

RISE Planning Committee



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Affairs Director, Napa Valley
Vintners



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Board Member, Napa Valley
Grapegrowers



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Assistant Winemaker & Environmental
Manager at Spottswoode Estate
Vineyard & Winery



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Consulting Winemaker



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Partner, WineWise; Founder, Reyes Wine
Group and Co-Founder, Wine Unify



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Director of Viticulture &
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Climate & Soil Specialist



MARISA TAYLOR
Program Coordinator



MEGHAN VERGARA
Social Media Manager



BILL BENNETT
Winery Program Engineer



If not here,
WHERE?

If not now,
WHEN?

MARQUEE ADDRESS:

**PAUL MULLER, CO-OWNER
FULL BELLY FARM**



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YOUR LAND AS ONE ORGANISM

PERSPECTIVES FROM AN OVER THE HILL ORGANIC FARMER

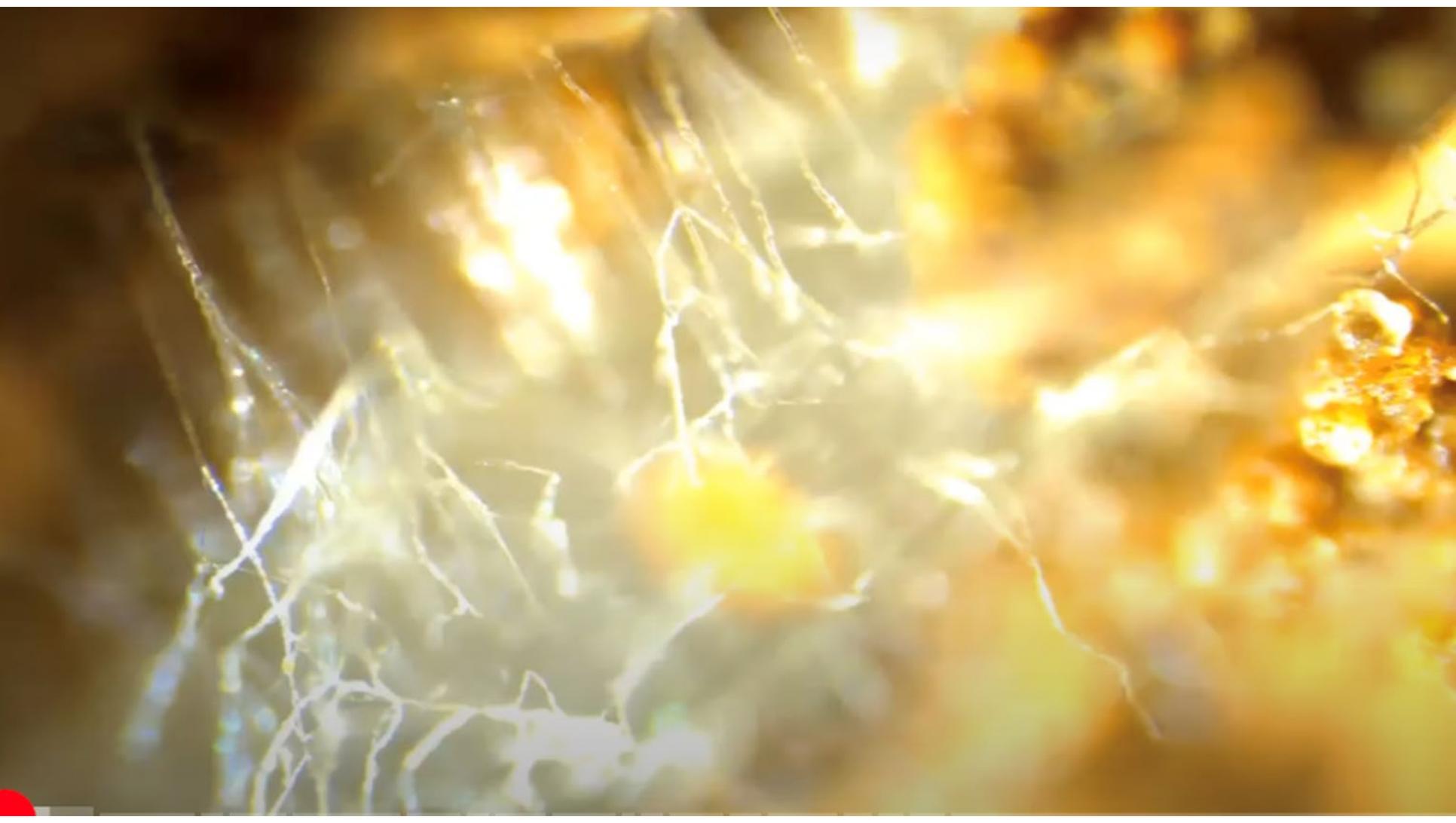
RISE WINE AND CLIMATE SYMPOSIUM

APRIL 6, 2023



































Inoculate the
people touched
by the land with
the vitality of
the place



Understanding Basic Principles





LIVING ROOM SALON

THE INEXTRICABLE LINKS BETWEEN FOREST HEALTH, WATER, FIRE & CLIMATE CHANGE

Expert Speakers:

- **Sarah Keiser**, Chief Executive Officer, Wild Oat Hollow
- **Dr. Tosha Comendant**, Conservation Science Director, Pepperwood Preserve
- **Chris Ott**, CEO, Eaton Drilling and former Environmental Director, Dry Creek Rancheria Band of Pomo Indians
- **Patrick Spencer**, Executive Director, Cork Forest Conservation Alliance

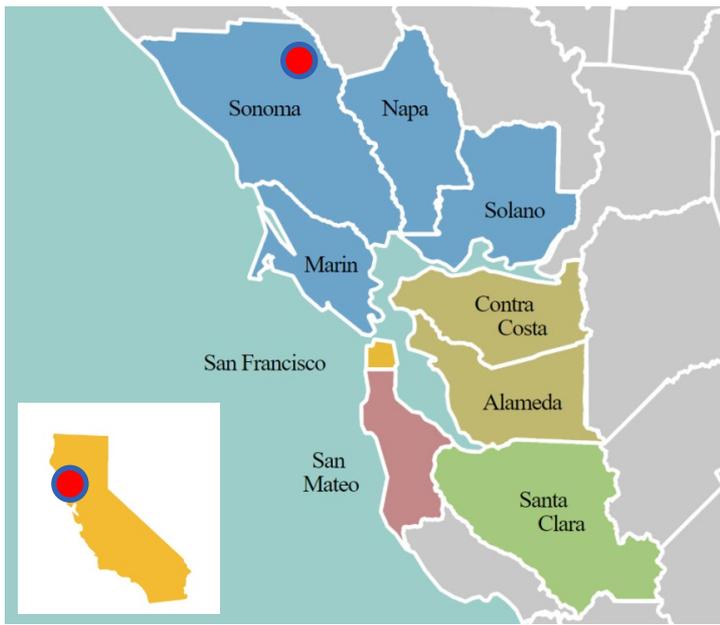




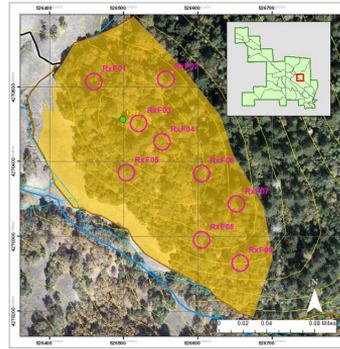
Restoring and monitoring post-fire forests to enhance watershed health

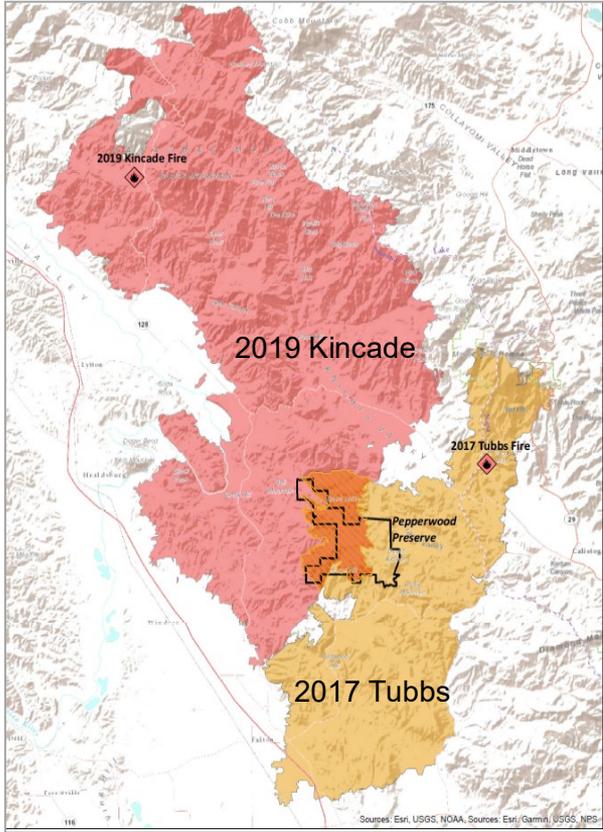
Tosha Comendant, Ph.D
Pepperwood
April 6, 2023

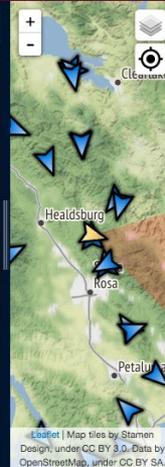




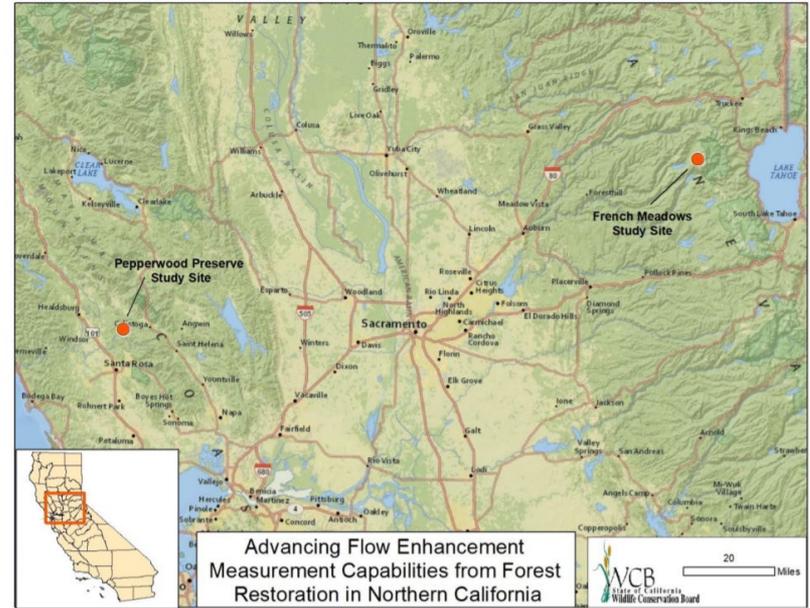
Dwight Center for Conservation Science







How does forest restoration benefit Northern California streams?



WHY? Improve predictions and provide technical assistance to water utilities on streamflow enhancement potential from forest restoration

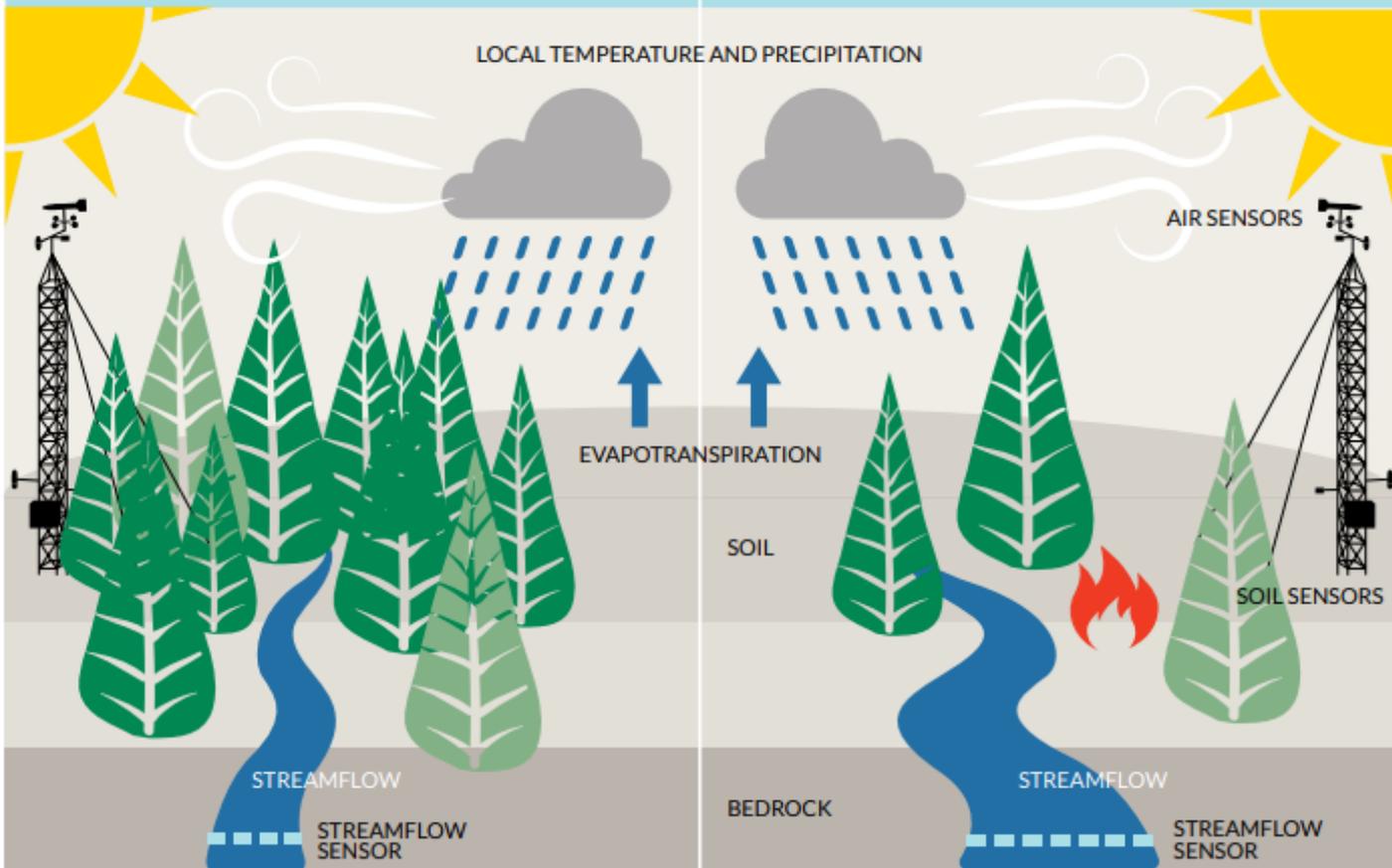
WHAT?

Monitor impacts of restoration on vegetation evapotranspiration, streamflow, soil moisture, and water supply

HOW?

Expand existing instrumentation network to fill data gaps in new forest types

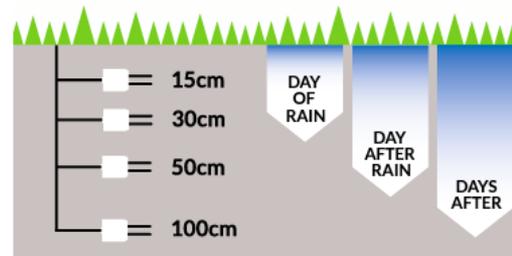


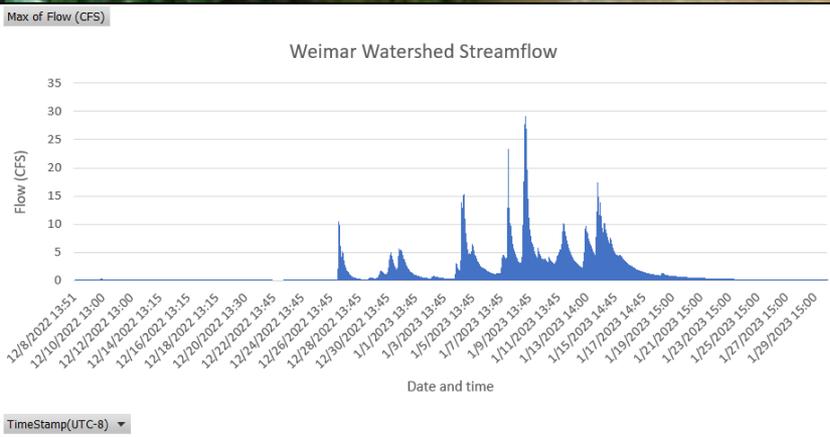


TOWER 1
CONTROL PLOT
(NO STEWARDSHIP)

TOWER 2
EXPERIMENTAL PLOT
(STEWARDED FOREST)

Paired watershed experiment to measure key aspects of the water balance







Key Points

- Support forest stewardship and restoration
- Amplify Indigenous practices
- Better technology, forecasting, alert systems, data, and tools are game changers
- Increase the pace and scale of actions that help us all predict, prepare and adapt to climate change

Fire & Water: A Journey in Land Stewardship to Flood-Managed Aquifer Recharge

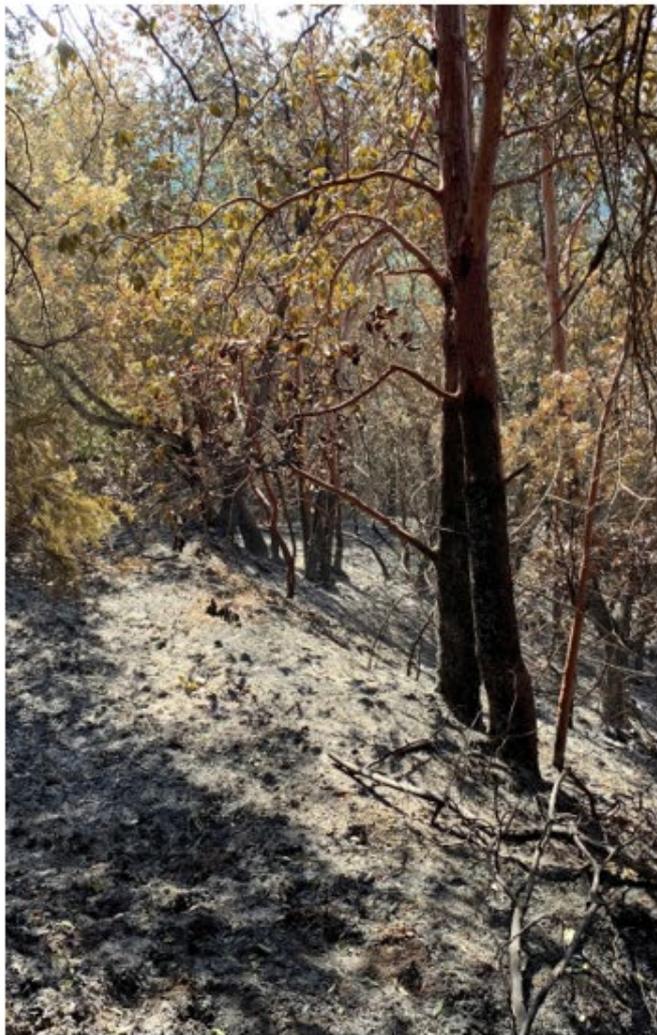
Christopher R. Ott, P.E

CEO, Eaton Drilling Co, LLC



Dry Creek Rancheria
Band of Pomo Indians





Kincadee Fire 2019

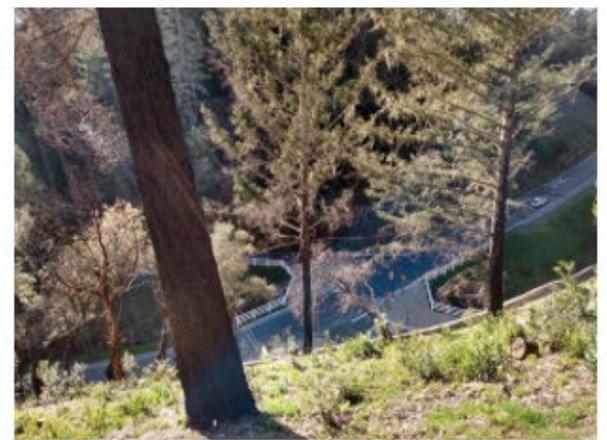
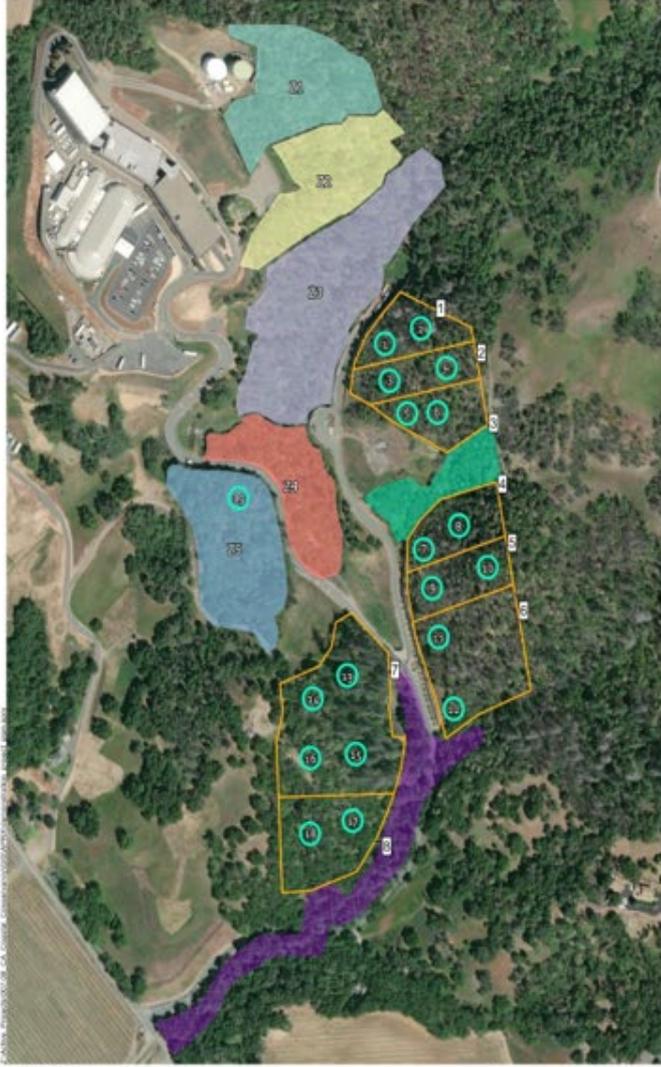
Dry Creek Rancheria
52 Acres Severely Burned



Forest Resiliency

Reforestation and fuel treatments in the burned areas to reduce the probability and intensity of future fires.





- Traditional Ecological Knowledge (TEK) is commonly defined as the evolving knowledge acquired by indigenous and local peoples over hundreds or thousands of years through direct contact with the environment (Rinkevich et al 2011).
- Cultural Burning was used to: put nutrients back into the soil, kill off certain plant species, clearing (for passage and site lines to see game for hunting), timing was important for the diversity of plants, which in turn increase the diversity of animals and enable succession of plant species.
- **All modern methods used in this project were consistent with TEK.**



- When fuel is chipped and left on site, the fire risk is reduced but the fuel is not removed from the forest.
- Decomposition of wood chips removes fuel by returning biomass to the soil.



Native vegetation thrives!

Invasive species are slowed!

Moisture content is doubled!



- Decomposition of wood chips was accelerated using fungus.
- Biomass returning to the soils helped regenerate scorched and sterilized soils, therefore reestablishing the nitrogen cycle.



Restoration

Stream flow enhancement in cooperation with Federal, State and local governments.

The Rancheria Creek restoration has dramatically restored habitat necessary for the return of fish to this ancient spawning ground.





Alexander Valley Flood-MAR

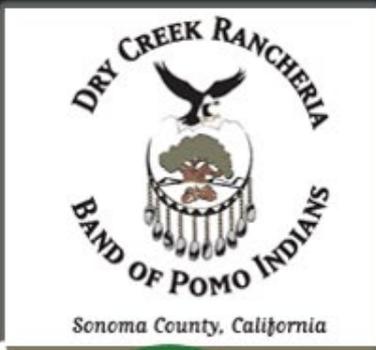
A Community

Watershed Enhancement &
Management Project

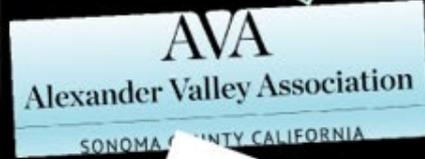
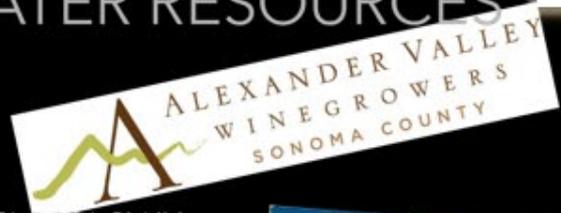


FOLEY FAMILY WINES
Real Vineyards. Real Wineries. Real Wines.

TROUT UNLIMITED



CALIFORNIA DEPARTMENT OF WATER RESOURCES



SANTA ROSA PLAIN GROUNDWATER SUSTAINABILITY AGENCY



David Rabbitt



NOAA FISHERIES



PETALUMA VALLEY GROUNDWATER SUSTAINABILITY AGENCY



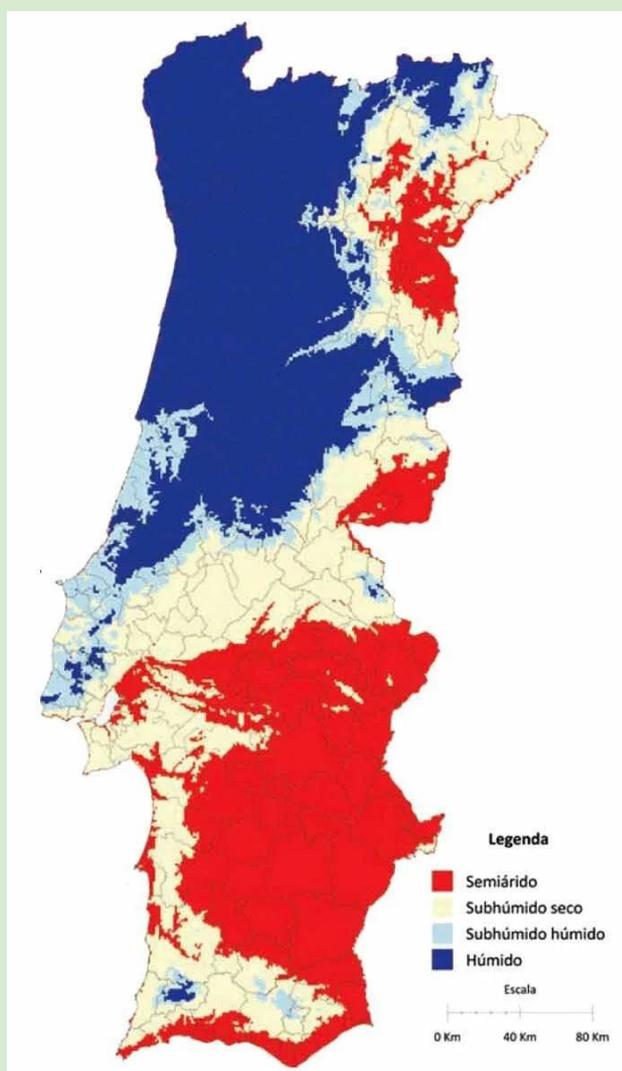
By the
Community
for all
Communities







Portugal, Hot Spots for Desertification





LATEST **LY**

World Day to Combat Desertification and Drought

