

Partnership in Hydrographic Data Mapping



SAN MATEO
RESOURCE
CONSERVATION
DISTRICT

Presentation to
3D Hydrography for California
Community Forum

February 12, 2026
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Purpose of Project

The Santa Cruz Mountain Stewardship Network is updating the hydrographic data layer for Santa Cruz, Santa Clara, and San Mateo Counties to improve land stewardship decision-making.

Hydrography data maps detail all the water in a region, including streams, culverts, and more. This project will update extremely outdated hydrographic data and provide a necessary level of precision.





Value of Project

- Climate resilience modeling; mapping flood risk.
- Managing culverts, upper watersheds, stream flow & stormwater.
- Managing fisheries, rangeland, timberlands, & ag lands.
- Planning for future land & infrastructure development.
- Defining stewardship & property boundaries.
- Conserving terrestrial & aquatic habitats.
- Monitoring, managing, & reporting water quality.



SMRCD HU8, HU10, HU12



Project is mapping a mix of HUC8, HUC10, and HUC12 watersheds.



Project Team



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Santa Cruz Mountains Stewardship Network

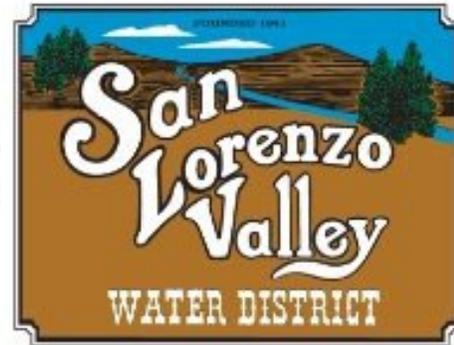
- Twenty-five organizations collaborating and coordinating on land stewardship on a regional scale.
- Mission: help cultivate a resilient, vibrant region where human and natural systems thrive for generations to come.



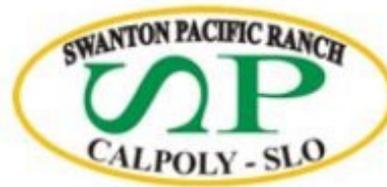
Santa Cruz Mountains Stewardship Network



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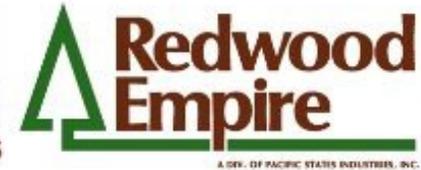


Santa Cruz Mountains Stewardship Network



Stanford
SCHOOL OF
HUMANITIES
AND SCIENCES

Jasper Ridge Biological Preserve
'Ootchamin 'Ooyakma





Contribution to Broader Efforts

Regional: Pacific Veg Map

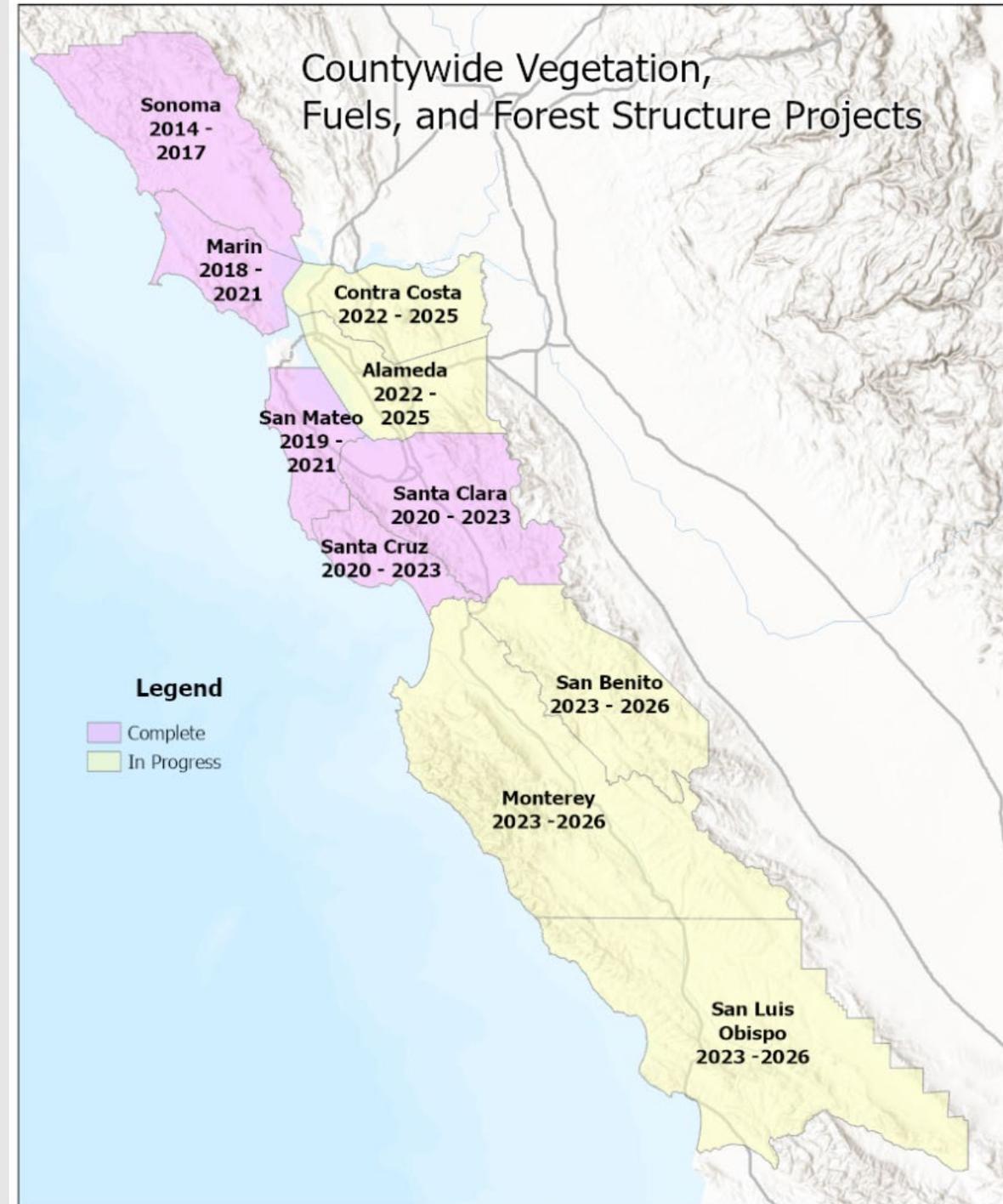
State: Department of Water Resources effort to map all of California

National: USGS goal to map whole U.S.; overlaps with priority mapping areas for NPS, USFWS, and BLM.



Pacific Veg Map

- Fine-scale data: vegetation, topography, wildlands fuel, built environment, and more
- 227 datasets
- 10 counties
- Many more partners and funders
- pacificvegmap.org



Why Partner?

- None of these organizations or agencies could accomplish this work on our own.
- Working together we can advance hydrographic mapping efforts to support better resource stewardship.



Thank you!

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