



Building Regional Resilience

How Wildfires Impact the Environment, Public Health, and the Economy

March 17, 2025 12:30 - 3:00 PM



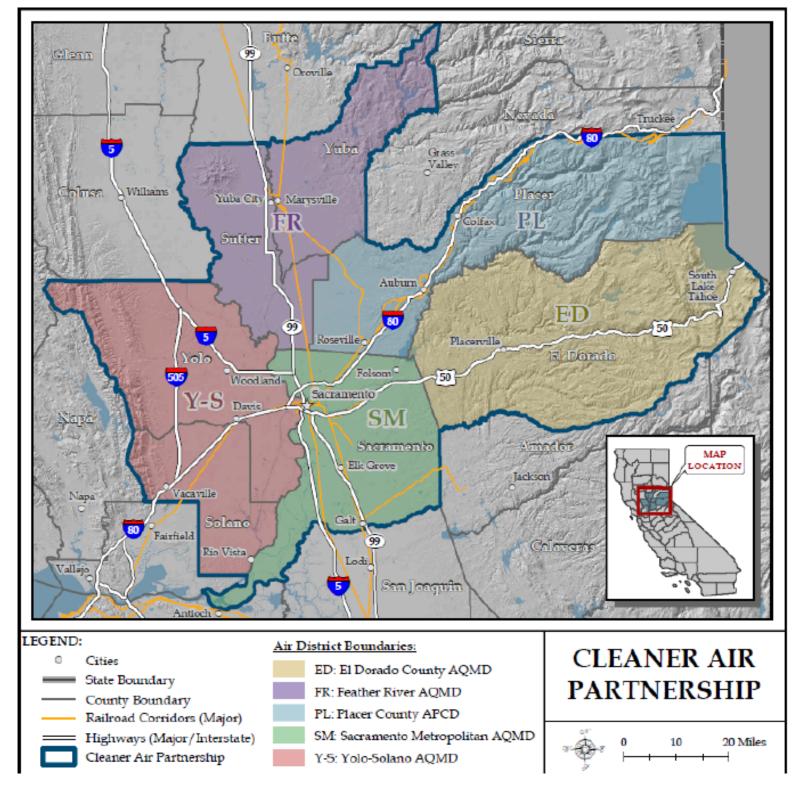
WE PROSPER TOGETHER



- Valley Vision is the regional convener and fiscal agent for We Prosper Together, leading the California Jobs First initiative in the Capital region.
- The program's *Regional Plan* identifies **Working Lands** as a priority industry for investment.
- As part of a phased funding approach, Valley Vision awarded \$5 million to pre-development projects supporting an inclusive, sustainable regional economy.
- Funded projects include efforts to strengthen local food systems, expand agricultural workforce development, and advance biomass utilization.

Cleaner Air Partnership (CAP)

Founded in 1986, the Cleaner Air
Partnership is a public-private
coalition of air quality regulators,
industry representatives, and
environmental advocates working
together to improve air quality in the
6-county Sacramento region.































What is the Capital Region Climate Readiness Collaborative?

The Capital Region Climate Readiness Collaborative (CRC) is a network designed to promote greater resilience through coordination across the six-county Capital Region.

The purpose is to provide a forum for regional engagement for leaders from public agencies, business, nonprofit, academia, community groups, and other partners.

Through CRC-led initiatives, partners convene across market and jurisdictional boundaries to:

- share information and best practices
- leverage efforts and resources
- avoid duplication of efforts
- identify critical needs and funding opportunities



Members of the Capital Region Climate Readiness Collaborative

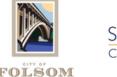


























































































Agenda

1:00 Welcoming Remarks

1:10 Improving Forest Health and Watershed Resilience

1:40 Public Health Impacts of Wildfires

2:10 Break

2:15 **Economic Impacts of Wildfires**

2:45 Closing Remarks & Next Steps

3:00 Adjourn



Thank you to the California Endowment for hosting us!









enjoy local pizza from Buffalo Pizza and fresh produce from Cloverleaf Farm!



Improving Forest Health and Watershed Resilience



JoAnna Lessard, PhD Watershed Manager





Yuba Water Agency: Improving forest health and watershed resilience

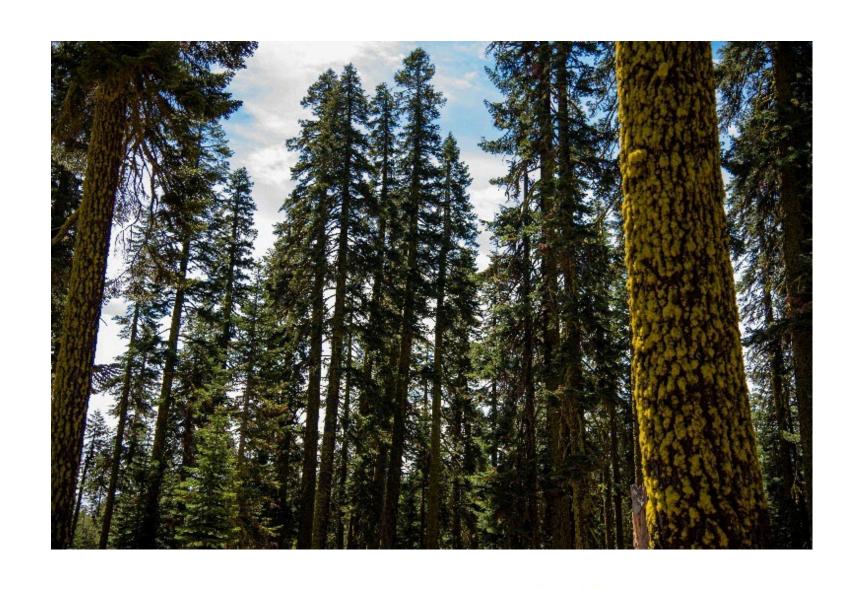
JoAnna Lessard, PhD Watershed Manager



Follow us on social @yubawater Visit our website at yubawater.org

Overview:

- Yuba Water's Mission
- Need for forest management
- Our Innovative Watershed Resilience Program
 - North Yuba Forest Partnership
 - Forest Resilience Bonds
 - Additional forest health efforts





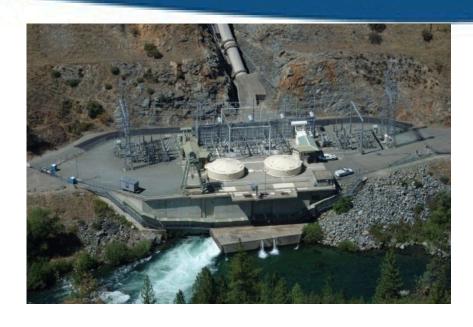
Yuba Water Agency's mission areas



Flood Risk Reduction



Sustainable Water Supply



Hydropower Generation



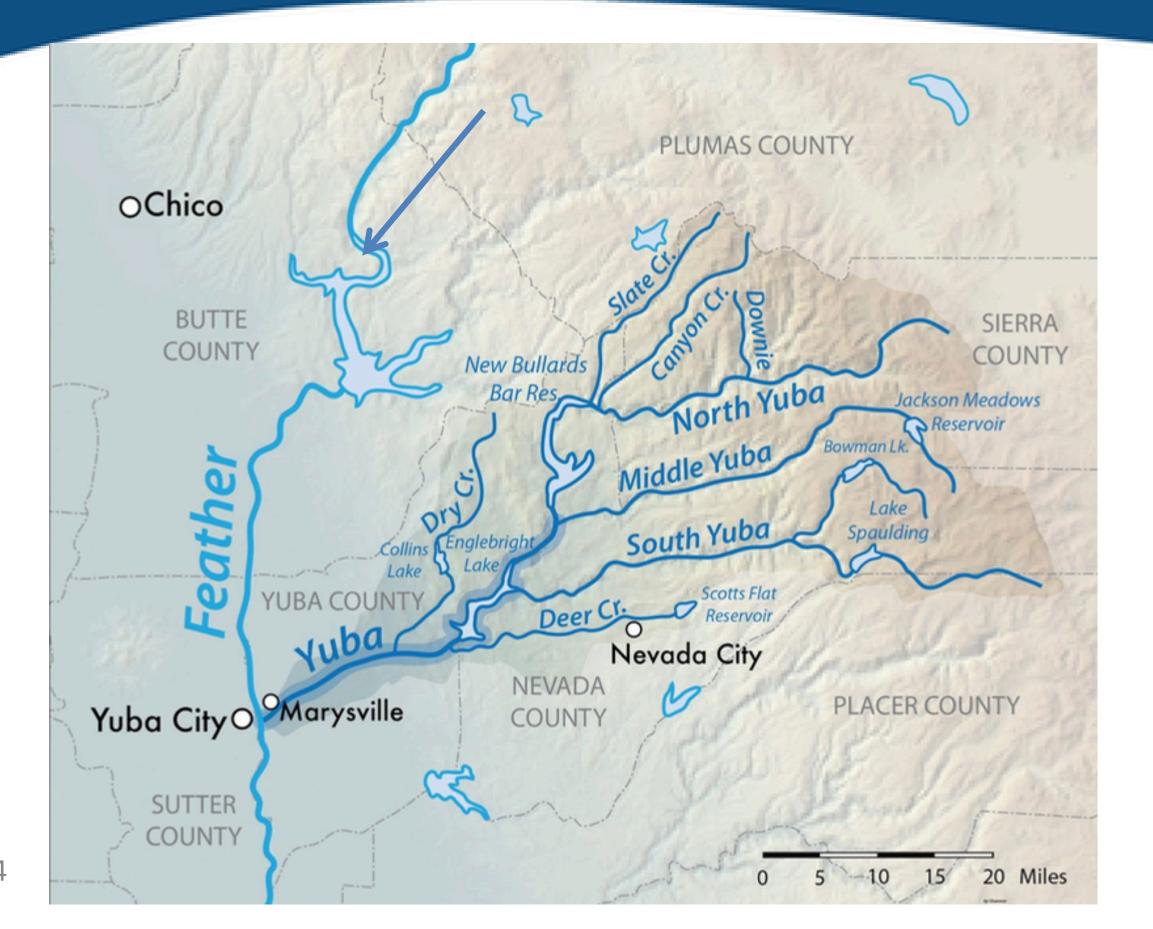
Fisheries Protection and Enhancement



Recreation at New Bullards Bar



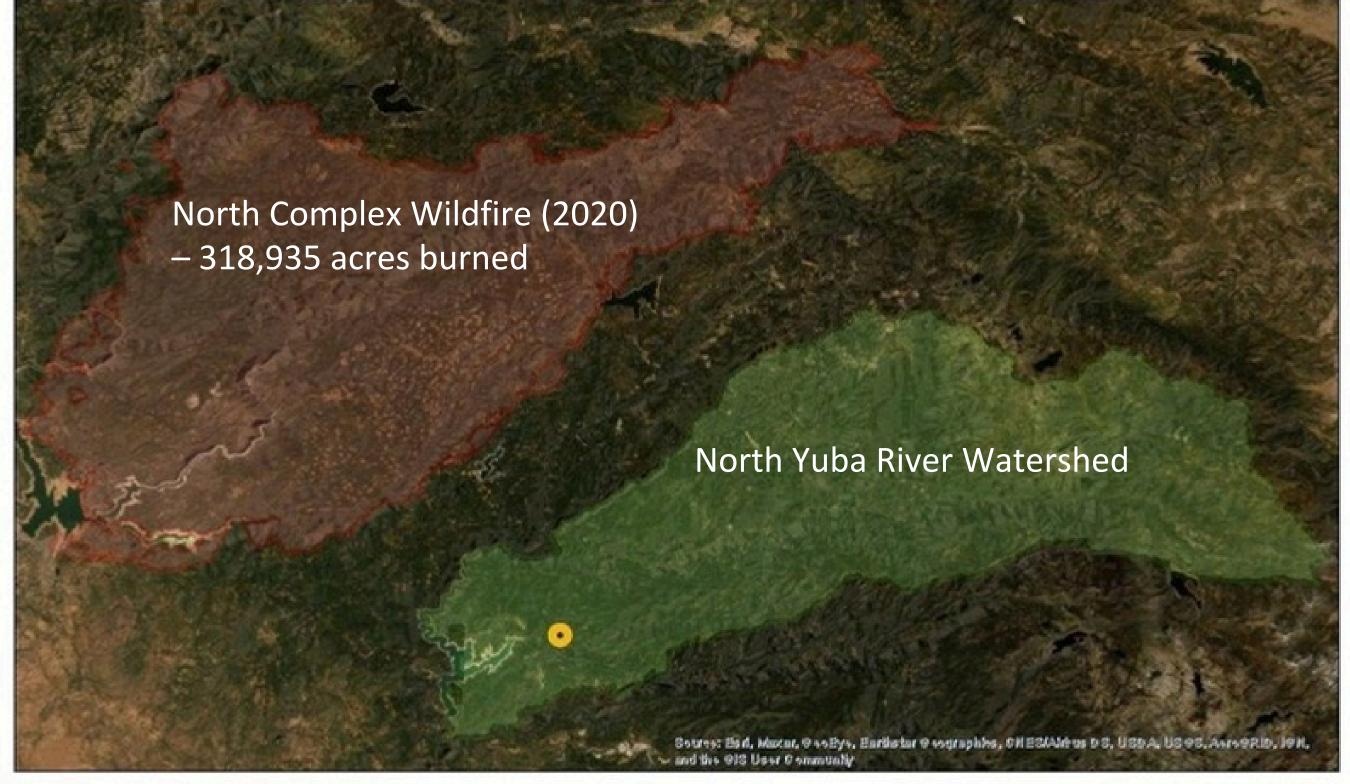
The Yuba River watershed







Why do we need forest restoration?





Historical comparison

Yosemite Valley



1899



1994



Yuba Water's Watershed Resilience Program

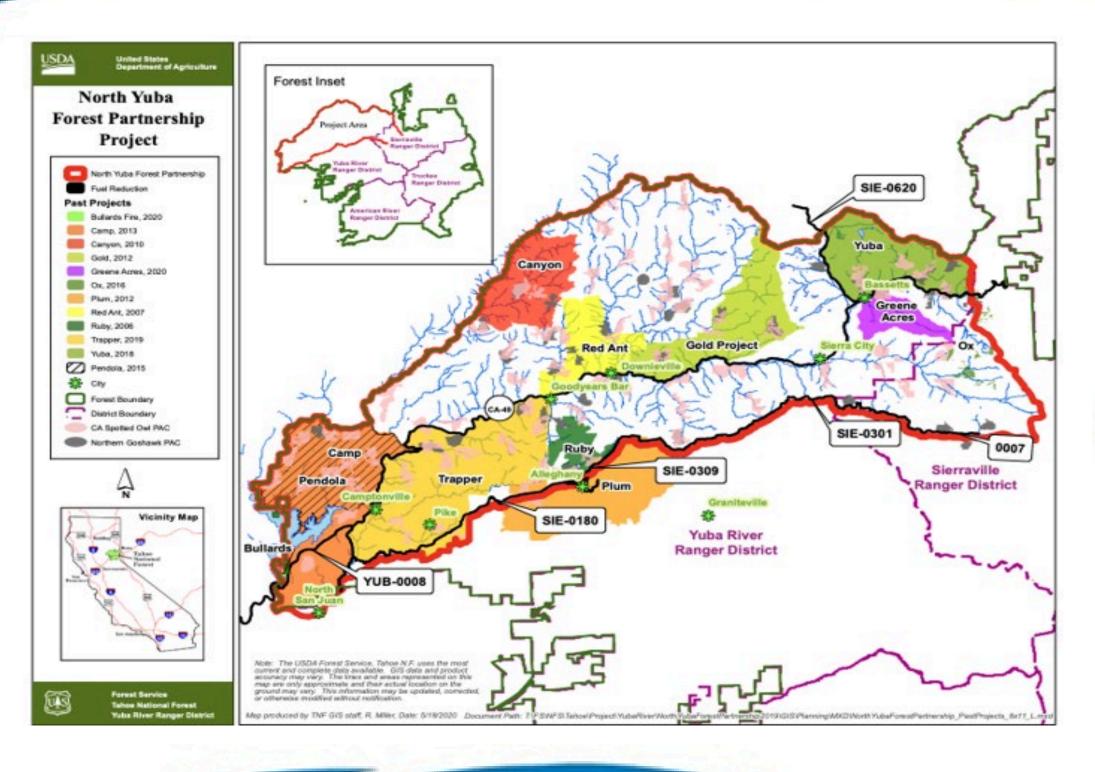
- Yuba Water created the Watershed Resilience Program in 2018 to reduce risk of catastrophic wildfire, protect local communities and safeguard water supply
 - Objective to build collaborative projects within Yuba County and Yuba River watershed that support these goals
- In 2020 we created the Yuba Water Community Impact Grant Program to invest \$10 million per year in projects that further Yuba Water's missions and programs (including the Watershed Resilience Program)
 - To date we have invested \$26 M in Watershed Resilience projects, which have leveraged \$182 M in external funding





North Yuba Forest Partnership

Working together to expedite forest health work across the North Yuba River watershed















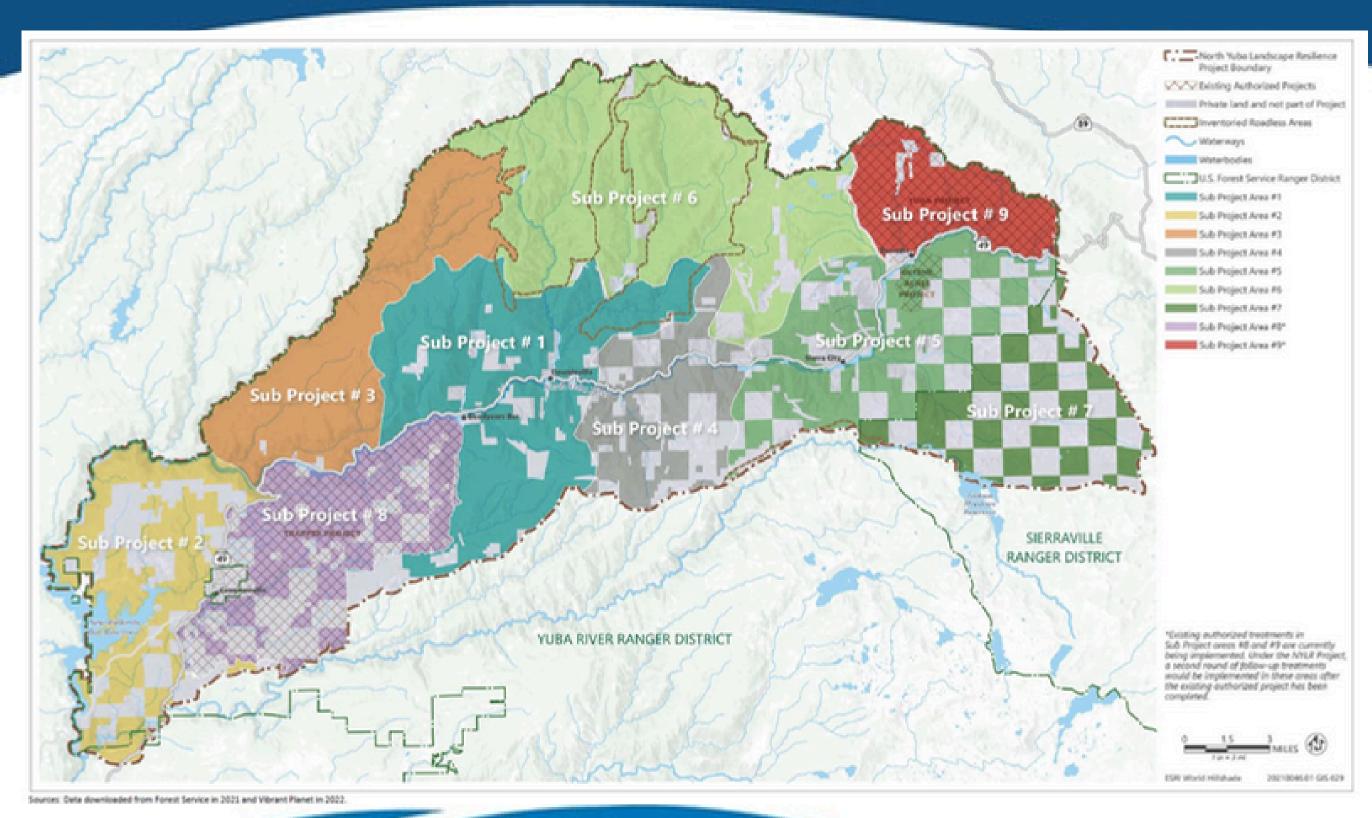




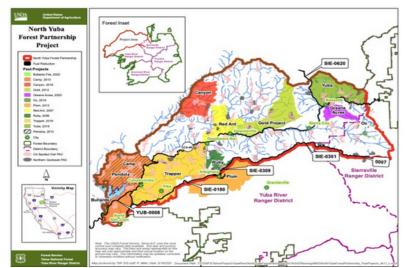




North Yuba Landscape Resilience Project EIS



- NYFP collaborated on the scoping of the EIS and on the strategic project sequencing
- Working together to increase the pace and scale of implementation to restore the entire watershed





Forest Resilience Bonds and Blue Forest





- First-ever Forest Resilience Bond piloted by Yuba Water and Blue Forest in 2018 with 15,000-acre Yuba I Project
 - Yuba Water contributes over 4 years \$1.5 M to leverage \$3 M
- Then in 2022 the 26,000-acre Yuba 2 Project was funded via second Forest Resilience Bond
 - Yuba Water contributes over 10-years \$6 M to leverage \$18 M
- Yuba Water's investments in these innovative FRBs led to the NYFP MOU
 - Pivotal to increasing pace and scale of this work (20,142.6 acres treated since 2018)
 - attracts local implementation contractors and local workforce development
 - demonstrated NYFP's ability to get work done—which <u>directly led to \$130 million in new Federal funding for our watershed in 2023</u>

Additional Watershed Resilience efforts

CCP Biomass Utilization Infrastructure

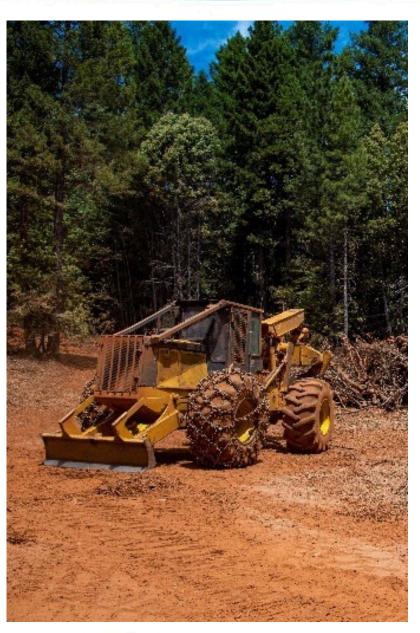
- 5 MW biomass plant and Forest Biomass and Business
- Center
- Nearly ready to implement (co-located sawmill and
- other wood product business are being planned)
 Yuba Water provided planning grants and strategic support over the last several years;
 August 2024 Yuba Water committed to supporting implementation financing with a \$7M grant and \$8.3 M low interest loan

Yuba Watershed Protection and Firesafe Council

- Role: Public Outreach, education and projects in the
- WUI
 YWA provides Annual support for Executive Director and cost share for new fire prevention grants

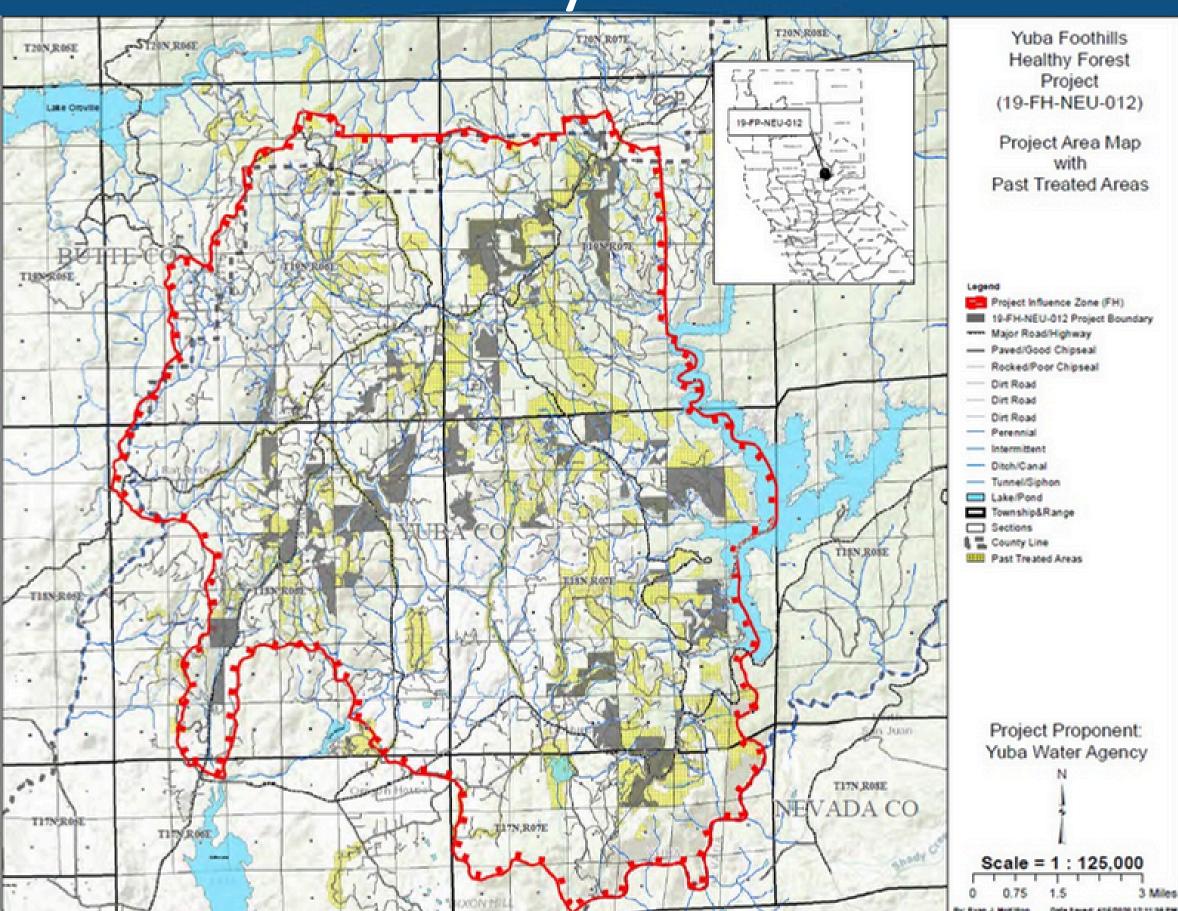








Yuba County Forest Health Grants: 2019 Yuba Foothills Healthy Forest Grant

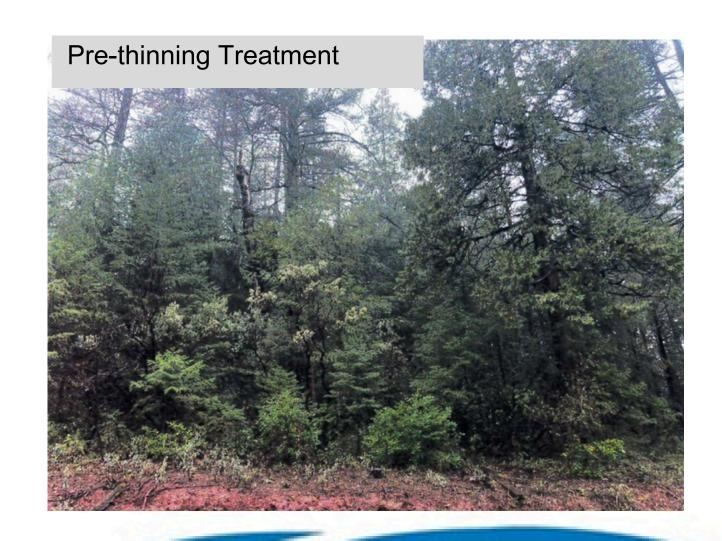


Cal-Fire Awarded the Yuba Water **\$4.5 M grant** from the California Climate Investments
Department of Forestry and Fire Protection
Forest Health Program

- Forest health and fire risk reduction treatments on 5,400 acres in the Yuba County foothills
- includes Plumas NF, Private Timber
 Companies, Boy Scouts and Yuba Water
- The Project Influence Zone of 71,244
 acres and protects 2,721 structures at
 high risk for wildfire

Yuba Foothills Healthy Forest Grant

- Implementation began in 2020 and was completed in 2024
- treated 6,000 acres at close-out





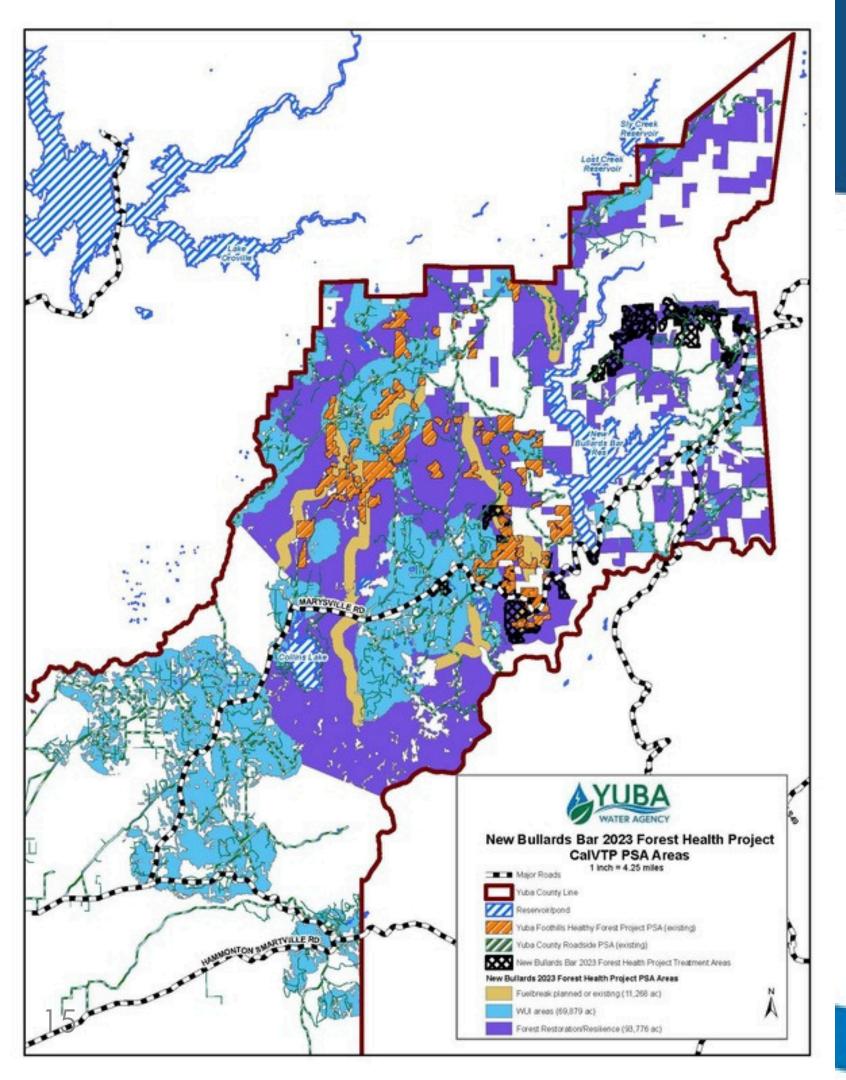


2023 New Bullards Bar Healthy Forest Grant

- Funded in 2023 provides \$7 M in new funding from Cal Fire CCI FH program
- includes the same partners as the Yuba Foothills grant with the addition of the National Forest Foundation and Tahoe National Forest (*counts as cost share for new direct federal funding for the NYFP)
- Includes ~4000 acres of fuels reduction treatments
- Increasing pace and scale through innovative CEQA covering all 175,000 forested acres in Yuba County







Cal VTP Project Specific Analysis (PSA)

- Will cover all treatments in the NBB FH grant
- Will also analyze fuel reduction treatments and mitigations of all forested acres in upper Yuba County
- Will support new projects by other partners being closer to shovel ready with only pretreatment biological surveys being required and a notice of determination (NOD) filed for consistency with this PSA



Additional Watershed Resilience efforts:

Yuba Community College Watershed Resilience Program

- Yuba Water grant for \$700 k for Education and
- Workforce Development
 Certificate programs for GIS, Soil Conservation and Watershed Management

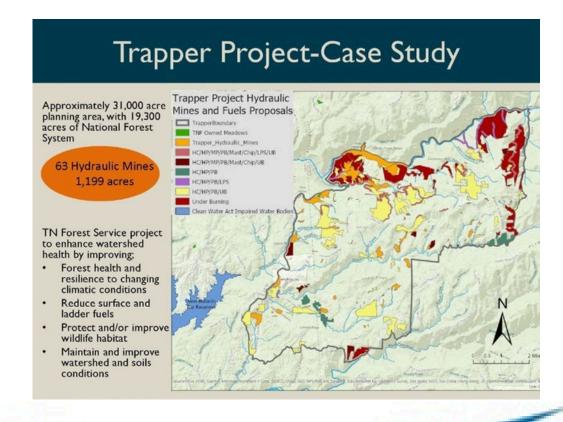
GIS Certificate Program Offered in Fall 2023 GIS and Geospatial Analysis allow students to integrate geography, data, and systems to solve a wide range of problems for government, business, healthcare, insurance, law enforcement and other industries. Courses: Intro to GIS Spatial Analysis Web GIS Cartographic Design for GIS Database Design and Management Intro to GIS Programming Typical GIS Employers Government (Federal, State, Regional) Utilities (Electrical, Telecommunications) Environment and Natural Resources Public Safety Transportation and Navigation Surveying, Engineering, Construction Health, Epidemiology, and more...





The Sierra Fund-Meadow Restoration and Mine remediation Impact Bonds

- Partner for Bay Area Council Planning Grant
- Investigation of the benefits of hydraulic mine remediation and meadow restoration as part of Forest Health work





Watershed Resilience Program Successes to Date:



Invested ~\$26 M to date to leverage more than \$182 M in external funds



Collaborating with 19 partners (and counting)



Helped develop and fund 14 projects in Yuba County and the upper watershed



More than 25,000 acres treated so far



Innovative planning including a NEPA EIS for all 210,000 acres of North Yuba watershed and Cal VTP CEQA for all 175,000 forested acres in Yuba County





Questions?

JoAnna Lessard, Watershed Manager jlessard@yubawater.org

Looking for more information? Visit yubawater.org











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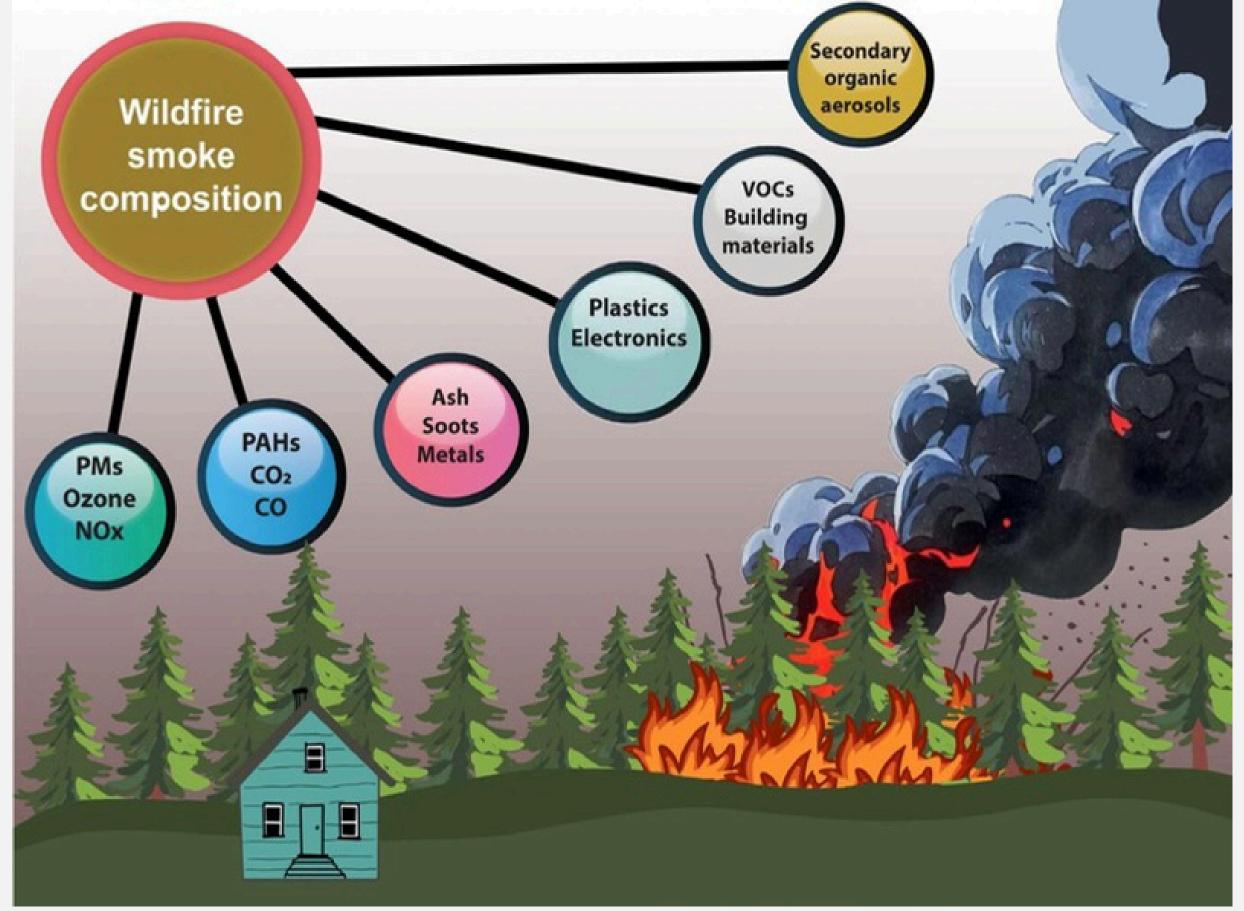
HEALTH EFFECTS OF WILDFIRE SMOKE



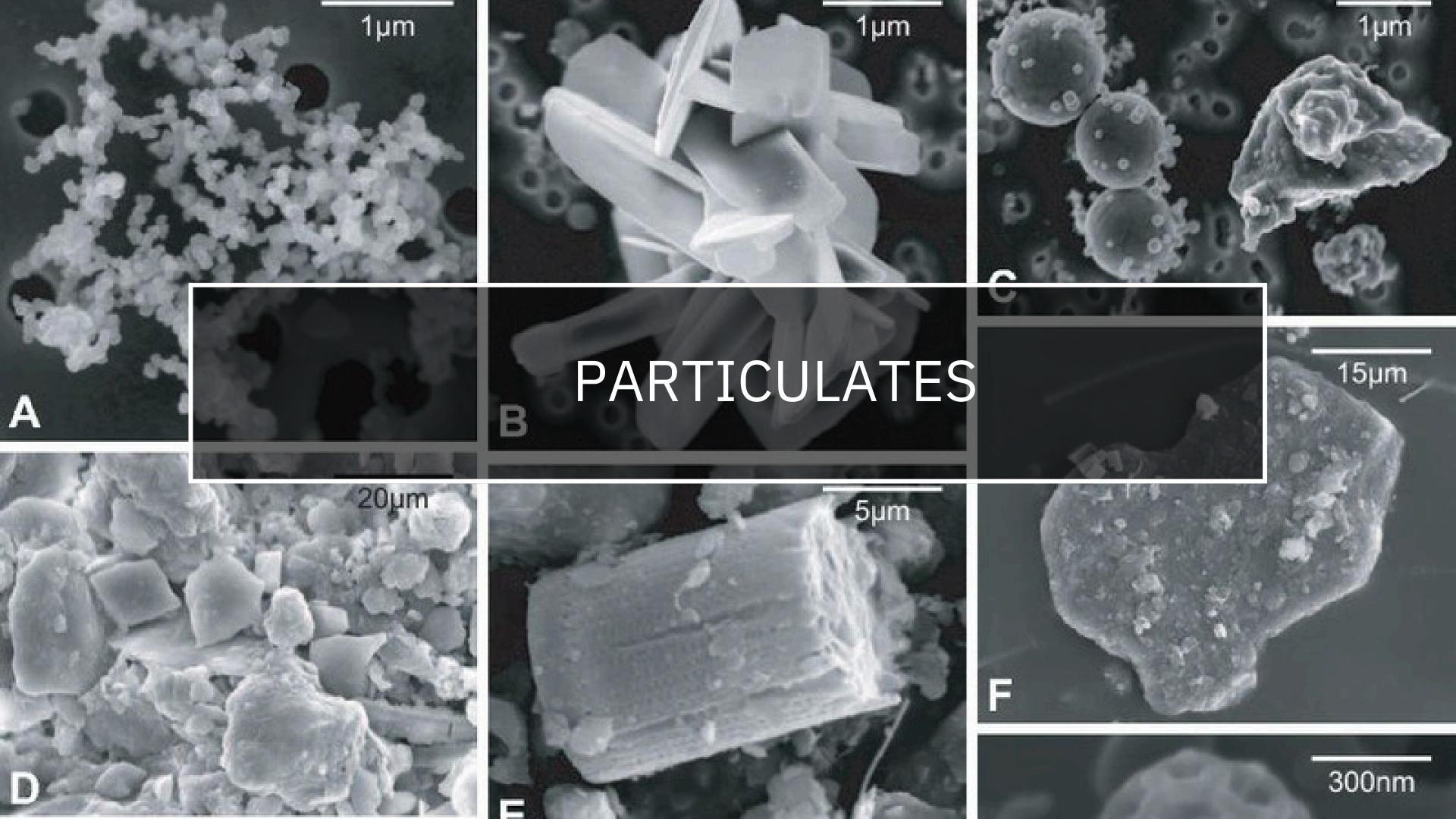
Dr. Vanessa Walker, Chief Medical Executive



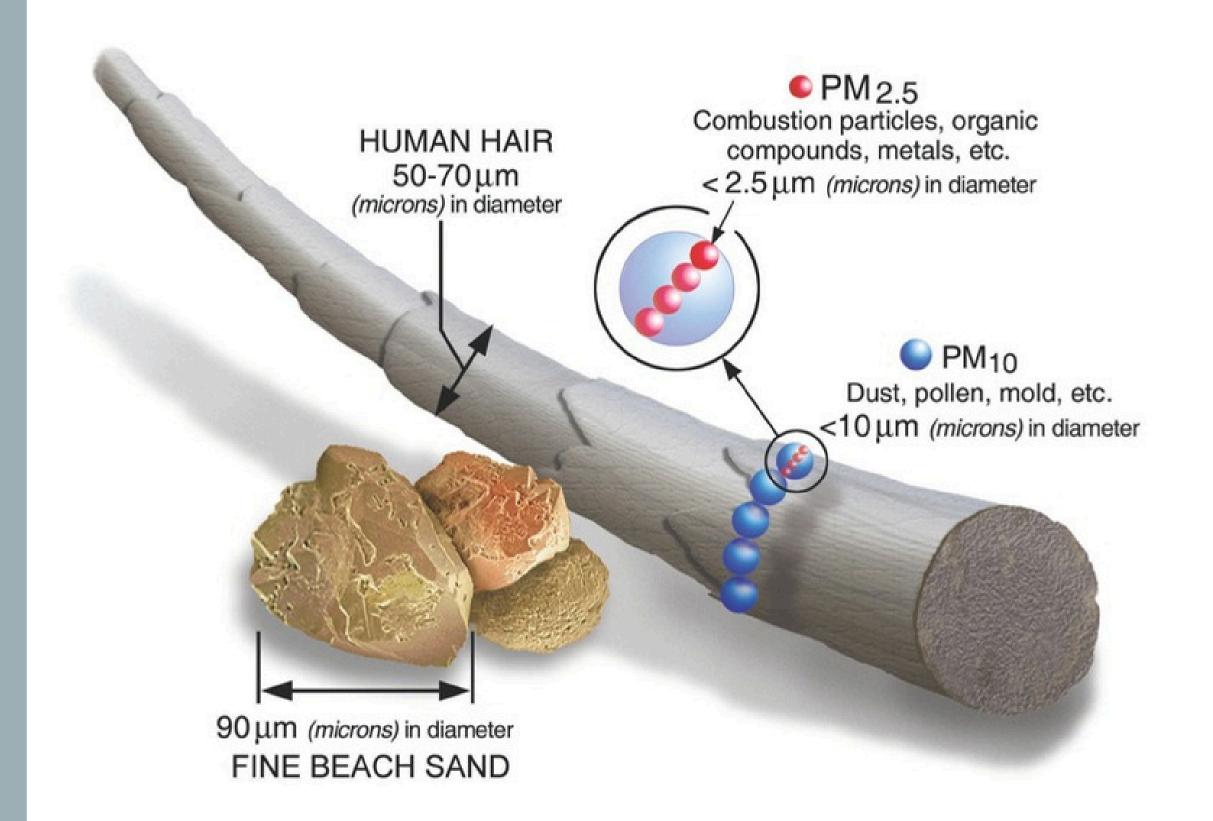




Primary composition of the wildfire smoke. PMs, particulate matters; NO*x*, nitrogen oxides; PAHs, polycyclic aromatic hydrocarbons; VOCs, volatile organic compounds.



PARTICULATE SIZES



HOW PARTICULATES ENTER THE BODY

PENETRATION OF PARTICLES INTO THE BODY

PM10

PM2.5 & PM1

PM0.1

COARSE PARTICLES

FINE PARTICLES

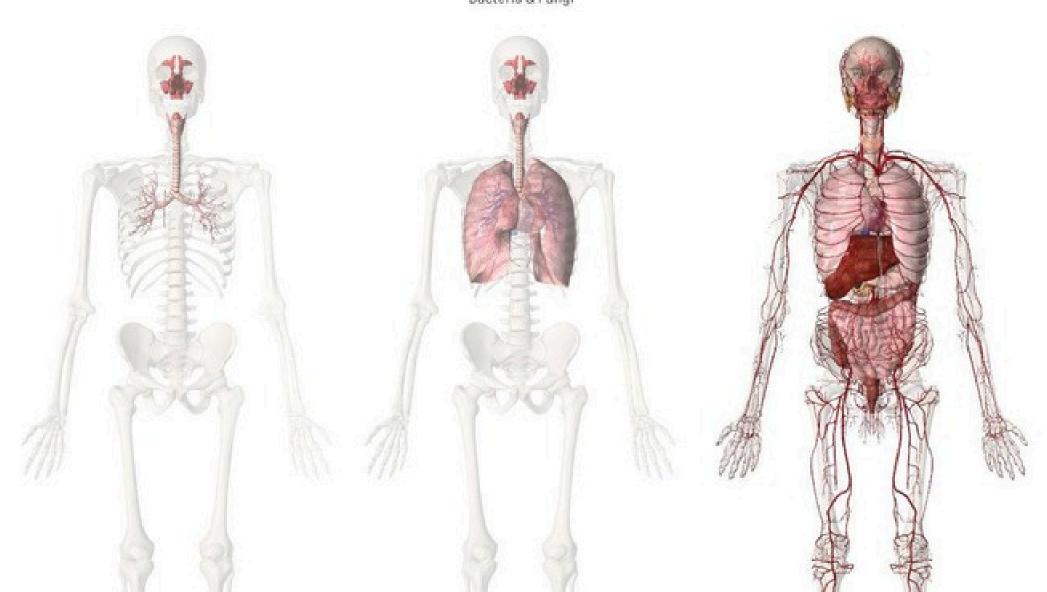
ULTRAFINE PARTICLES

Pollen Wood burning Dust Construction Fireworks

Road traffic

Wood burning Car exhaust Biomass Agricultural burning Fireworks Cooking Bacteria & Fungi

Wood burning Car exhaust Biomass Agricultural burning Viruses



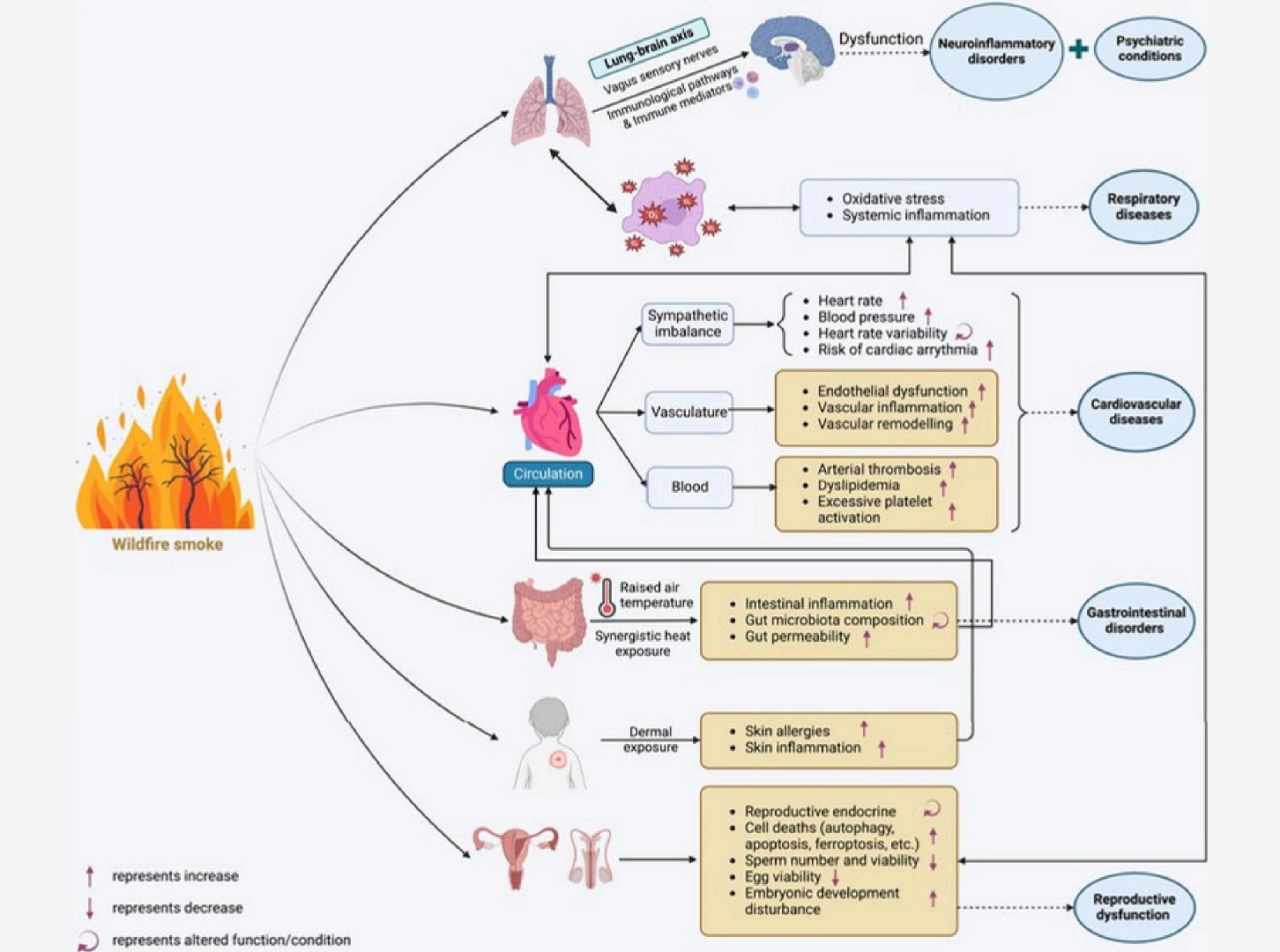
SIGNS AND SYMPTOMS OF EXPOSURE

RESPIRATORY/ENT

- Scratchy or watery eyes
- Coughing
- Sore throat
- Phlegm production
- Shortness of breath
- Wheezing

CARDIOVASCULAR

- Chest tightness
- Chest pain
- Palpitations
- Shortness of breath
- Unusual fatigue



Acute respiratory infection (bronchitis, pneumonia) Preterm Hypertension birth **Anxiety and Heart attack** and stroke depression Chronic Conjunctivitis obstructive Wildfire smoke pulmonary disease (COPD) and dry eye syndrome **Atopic Asthma** dermatitis Allergic rhinitis Other diseases, disorders and Allergic and immunological Respiratory and cardiovascular conditions diseases

disorders

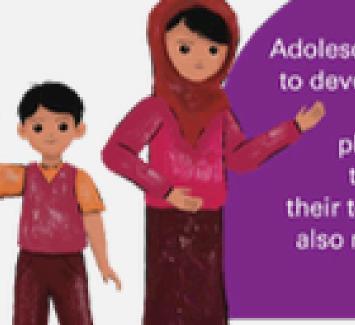
Vulnerabilities

Hormonal and physical changes can occur and lung capacity can be reduced during pregnancy.

Infants have developing systems, breathe more air, and are closer to the ground.



Immune system is still developing, as well as the brain and the lungs. Children are also moving more and spending time outdoors.



Adolescents continue to develop mentally and physically through their teens and are also more active.

Increased risk of:

Pregnancy and birth

Pre-eclampsia
Miscarriage or stillbirths
Gestational diabetes
Gestational hypertension
Preterm labour

Infant health

Low birth weight*
Congenital defects
Paediatric diabetes
Death

*associated with later-life respiratory problems and reduced height-for-age

Young child health

Asthma & respiratory diseases

Weaker immune response

Lower cognitive and neurological function

Adolescent health

Asthma & respiratory diseases

Metabolic disorders, e.g. obesity

Adverse neuropsychological effects





Increases in respiratory hospitalizations ranging from 1.3 to up to 10% with a 10 µg m-3 increase in wildfire-specific PM2.5, compared to 0.67 to 1.3% associated with non-wildfire PM2.5

Increase of 3.1% (95% confidence interval [CI]: 2.4, 3.9%) in all-cause mortality, 2.6% (95%CI: 1.5, 3.8%) in cardiovascular mortality, and 7.7% (95%CI: 5.9, 9.5) in respiratory mortality over 0–14 days with each 10 µg/m3 increase in daily wildfire-related PM2.5



Ambient Particulate Air Pollution and Daily Mortality in 652 Cities

Cong Liu, M.S., Renjie Chen, Ph.D., Francesco Sera, Ph.D., Ana M. Vicedo-Cabrera, Ph.D., Yuming Guo, Ph.D., Shilu Tong, Ph.D., Micheline S.Z.S. Coelho, Ph.D., Paulo H.N. Saldiva, Ph.D., Eric Lavigne, Ph.D., Patricia Matus, Ph.D., Nicolas Valdes Ortega, M.Sc., Samuel Osorio Garcia, Ph.D., et al.



Cancer

Epidemiology, Biomarkers & Prevention

Our data show independent associations between short-term exposure to PM₁₀ and PM_{2,5} and daily allcause, cardiovascular, and respiratory mortality in more than 600 cities across the globe. These data reinforce the evidence of a link between mortality and PM concentration established in regional and local studies. (Funded by the National Natural Science Foundation of China and others.)

Cancer Mortality Risks from Long-term Exposure to Ambient Fine Particle

Chit Ming Wong¹, Hilda Tsang¹, Hak Kan Lai¹, G. Neil Thomas², Kin Bong Lam³, King Pan Chan¹, Qishi Zheng¹, Jon G. Ayres⁴, Siu Yin Lee⁵, Tai Hing Lam¹, and Thuan Quoc Thach¹

For every 10 microgram per cubic meter (µg/m3) of increased exposure to PM ^{2,5}, risk of dying from any cancer rose by 22 percent.

Ambient particulate air pollution causes both immediate and long-term effects.



- Masks (well fitting N95 is needed), but have some contraindications
- Avoid outdoor activities during poor air quality days
- Keep doors and windows closed
- Close off large gaps in doors or windows
- HEPA filters or other air cleaners. Even DIY box fans with filters attached.
- Create "clean rooms" for sensitive people to stay safe
- Recirculate AC in the house or vehicles if possible
- Always keep 5 days of medications on hand if possible as well as 5 days of nonperishable food items
- Seek medical help quickly if severe symptoms develop

RESOURCES FOR MORE INFORMATION

- https://www.epa.gov/pmcourse/references-particle-pollution-and-your-patients-health
- https://climate.nasa.gov/news/3027/getting-to-the-hear t-of-the-par ticulate-matter/
- https://www.airnow.gov/?city=Auburn&state=CA&country=USA
- https://www.sciencedirect.com/science/article/abs/pii/S0012369218327223
- https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)307 52-2/fulltext
- https://aacrjournals.org/cebp/article/25/5/839/71066/Cancer-Mortality-Risks-from-Long-term-Exposure-to
- https://doi.org/10.1038/s41467-022-35326-x https://doi.org/10.1038/s41467-021-21708-0
- Wildfire Smoke: Health Effects, Mechanisms, and Mitigation. Lei Y, Lei TH, Lu C, Zhang X, Wang F. Environmental Science & Technology. 2024;58(48):21097-21119. doi:10.1021/acs.est.4c06653.

QUESTIONS?

Break & Mentimeter Exercise (5 min)







Economic Impacts of Wildfires



Erin Stumpf, MPPA, Broker Associate



Economic Impacts of Wildfires

Capital Region Climate Readiness Collaborative & Cleaner Air Partnership

Erin Stumpf, MPPA

March 17, 2025

About Erin Stumpf

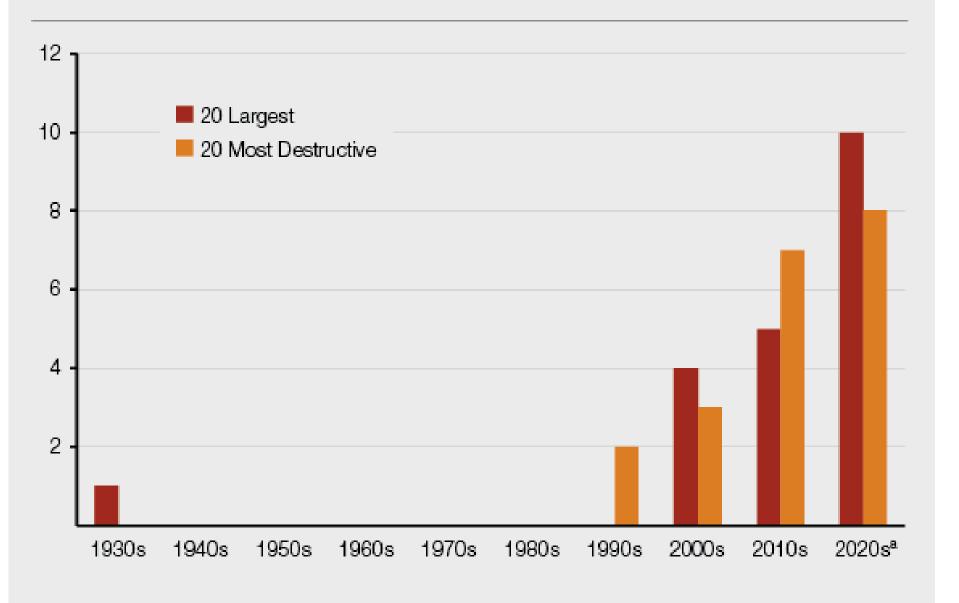
- REALTOR®, licensed since 2005
 - CA Real Estate Broker (DRE# 01706589), associate with Coldwell Banker Realty
- Masters Degree in Public Policy & Administration from Sacramento State
- Sacramento Association of REALTORS®
 - Board of Directors 2011-2018, 2020-2023
 - President in 2022
- California Association of REALTORS®
 - Board of Directors member since 2010
 - 2025 Strategic Planning Committee
- National Association of REALTORS®
 - Board of Directors member since 2022
 - 2025 'Housing Policy Issues Liaison" to the Executive Committee

Agenda

- Wildfires: Why is this conversation important?
- Economic Consequences and Spillover Effects of Wildfires
 - Housing Market Inventory and Housing Prices
 - Job Market, Local / State Government Fiscal Impacts
 - Individual and Aggregate Impacts
- Migration Patterns Post-Wildfire
 - Relocation Trends
 - Community Demographic Changes
- Wildfire Risks in our SACOG Region
- Property Insurance Crisis
 - Cost and Availability of Policies
 - California Fair Plan
- Home Hardening & Community Risk Mitigation
 - Fire Readiness versus Rebuilding
- Legislative and Regulatory Relief Efforts



Most of the Largest and Most Destructive Wildfires Have Occurred in Recent Decades



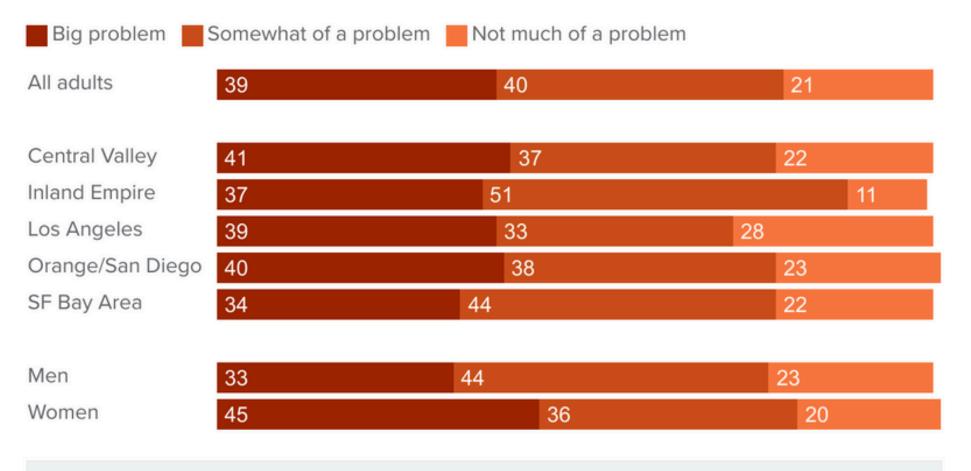
LAOÀ

^a Includes wildfires that occurred from January 2020 through January 2025.

Wildfires...

...have intensified in frequency and severity, leading to devastating economic consequences

Most Californians view the threat of wildfires in their part of the state as a problem

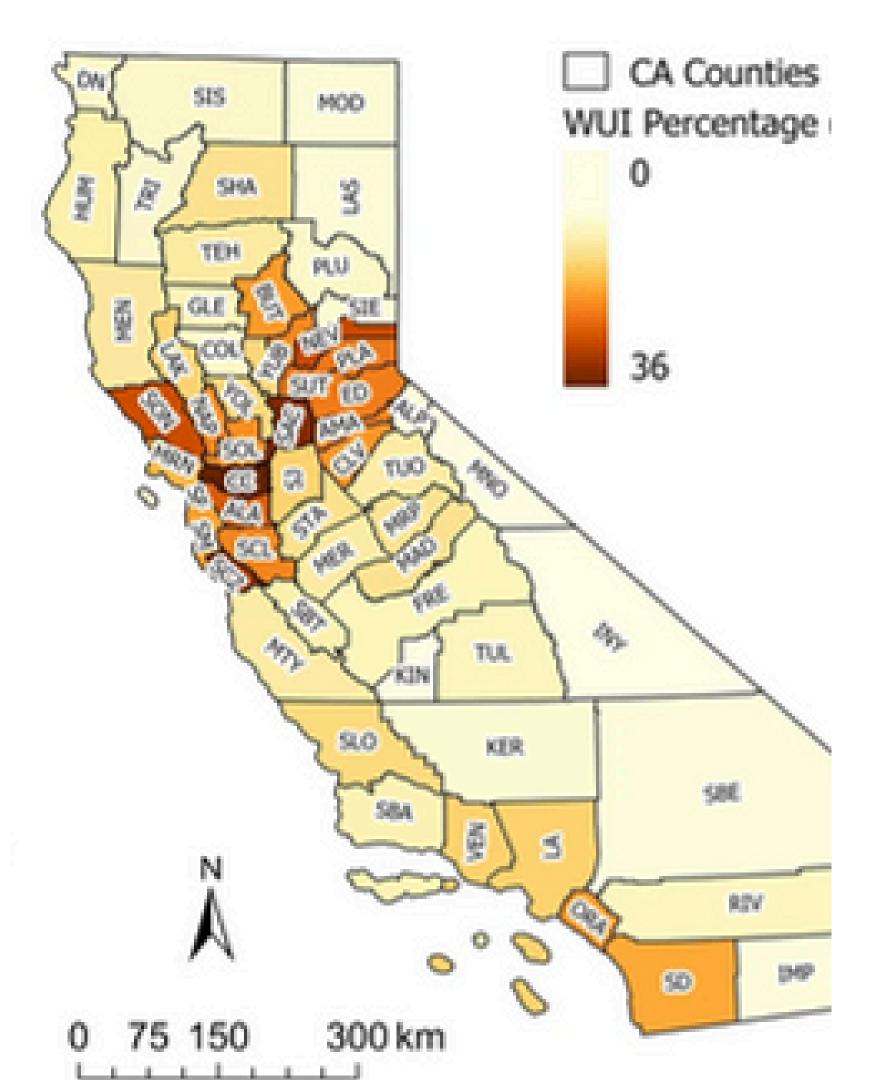


SOURCE: PPIC Statewide Survey, July 2024. Survey was fielded from June 24–July 2, 2024 (n=1,648 adults, n=1,261 likely voters).

FROM: PPIC Blog, January 2025.

Wildfires...

According to a Public Policy Institute of California Survey in July 2024, 79% of all adults surveyed viewed wildfire threat as a 'Big Problem" or "Somewhat of a Problem"



Wildfires...

The SACOG Region faces substantial wildfire risks, particularly in the Wildland-Urban Interface (WUI).

Source: Scientific Reports: "Mapping the wildland-urban interface in California using remote sensing data" (2022)

Economic Consequences & Spillover Effects of Wildfires

Coffey Park, Santa Rosa: before and after the 2017 Tubbs Fire

Photo Credit: Business Insider / Google Earth



Economic Consequences & Spillover Effects of Wildfires

City of Paradise: before and after the 2018 Camp Fire

Photo Credit: US Geological Survey



Economic Consequences – Housing Market

2017 Tubbs Fire

- Started October 8, 2017 full containment October 31, 2017
- Destroyed over 5,600 structures
 - Roughly 3,000 homes, 5% of City of Santa Rosa's housing stock destroyed
- Immediate decline in home sales volume in Sonoma County
- Home prices surged by 10-15% in nearby unaffected markets
- Asking rents jumped almost 40% as displaced residents sought temporary or permanent housing alternatives

Source: Bay Area Council Economic Institute: "The True Cost of Wildfires" (2021)

Economic Consequences – Housing Market

2018 Camp Fire

- Started November 8, 2018 full containment November 25, 2018
- Destroyed over 18,000 structures
 - Roughly 11,000 homes
- Housing market in Paradise essentially ceased to exist
- Within 25 miles of the fire's footprint, home prices increased by 13 percent in the six-week aftermath of the fire
- Rental rates in Chico and as far away as Sacramento increased as displaced residents sought temporary or permanent housing alternatives
 Source: Economic & Planning Systems: "Camp Fire Regional Economic Impact Analysis" (2021), Journal of Housing Economics: "Catastrophic fires, human displacement, and real estate prices in California" (2024)

Economic Consequences – State & Local Government

2017 Tubbs Fire

- Decreased property tax revenues for Sonoma County
- State government also saw a dip in payroll tax collections due to job losses and business closures – first time unemployment claims tripled in Napa and Sonoma Counties in October 2017
- Hotel Transient Occupancy Tax (TOT) fell approximately 6% in Santa Rosa in FY17/18
- Rebuilding efforts eventually contributed to an economic resurgence, particularly in the construction sector, as insurance payouts and government aid stimulated activity

Source: Bay Area Council Economic Institute: "The True Cost of Wildfires" (2021)

Economic Consequences – State & Local Government

2018 Camp Fire

- The Camp Fire resulted in a reduction of approximately \$1.86 billion in assessed property value for Butte County, equating to an over 8% decrease
- State government also saw a dip in payroll tax collections due to job losses and business closures – the Butte County unemployment rate went from 4.4% in October 2018 to 6.9% by January 2019
- Hotel Transient Occupancy Tax (TOT) was nearly unchanged Butte County in FY18/19, balanced by decreased tourism, and from increased spending by debris removal and recovery crews
- Rebuilding efforts eventually contributed to an economic resurgence, particularly in the construction sector, as insurance payouts and government aid stimulated activity

Source: Bay Area Council Economic Institute: "The True Cost of Wildfires" (2021), Economic & Planning Systems: "Camp Fire Regional Economic Impact Analysis" (2021), Butte County (2019)

Economic Consequences – For Individuals

For Individuals

- Marshall & Swift/Boeckh have found about 60 percent of homeowners nationwide are underinsured by approximately 17 percent of the cost of their home
- For those insured under the California FAIR Plan, there are payout limits that may fall short of covering losses, nor do these policies cover personal property
- Across all of California, LendingTree found 806,600 owners without insurance
 coverage out of 7.66 million residences (approximately 10.5% of all homeowners)
- 90-day mortgage delinquencies were 4 percentage points higher for properties that were damaged by wildfires compared to properties 1 to 2 miles outside of the wildfire perimeter
- Negative wealth shocks after these events can delay mortgage payments, restrict borrowers' access to future credit, and increase lenders' exposure to default risk Source: United Policyholders (2025), Federal Reserve Bank of Philadelphia: "California Wildfires, Property Damage, and Mortgage Repayment" (2023)

Economic Consequences – Aggregate

In the aggregate:

- "The total economic impacts of a wildfire go well beyond the cost of damages, as they include health costs and indirect losses due to power shut-offs, business closures, travel cancellations, supply chain disruptions, among other costs"
- "Researchers have calculated the full cost of 2018's fires in California and found a total cost of \$148.5 billion to the U.S. economy—or 0.7% of the country's annual gross domestic product"
- "Insured losses in California totaled \$12.3 billion in 2017 and just over \$13.0 billion in 2018"
- "The state, through CAL FIRE, also spent nearly \$1.3 billion during the 2020/2021 fiscal year on fire suppression costs, a rapid rise from the \$90 million spent on suppression during the 2010/2011 fiscal year"

Source: Bay Area Council Economic Institute: "The True Cost of Wildfires" (2021)

Migration Patterns Post-Wildfire

Buttle County Population by City, 2015-2021

(m		-	967	1000			- 880
Page	1,7%	1,942	1,952	1,566	1007	1,860	1,797
Otto	89.65	10,007	17,766	10,040	710/106	110,504	101,400
Grothey	4,836	4,803	4,074	4,716	1,000	6,315	4,109
Oracle	94,379	16,007	18,101	16,675	20,794	10,800	17,363
Paradise	29,784	24,270	25,624	26,580	4,674	1,400	4,044
Brown Of County	60,00	80,607	60/61	80,019	19,700	0.734	18,000
Courty Swoot	205,500	221,786	195,444	234,376	195,815	300,751	255,447

free, January Betraces, from Safferia Preparement of Phonos Analoss, Bay Face Council Economic Proteom.

Sonoma County Population by City, 2015-2021

(by	2015	2014	2017	201	2011	2000	100
Deserticie	6,000	6,535	1,007	1,000	1,340	1,170	17.00
Cope	1366	1300	7,566	2,698	1,00	7,666	3,609
Healthdoorg	11,640	7546	71,603	11,040	10,011	11,101	11,800
holism	40,401	1070	41,070	45,764	60,710	45,738	41,704
Robinson Rade	6,67	41,348	41,574	40,009	40,000	40.00	40,464
Santa Rosa	121,243	125,512	174,556	171,012	174,885	173,160	121,711
Markeyel	3309	5,640	7,680	3,799	1500	3,540	3,887
Some	16/00	10,947	16,867	11,007	15,750	7580	10,704
Window	0.7%	27,844	32,504	25,405	20,000	25,140	27,000
book Of Costs	100,000	140327	hell free	160,560	19199	130,660	104,710
County Send	100.401	500.004	2012/01/05	100.481	405.111	400.00	444.00



Migration Patterns Post-Wildfire

2017 Tubbs Fire

 Santa Rosa residents did not move out of the city: 695 or 9% of displaced persons crossed jurisdictional boundaries, most often to nearby cities or unincorporated areas in the same county

Source: Population Research Center (2025)

2018 Camp Fire

 Following the Camp Fire, an estimated 40% of displaced residents permanently left Butte County
 Source: California Department of Housing & Community Development (2020)



Community Demographic Changes

• 2017 Tubbs Fire

- "The place [Coffey Park] is much younger than it was before the fire; many of the elderly, mortgages paid off or intimidated by the rebuilding process, left to be closer to other family. But the young residents are also much wealthier than their predecessors, and a neighborhood once known for architectural uniformity is now a playground of custom homes."
- "Many of the victims have been left without adequate insurance or financial means to rebuild. Those who remained are in large part the well-off and the well-insured, a trend helping remake and re-sort communities across the state by rich and poor."

Source: Washington Post. "Gentrification by Fire" (2024)

Community Demographic Changes

2018 Camp Fire

- "Compared to single-family residences, multi-family residences and mobile or motor homes were more likely to be destroyed in the fire. Compared to owner-occupied residences, renter-occupied residences were more likely to be destroyed. Lower-value homes were more likely to be destroyed than higher value homes."
- "Compared to single-family residences, multi-family residences and mobile or motor homes were less likely to be reconstructed. Compared to owneroccupied residences, renter-occupied residences were less likely to be reconstructed. Lower-value homes were <u>less likely to be reconstructed</u> than higher value homes."

Source: Journal of Landscape and Urban Planning. "Post-wildfire neighborhood change: Evidence from the 2018 Camp Fire" (2024)

CA Counties MOD WUI Percentage KER 924 300 km

Could it occur in our SACOG Region?

The SACOG Region faces substantial wildfire risks, particularly in the Wildland-Urban Interface (WUI).

Source: Scientific Reports: "Mapping the wildland-urban interface in California using remote sensing data" (2022)



California Property Insurance Crisis

How much time do we have?

California Property Insurance premiums are rising for existing policyholders

"...[insurance] prices in California have risen rapidly in recent years and are expected to increase. In March 2024, both State Farm and Farmers Insurance Group — the state's top two home insurers, carrying just over 35% of all policies — raised their rates by 20% and 15%, respectively."

Source: San Francisco Chronicle (2024)



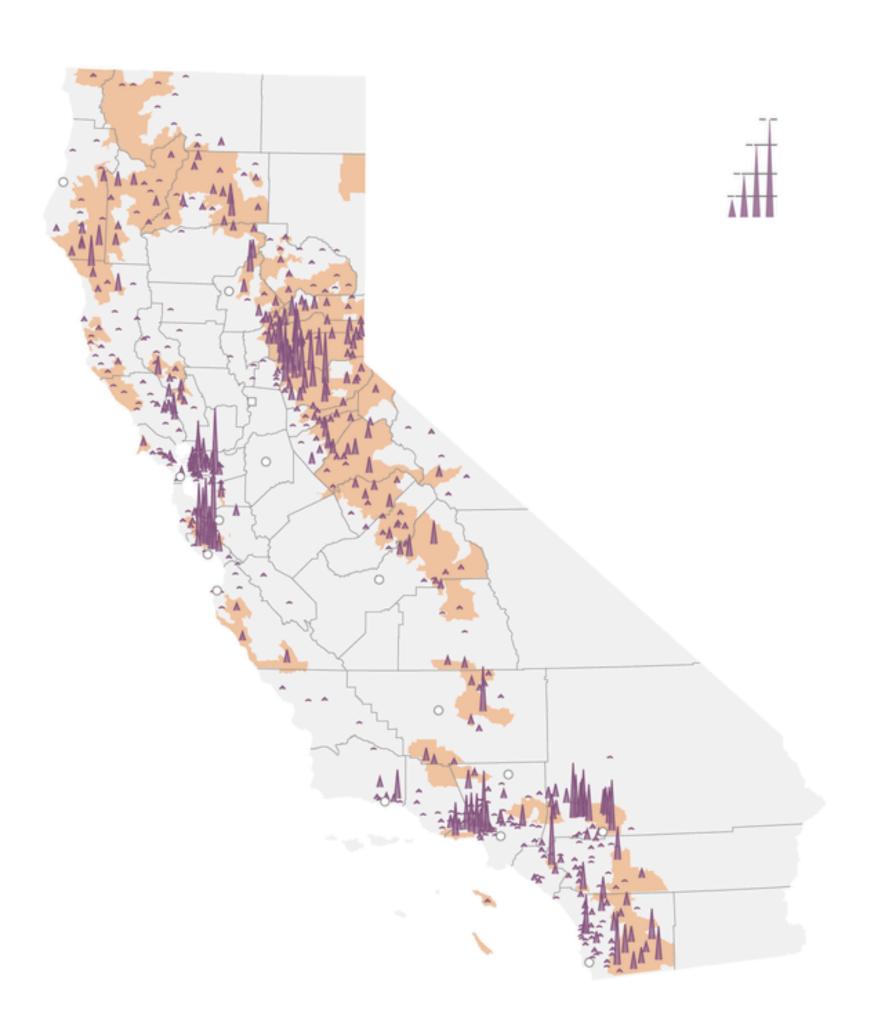
California Context



Insurance Group and Ranking (2022)	Market Share	2023 Rate Increases (Pending & Approved)	Major Action Since 2022
1. State Farm	21.22%	28.1%	Paused new policies
2. Farmers (10 companies)	14.9%	17.7%, 12.5%	Limited new policies to 7,000 per month
3. CSAA (2 companies)	6.9%	18.55% (approved 2021)	
4. Liberty Mutual (6 companies)	6.6%	29%, 10.6%	
5. Mercury	6%	12.6%, 7%	
6. Allstate (5 companies)	6%	39.6%	Paused new policies
7. USAA (4 companies)	5.7%	30.6%, 16.5%, 6.9%, 3%	Restricted underwriting to low-risk only
8. Auto Club	5.1%	20%	
9. Travelers	4.2%	21.7%	Limited new policies
10. American Family (3 companies)	2.8%	22.7%, 6.9%, 6.9%	
11. Nationwide (2 companies)	2.5%	19.9%, 24.5%	Limited new policies
12. Chubb (8 companies)	2.2%		Ceased writing high-value homes with higher wildfire risk, and non-renewed some high-value homes

California Property Insurers curtail offering new policies

Source: California Department of Insurance (2023)



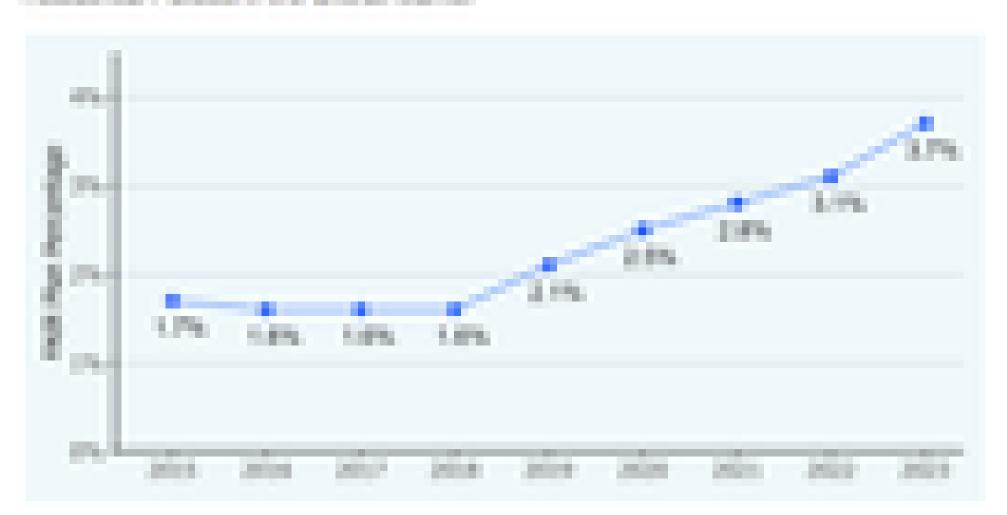
Insurance Carriers are nonrenewing existing policies

Non-renewals for every 100 policies per ZIP code, 2019-24 ZIP codes with moderate to very high fire risk are marked in orange

Source: SF Chronicle, California Department of Insurance (2025)

California FAIR Plan Insurance

Pigure 1. New and Renewed PAIR Plan Polices as a Percentage of New and Renewed Receivable Polices in the Coward Worker

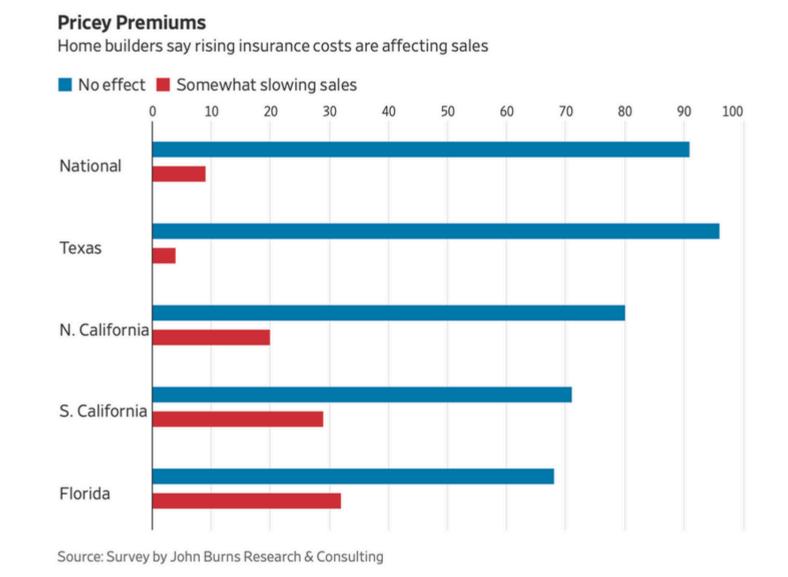




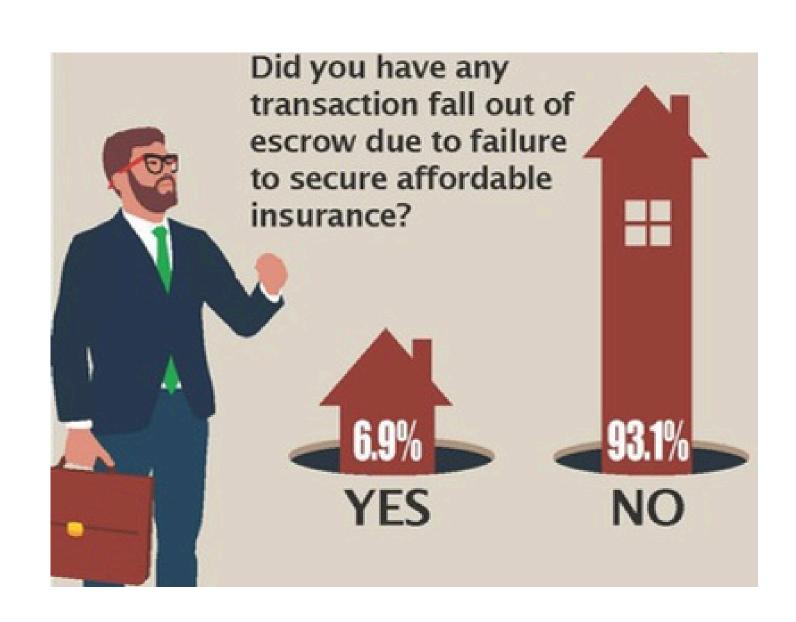
Rising Property Insurance premiums slowing new home sales

In 2022, new home builders reported that rising insurance costs were affecting new home sales – in Northern California at more than double the rate reported nationally.

Source: John Burns Research & Consulting (2022)



Difficulty obtaining insurance is affecting real estate transactions



In its annual membership survey:

- 6.9% said their transaction cancelled due to failure to secure affordable insurance
- 37% of respondents noted that insurance premium quotes were "too expensive"
- 27% said their "clients' were denied a policy by a carrier"
- 35% reported difficulty obtaining insurance

Source: California Association of REALTORS (2024)

Home Hardening & Risk Mitigation

- In northern and southern California, building an Enhanced Wildfire-Resistant Home increased construction costs by approximately \$2,800 over the baseline home
- Constructing a home to Optimum Wildfire Resistance increased overall costs by \$18,180 in northern California and by \$27,080 in southern California

Source: Headwaters Economics: "Construction Costs for a Wildfire Resistant Home" (2022)

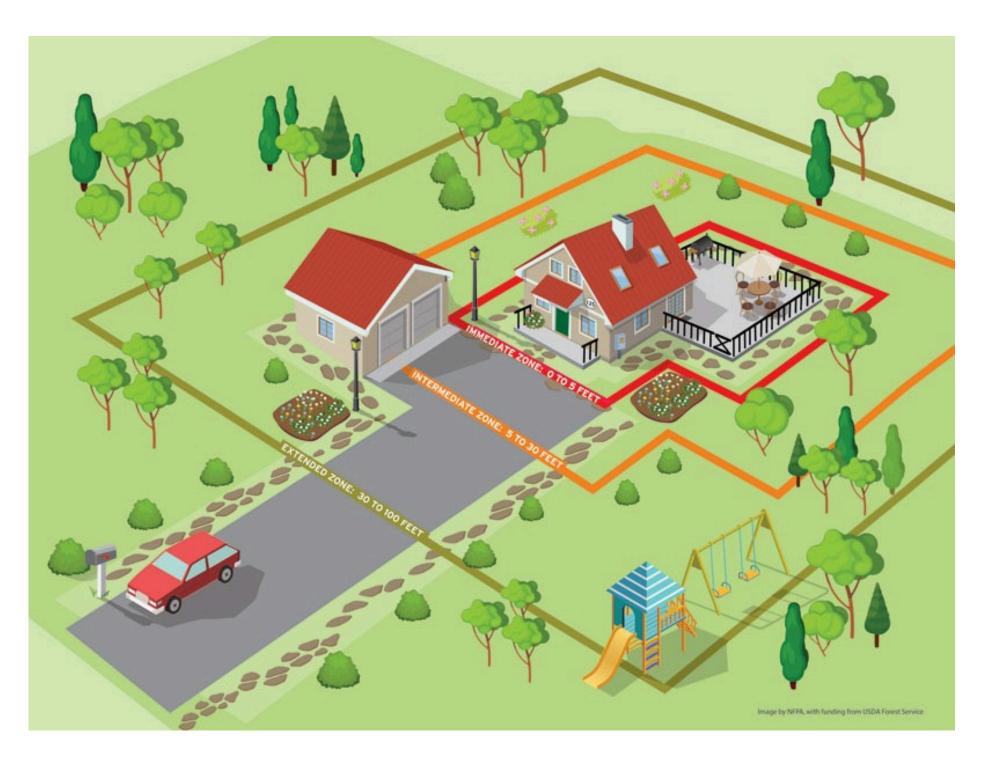


Home Hardening & Risk Mitigation

Defensible Space Zones:

- Zone 0 (0-5 feet): Non-combustible area around the home, including surfaces of the structure and areas under and around attached decks.
- Zone 1 (5-30 feet): Lean, clean, and green zone, where vegetation is managed to reduce fire hazards.
- Zone 2 (30-100 feet): Intermediate zone where fire intensity is reduced and flames are kept away from structures.

Source: USDA/USFS: "Make Your Home Wildfire Defensible" (2021)



Community Risk Mitigation

- Expand use of prescribed fires
- Increase sustainable timber harvesting
- Investments in early detection technology
- Investments in forest management projects that contribute to forest health and fire protection
- Educate wildfire-prone homeowners and neighborhoods,
 provide grants for home hardening
- Investment in more personnel, aircraft capacity, heavy equipment: pre-deploy in strategic locations and respond to breaking fires

Source: California's Wildfire and Forest Resilience Action Plan (2021)

Community Risk Mitigation

- "Each \$1 invested in disaster preparation saves \$13 in economic costs, damages, and cleanup cost after a climate event"
 Source: US Chamber of Commerce: "The Preparedness Payoff: The Economic Benefits of Investing in Climate Resilience" (2024)
- "Departments are still implementing the funding from the prior wildfire and forest resilience packages and that information on the outcomes from those funds is limited" Source: California Legislative Analysts Office: "Wildfire and Forest Resilience Package" (2022)



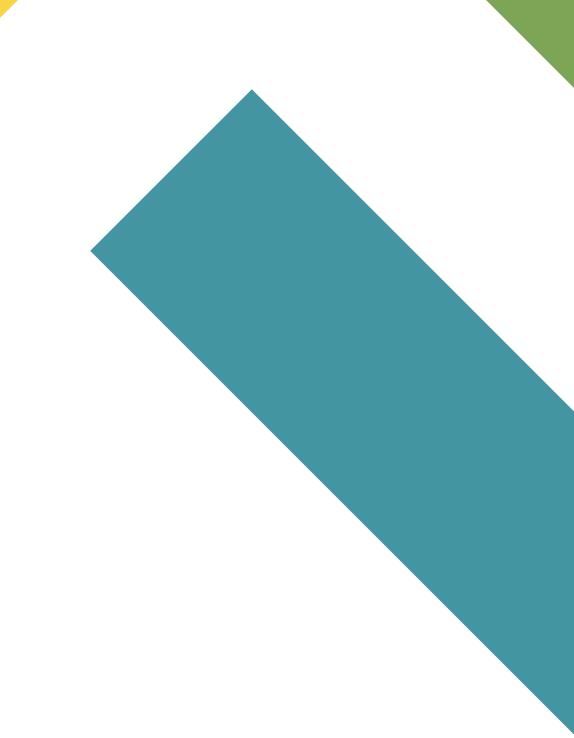
What is the Legislature Doing?

- SB 269 (Choi) Fire Safe Home Tax Credits Act: offers personal income tax credits to homeowners for expenses related to fire safety improvements. Specifically, it allows credits for qualified home hardening and vegetation management costs incurred between January 1, 2026, and January 1, 2031, with the total annual credits capped at \$500 million.
- AB 1 (Connolly) Residential property insurance: mandates that by 1/1/30 and every 5 years thereafter, the Department of Insurance must assess whether to update its regulations to include more building hardening measures and community wide wildfire mitigation programs.
- AB 75 (Calderon) Residential Property Insurance Images: would require insurers to notify residential property insurance policy holders at least 30 days before taking aerial images of the insured property, except when there is a submitted or pending claim. The images must also be provided to the policy holder upon request.
- AB 226 (Calderon) California FAIR plan: allows the FAIR plan to issue bonds that will help alleviate the strain on the insurance market when the FAIR plan must issue an assessment to cover its pay outs.
- AB 238 (Harabedian) Mortgage Forbearance: would allow homeowners affected negatively financially to receive two 180-day forbearance on their mortgage with an attestation of financial difficulties. (C.A.R. has a support if amended position on this bill to ensure that it does not cause conflict with the GSE servicing guidelines, is limited to those lenders who make or service 5 or more loans a year and is not reflected negatively on the credit reports of those who take advantage of such forbearance)

Any Questions?

Thank you!

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Closing Remarks & Next Steps

Cleaner Air Partnership

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Capital Region Climate Readiness
Collaborative

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Post Event Survey



Thank you for joining us!