

Nevada County OES Virtual Office Hours - Summary of Online Videos

September 2022 to October 2024

(compiled by Will Hart, President, Greater Cement Hill Neighborhood Association)

Virtual Office Hours (VOH) as designed and produced by the Office of Emergency Service's Alessandra Zambrano and Alex Keeble-Toll are an incredible resource for all matters fire related. Each VOH is packed with information relating to many categories.

View at: https://www.youtube.com/playlist?list=PLXPTjQ-jmMjXmc4lw2_Zc2dW2wc6ZOaBB
or easier to type in: <https://rb.gy/m3m58b>

OES Video

#	TITLE / Date / by Who	KEY CATEGORIES	TOPICS
1	PROJECT DESIGN 9/22/2022 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project <i>How do I get a Project started?</i>	Project starter: Basics <ul style="list-style-type: none"> • Description • Location • Cost and funding considerations • Other considerations • When to involve the County
2	COMMUNITY OUTREACH 9/26/2022 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project • Community <i>How do I develop community support?</i> <i>How do I get a Project started?</i>	<ul style="list-style-type: none"> • The importance of Right of Entry (ROE) • Stakeholder involvement • Challenges of community involvement
3	WILDFIRE HAZARD vs WILFIRE RISK 10/14/2022 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Mitigation • Wildfire <i>The Hazard and Risk Triangles</i> <i>Assessing Risk and Mitigation</i>	<ul style="list-style-type: none"> • Understanding the Wildfire Behavior Triangle: Weather, Fuel, Topography • Understanding the Risk Triangle: Intensity, Likelihood, Susceptibility * Susceptibility = Vulnerability • Assessing Wildfire Risk and Mitigation
4	PROJECT PLANNING - Project Types 10/28/2022 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project <i>What types of Projects are there?</i>	<ul style="list-style-type: none"> • Implementation Projects • Research Projects • Outreach and Educational Projects • Programmatic Projects • Project Tracking and Tools available

5	HAZARDOUS VEGETATION ORDINANCE 11/10/2022 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst, Roger Tucker: Defensible Space Inspector	<ul style="list-style-type: none"> • Mitigation • Defensible Space • Law <i>Defensible Space</i> <i>What about my neighbor?</i> <i>Fire and the Law</i>	<ul style="list-style-type: none"> • PRC 4291 replaces 2477 • Defensible Space Zones basics • Neighbor to neighbor • Property line 30' fuel reduction zone
6	HOLISTIC PROJECTS 12/2/2022 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project • Community • Wildfire <i>What types of Projects are there?</i> <i>The Hazard and Risk Triangles</i>	<ul style="list-style-type: none"> • Looking at the big picture: Multidisciplinary with Multi-benefit effect • Can affect individual parcels • QWRA - Qualitative Wildfire Risk Assessment • Another look at the RISK TRIANGLE • Nevada County High Value Risk Assessment - HVRA <ul style="list-style-type: none"> - Community lifelines - Community health - Natural resources - Economic resources • Exposure Analysis
7	GRANT FUNDED PROJECTS 12/12/2022 Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project • Grants <i>How do I fund a Project?</i>	<ul style="list-style-type: none"> • Landscape Scale: Wide scale benefits • Community Level • Individual Level
8	MATCH FUNDING 12/23/2022 Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project • Grants <i>What is Match?</i>	<ul style="list-style-type: none"> • Cost sharing with cash or in-kind • Grant requirement % • Types of in-kind match
9	TREE MORTALITY 1/6/2023 Jeff Lauder - Sierra Stream Inst, Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Trees/plants <i>Bark Beetles</i>	<ul style="list-style-type: none"> • Drought effect • Bark beetles • Tree physiology • Beetle response

	TITLE / Date / by who	KEY CATEGORIES	TOPICS
10	MAPPING PROJECTS 1/20/2023 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble-Toll: Senior Administrative Analyst, Lindsey Gordon - GIS Analyst	<ul style="list-style-type: none"> • Project <i>Project Tools</i>	<ul style="list-style-type: none"> • Map Basics and Considerations • Maps as a communication tool • Where to find pertinent maps • GIS - Geographic Information System
11	WILDFIRE & RECREATION 2/3/2023 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Wildfire • Community <i>Wildfire and recreation</i>	<ul style="list-style-type: none"> • Direct and indirect effects • Rec areas as ignition source • Recreation and resiliency master plan
12	BLM PROJECT PATHWAYS 2/17/2023 Chris Friedel YWI, Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble-Toll: Senior Administrative Analyst, Erika Seward: Senior Admin Analyst	<ul style="list-style-type: none"> • Project • Wildfire • History <i>What about Federal Land (BLM)?</i>	<ul style="list-style-type: none"> • History of BLM • Priorities • Problems • BLM Project Pathways
13	FIRE ADAPTED COMMUNITIES & ARCHETYPES 3/10/2023 Alessandra Zambrano: County Wildfire Coordinator	<ul style="list-style-type: none"> • Wildfire • Community <i>Wildfire and our Community</i>	<ul style="list-style-type: none"> • Five Community Archetypes: <ul style="list-style-type: none"> - Working Landscape - Rural Lifestyle - High Amenity High Resource - Formal Subdivision - Commercial & Highly Developed • Perception of wildfire mitigation • Responsibility for fire protection • Collective action • FAC PATHWAYS TOOL
14	PROJECT ON FEDERAL LAND 3/17/2023 Alessandra Zambrano: County Wildfire Coordinator	<ul style="list-style-type: none"> • Project <i>What about Federal Land (BLM)?</i>	<ul style="list-style-type: none"> • USFS is primary partner • Risks • Challenges • Collaboration partnership with USFS • Stewardship
15	CEQA - CALIFORNIA ENVIRONMENTAL QUALITY ACT 4/14/2023 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project <i>What is CEQA and EIR?</i>	<ul style="list-style-type: none"> • History • CEQA vs NEPA • Applicants/Lead Agency • What is a Project • Cultural Considerations • Exemptions • The Initial Study • Threshold of Significance

16	EIR - PART 1 4/28/2023 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project <i>Do I need an EIR?</i>	<ul style="list-style-type: none"> • Triggering an EIR • Timeline • Draft EIR • EIR Contents • Final EIR • Notice of Determination • Mitigation and Monitoring
17	PLANT ADAPTATION to FIRE 5/12/2023 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Wildfire • Ecology • Trees/plants <i>Wildfire Ecology</i>	<ul style="list-style-type: none"> • Fire Intensity - types • Fire Severity • Fire Regimes • Plant Types • Nevada County plants • Landscaping - do's and don't • Plant Organizations
18	CEQA 2 - CATEGORICAL EXEMPTIONS 6/6/2023 Alessandra Zambrano: County Wildfire Coordinator, Dillion Sheedy: Truckee Fire	<ul style="list-style-type: none"> • Project <i>What is CEQA and EIR?</i>	<ul style="list-style-type: none"> • Types of exemptions: <ul style="list-style-type: none"> - General Exemption - Statutory Exemption - Categorical Exemption • Exemption process
19	FIRE BEHAVIOR and EVACUATION 7/7/2023 Alessandra Zambrano: County Wildfire Coordinator, Lt Sean Scales: NC Sheriffs Dept assigned to OES	<ul style="list-style-type: none"> • Wildfire • Community • Evacuation <i>Fire Behavior</i> <i>Evacuation</i>	<ul style="list-style-type: none"> • General Behavior • Fuel Driven Fire • Wind Driven Fire • Fire Behavior Triangle • Three types of Fire Heat • Evacuation • Red Flag Warning Day • Evacuation Best Practices

20 EIR - PART 2

7/14/2023

Alessandra Zambrano: County
Wildfire Coordinator, Alex Keeble-
Toll: Senior Administrative Analyst

• **Project**

Do I need an EIR?

- Threshold of Significance
- Appendix G
 - Aesthetics
 - Agricultural & Forestry
 - Air Quality
 - Biological Resources
 - Cultural Resources
 - Energy
 - Geology and Soils
 - Green House Gas Emissions
 - Hazard and Hazardous Material
 - Hydrology and Water Quality
 - Land Use & Planning
 - Mineral Resources
 - Noise
 - Population and Housing
 - Public Service
 - Recreation
 - Transportation
 - Tribal and Cultural Resources
 - Utilities and Service Systems
 - Wildfire
 - Biomass

21 BIOMASS

7/28/2023

Alex Keeble-Toll: Senior
Administrative Analyst

- **Mitigation**
- **Wildfire**
- **History**

Fire Mitigation

- History
 - Extraction + Suppression + Land Use = Excess Biomass
- Disposal
- Constraints
 - Chip and Broadcast
 - Pile Burn
 - Off-site Disposal
- Biomass and Carbon Storage
 - Climate Resilience
- Solutions

22 County Wildfire Protection Plan - Chat

4/11/2023

Alessandra Zambrano: County
Wildfire Coordinator, Alex Keeble-
Toll: Senior Administrative Analyst,
Eric Horntvedt: Truckee Fire
Protection District

A chat about the NC Wildfire
Protection Plan

23 PAST EVENTS: LESSONS LEARNED/FUTURE OUTCOMES

9/8/2023

Alessandra Zambrano: County
Wildfire Coordinator, Alex Keeble-
Toll: Senior Administrative Analyst

- History

A look at the major fires in CA from 1991

- Lessons Learned
- Changes made to Fire Policy

24 PRESCRIBED BURNS

9/22/2023

Alessandra Zambrano: County
Wildfire Coordinator, Alex Keeble-
Toll: Senior Administrative Analyst,
Cordi Craig: Placer Resource
Conservation District, JoAnne
Fites-Kaufman: Fire Scientist, Burn
Boss

- Mitigation
- Wildfire

What can I do?

- Barriers:
 - Risk
 - Resource Related
 - Regulatory Barriers
- Education + Training = Implementation
- Training - Demonstration Burns

25 DEFENSIBLE SPACE PROGRAMS

10/20/2023

Alessandra Zambrano: County
Wildfire Coordinator, Ricky
Martinez: Defensible Space
Inspector

- Defensible Space
- Law

Defensible Space

- Ordinance Updates 4291
- 2521 Adapted 4/18/23
 - Propane Tank regulations
 - 0-5" Zone
 - Fuel Modification Area
- Defensible Space Inspection Program Priorities

26 FUEL TREATMENT AND REDUCTIONS

10/5/2023

Alessandra Zambrano: County
Wildfire Coordinator, Ricky
Martinez: Defensible Space
Inspector

- Project
- Grants
- Mitigation

What can I do?

How do I fund a Project?

- Treatment Options:
 - Mechanical
 - Hand treatment
 - Herbivory
 - Prescribed Fire
 - Chemical Treatment
- How OES Chooses Projects
 - Project Types
 - Fuel Reduction and Grant Funding

27 NEVADA COUNTY DISASTER RECOVERY

7/3/2023

Alessandra Zambrano: County
Wildfire Coordinator, Pu
Cummings: OES Program
Manager

- Recovery

Post Fire Recovery

- Response Creates Recovery
- Local / CA Gov / FEMA
- Response and Costs of Recovery
- Residential Individual Recovery
- Navigator Program
- SBA
- Disaster Specific Mitigation Programs

28	WILDFIRE AS A SOCIAL PROBLEM 11/17/2023 Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Community <i>Wildfire and our Community</i>	<ul style="list-style-type: none"> • Social Science Meets Fire Science • Comprehensive Focus <ul style="list-style-type: none"> - Socio-Ecological Resilience • Intervention Strategies • Scales of Resilience <ul style="list-style-type: none"> - LANDSCAPE->COMMUNITY->INDIVIDUAL • Landowner Risk vs Treatment • Actions
29	POST WILDFIRE HAZARDS 12/1/2023 Alessandra Zambrano: County Wildfire Coordinator	<ul style="list-style-type: none"> • Recovery <i>Post Fire Recovery</i>	<ul style="list-style-type: none"> • Intensity vs Severity • Landscape Level <ul style="list-style-type: none"> - Post Fire Flooding - Water Impacts - Erosion • Community Level <ul style="list-style-type: none"> - Infrastructure Clean Up - Social Impacts • Individual Level <ul style="list-style-type: none"> - Clean Up - Financial Impacts • How to Prevent Compounding Impacts <ul style="list-style-type: none"> - Landscape Level - Community Level - Individual Level
30	NEVADA CO EVACUATION STUDY 12/15/2023 Sean Scales: NC Sheriffs Office, OES Liasson, Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Planning • Evacuation <i>Nevada Co Evacuation Study</i> <i>Evacuation</i>	<ul style="list-style-type: none"> • Evacuation Goals • Evacuation Study Components; <ul style="list-style-type: none"> - Appendix A: Community identified concerns; - Appendix B: Lardis modeling • Study: <ul style="list-style-type: none"> - fire behavior - traffic analysis of high priority areas; • Appendix A <ul style="list-style-type: none"> - Information repository - For future multi-benefit projects - Common community concerns (way in/out, limited road networks, narrow roads, evacuating into other communities, turnouts) • Community Risk Perception • Productive Action

31	PROJECT DESIGN BEST PRACTICES 1/5/2024 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project • Grants <i>What is involved in a Project?</i> <i>What is Match?</i>	<ul style="list-style-type: none"> • Scale of Project <ul style="list-style-type: none"> - Individual - Community - Landscape • Who • How/What • When • Where • Why • Other Aspects • Metrics of Success • Project Tracking • Photo Points • Match
32	WILDFIRE HAZARD ASSESSMENT WHA 2/2/2024 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project • Wildfire • Planning <i>Wildfire Hazard Assessment (WHA)</i>	<ul style="list-style-type: none"> • Wildfire Risk Assessment (WRA) Flow Chart • CWPP Risk Assessment <ul style="list-style-type: none"> - Establish wildfire risk - Determine assets at risk - Determine wildfire risk - Both descriptive and modeling • Nevada County Risk Assessment <ul style="list-style-type: none"> - Establish risk - Comparative modeling - Determine assets at risk - Determine wildfire risk • Wildfire Hazard Assessment (WHA) <ul style="list-style-type: none"> - CWPP & LHMP - Overview - Landscape burn probability - Comparative analysis - Works and risk assessment - Four Forecast Zones • WHA Flow Chart • Wildfire Hazard Assessment (WHA) • WHA vs Fire Hazard Severity Zone
33	WILDFIRE RISK ASSESSMENT (WRA) 2/16/2024 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Project • Wildfire • Planning <i>Wildfire Risk Assessment (WRA)</i>	<ul style="list-style-type: none"> • Wildfire Hazard Triangle • Wildfire Risk Triangle • Forecast Zone Analysis + WHA + High Value Risk Assessment -> ->Wildfire Risk Assessment (WRA) -> Project Priority Areas • Risk Modeling <ul style="list-style-type: none"> - Exposure Analysis - Risk Model

34	NEVADA CO WILDFIRE RISK ASSESSMENT Part 2 3/1/2024 Alessandra Zambrano: County Wildfire Coordinator	<ul style="list-style-type: none"> • Planning <i>Wildfire Risk Assessment (WRA)</i>	<ul style="list-style-type: none"> • Project Priority Areas <ul style="list-style-type: none"> - Highest Risk Areas - Combine Results - Intersect Results - Filter Results - Most overlap of High Value Risk Assessment (HVRA) • Action Plan <ul style="list-style-type: none"> - Landscape and Community Scale
35	LOCAL HAZARD MITIGATION PLAN (LHMP) 3/15/2024 Paul Cummings - OES Program Manager, Alessandra Zambrano: County Wildfire Coordinator	<ul style="list-style-type: none"> • Planning <i>Local Hazard Mitigation Plan (LHMP)</i>	<ul style="list-style-type: none"> • Disaster Cycle <ul style="list-style-type: none"> - Preparedness - Response - Recovery - Mitigation • Benefits of Mitigation Plan • Socially Vulnerable Populations
36	ENVIRONMENTAL JUSTICE and WILDFIRE 3/29/2024 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Planning • Community <i>Wildfire and our Community</i>	<ul style="list-style-type: none"> • Designing projects that are equitable <ul style="list-style-type: none"> - 50% NC residents > 50 years - 23% > 65 • FEMA Hazard Mitigation Grant Program (HGMP) • Biomass Problem
37	BURN PILES 4/12/2024 Alex Keeble-Toll: Senior Administrative Analyst, Sean Ryan: CalFire	<ul style="list-style-type: none"> • Burning • Law <i>Fire and the Law</i> <i>What can I do?</i>	<ul style="list-style-type: none"> • Fuel Mitigation vs Fuel Reduction • When to burn • Pile Size: 4'x4' <ul style="list-style-type: none"> - limits heat output - limits ember production - easier to extinguish - maintain control • Permits <ul style="list-style-type: none"> - LE-62a (Residential) - LE-5 (oversize piles) - LE-7 (broadcast burn) • Air Quality Permit - CalFire website
38	WILDFIRE MITIGATION PROJECTS 5/10/2024 Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Planning • History <i>Wildfire Mitigation Projects</i>	<ul style="list-style-type: none"> • Outreach and Education Wheel • Project Selection • Project Design • Existing Projects

39	PROJECT MAINTENANCE 6/12/2024 Alessandra Zambrano: County Wildfire Coordinator	<ul style="list-style-type: none"> • Project • Ecology <i>Project maintenance</i> <i>Wildfire Ecology</i>	<ul style="list-style-type: none"> • Ecological Succession <ul style="list-style-type: none"> - Primary - Secondary • Disturbance Cycles • Cycle Disruption
40	NEVADA COUNTY EVACUATION STUDY IMPLEMENTATION 7/12/2024 Alessandra Zambrano: County Wildfire Coordinator, Alex Keeble- Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Planning 	<ul style="list-style-type: none"> • Winter Storm Hazardous Vegetation Cleanup - 2022, 2023 • Green Waste Bin Project • Roadside Fuel Breaks • Leverage of Evacuation Study • Project Challenges
41	CALIFORNIA WILDFIRE FUTURE 8/2/2024 Alessandra Zambrano: County Wildfire Coordinator	<ul style="list-style-type: none"> • Planning • History • Ecology <i>CA Wildfire History</i> <i>CA Wildfire Future</i>	<ul style="list-style-type: none"> • Historical Look at CA Fires • Fire Feedback Loop; • Effect of Developments on Wildfire • Ignition Changes • Suppression Changes • Invasive Species • Anthropogenetic Fuel Changes • Climate Change • The Future of Fire
42	LAND MANAGEMENT PLAN 9/20/2024 Alessandra Zambrano: County Wildfire Coordinator	<ul style="list-style-type: none"> • Mitigation • Planning <i>Land Management Plan</i>	<ul style="list-style-type: none"> • Road Map to Resilience • LHMP -> CWPP -> Land Management Plan->Evacuation Study • Treatment Types <ul style="list-style-type: none"> - Fuel reduction - Fuel breaks - Ecological restoration - Roadside - Pests - Invasive species • Treatment Types - pros & cons <ul style="list-style-type: none"> - Hand - Mechanical - Chemical - Herbivory - Prescribed burn
43	NEVADA COUNTY WILDFIRE MITIGATION 10/25/2024 Alex Keeble-Toll: Senior Administrative Analyst	<ul style="list-style-type: none"> • Planning • History <i>Nevada Co Wildfire Mitigation</i>	<ul style="list-style-type: none"> • Project Updates • Planning • Education