

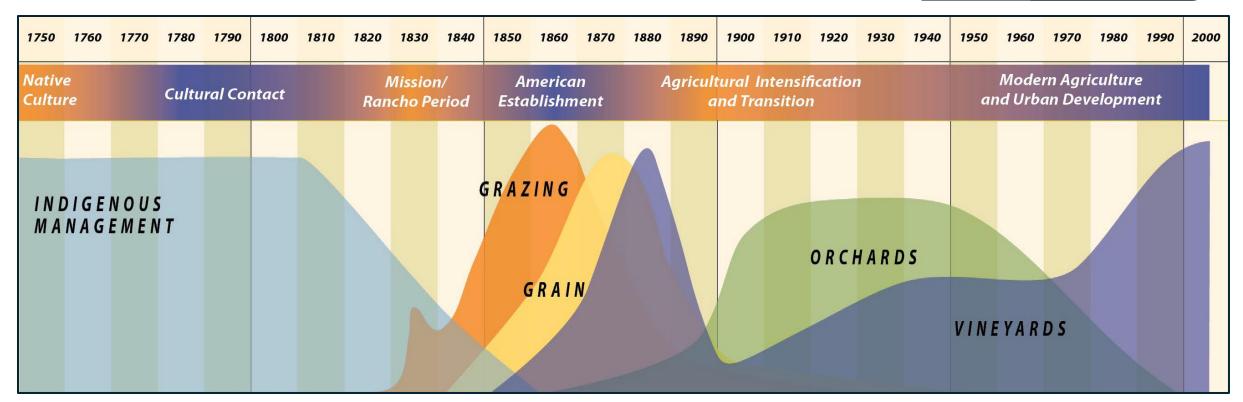




Millennia of Landuse Management

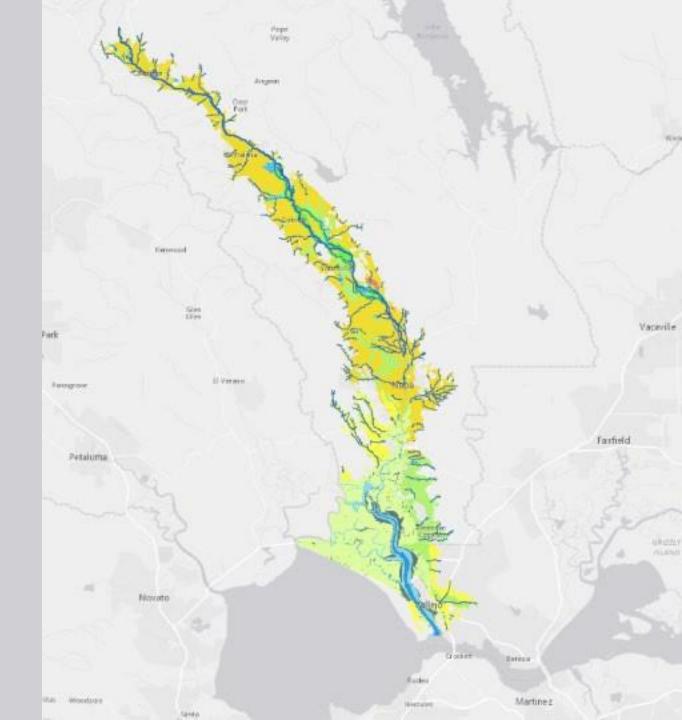
1944 - PRESENT





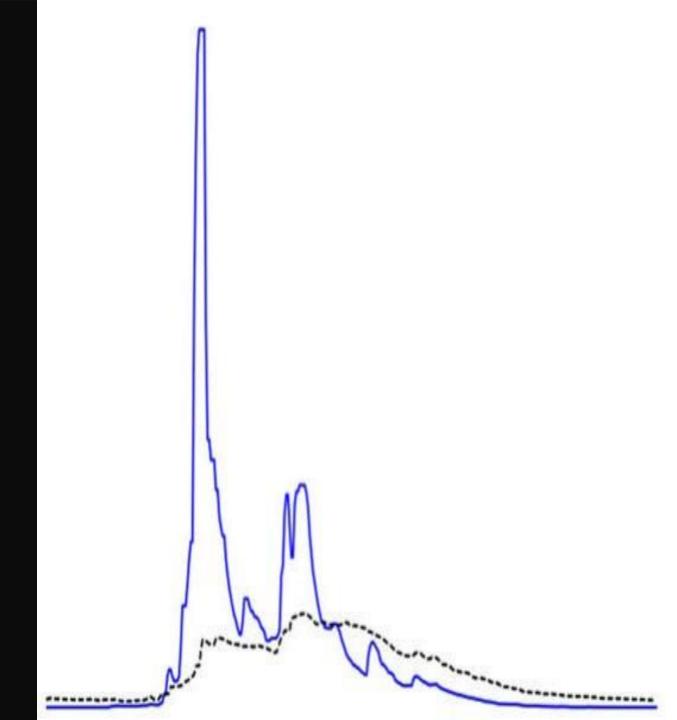


Historically Complex Stream Drainage Network





Historical vs.
Modern
Stream Flow





Restore a Living Napa River

Presenter Notes 2024-11-22 18:07:16

These challenges led to collective efforts to restore a Living Napa River. By restoring natural meanders, floodplains, and wetlands, we are improving habitat, preserving endangered species, and reducing the flooding that's been exacerbated



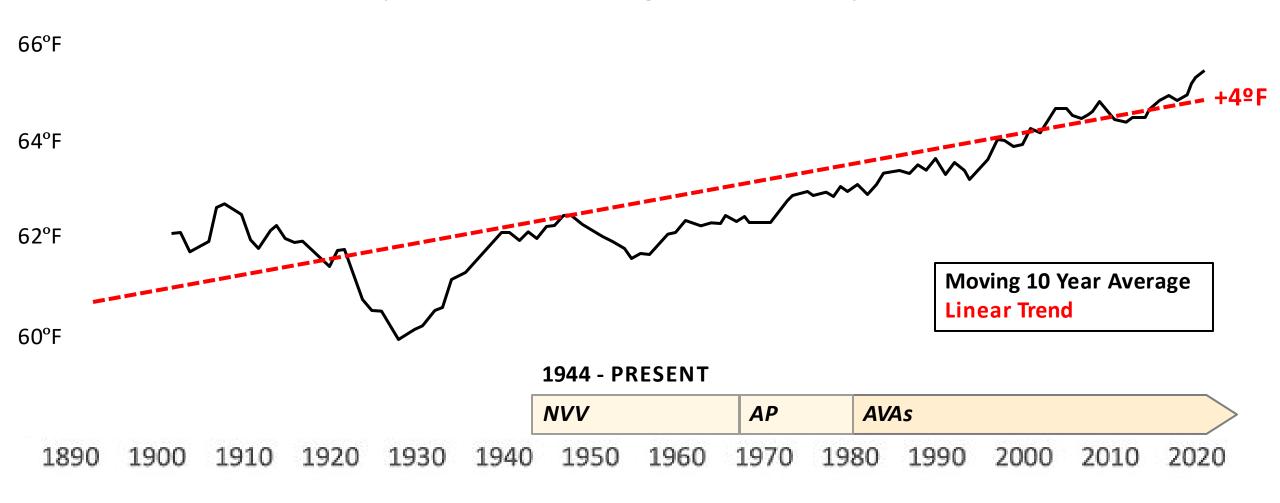




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Rising Average Temperatures

March – September Growing Season, Napa 1893-2021





Supercharging Water Cycle

MORE
Intense Rainfall
Flooding
Property Damage

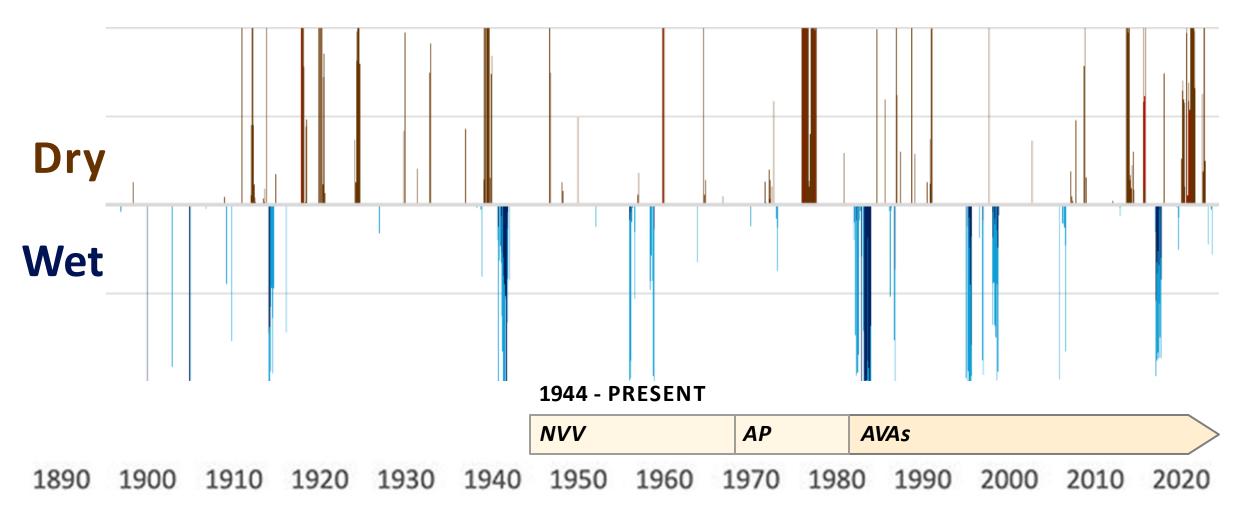
+ 4% More Atmospheric Moisture

Per +1°F Temperature Rise



Extreme Droughts & Deluges

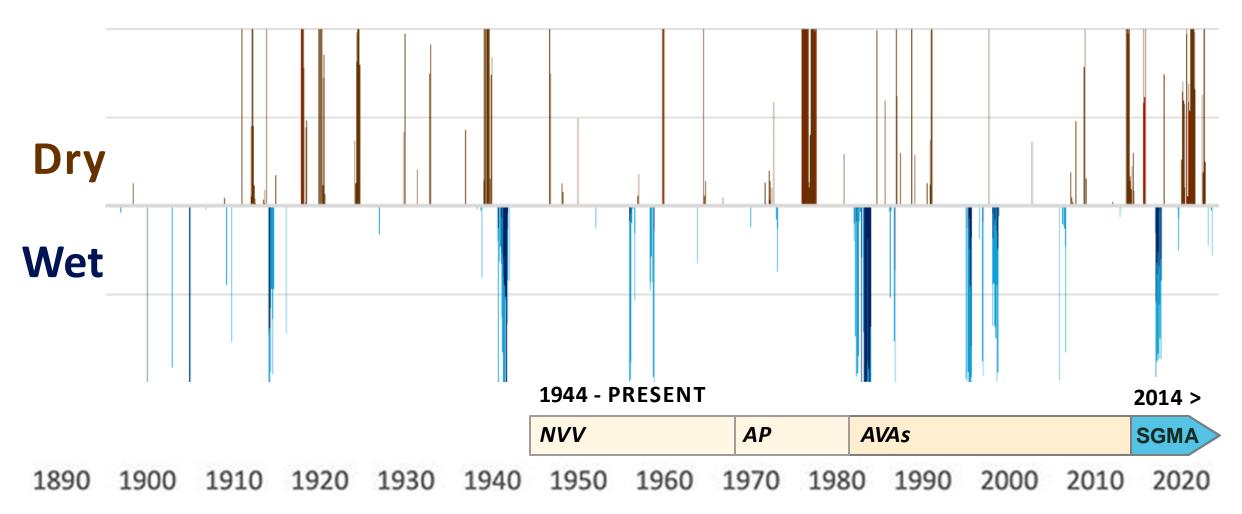
Napa County 1895-2024





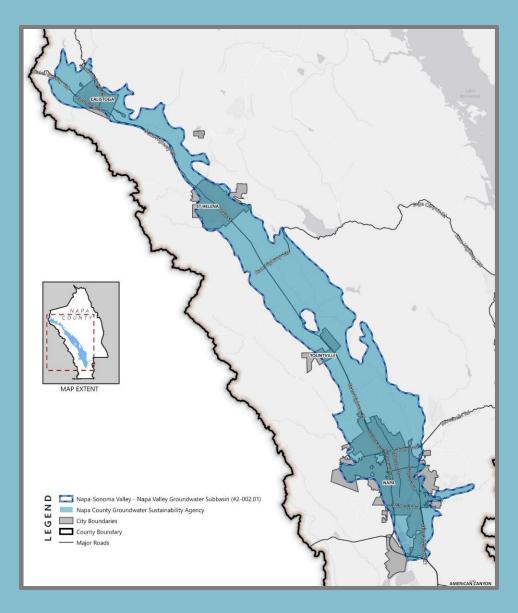
Sustainable Groundwater Mgmt Act

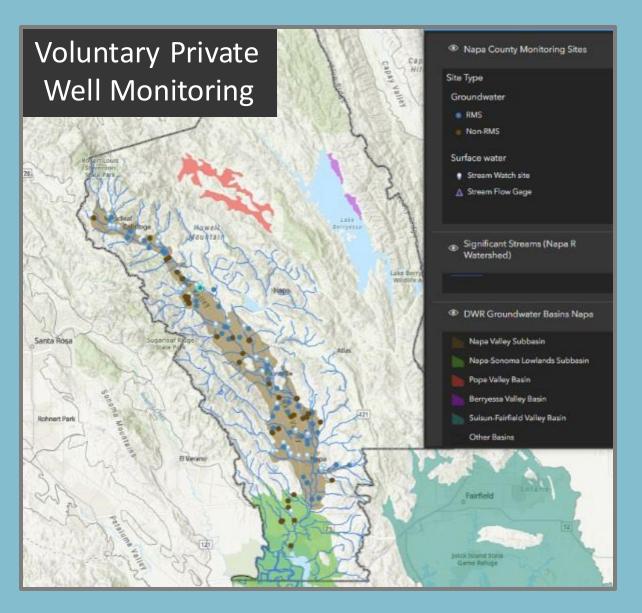
California, 2014



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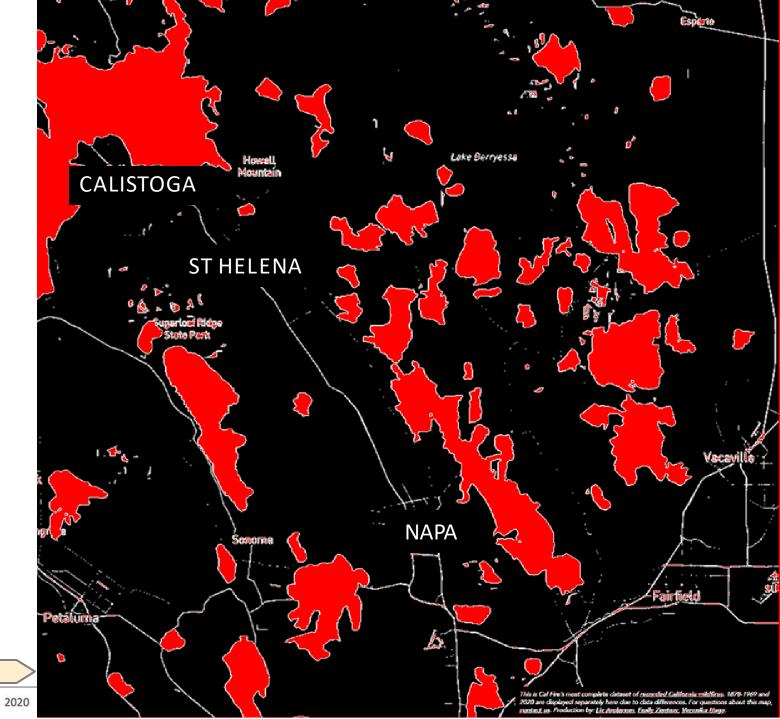
Napa County Groundwater Sustainability Agency 2019







100 YEARS 1880 - 1979 Wildfires



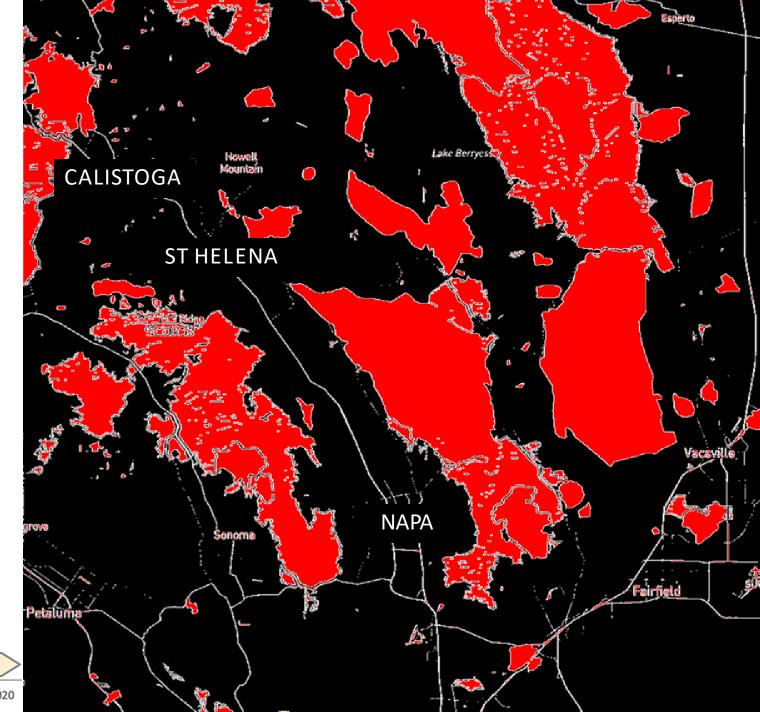
1944 - PRESENT

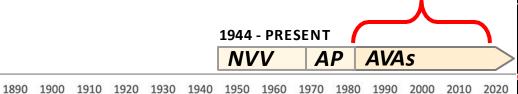
IVV AP AVAS

1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020



40 YEARS 1980 – 2019 Wildfires



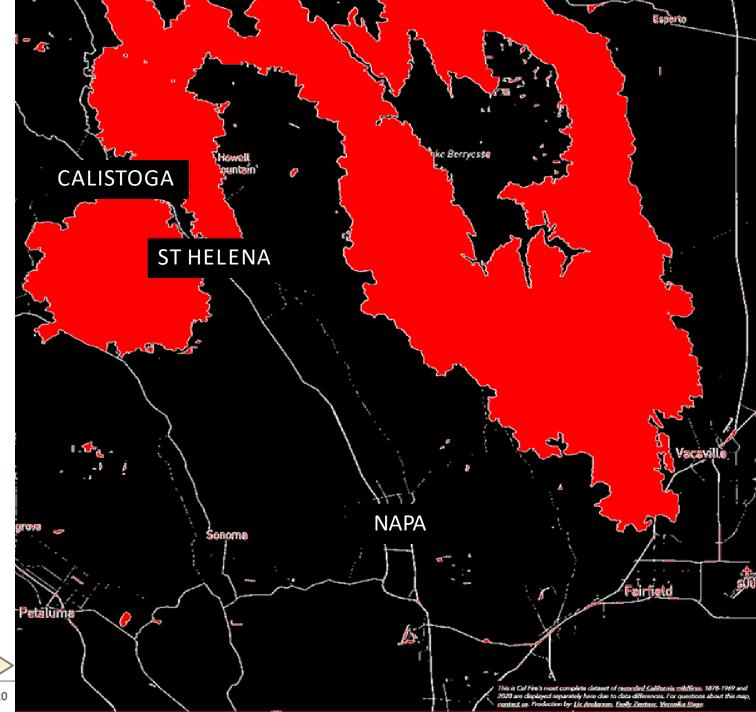




1YEAR 2020 Wildfires

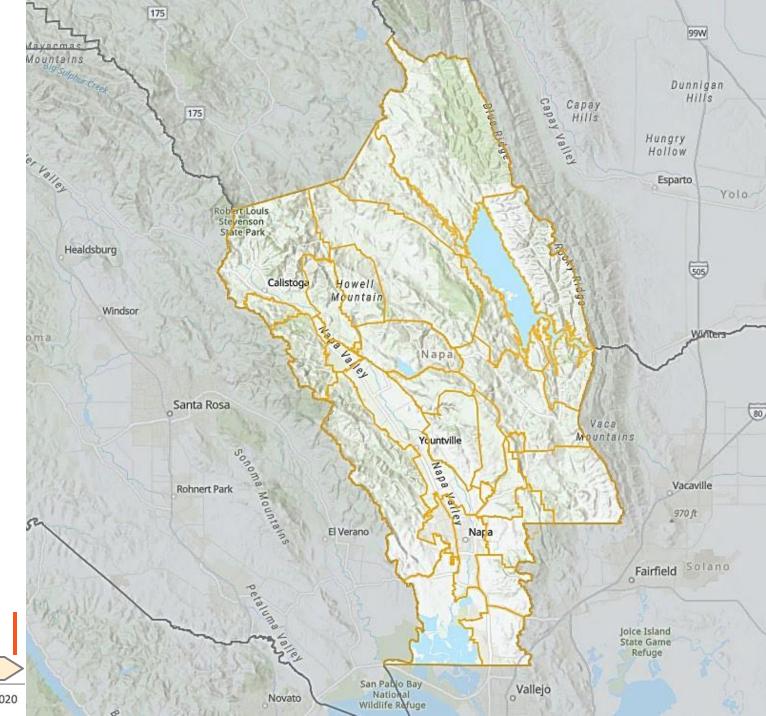
1944 - PRESENT

NVV AP AVAs





Volunteer Fire Safe Councils



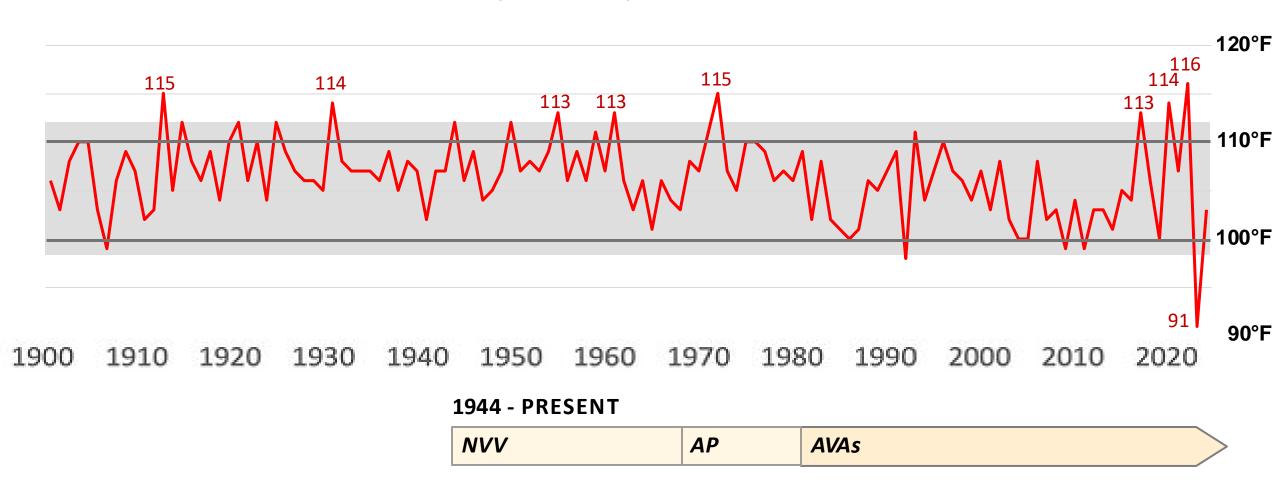
NVV AP AVAs

1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 20



Rising Peak Temperatures

Napa Valley, 1893-2021





RISING CROP LOSSES DUE TO EXTREME HEAT

Dominus Vineyard, Yountville

Record-breaking temperature spikes

August – September

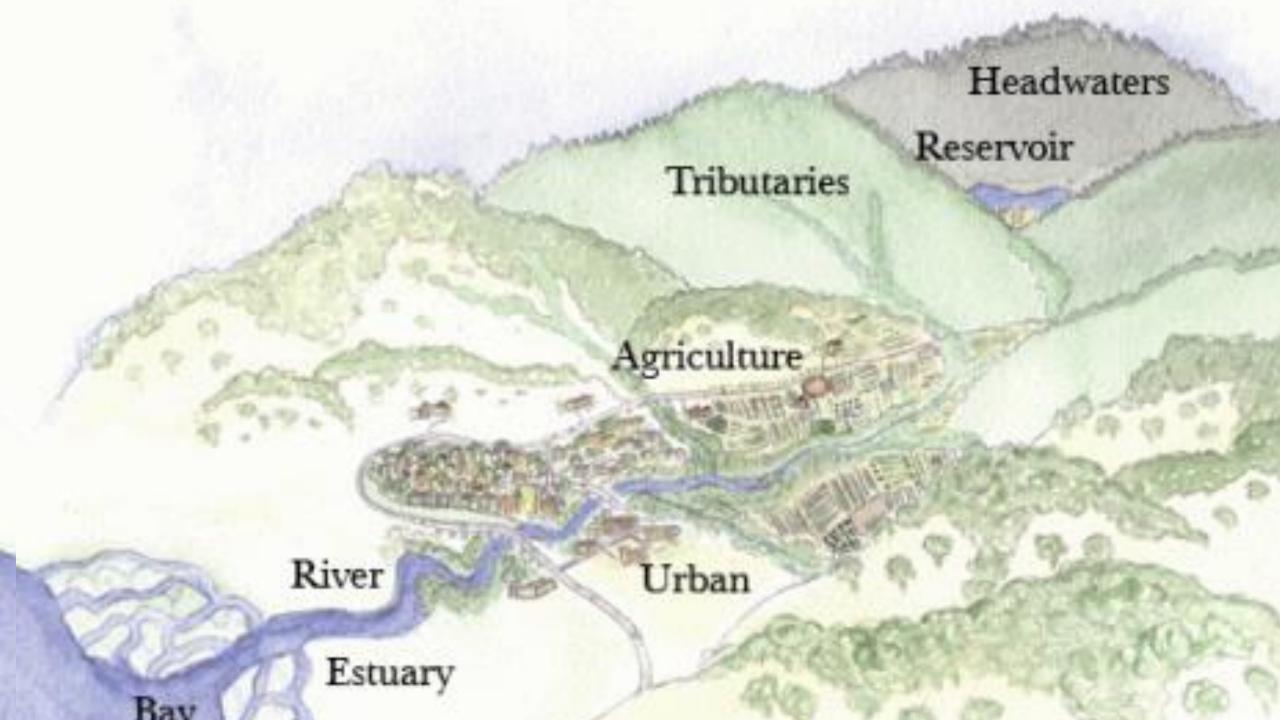
YEAR	TEMP	FRUIT LOSS
2017	112°F	50%
2020	114°F	70%
2022	116°F	100%



Abuelitos Foundation



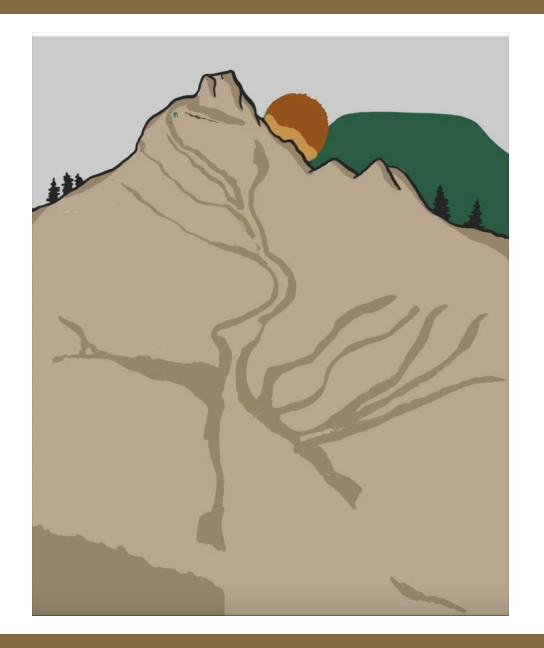




AbuelitosFoundation

Simple Practices, Profound Impacts

- Rock Detention Structures
- Permanent Groundcover
- Climate-Adapted Crops
- Dry Farming





TILLED

PERMANENT GROUNDCOVER

November 21, 2024

Dry
Farmed
vs
Irrigated

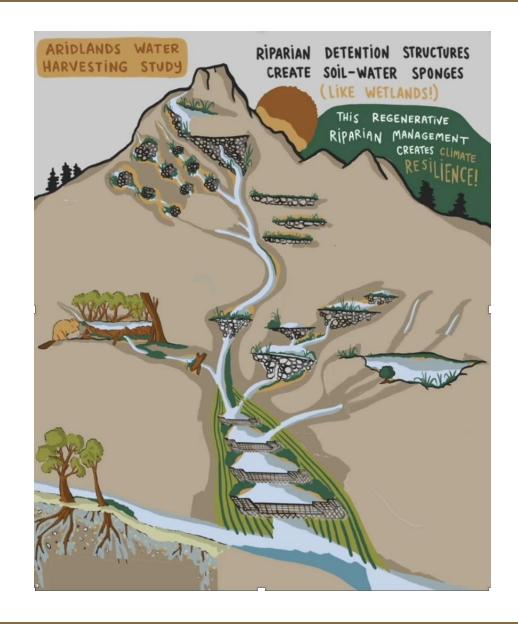




AbuelitosFoundation

Resident-Led, Watershed Groups

- Revitalize Ecosystems
- Stabilize Regional Climate
- Build Thriving Communities









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