

## WRPWebinar on Wildfire & Forestry

Presented by:

- Chief Ken Pimlott, State Forester, CA Department of Forestry & Fire Protection
- Mr. Mike Zupko, Executive Manager, Wildland Fire Leadership Council
- Mr. Troy Timmons, Director of Strategic Initiatives, Policy Advisor, Western Governors' Association

## **Presentation Outline**

- History, mission and key activities of our organizations
- National Cohesive Wildland Fire Management Strategy
- Outlook and trends in wildfires in the West
- WGA Chairman's Initiative
- Collaborative efforts and best practices



## **Presentation Outline**

## State, Regional, National









The Council of Western State Foresters (CWSF) is a nonpartisan, nonprofit membership organization comprised of state, territorial and commonwealth foresters whose role is to protect, conserve and enhance Western and Pacific Island forests.

CWSF's membership is comprised of 17 Western U.S. state foresters and six U.S.-Affiliated Pacific Island foresters. CWSF takes a broad and comprehensive approach to forest management and provides expertise on the many complex and interrelated factors at play in Western forestry.

Though there is great diversity across Western and Pacific Island forests, there are key forest management issues shared across forests types and jurisdictions. Addressing these pressing issues in forest management and conservation is the focus of CWSF's work.





The Mission of the Western Forestry Leadership Coalition (WFLC) is to promote science-based forestry management that serves the values of society and ensures the health and sustainability of Western forests.





#### Goals

*Launch* initiatives that position the West to respond to the forest resource needs of the public.

**Strengthen** the voice of Western forestry as it relates to matters of forest policy and land management.

*Facilitate* the development, integration and implementation of Western State and Private Forestry programs.

*Maximize* federal and state financial investments by combining resources and partnerships across agency and ownership boundaries.

*Tackle* emerging West-wide issues by providing research, recommending polices, and coordinating efforts across land ownerships.



#### Western Governors' Association





- WGA 19 western states and 3 U.S. flag islands
  - WGA serves as an instrument of the Governors for bipartisan policy development, information-sharing, and collective action on issues



### Western Governors' Association

- Chair: Steve Bullock, Governor of Montana
- Vice Chair: Dennis
   Daugaard, Governor
   of South Dakota





## Wildland Fire Leadership Council

#### Mission

- Dedicated to consistent implementation of wildland fire policies, goals and management activities.
- Provides strategic oversight to ensure policy coordination, accountability and effective implementation of long-term strategies.





## Wildland Fire Leadership Council

#### History

- Stemmed out of National Fire Plan in 2002
- Chartered by Secretaries of Agriculture, Interior, Homeland Security and Defense
- Forum for high-level dialogues
- Informs wildland fire policies, goals and management activities





## Wildland Fire Leadership Council

#### <u>Membership</u>

- USDA Undersecretary/Deputy and DOI Assistant Secretary (co-chairs)
- Department of Defense, Assistant Secretaries (2)
- FS and DOI Bureau Chiefs (BLM, FWS, NPS, BIA, USGS)
- FEMA/USFA Administrator
- National Governors' Association (2)
- National Association of Counties
- National League of Cities
- Intertribal Timber Council
- International Association of Fire Chiefs
- National Association of State Foresters



## Wildland Fire Governance Structure









#### **Evolution towards Cohesive Strategy**

- Increasing Duration and Severity of Fire Seasons
- Decrease in Firefighting Workforce
- Reduced Resilience of the Landscape
- Increase in Development in the WUI
- Federal Fire Funding Challenges
  - Fire Borrowing
  - Structure of Funding



"Safely and effectively extinguish fire, when needed; use fire where allowable; manage our natural resources; and as a nation, live with wildland fire."



#### What is the Cohesive Strategy?

- A **national, collaborative** approach to addressing wildland fire across all lands and jurisdictions
- Developed with input from wildland fire organizations, land managers and policymaking officials representing all levels of governmental and non-governmental organizations
- <u>2009 FLAME Act</u> Directs
   Departments of Agriculture and the
   Interior to develop a Cohesive
   Wildland Fire Management
   Strategy 5 year process

- <u>GAO recommendations</u>
  - Articulate potential approaches
  - Estimate costs of each approach
  - Describe trade-offs associated with each approach

- Three Phase Process
  - I The Blueprint
  - II Regional Assessments
    - Assessment of situation
  - III Analysis and Action Plans
    - Risk analysis
    - Alternatives and actions
    - Implementation strategy

#### <u>Three Focus Areas</u>

- Restore and Maintain Landscapes
- Fire Adapted (human) Communities
- Effective and Efficient Wildfire Response







### All Hands – All Lands

- **Restore Resilient Landscapes:** Landscapes across all jurisdictions are resilient to fire-related disturbances in accordance with management objectives
- **Fire Adapted Communities:** Human populations and infrastructure can withstand a wildfire without loss of life and property
- Wildfire Response: All jurisdictions participate in making and implementing safe, effective, efficient risk-based wildfire management decisions





#### National Development



Scientific Basis for Modeling Wildland Fire Manage The Phase II Report of the National Science and Analysis Te





#### The National Strategy

The Final Phase is the Development of the National Coherene Wildland Fire Blanapement Strategy



April 2014



#### NATIONAL ACTION PLAN

An Implementation Framework for the National Cohesive Wildland Fire Management Strategy

April 2014



http://forestsandrangelands.gov/strategy/index.shtml

The Cohesive Strategy is <u>not</u> a new program — it is a mechanism to promulgate a way of behaving that prioritizes and leverages resources, collaborates across jurisdictions, programs and physical boundaries, and ensures shared-decision space to achieve ecological, economic and social objectives.



#### National Considerations High priority barriers and critical success factors





## National Implementation (select examples)

- Department of Interior
  - Risk Based Wildland Fire Management
  - Resilient Landscapes Program
  - Rangeland Secretarial Order
- US Forest Service
  - Two Chiefs' Projects (with NRCS)
  - CS Pilot Projects
  - Local Agreements and Community Focus
  - CFLR and Watershed Restoration Projects
- USFA grant program expansion of wildfire
- Fire Adapted Communities Network and Expansion
  - FAC Learning Network TNC/Watershed Center
  - IAFC Ready, Set Go! Initiative
  - NFPA Firewise



### **Additional National Opportunities**

- Good Neighbor Authority
- Enhanced flexibility with Stewardship Contracting
- Targeted Federal Assistance Targeting high risk on federal lands matched with state and local partners stepping up
- Reassessing Community Assistance Capabilities
- Continued Focus on FAC locally
- Shared Resources Expanded agreements and training/recognition



## The Cohesive Strategy Organization



# Regional Development and Implementation

- Regional Strategy Committees formed early 2011
- Regional Risk Analysis Completed 2012
- Regional Action Plans Completed 2013
  - Multiple actions and tasks offering options
  - Collaborative framework established and nurtured





#### The National Strategy

The Final Phase in the Development of the National Cohesive Wildland Fire Management Strategy



April 2014

## Why should you care about implementing the Cohesive Strategy?



#### Regional Development and Implementation

What are <u>important actions</u> the regions (WRP) or **states** (or locals) could take to address the 3 CS Goals?

- **Convene leaders** to identify priority landscapes and issues
- **Use current collective planning resources** to identify landscapes, set priorities, and identify projects
- Understand values to be protected
- **Use the collaboration to communicate and coordinate** among CS partners.
- Encourage guidance to facilitate program integration as an interagency priority (program alignment)
- Share successes (collaborative efforts, projects, grants, community actions



#### National Cohesive Wildland Fire Management Strateg

Restoring Resilient Landscapes - Creating Fire Adapted Communities - Responding to Wildfires

#### **Opportunities for local engagement**

#### **Cohesive Strategy**



#### WFLC Current Activities

New business model for an effective govt – reduce redundancy. Include key E.O. and S.O.

Mission centered and operational readiness

"Big data, big science, shared stewardship"

"Solution is in the economy, not the treasury"



### WFLC Current Activities

WFLC (areas of joint opportunity in the short and mid-term)

- Landscape Level Collaboration
- Smoke Management and Air Quality
- Environmental Compliance
- Reducing Risk to Communities
- Efficient and Effective Response



## WFLC Current Activities

- Landscape Level Collaboration
- Center of Excellence
- Smoke Management and Air Quality
- EPA messaging
- Interest in EPA R-10 to expand use of Rx Fire
- OR very interested in revision to SMP
- Other EPA regions have expressed similar interest



#### <u>Reducing Risk to Communities</u>

<u>http://www.southsoundprairies.org/</u> - Puget Sound (WA) Joint Base Lewis-McChord , TNC, WADNR, Center for Natural Lands Management (Rx Fire, grazing, bayshore) <u>https://www.army.mil/article/64103/169586</u>

**"CalTREX"** –Prescribed Fire councils, FLN, USFS, CalFire, NRCS and others – Prescribed fire Training Exchange and flagship initiative of state Rx Fire MOU



# 2017 Fire Season Status & Outlook

#### **Bryan Henry**

Assistant National Program Manager Predictive Services















June

October













#### Current Large Incidents May 15, 2017



#### Current Large Incidents May 19, 2017



**O HUTTO** 

30TH AVE



Fires and Acres Year-to-Date (by Protection):									
Area		BIA	BLM	FWS	NPS	ST/OT	USFS	TOTAL	
Alaska Area	FIRES	0	19	0	0	46	3	68	
	ACRES	0	1,996	0	0	43	1	2,040	
Northwest Area	FIRES	1	4	1	0	24	14	44	
	ACRES	1	0	1	0	52	2	56	
Northern California Area	FIRES	0	1	0	1	125	11	138	
	ACRES	0	401	0	1	195	7	604	
Southern California Area	FIRES	2	11	0	3	421	47	484	
	ACRES	4	30	0	3	8,407	283	8,727	
Northern Rockies Area	FIRES	193	4	2	0	75	5	279	
	ACRES	524	39	207	0	481	1	1,252	
Great Basin Area	FIRES	4	32	0	3	57	4	100	
	ACRES	2	34	0	3	653	1	693	
Southwest Area	FIRES	241	80	3	9	279	128	740	
	ACRES	511	609	53	134	67,200	7,183	75,690	
Rocky Mountain Area	FIRES	77	26	6	2	209	37	357	
	ACRES	1,903	170	199	58	467,671	1,947	471,948	
Eastern Area	FIRES	317	0	5	14	1,876	220	2,432	
	ACRES	672	0	14	129	7,230	3,047	11,092	
Southern Area	FIRES	255	8	29	24	16,614	295	17,225	
	ACRES	60,250	36	134,745	52,944	1,226,981	24,307	1,499,263	
TOTAL FIRES:		1,090	185	46	56	19,726	764	21,867	
TOTAL ACRES:		63,867	3,315	135,219	53,272	1,778,913	36,779	2,071,365	

Ten Year Average Fires (2007 – 2016 as of today)	22,273	
Ten Year Average Acres (2007 – 2016 as of today)	900,074	

#### **Current Fire Activity**

## Historical (6 Year Cycle Emerging)


## Climate

#### Water Year – Since 01 Oct 2016

Percent of Normal Precipitation (%) 10/1/2016 - 5/7/2017



#### Last 30 Days – Since 08 Apr 2017



Percent of Normal Precipitation (%) 4/8/2017 - 5/7/2017



Generated 5/8/2017 at HPRCC using provisional data.

Regional Climate Centers





Regional Climate Centers



## Snowpack







## Drought





## Moisture Impact on Fuels

- Moisture is a double edged sword for fire activity.
  - Less water means drier heavy fuels, lower moisture in live fuels, increased mortality.
  - More water means more continuous brush, grass fuels, heavier fuel loads.



## Southwestern Season Developments

Percent of Normal Precipitation (%) 4/8/2017 - 5/7/2017



#### CFSv2 Initialization: 2017-05-06, Forecast Period: 2017-06-03 -> 2017-06-09



Departure from Normal Temperature (F) 4/8/2017 - 5/7/2017



- Image taken from the CFS long range model.
- While accuracy of this model's data is sometimes suspect, it can do a fair job on predicting overall patterns.
- In this image, we are interested in the lines which indicate/infer wind flow from west to east.
- Colors indicate abnormal numerical values associated with the lines. Reds are higher than average (warmer). Blues are lower than average (cooler.)
- Potential impacts are shown on the map.

## Fuel Conditions and Weather Outlook 🌾

- Slow melt of Western Snowpack could lead to delayed start in higher elevations if current trends continue. Bumper crop of fine fuels expected in the lower elevations.
- California has for the most part exited the multiyear drought. Lingering snowpack is > 300% of normal in several locations!
- Long term drought conditions appear to be worsening across the Southeast and are starting to develop across the Southwest.

## Fuel Conditions and Weather Outlook 🌾

- The Central and Southern Great Plains have experienced significant relief from drought conditions though there are parts of Central Texas that are dry.
- Keep an eye on Alaska. The interior has been slightly warmer than average and the snowpack came off a little earlier than normal across parts of the interior. Also, greenup appears to be less robust than normal.

## Significant Wildland Fire Potential Outlook









### 2017 Fire Season Factors to Consider



Boise, Idaho

Issued May 1, 2017

Next issuance June 1, 2017

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.



## PREDICTIVE SERVICES

## Western Trends

Drastic increase in the occurrence of large, damaging wildfires

Five years of historic drought

Unprecedented bark beetle epidemic

Three consecutive warmest years on record

Followed by one of the wettest years on record







2015 Valley Fire

# **10** OF CALIFORNIA'<mark>s 20</mark> LARGEST WILDFIRES HAVE BURNED SINCE 2007



# TREEMORTALITY Northern Fresno County







Western Trends So, what needs to be done? Maintain strong response model, including local, state and federal partners.

Increase pace and scale of Rx fire and fuels treatments that mimic the effects of beneficial fire

Active management of forestlands and watersheds

To do this, we need to gain social license









**Prescribed Fire MOU** 







2013 Rim Fire



# Good Neighbor Authority Large Landscape Level Projects

2014 King Fire

WESTERN REGIONAL PARTNERSHIP

## 'Ready for Wildfire' app







& FIRE PROTE

SINCE 1885







## Western Landscape Initiatives

#### West Wide Risk Assessment and state assessments

### Landscape Scale Restoration

## State Forest Action Plans and State Wildlife Action Plans



Initiative Goals:

- Give states an opportunity to share successes (and failures)
- Hard look at collaboration
- Examine current statutory authorities (GNA, SCA, I&D)
- Recommend improvements



Process:

- Workshops
- Webinars
- Survey Instruments



## Findings:

- First year released at WGA's Annual Meeting
- Second year workplan under development



Looking ahead:

- Department of Defense role
- Management challenges on Defense lands
- Opportunities for collaboration and involvement



## Collaborative Efforts and Opportunities

# DISCUSSION





