

Wildfire Characteristics in California

Status and Trends

Tadashi Moody
Fire and Resource Assessment Program
CAL FIRE

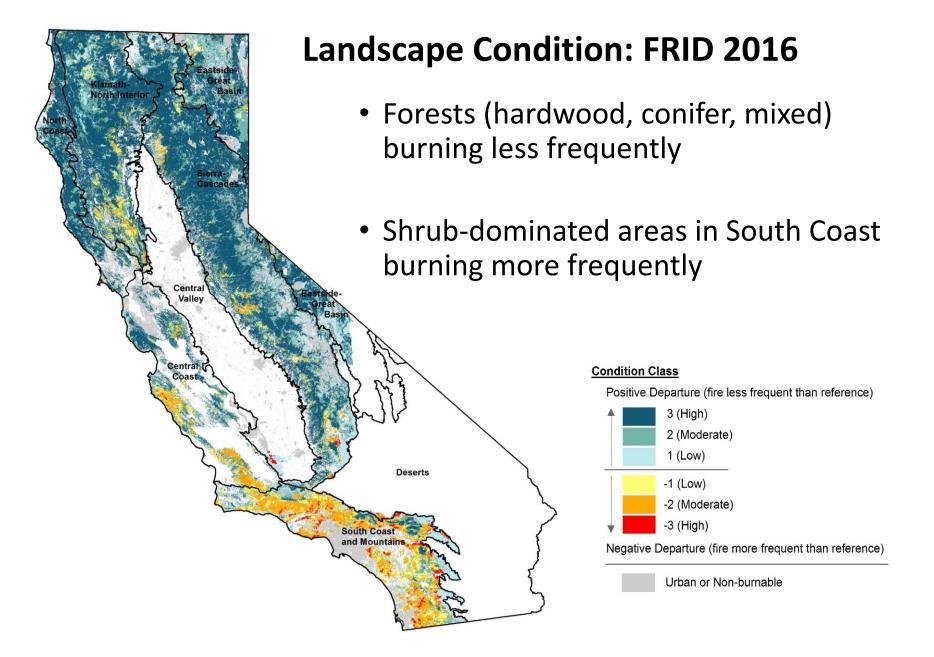
March 27, 2018

National Cohesive Wildland Fire Management Strategy Workshop Reno, NV

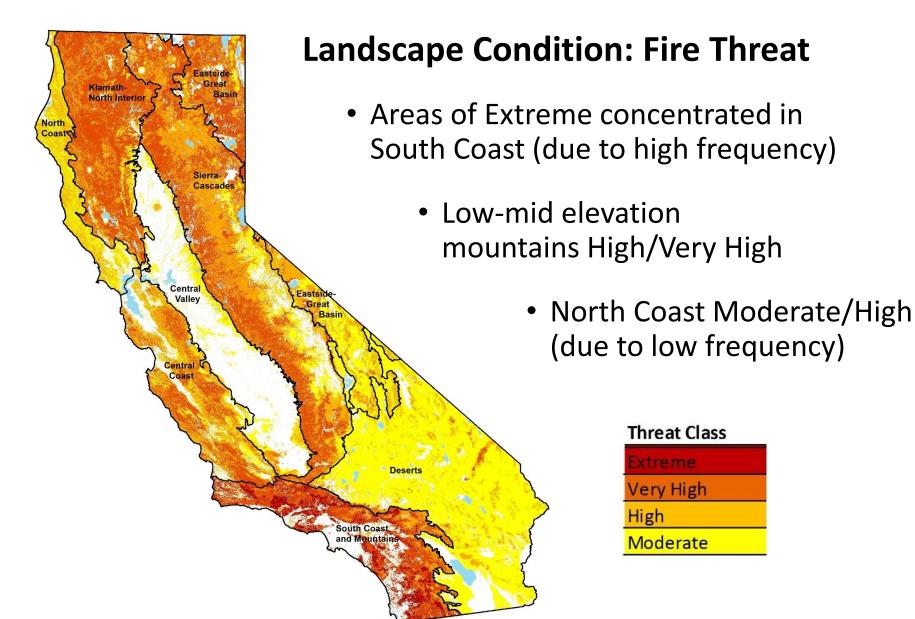
Wildfire Indicators

- Landscape Condition
 - Fire Return Interval Departure
 - Fire Threat
- Wildfire Activity
 - Area Burned
 - Fire Severity
- Fire and Fuel Management
 - Area Treated

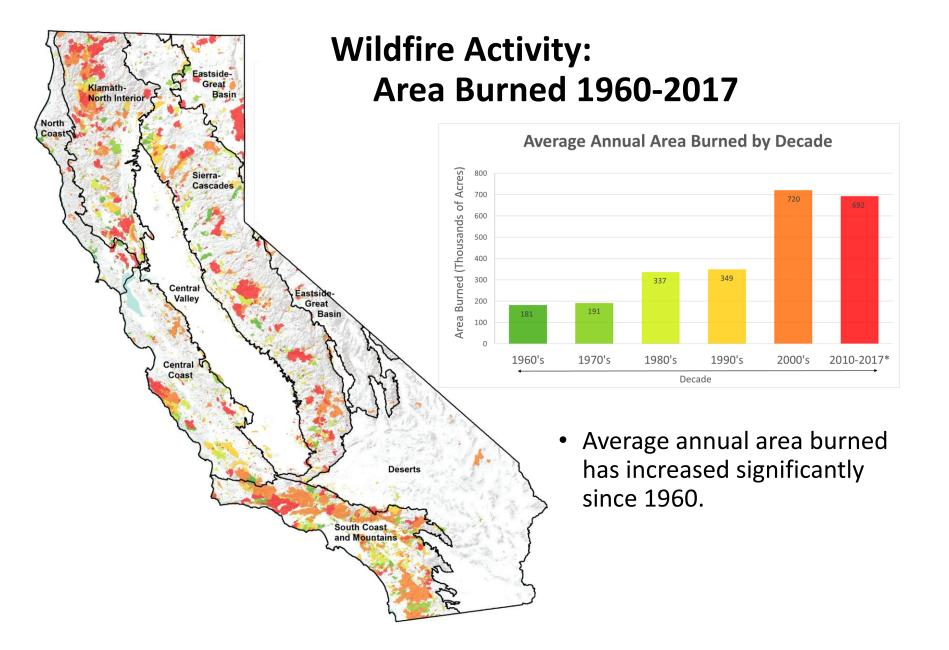






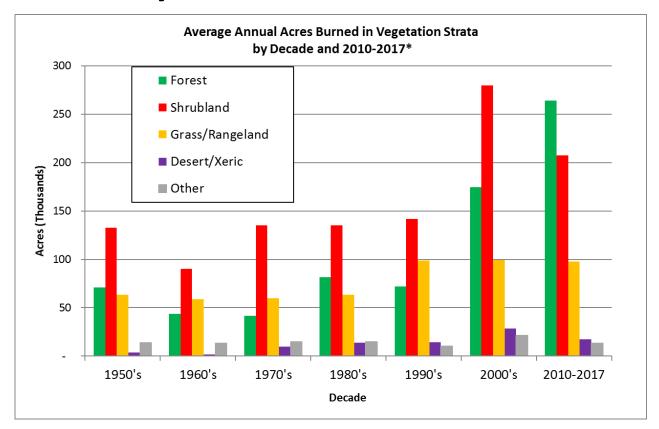








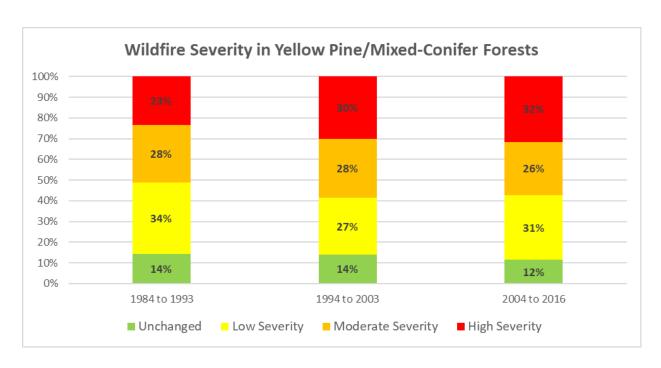
Wildfire Activity: Area Burned 1960-2017



- Increase in annual area burned in both conifer and shrub over the last two decades
- 2000-2009, more shrub. 2010-2017, more forest.



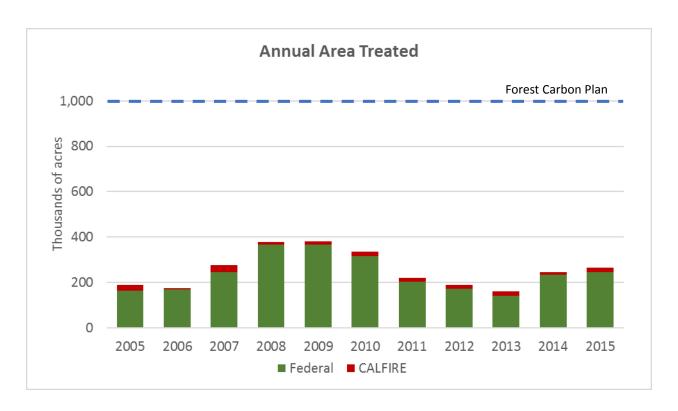
Wildfire Activity: Fire Severity in Yellow Pine & Mixed-conifer Forests



- Last 3 decades, high severity fire outside NRV (4-13%, Safford and Stevens 2017)
- Evidence for patch size increasing, complexity decreasing (Stevens et al. 2017)



Fire and Fuel Management: Area Treated



- Average 261,000 ac treated annually 2005-2015
- 93% of treated acres by Federal agencies
- Forest Carbon Plan target 1,000,000 acres annually



Wildfire Indicators – The Story

- Altered Fire Regimes
 - Differences by region
 - Differences by vegetation type
- Changing Wildfire Activity
 - Increasing burned area and large fire size
 - Uncharacteristic severity
- Fire and Fuel Management
 - Forest treatments below targets
 - 2.2 million housing units in WUI



Wildfire Indicators and the Cohesive Strategy

Landscape Restoration

- Strategically and significantly expand treatment pace and scale
- Restore fire where appropriate
- Recognize and mitigate excessive fire

CAL FIRE Programs

CCI Forest Health, Cooperative Agreements, Research





Wildfire Indicators and the Cohesive Strategy

Fire Adapted Communities

- Engage local land-use planning
- Incentivize individual land and homeowner efforts to mitigate fire risk
- Recognize homeowner and community efforts in policies and programs

CAL FIRE Programs

CCI Fire Prevention, FHSZ Revision





Wildfire Indicators and the Cohesive Strategy

Fire Response

- Promote landscape-level planning for modern-era fire events
- Restructure funding to provide for pre-fire management
- Adapt the fire suppression workforce to changing trends

CAL FIRE Programs

2018 State Fire Plan





Questions?

Tadashi Moody
Environmental Scientist
Fire and Resource Assessment Program
California Department of Forestry and Fire Protection (CAL FIRE)
(916) 445-5342 | tadashi.moody@fire.ca.gov



