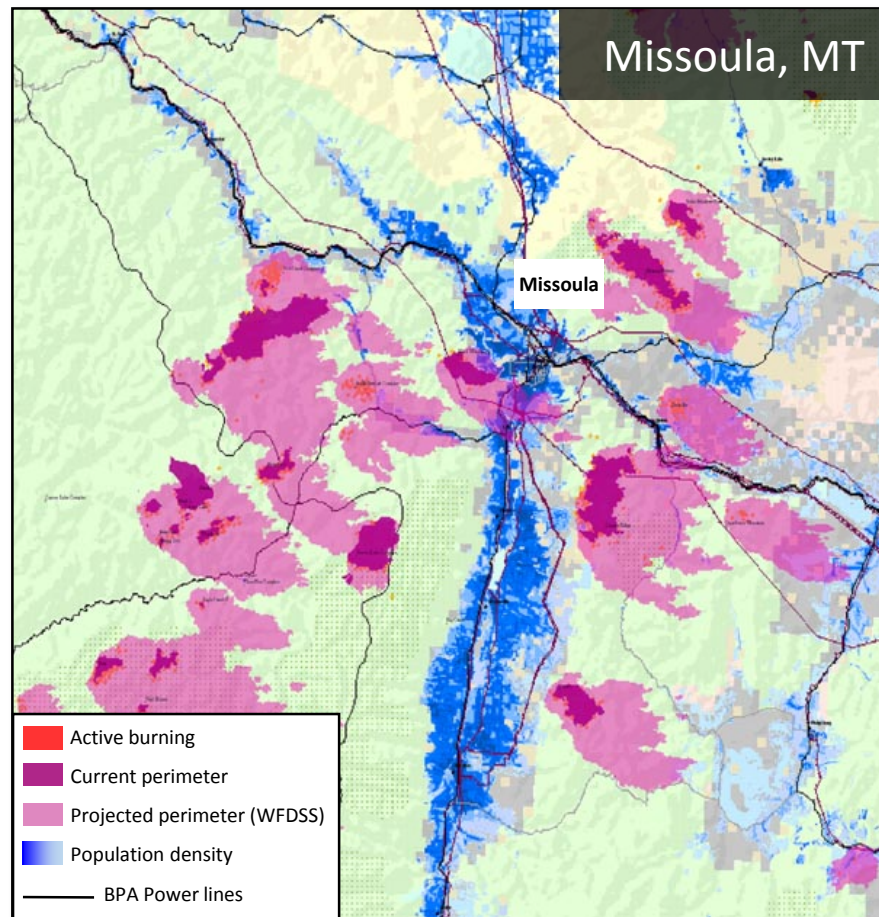


Local Level



0 2 4 6 Miles

Regional Level



0 10 20 Miles



How do we successfully approach wildfire risk?

Tactical risk aversion

‘Smart money’ is on acquiring resources and practicing aggressive suppression.

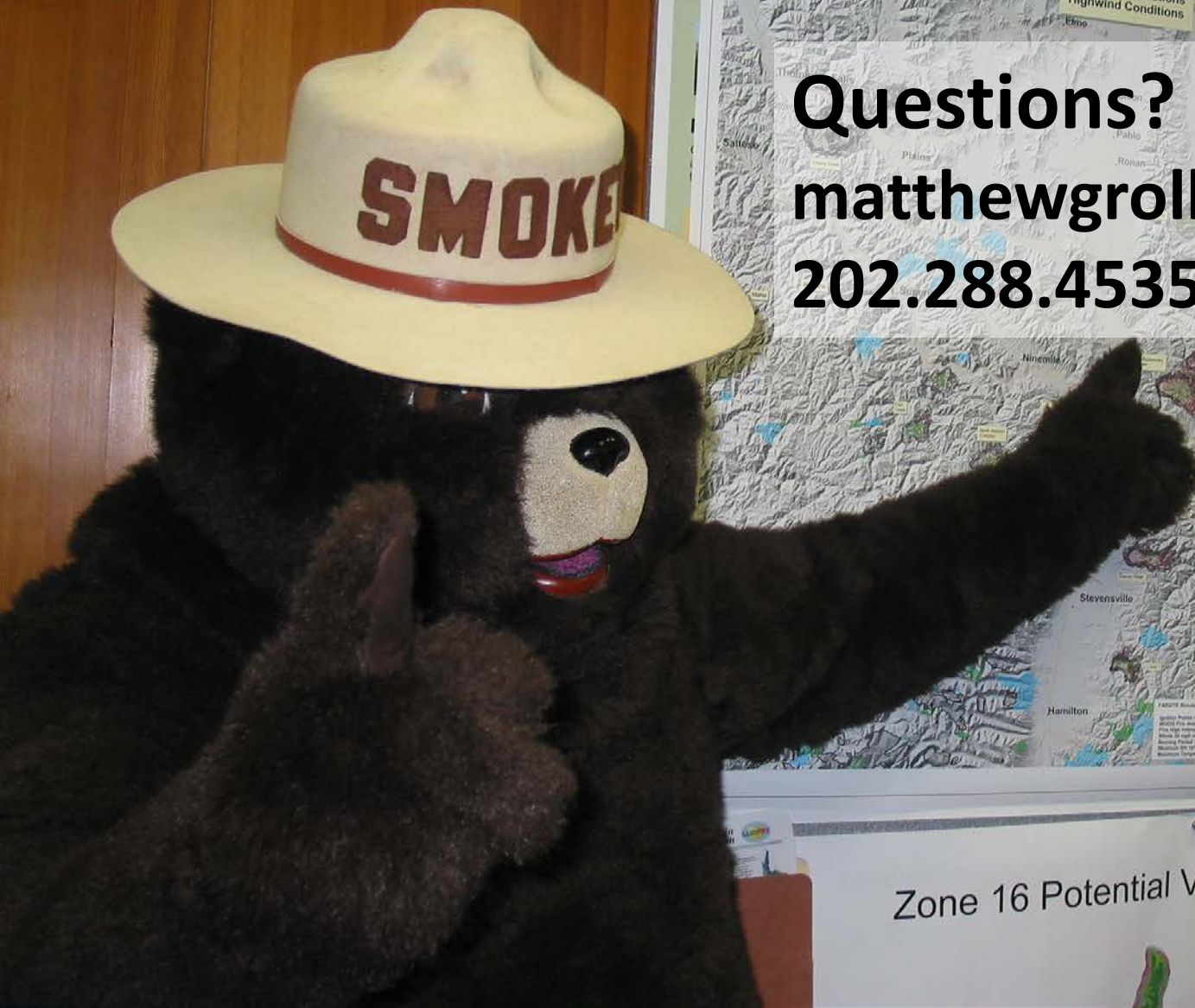
Strategic risk management

Improved social environment for proactive mitigation, sharing risk across stakeholders, and reduction of uncertainty around ‘less aggressive’ suppression.





I THINK I'M GOING NUTS, DOC!
I KEEP HEARING STRANGE VOICES...
SAYING IT'S MY FAULT... THAT
ONLY FOREST FIRES CAN
PREVENT FOREST FIRES...



Questions?
matthewgrollins@fs.fed.us
202.288.4535



Zone 16 Potential Vegetation Type

Actual