

### CAL FIRE Office of the State Fire Marshal Wildfire Mitigation Advisory Committee Meeting

November 15, 2022

### **Call to Order**

#### Welcome!



If you have technical difficulties during this meeting, please contact Kara Garrett at (916) 201-5539 or Kara.Garrett@fire.ca.gov

- The State Fire Marshal
  - Mike Richwine
- Department of Forestry and Fire Protection
  - Curtis Brown
- Department of Conservation
  - Keali'i Bright
- Office of Energy Infrastructure Safety
  - Caroline Thomas Jacobs or Sandy Cooney
- State Board of Forestry and Fire Protection
  - J. Lopez

- Governor's Office of Emergency Services
  - Ryan Buras or Robert Troy
- California Department of Insurance
  - Deborah Halberstadt or Mike Peterson
- Governor's Office of Planning and Research
  - Michael Maguire (sitting in for Neil Matouka)
- California Fire Safe Council
  - Jessica Martinez
- Insurance Institute for Business & Home Safety
  - Roy Wright

- California Fire Chiefs Association
  - Dave Winnacker or Todd Lando
- California Building Industry Association
  - Christopher E. Ochoa or Nick Cammarota
- University of California Cooperative Extension
  - Lenya N. Quinn-Davidson
- California Fire Science Consortium
  - Yana Valachovic
- Department of Housing and Community Development
  - Maziar Movassaghi or Clay Kerchof

- Rural County Representatives of California
  - Staci Heaton
- California Association of Resource Conservation Districts
  - Sophia Lemmo
- League of California Cities
  - Sean McGlynn
- California State Association of Counties
  - Catherine Freeman
- A representative from tribal government
  - Don Hankins

### **Approval of Past Meeting Minutes – Motion Required**

WILDFIRE MITIGATION ADVISORY COMMITTEE MEETING Meeting Minutes – Tuesday, October 18, 2022 Posted 11/4/2022



Mike Richwine

#### Committee Members Present

Curtis Brown, Department of Forestry and Fire Protection (Virtual) Mike Richwine, Office of the State Fire Marshal Keali'i Bright, Department of Conservation Sandy Cooney, Office of Energy Infrastructure Safety J. Lopez, State Board of Forestry and Fire Protection Robert Troy, California Office of Emergency Services Deborah Halberstadt, California Department of Insurance (Virtual) Michael Maguire, Office of Planning and Research (Virtual) Jessica Martinez, California Fire Safe Council (Virtual) Roy Wright, Insurance Institute for Business & Home Safety (Virtual) Dave Winnacker, California Fire Chiefs Association (Virtual) Christopher Ochoa, Representative from the Building Industry Lenya N. Quinn-Davidson, University of California Cooperative Extension Yana Valachovic, California Fire Science Consortium Clay Kerchof, Department of Housing and Community Development Staci Heaton, Rural County Representatives of California (Virtual) Sophia Lemmo, California Association of Resource Conservation Districts (Virtual) Sean McGlvnn, League of California Cities Catherine Freeman, California State Association of Counties Don Hankins, Professor, CSU Chico (Virtual)

#### Members Absent None

#### CAL FIRE Staff in Attendance

Daniel Berlant, Deputy Director Steve Hawks, Assistant Deputy Director Andrew Henning, Assistant Deputy Director Frank Bigelow, Staff Chief Jim McDougald, Staff Chief John Morgan, Deputy Chief Scott Witt, Deputy Chief (Virtual) Matt Damon, Deputy Chief (Virtual) Jeff Fuentes, Division Chief (Virtual) Rick Carr, Southern Region Staff Chief of Resource Management (Virtual) Jamie Sammut, Staff Counsel (Virtual) Justine Grafton, Associate Governmental Program Analyst (Virtual) Will Brewer, Research Data Specialist III Kara Garrett, Associate Governmental Program Analyst

#### 1. CALL TO ORDER 1:00 PM

A. Welcome

Scan the QR Code Below to Access the Complete Meeting Minutes Document!



### **Agenda Review – Motion Required**

WILDFIRE MITIGATION ADVISORY COMMITTEE MEETING Meeting Agenda – Tuesday, November 15, 2022, 1:00 PM – 3:00 PM Posted November 4, 2022



Location:

CNRA Building, 715 P Street, 2<sup>nd</sup> Floor Conference Room 2-221 Sacramento, CA 95814

#### Zoom Meeting Information -

Please click the link below to join the webinar: https://us06web.zoom.us/i/85192423489?pwd=dnZYaUhXVFliUTFmT21nMzJYYVIxQT09 Passcode: 462073

#### 1. CALL TO ORDER

A. Welcome B. Roll Call/Quorum Established C. Approval of Past Meeting Minutes (Motion Required) D. Agenda Review (Motion Required)

#### 2. OLD BUSINESS

A. Risk Modeling 1) Work Group Update B. SB 190 - Model Defensible Space Ordinance Update 1) Final feedback due at the end of November. 2) Will review the final document at December's Meeting. C. Division Report

#### 3. NEW BUSINESS

- A. Board of Forestry and Fire Protection Claire McCoy
- B. Attorney General's Office Nicole Rinke
- C. University of California Cooperative Extension Lenya Quinn-Davidson and Yana Valachovic
- 4. ROUNDTABLE
- 5. PUBLIC COMMENT

#### 6. UPCOMING MEETING DATES FOR 2022 and 2023

- A. Third Tuesday of each month starting at 1 PM and ending at 3 PM.
- B. December 20, 2022 is cancelled due to the holiday.
- C. January 17, 2023 will be in a different conference room, same building. 1) CNRA Building, 715 P Street, 2nd Floor Conference Room 2-310 Sacramento, CA 95814

#### Scan the QR Code Below to Access the **Meeting Agenda!**



MEETING ADJOURNMENT (Motion Required)

### **Risk Modeling Advisory Workgroup Update**

- More information will be shared as the workgroup moves forward.
- Contacts for the workgroup are listed below:
  - Jim McDougald
    - Jim.McDougald@fire.ca.gov
  - Celeste Jovanovic
    - Celeste.Jovanovic@fire.ca.gov



# **SB 190**

#### Model Defensible Space Ordinance Update

- Final feedback due at the end of November.
- We were initially going to review the final document at the December meeting, we will now be reviewing at the January meeting for final comments and suggested changes.
- Final Draft Presentation on February 21<sup>st</sup>.





### Community Wildfire Preparedness and Mitigation

- Wildfire Risk Reduction
- Wildfire Planning & Statistics
- Upcoming Webinar Information

### **Wildfire Risk Reduction**

#### Burn Permits:

- Doing some upgrades to the application to include attaching burn plan and any other paperwork the reviewer will need to review the application.
- Adding a map layer to flag a property in the "buffer" area of another jurisdiction.
- Beginning to create the training videos for units.
- Burn Permit Policy and Procedures are currently being reviewed.



### **Wildfire Risk Reduction**

#### Defensible Space :

- We will be holding two presentations next week for Land Use Planning Workshops.
- We will be recording a video to showcase the first home to receive a Wildfire Prepared Home designation. The home was rebuilt from the ground up following the devastating Camp Fire in 2018 using specific choices in building materials and overall design that can help raise a home's wildfire rating.
- Defensible Space and Home Hardening programs are working on revising the selfassessment survey.





#### Wildfire Risk Reduction

#### **Utility Wildfire Mitigation:**

- Site visit with PG&E on overhead grid hardening and undergrounding efforts in Butte County.
- Identified Cooperative and Publicly Owned Utilities (POU) within CA that have their own infrastructure that intersects with State Responsibility Areas (SRA). Starting to acquire their contacts and GIS infrastructure data to assist with emergency response, firefighting, and prevention efforts.
- In the Greensheet review process for an equipment exemption request from PRC 4292 pole clearance for PG&E on the S&C Electric Scada Mate switch.
- Conducted Interagency Powerline Fire Prevention Training with Energy Safety Staff.

#### **Wildfire Planning and Statistics Update**

- California Incident Data & Statistics
- 2021 Redbook is now Final.
- Sent out the 2022 Redbook quarterly update to the Units to ensure they are starting to review and quality control now. This is an attempt to complete future Redbooks more timely.
- Sent out our first quarterly CalStats newsletter to all Fire Departments in the State that are reporting NFIRS data. This was focused on tips, tricks, and updates on how to import their NFIRS data into eNFIRS and how the validation process works.



#### **Wildfire Planning and Statistics Update**

- California Incident Data & Statistics
- CalStats Team has begun to develop our first CALFIRS dashboards using AGOL software and preparing for additional dashboards that will focus on CA eNFIRS data, "Live" Redbook, and other ideas that can showcase the statistical data that the program is working with.
- CalStats program is hosting a two-day free National Fire Academy - Basic NFIRS training course in Monterey on November 15-16th.
- Completed FY 21/22 Public Resource Code 4137 Annual Report.



#### **Community Wildfire Mitigation Assistance**

#### Fire Safe Regulations:

 We are currently developing some training webinars for CAL FIRE & Contract County staff on interpreting and enforcing the regulations.

#### Subdivision Review:

- Staff have been actively engaged in numerous statewide projects of interest including: working with Cal OES on the State Hazard Mitigation Plan and working with OPR on the Wildfire Plan Alignment Guide.
- Staff recently presented a pilot training for local planners on Land Use Planning for Wildfires, it was well received.



#### **Community Wildfire Mitigation Assistance**

- Firewise USA:
  - California continues to lead the nation with 600 National Fire Protection Association (NFPA) Firewise USA Communities in good standing, equating to over 25% of all NFPA Firewise USA Communities nationwide.
  - We are currently in the process of preparing a news release to be distributed shortly and will also be presenting a "certificate of congratulations" to the 600th community to celebrate this momentous occasion.





#### Wildfire Planning and Statistics Update

#### - Pre-Fire Planning

- FHSZ (SRA) Training in mid-November "How to conduct a FHSZ public hearing" targeting Units & Contract Counties.
- Draft FHSZ (SRA) maps are being finalized.
- Public information (website/videos/FAQs/phone-AI) will be released in early December.
- FHSZ (SRA) Public Hearing in 56 Counties will start Dec 15th and run for 45days concluding Jan 30th, 2023.
- CalMAPPER QA/QC cleaned up hundreds of projects (improving accuracy & reducing errors); this will be an ongoing process.

#### CAL FIRE - Office of the State Fire Marshal

#### Community Wildfire Preparedness and Mitigation Division



Join us for our next webinar! Featuring: Fire Hazard Severity Zones

#### Monday | 28 November 2022 | 11:30 AM | Via Zoom



- The purpose of this webinar is to host a live and interactive platform via Zoom to discuss and educate on Community Wildfire Preparedness and Mitigation (CWPM) fire safety topics.
- Open to the general public, Fire Safe Councils, and anyone who would like to learn more about the Programs within the Community Wildfire Preparedness and Mitigation Division.
- This webinar will be recorded and posted at a later time to our California Office of the State Fire Marshal YouTube Channel.



osfm.fire.ca.gov/wildfire-public-education/

#### Join us for our next webinar on November 28<sup>th</sup> at 11:30 AM!

#### **Featuring – Fire Hazard Severity Zones**

This webinar is open anyone who would like to learn more about the Programs within the Community Wildfire Preparedness and Mitigation Division.

- All webinars are recorded and posted to our California Office of the State Fire Marshal YouTube Channel at <u>youtube.com/channel/UCeIazGRRGPnrJ-</u> <u>1KbaMzqEA</u>.
- The Zoom meeting link for November 28<sup>th</sup> is available at <u>https://bit.ly/CWPM\_Nov28\_Webinar</u>.
- Visit <u>osfm.fire.ca.gov/wildfire-public-education/</u> to learn more.



### Board of Forestry & Fire Protection

Land Use Planning Updates: Defensible Space Zone 0, Fire Safe Regulations, and the Fire Risk Reduction Communities list

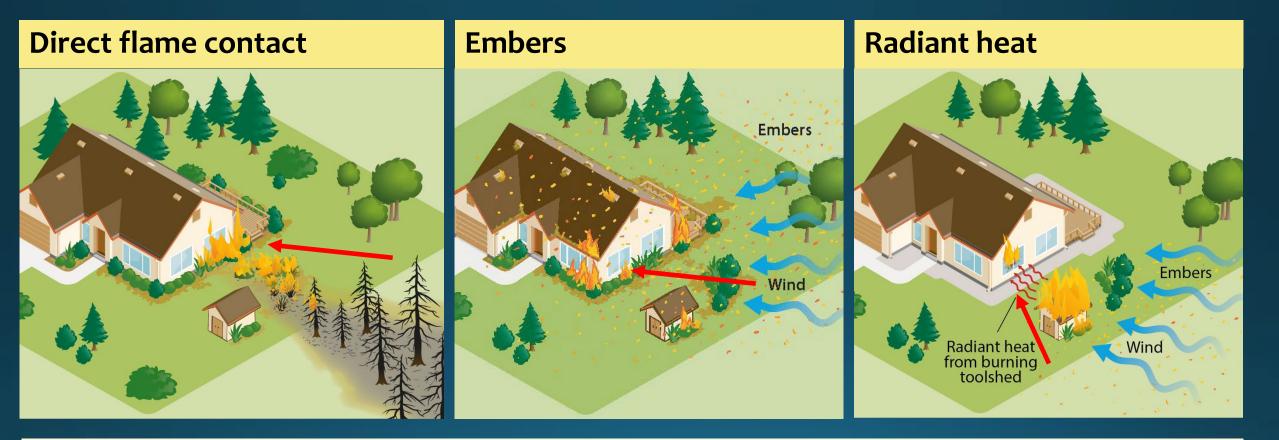
Claire McCoy, Wildfire Planning Specialist



# Zone o

Guidance, interpretation, and regulations for enhanced defensible space as directed by AB 3074 (2020)

# Three types of fire exposures



- Defensible space strategies have focused on how to reduce <u>direct flame contact.</u>
- Preparing for embers and radiant heat exposures takes a different approach.

# Purpose-Zone o



Zone 0 reduces the likelihood of structure ignition by reducing the potential for direct ignition of the structure from flame contact, by embers that accumulate at the base of a wall, and/or indirect ignitions when embers ignite vegetation, vegetative debris or other combustible materials located close to the structure that result in either a radiant heat and/or a direct flame contact exposure to the structure.

Zone 0 is the horizontal area within the first five feet around the structure and any outbuildings and attached decks, and stairs.

A firefighter works to put out spot fires from embers Source: LATimes

# What does AB 3074 require?

- Create an <u>ember-resistant zone within 5 feet of the structure</u>, based on regulations promulgated by the State Board of Forestry and Fire Protection
- On or before January 1, 2023, the State Board of Forestry and Fire Protection, in consultation with the Department of Forestry and Fire Protection, shall update the guidance document to include suggestions for creating an ember-resistant zone within five feet of a structure based on regulations promulgated by the State Board of Forestry and Fire Protection, in consultation with the Department of Forestry and Fire Protection, in consultation with the Department of Forestry and Fire Protection, in consultation with the Department of Forestry and Fire Protection, in consultation with the Department of Forestry and Fire Protection, in consultation with the Department of Forestry and Fire Protection, to consider the elimination of materials in the ember-resistant zone that would likely be ignited by embers.
- For purposes of this section, <u>a structure for the purpose of an ember-resistant zone shall</u> include any attached deck. This section does not limit the authority of the State Board of Forestry and Fire Protection or the Department of Forestry and Fire Protection to require the removal of fuel or vegetation on top of or underneath a deck pursuant to this section.
- (2) (A) The requirement for an ember-resistant zone pursuant to Section 51182 shall not take effect for new structures until the State Board of Forestry and Fire Protection updates the regulations, pursuant to paragraph (1) of subdivision (a) of Section 51182, and the guidance document, pursuant to paragraph (2) of subdivision (c) of Section 51182.
- (B) The requirements for an ember-resistant zone pursuant to Section 51182 shall take effect for existing structures one year after the effective date for the new structures.

# **Bill Supporters**

- ✓ American Planning Association, CaliforniaChapter
- ✓ American Property Casualty Insurance Association
- ✓ Building Owners and Managers Association California Apartment Association
- ✓ California Association of Realtors
- ✓ California Association of Resource Conservation Districts California Building Industry Association
- ✓ California Business Properties Association
- ✓ California Fire Chiefs Association
- ✓ California Fire Safe Council
- ✓ California Forestry Association
- ✓ California State Association of Counties
- ✓ California State Firefighters' Association
- ✓ City of Malibu
- ✓ Congress of California Seniors
- ✓ County of Del Norte, Board of Supervisors
- ✓ County of Humboldt, Board of Supervisors
- ✓ Defenders of Wildlife

- ✓ Fire Districts Association of California
- ✓ Fire Safe Council of San DiegoCounty
- Midpeninsula Open Space District OrangeCounty Fire Authority
- ✓ Pacific ForestTrust
- ✓ Pacific Gas and ElectricCompany
- ✓ Perimeter Solutions
- ✓ Personal Insurance Federation of California
- ✓ Resource Conservation District of Greater San Diego County Rural County Representatives of California
- ✓ San Diego Gas & Electric
- ✓ Sierra Club California
- ✓ Southern California Edison
- ✓ The Nature Conservancy
- ✓ Tree Care Industry Association
- ✓ Western Wood Preservers Institute

# Workgroup Efforts

- November 2021: Workgroup formed
- Developed framework & voted on recommendations for elements commonly found in Zone o
- Several presentations to Board of Forestry & Fire Protection and public workshop in May 2022, workgroup expanded
- Consideration of guidance document update & public outreach

# Workgroup participants

Board of Forestry Edith Hannigan J. Lopez Claire McCoy

<u>UC Cooperative Extension</u> Steve Quarles **Yana Valachovic** 

CAL FIRE Office of the State Fire Marshal Greg Anderson Daniel Berlant Frank Bigelow Steve Hawks Anthony Massucco John Morgan Crystal Sujeski Daniel Gorham - Insurance Institute for **Business and Home Safety** Foster McLean – City of Glendale Ryan Boykin – Southern Marin Fire Larry Williams – Ventura County Fire Chris Vallerga – CAL FIRE Mendocino Unit Jeremy Davis – Lakeside Fire Protection District Marcus Hernandez – CAL FIRE / Morgan Hill Fire Department Caerleon Safford – County of Sonoma Todd Lando – Central Marin Fire Department, Marin Wildfire Prevention Authority Craig Wittner – Redding Fire Department Ron Durbin – Los Angeles County Fire Department William Romo – Los Angeles County Fire Department Margaret Belska – landowner

Jeff Isaacs – Moraga Orinda Fire District MJ Lee – Wildfire Preparedness Committee, Town of Portola Valley Marco Mack – Santa Cruz Fire Safe Council, Cal Chiefs Assoc. WUI Committee Jaime Scott Guthrie – Monterey County Housing & Community Development Curtis Johnson – Butte County Development Services Polina Pivak – Mariposa County Planning Ron Marley – San Ramon Valley Fire **Protection District** Ruben Grijalva – FireChiefs.com LLC Ethan Foote – Retired CAL FIRE/OSFM

# Draft requirements: Striking a balance

- Remove all dead & dying vegetative material
- Plant spacing & care (placement is more important than plant type)
- Tree branches 10' above roof
- Replace wooden fences within 5 feet





# Timeline

- Late August 2022: Draft regulations submitted for Natural Resources Agency & Governor's Office review
- Fall 2022: Developing detailed economic impact analysis
   & public outreach strategy
- First quarter of 2023: Anticipated 45-day public comment period

# State Minimum Fire Safe Regulations

2022 Update

# Summary

- Permanent regulations adopted in August 2022
- Effective date: April 1, 2023
- Purpose: to effectuate changes made to PRC 4290 by SB 901 (2018)

# What's changed?

Changes

- Article 1. Administration
- Article 5. Building Siting, Setbacks and Fuel Modification

#### No Changes

- Article 2. Emergency Access and Egress
- Article 3. Signing and Building Numbering
- Article 4. Emergency Water Standards

# Article 1

- Permanent applicability to LRA VHFHSZ
- Local regulations which equal or exceed standards still supersede FSRs, but no Board certification process
- Improved clarity on inspection delegations

# Article 5

- Prohibits new buildings on undeveloped ridgelines identified as strategically important; new residential units at top of drainages or other high-risk topographic features common to ridgelines
- Provides for local determination of fuel break need & location for new development
- Provides for disposal of flammable vegetation & fuels from construction

# Timeline

• Approved by Board August 17, 2022

• Currently under review by Office of Administrative Law

• Anticipated effectiveness date: April 1, 2023

# Fire Risk Reduction Communities List

2022 Update



### Background



- **PRC 4290.1:** "On or before July 1, 2022, the board shall develop criteria for and maintain a "Fire Risk Reduction Community" list of local agencies located in a state responsibility area or a very high fire hazard severity zone....that meet best practices for local fire planning.
- PRC 4124.7(a): "The department shall, except for activities described in paragraph (5) of subdivision (c) of Section 4124.5, prioritize local assistance grant funding applications from local agencies based on the "Fire Risk Reduction Community" list, upon development of that list, pursuant to Section 4290.1.

### Timeline



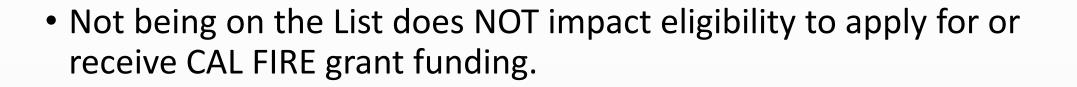
- First application period: January April 2022
- First version of List published online: July 1, 2022
- Application deadline for next List update: **April 30, 2024,** and April 30 of each even-numbered year thereafter (2026, 2028, etc.)
- Updated versions of List published online: July 1, 2024, and July 1 of each even-numbered year thereafter

#### List Structure



- Local Agency: Any city, city and county, or county; tribal agency; agency, department, district or other **publicly funded entity** serving a city or and county.
- Cities & counties qualify by meeting a combination of mandatory & optional criteria; meeting state minimum standards + demonstrating that they go the extra mile beyond state minimums
- Non-cities & counties qualify by meeting a combination of optional criteria demonstrating that they go the extra mile to meet best practices





• The Board is unable to make interpretations or provide geographic boundary files of agencies on the List for use by the insurance industry.



#### Thank you!

### Claire McCoy Claire.mccoy@bof.ca.gov

# THE ATTORNEY GENERAL'S WILDFIRE GUIDANCE

Nicole U. Rinke, Office of the Attorney General

Wildfire Mitigation Advisory Committee November 15, 2022

### THE ATTORNEY GENERAL'S ROLE

- 1. Thinking proactively about land use decisions and wildfire risks
- 2. Thinking across issues
- 3. Enforcing CEQA and other state laws

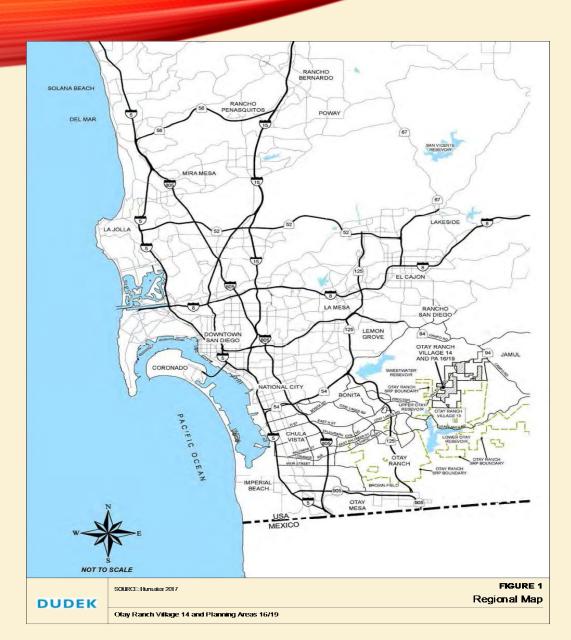
## THE GUENOC VALLEY PROJECT

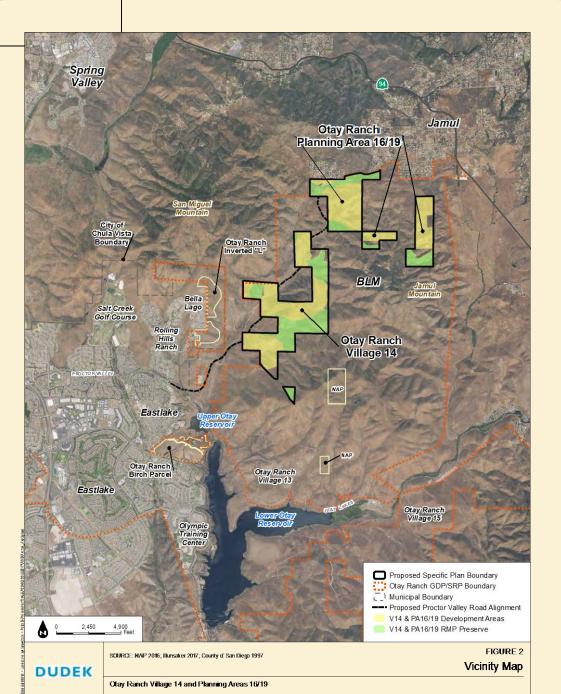




### OTAY RANCH VILLAGE 14 AND PLANNING AREAS 16/19









#### THE GUIDANCE



#### State of California Office of the Attorney General

#### **ROB BONTA** Attorney General

#### Best Practices for Analyzing and Mitigating Wildfire Impacts of Development Projects Under the California Environmental Quality Act

https://oag.ca.gov/news/press-releases/attorneygeneral-bonta-issues-guidance-local-governmentsmitigate-wildfire-risk

### ANALYSIS OF A PROJECT'S IMPACT ON WILDFIRE RISKS – FACTORS

- Project Density
- Project Location in the Landscape
- Water supply and infrastructure

### ANALYSIS OF A PROJECT'S IMPACT ON WILDFIRE RISKS – TOOLS

- Modeling and qualitative analyses
- Thresholds of significance

### ANALYSIS OF EVACUATION AND EMERGENCY ACCESS - FACTORS

- Evacuation of project residents and simultaneous emergency access
- Evacuation of nearby existing communities
- Scale the analysis according to the associated wildfire risks and impacts

### ANALYSIS OF EVACUATION AND EMERGENCY ACCESS - TOOLS

- Modeling
- Transportation analysis
- Local fire officials
- Existing evacuation plans
- Be cautious with shelter in place
- Thresholds of significance

#### MITIGATE IMPACTS AND RISKS -EXAMPLES

- Higher density and infill
- avoid leap frog developments
- decrease the project's edge
- Buffers and defensible space
- Utilization of landscape features
- Underground power lines
- Consider the terrain
- utilize existing ingress and egress
- Consider proximity to emergency services
- Fire harden structures and communication infrastructure
- On site water supply

### LOOKING FORWARD - THE ROLE OF THE GUIDANCE







### QUESTIONS?

Nicole.Rinke@doj.ca.gov

Building Community Fire Adaptation and Resiliency Throughout California Using UC ANR's Capacities



November 15, 2022 Wildfire Mitigation Committee

Lenya Quinn-Davidson Yana Valachovic UC Cooperative Extension



**UNIVERSITY OF CALIFORNIA** Agriculture and Natural Resources

#### **Fire Advisor Concept Origins and Opportunities**

- Piloted the **fire advisor** concept with Lenya Quinn-Davidson (starting in 2011)
- Cross-boundary programming/talent to help lift our existing network of advisors and specialists
- Geographic coverage includes urban and rural communities
- Diversity of disciplines: disaster response, wildland fire management, prescribed fire, workforce training, economic development, community recovery, public health and air quality, fire impact analysis on agricultural products, wildland-urban interface issues, community planning



#### 2019 Oregon Legislature Creates an Extension Program in Fire

- 6 Specialists, 1 Director, 1 Program Manager
- <u>https://extension.oregonstate.edu/fire-program</u>



	The Forestry & Natural Resources Extension Fire Program assists in	Photo: Am						
Fire Program	identifying landscapes in highest need of a strategic focus of resources							
Faculty & Staff	to reduce wildfire and landscape health risks at a statewide scale. We							
Events	also assist with the implementation of cross-boundary projects on the ground in priority landscapes and provide education and outreach throughout the process.							
About	We acknowledge that <i>Oregon State University in Corvallis, Oregon, is located within the traditional homelands of the Mary's River or Ampinefu Band of Kalapuya. Following the Willamette Valley Treaty of 1855, Kalapuya people were forcibly</i>							
Online Webinar Guide								
After a Wildfire	removed to reservations in Western Oregon. Today, living descendants of these people are a part of the Confederated Tribes of Grand Ronde Community of Oregon							
	and the Confederated Tribes of Siletz Indians. All Extension programming throughout							

the state of Oregon happens on traditional homelands. To learn more, click here

Photo: Amy Markus (Cropped from original)

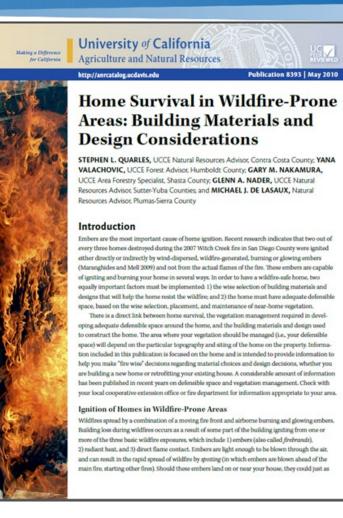
#### What does UCCE bring to Californians?



# Connections between communities



Evidenced-based information



UNIVERSITY OF CALIFORNIA Agriculture and Natural Resources

#### **UCCE** provides points of connection

#### For landowners, agencies, local governments, and community members to work together toward fire resilience





#### **UCCE** leads research

#### To inform strategic fuels management and policy efforts throughout California

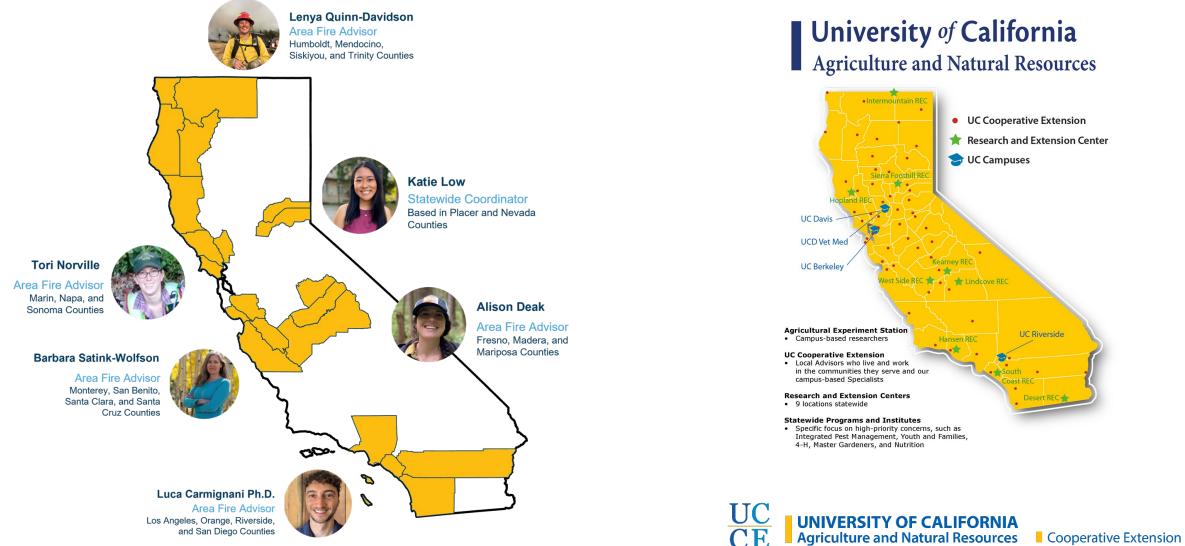








#### **Building a Team of Fire Advisors**



#### **Fire Team Support and Integration**

- 7 **fire** advisors and one academic coordinator (2 advisors to be recruited)
- 7 forestry advisors (2 to be recruited)
- 3 **biomass** utilization advisors (1 to be recruited)
- 2 disaster resilience advisors (1 in the search committee process)
- 16 natural resources / livestock advisors
- Various faculty at UCB, UCR, UCM, UCD



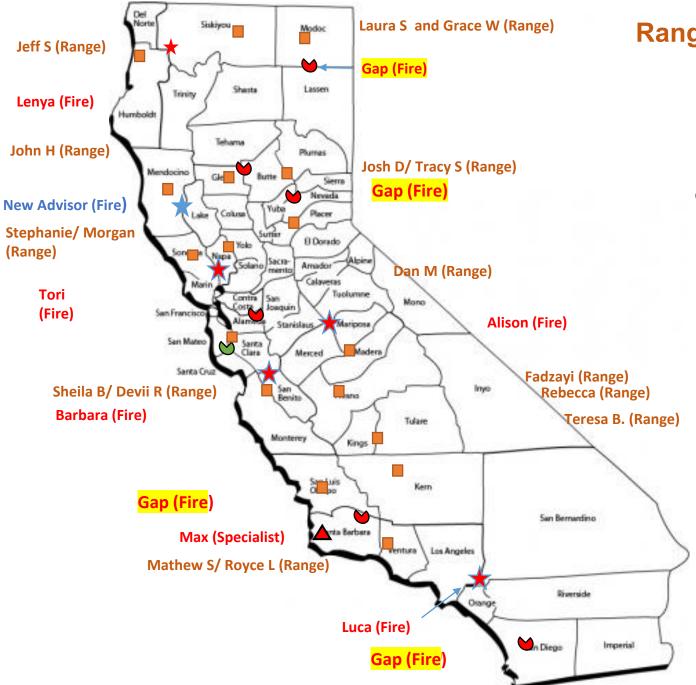


#### **Forestry and Fire Advisors - Specialists**

#### Fire Advisor $\star$

- Fire Advisor Opportunity  $\mathbf{\mathbf{M}}$
- Forestry Advisor  $\bigcirc$
- Forest Adv. Opportunity  $\bigotimes$





#### **Range and Fire Advisors - Specialists**

Fire Advisor \*

- Fire Advisor Opportunity  $\mathbf{M}$
- Rangeland/Fire Advisor



## **Fuel reduction**

#### \*Goals

 To help support the use of prescribed fire, mechanical, and hand treatments to reduce fuels by providing temporal and special guidance to reduce ecosystem impacts and greater durability of treatments.

#### **\***Accomplishments- Activities

- Fuel hazard reduction permitting publication #8716
- Targeting grazing study
- Landowner and professional workshops
  - Forest Stewardship Series
  - Post-fire Restoration Program

	. 1 . 1		FIRE Permits f rcial; most trees >12				
			Has your property been damaged by a wildfire event in the last year?		<b>│</b> ↓ ↓ ↓ ↓ ↓ ↓		
	ect is in response to is on my property i				This project is in p Most of the trees o		
What will the purpose of your fuel-reduction project be? What will the purpose of your fuel-reduction project be?							
Ļ	Ļ	L.	+		1	Ades	
Remove dead	Remove dead	Remove live	Remove live		across my property t		
trees within 300 ft of my permit-	trees across my property to	trees within 150 ft of my permit-	trees within 150–300 ft of	torest, which may	include area around	my permitted struct	ture(S).
ted structure(s) only to create	create a more fire resilient	ted structure(s) only to create	my permitted structure(s) only	Do you ne	Do you need to construct or reconstruct temporary road (up to 300+ ft) to make harvesting?		orary road
defensible	forest, which	defensible	to create defen-	1			
space.	may include area around	space.	sible space.				
	my permitted			NO, I do not require a permit		+	
	structure(s).	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		that includes	YES, I do n	equire a permit that	includes
				road construc- tion or recon-		struction or reconsti	
	立計書	Structure	Structure	struction.			Modified Tim-
Post-Fire Recovery	11.11	Protection 0–150 ft	Protection 150–300 ft	Small Land-	Emergency Notice for Fuel	Forest Fire Prevention	ber Harvest Plan for Fuel
Exemption	Emergency	Exemption	Exemption	owner Exemp-	Hazard Reduc-	Exemption	Hazard Reduc-
[1038(g)]	Notice [1052]	[1038(c)]	[1038(c)]	tion [1038(f)]	tion [1052.4]	[1038.3]	tion [1051.37]
Benefits:	Benefits:	Benefits:	Benefits:	Benefits:	Benefits:	Benefits:	Benefits:
<ul> <li>Remove burned trees</li> </ul>	<ul> <li>Inexpensive harvest permit</li> </ul>	<ul> <li>Remove dead and dying</li> </ul>	<ul> <li>Remove dead and dying</li> </ul>	<ul> <li>Less expensive than THP</li> </ul>	<ul> <li>Harvest living trees up to</li> </ul>	<ul> <li>Harvest trees up to 30 in</li> </ul>	<ul> <li>Harvest entire forest stands</li> </ul>
around a	No acreage	and/or healthy	and/or healthy	Create fuel	26-30 in	stump diam-	(up to 2,500
permitted structure	limit on har-	trees around a permitted	trees around a permitted	breaks any-	stump diam- eter (varies by	eter within a 300 acre area	acres)
Reduce	<ul> <li>vest area</li> <li>Reforestation</li> </ul>	structure	structure	where within a densely	species)	Construct or	<ul> <li>Reduce ladder and surface</li> </ul>
remaining	<ul> <li>Reforestation not required</li> </ul>	Create	Compatible	wooded land-	Create fuel	reconstruct	fuels
ladder and surface fuel	May harvest	defensible space around	with Structure Protection	scape	breaks along roads, ridges,	up to 300–600 ft temporary	<ul> <li>Construct or</li> </ul>
loads around	dead and	a permitted	0-150 ft	Limitations:	and vulnera-	road	reconstruct roads
a permitted structure	dying trees of any size	structure (per BOF Tech.	Exemption	<ul> <li>Limited to small owner-</li> </ul>	ble infrastruc- ture	Limitations:	Valid for 5
RPF and CAL	Road con-	Rule Ad. 4	Limitations:	ships (up to 60	May harvest	Must map and	years (with
not required	struction allowed	standards)	RPF required	or 100 acres) • Must exceed	dead and	treat all sedi- ment sources	possible 2-year exten-
in some cases	Harvest	<ul> <li>Compatible with Structure</li> </ul>	<ul> <li>Single tree selection only</li> </ul>	<ul> <li>Must exceed stocking</li> </ul>	dying trees of any size	Must treat	sion)
Limitations:	allowed in	Protection	Must treat all	standards (i.e.,	Limitations:	slash to 18 in	Limitations:
<ul> <li>Harvest area limited to</li> </ul>	WLPZ	150–300 ft Exemption	slash within	leave more trees than	Must reduce	<ul> <li>Must remove sub merchant-</li> </ul>	Not for steep
300 ft around	<ul> <li>In Lieu allow- able</li> </ul>	Limitations:	45 days, piles burned by	NTMP)	slash depth	able trees	slopes • Commercial
a permitted structure	Limitations:	Must treat all	April 1	May only har-	to 9 inches above the	<ul> <li>No operations</li> </ul>	thinning,
May harvest	RPF, CAL	slash within	<ul> <li>No timber operations in</li> </ul>	vest trees up to 26 in to 32	ground	in WLPZ	rehabilita- tion, and fuel
dead and dy-	required	45 days • No timber	WLPZ	in stump di-	RPF, CAL	<ul> <li>RPF, CAL required</li> </ul>	break/defensi-
ing trees only (no healthy	<ul> <li>Must com- plete opera-</li> </ul>	<ul> <li>No timber operations in</li> </ul>		ameter (varies by species)	required		ble silviculture only
trees)	tions within 1	WLPZ		No timber			RPF, CAA
No heavy	year			operations in			required
equipment in WLPZ				<ul> <li>RPF, CAL</li> </ul>			
				• RPF, CAL required			

Figure 1. Summary of CAL FIRE permits for fuel-reduction projects.



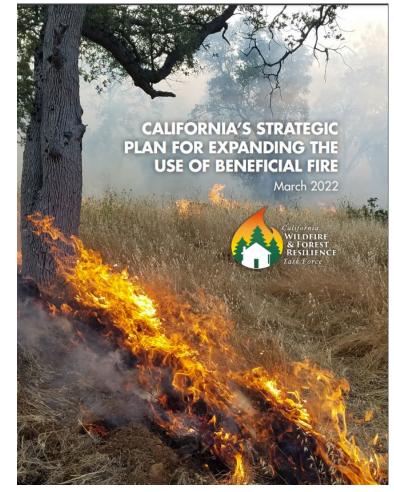
### Empower the use of prescribed fire

#### **♦Goal**

• To empower the use prescribed fire and cultural burning to reduce fuels, restore ecosystem function, improve forest and rangeland habitats, support cultural management

#### **\***Accomplishments

- Capacity building
  - CA Burn Boss Program
  - PBA expansion and networking
  - VFD training and collaboration
  - TREX/WTREX
  - Rx Fire Training Center
  - Community outreach and education
- Policy Improvements
  - Liability changes via SB332
  - Rx Fire Claims Fund via SB926
  - CA Strategic Plan for Beneficial Fire





Agriculture and Natural Resources Cooperative Extension

### Harden Homes

#### \*Goal

 To build and retrofit homes for improved wildfire resilience

#### Accomplishments

- Classes to support workforce development and general public awareness
- Policy discussions
- Research with IBHS, NIST, and other scientists
- Publications
- UCCE websites, social media







ORIGINAL RESEAR

Fire Ecolog

#### Housing arrangement and vegetation factors associated with single-family home survival in the 2018 Camp Fire, California

Eric E. Knapp<sup>1\*</sup><sup>(0)</sup>, Yana S. Valachovic<sup>2</sup>, Stephen L. Quarles<sup>3</sup> and Nels G. Johr



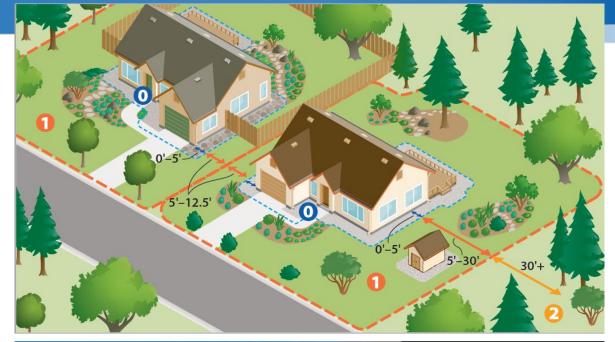
### Incorporate defensible space standards

#### Goals

 To reduce "near home" fire vulnerabilities, reduce invasive species, reduce water usage, and enhance drought tolerance.

#### Accomplishments

- Zone 0 regulation development
- Master Gardener curriculum
- Workshops
- UCCE websites and social media
- Publications









#### Reducing the Vulnerability of Buildings to Wildfire: Vegetation and Landscaping Guidance

roduction	home and landscaping to reduce com-			
What can Californians do to improve the chances that their homes is unive a wildlife? The good news hat research demonstrates that a me's odds of surviving a wildlife can substantially improved through feli attention to three principles: (1) oughtful landscape design amed at fucing and separating combustibles gestation, lawn furniture, and other	bustible materials (for example, leaves and needles) and to address the wear and tear that homes incur over time. This pollication address the importing and the set of the set of the set of the encompases the home as well as the voption of other combustion materials on the proper ty. However, this publication focuse primary in bandscaping uses on a property, more an publications have of a well as the properties of the set of the set of the set of the set of the set of the set of the properties of the set of the			
dscape assets) within the defensi- e space on a property, (2) retrofitting mes to resist wildfire, and (3) imple- enting ongoing maintenance of the	Preparing for wildfire does not have to be costly. The first step is to understand the three types of exposures that can threaten a home during a wildfire so that actions specific to th context of an individual's home and landscape can be mixetifized.			

### Engage with local planners

#### **♦**Goal

To actively address wildfire resiliency, emergency response, and best management practices

#### **\***Engagements

- Ass. of Bay Area Governments
- Fire Safe Regulations
- League of Cities
- Office of Planning and Research
- Oregon Fire Marshall
- Fire Adapted Community program (National and WFRTF)
- PODS





#### UCCE builds community fire adaptation and resiliency throughout California

To enhance community wildfire planning, daylight best practices on community and state levels, and advance efforts on every level.





### Conclusions

- The UCANR fire team is up and running (and growing)
- Active at local, regional, and state scales
  - ✓ Wildfire Mitigation Advisory Committee
  - ✓ Wildfire Forest Resilience Task Force (3 committees and science advisory panel)
  - Prescribed Fire Claims Fund & Training Center working groups
  - ✓ Department of Insurance
  - ✓ Office of Planning and Research
  - ✓ Board of Forestry and Fire Protection
  - ✓ Wildfire Risk Modeling Committee
  - ✓ CSAC/RCRC
  - ✓ Legislature





#### **Roundtable / Public Comment**

- Roundtable
  - Topic Suggestions for Next Meetings https://forms.gle/Wefg6YnrnUGYS8ua9
- Public Comment

### **Upcoming Meeting Date for 2023**

The Committee shall meet on the third Tuesday of each month from 1:00 PM – 3:00 PM

- December meeting is cancelled
- January 17, 2023

CNRA Building, 2-310 Conference Room (New Room) 715 P St, Sacramento, CA

- Featuring presentations from:
  - CAL FIRE Office of the State Fire Marshal:
    - CalMAPPER Viewer Overview:
      - Scott Witt, Jim McDougald, and Rebecca Ferkovich
    - Subdivision Review Program Overview:
      - Carmel Barnhart and Matt Damon
    - Online Burn Permits
      - John Morgan and Frank Bigelow
- To view the entire list of upcoming presenters, visit: <u>Wildfire Mitigation Advisory Committee (ca.gov)</u>

### Meeting Adjournment (Motion Required)

- Copies of the written materials have been posted on the Office of the State Fire Marshal web site at https://osfm.fire.ca.gov/.
- For information concerning the Advisory Committee Meeting, please contact Kara Garrett at (916) 201-5539 or Kara.Garrett@fire.ca.gov.
- NOTE: Items designated for information are appropriate for committee action if the committee chooses to act. The agenda order is tentative and subject to change. Agenda items may be taken out of order to facilitate the effective transaction of business. The Committee may not discuss or act on any matter raised during the public forum period, except to decide whether to place the matter on the notice and agenda of a future committee meeting.