

#### SANTA CRUZ COUNTY ENVIRONMENTAL HEALTH



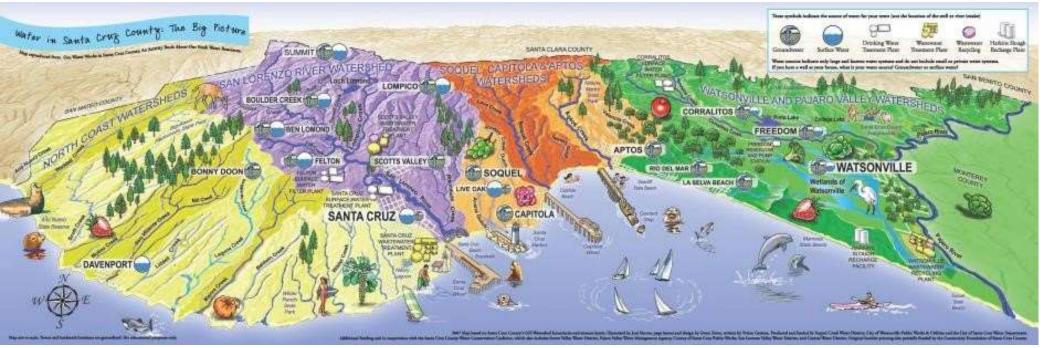


# Water Resources 101

Sierra Ryan, County of Santa Cruz Water Resources Manager

Water Supply

### Water Sources in Santa Cruz

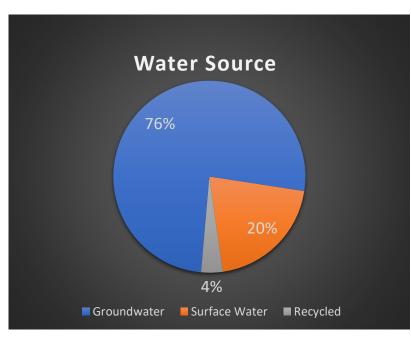


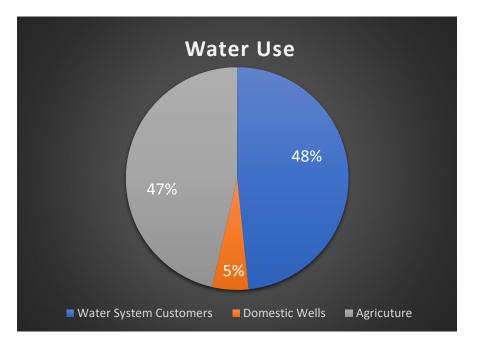
• Santa Cruz is not on any of the state water projects, we must solve our problems locally

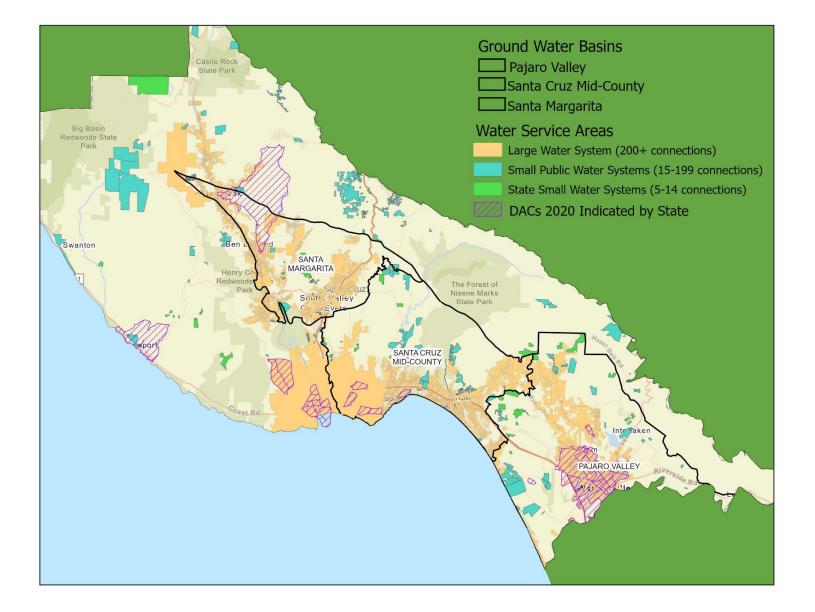
#### Current Water Supplies in Santa Cruz County

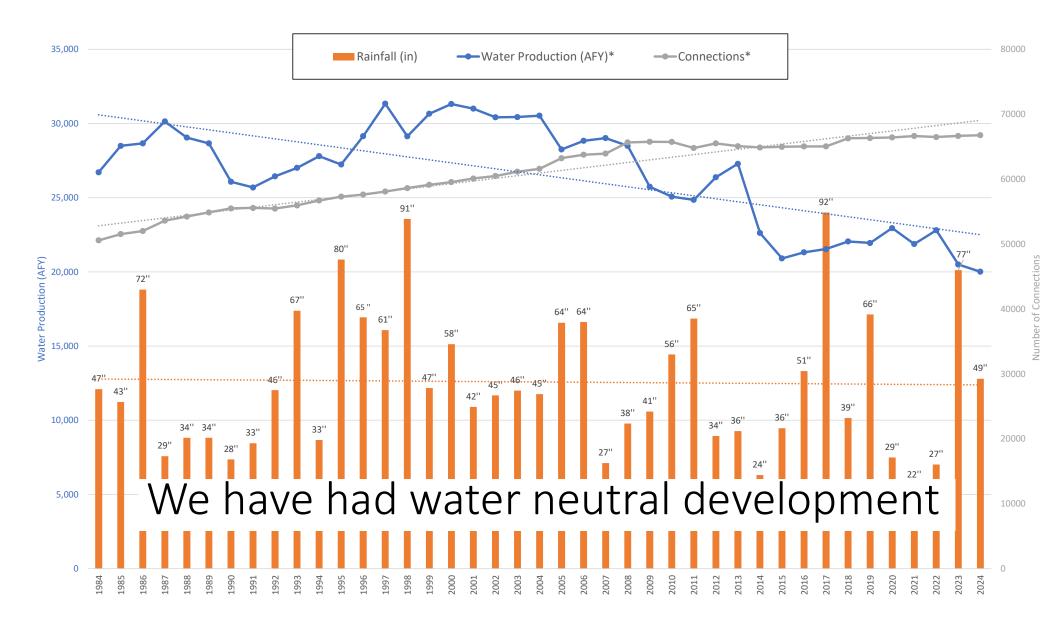
- Local surface water and groundwater basins
- Limited recycled water (currently irrigation only)





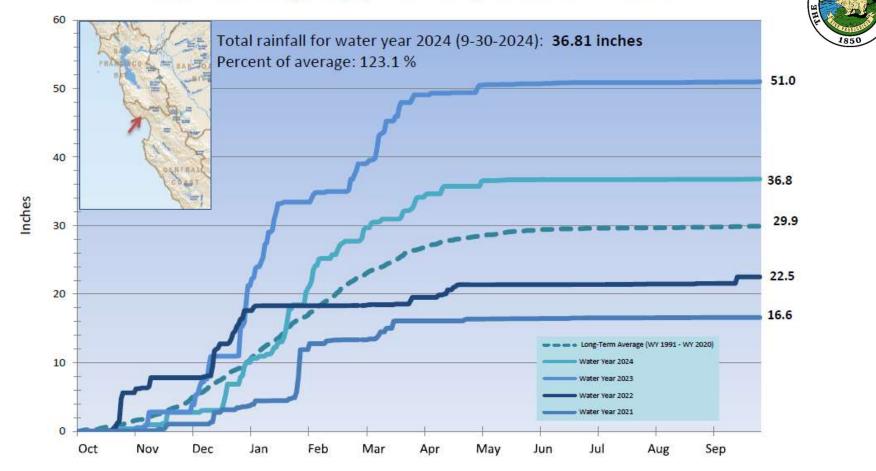






#### Surface Water Variability

#### Cumulative Precipitation, Santa Cruz, CA Water Year 2024



https://www.cityofsantacruz.com/government/city-departments/water/weekly-water-conditions

## Regional Supply Deficiencies



Overdraft and seawater intrusion in Pajaro Valley



Overdraft and seawater intrusion in Santa Cruz Mid-County



Overdraft in Scotts Valley likely impacting habitat



Drought deficiency and more water reserved for fish for Santa Cruz



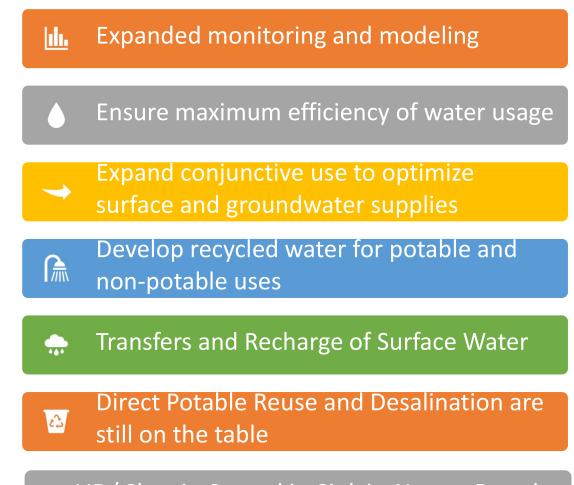
Individual wells: salt water and nitrate in Pajaro and Seascape, declining water tables in Bonny Doon, Summit

## **Anticipated Climate Impacts**



- Droughts become more frequent and more severe
- Rain comes in big events leading to more runoff
- Increased evapotranspiration increase agricultural, riparian habitat, and landscape water demands.
- Extended growing season and increase water demand
- Reduction in fog leads to warmer days

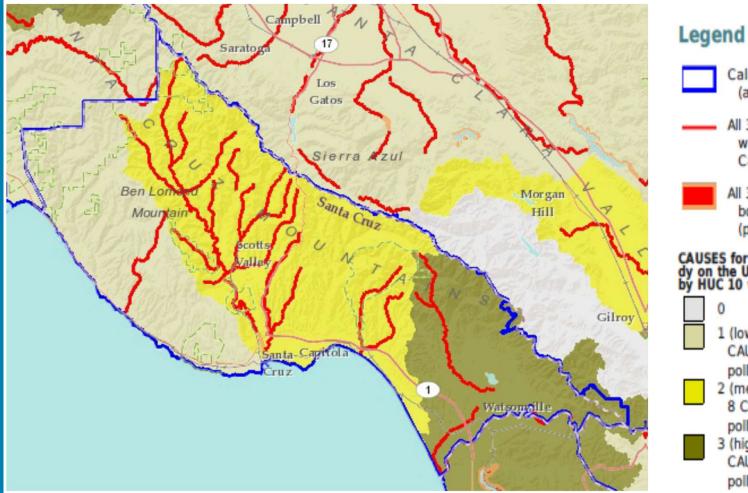
## Strategies Being Pursued



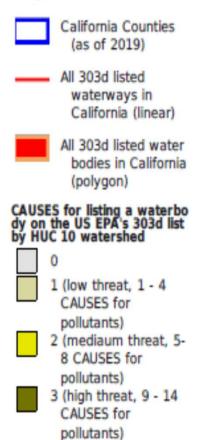
LID/ Slow it, Spread it, Sink it; Nature Based Solutions;

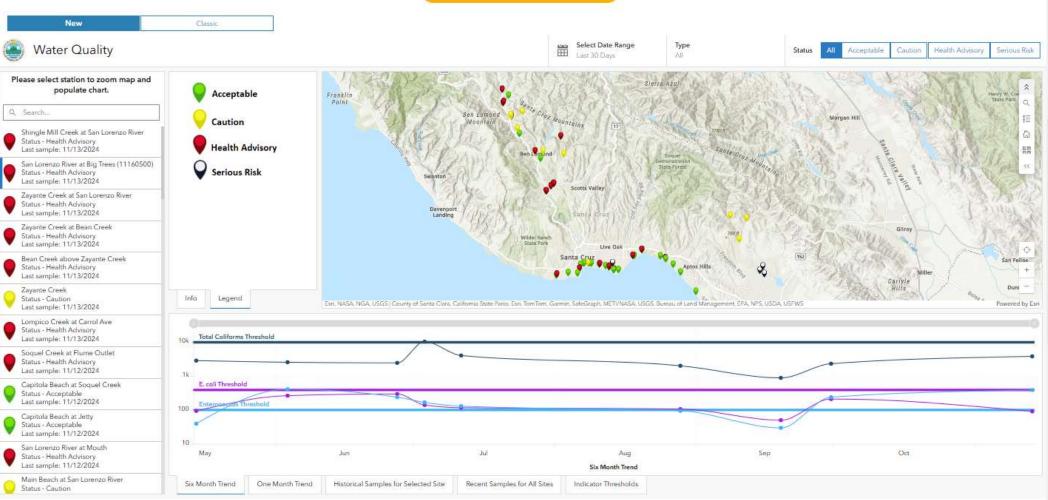
# Is Our Water Clean?

#### **Impaired Surface Water**

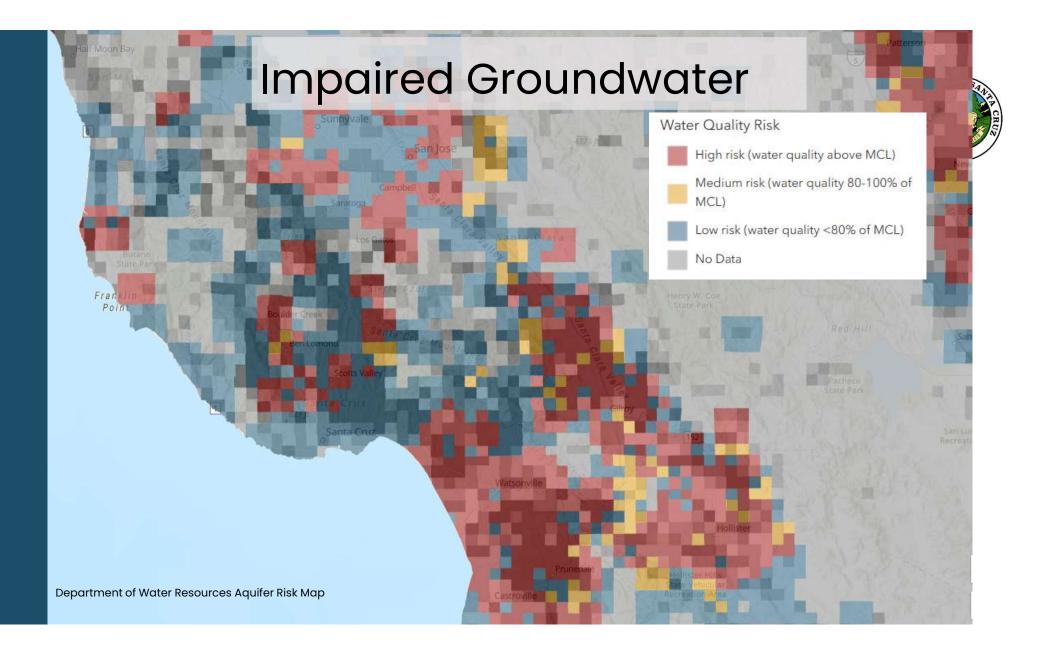








https://scceh.com/NewHome/Programs/WaterResources/SurfaceWaterStewardship/ WaterQualityMonitoring/SurfaceWaterQuality.aspx



## Harmful Algae Blooms

Cyanobacterial blooms at Corcoran Lagoon, summer 2024



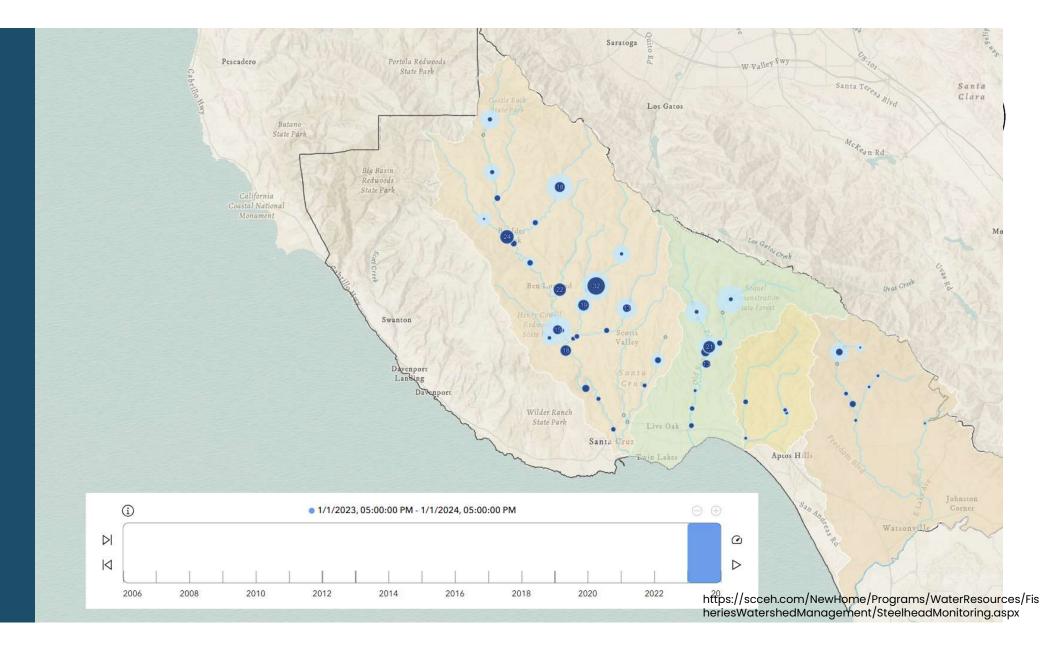


Cyanobacterial blooms at Pinto Lake (right), summer 2024



# Who Lives in Our Water





Common: 76 - 100% of all sampled years

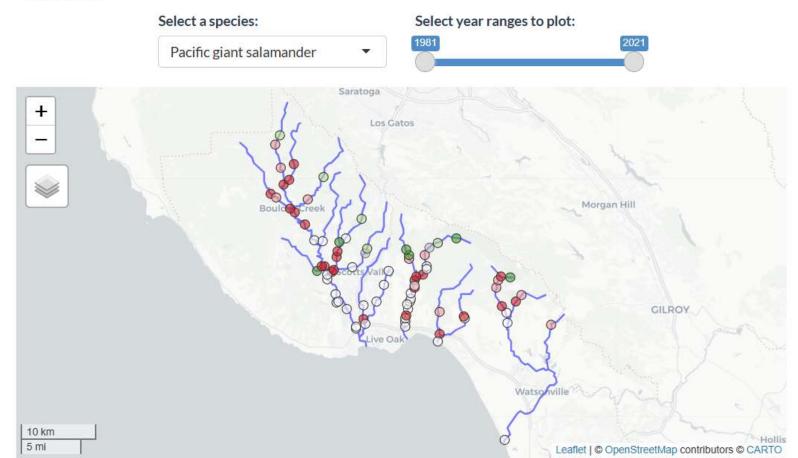
Frequently present: 51 - 75% of all sampled years

Occasionally present: 26 - 50% of all sampled years

Rare: >0 - 25% of all sampled years

No fill: Absent







#### Thank You Sierra.Ryan@santacruzcountyca.gov



SANTA CRUZ COUNTY ENVIRONMENTAL HEALTH

