



Outline

GSP Implementation Progress and Roadmap

GPR Programs and Progress

NVIHM Scenarios

CEFF Goals and Monitoring

Water Conservation: Expanded Outreach

Discussion

Napa Valley Subbasin GSP Roadmap

7 7

Workplan Implementation

Monitoring, including add 2 MWs, 5

Unit on Napa River Watershed Model

Model Update and Coordinate with SB SDA

WY 2024 Annual Report

stream gages (CalSIP)

2025

2028-2041

Ongoing Annual Reports

Monitoring and Modeling

PMA Implementation

Outreach

Adaptive Management

2042

Achieve Subbasin Sustainability

2024

Complete 5 Workplans and Begin Implementation WY 2023 Annual Report Monitoring Model Update

2023

Develop 5 Workplans w/Stakeholder Input WY 2022 Annual Report Monitoring; installed 16 MWs Model Update

2026

Prepare Five-Year Periodic Evaluation

WY 2025 Annual Report
Monitoring, including O&M
CalSIP gages

Workplans & Initiatives Implementation

PMAs and Modeling Scenarios, including Climate

Coordinate with SB SDA on Watershed Model

2027

Five-Year Periodic Evaluation
Due 1/2027
WY 2026 Annual Report
Workplans & Initiatives
Implementation
Monitoring, CalSIP Gages
Modeling Scenarios

2022

GSP Submitted to DWR 1/2022; DWR approved 1/2023 WY 2022 Annual Report TAG Meetings



Education

GSP Implementation 2022 – 2025 (Highlights)

20110111	Water Conservation (MA-1)	GW Pumping Reduction (MA-2)	Recharge (P-1); ISW & GDEs Recycled Water (Address Date (P-2) Gaps)		GSP Monitoring	Integrated Hydrologic Modeling (NVIHM)			
ent and Adaptive Manag	Workplan <i>Voluntary BMPs</i>	Workplan Voluntary BMPs Reduce Subbasin Pumping ~10%	Recharge BMPs – Soil Health, Incr. Infiltration AgMAR	Workplan CEFF Eco Goals Establish Flow Needs	Groundwater +16 MWs (2023) +2 MWs (2025)	Annual Updates Hydrology Water Use Land Use			
	Subbasin Coordination RCD- DU, etc. NVG, WnGr, NG, FB – Education Dry Farming	Water Certification Program Demand Mgmt. Metering & Reporting Track Subbasin Response	Recharge Ponds Riparian Easement Multi-Benefit	Monitoring Aquatic Terrestrial Wet/Dry Mapping	Surface Water +8 Stns (2023-2024) + 5 CalSIP (2025) StreamWatch	NVIHM Refine Channel Configuration Conceptualization Well Locations			
ty Lingageiii	All Sectors Water Conserv. BMPs WC Initiatives Incentives	Benchmark Pilot TAPP H2O Nudge	In Lieu Use SW Diversions Stormwater Capture Tile Drain Capture	Aquatic Seasonal Flows Fish Surveys Freshwater Shrimp	Other GSP GW Storage ISW & GDEs Subsidence	NVIHM Refine Parameters (e.g, ET) Soil Moisture Calibration			
	Outreach ** All Sectors Mind the Drip Collaboration/	Other Replant ** Optimize pumping Incentives	Recycled St. Helena Coord. NapaSan Wineries	Terrestrial Vegetation Birds Amphibians	Other GSP SW Quality GW Quality Seawater Intrusion	NVIHM Scenarios Recharge Demand Mgmt. ** Climate			

Workplan Implementation: Water Conservation and Groundwater Pumping Reduction



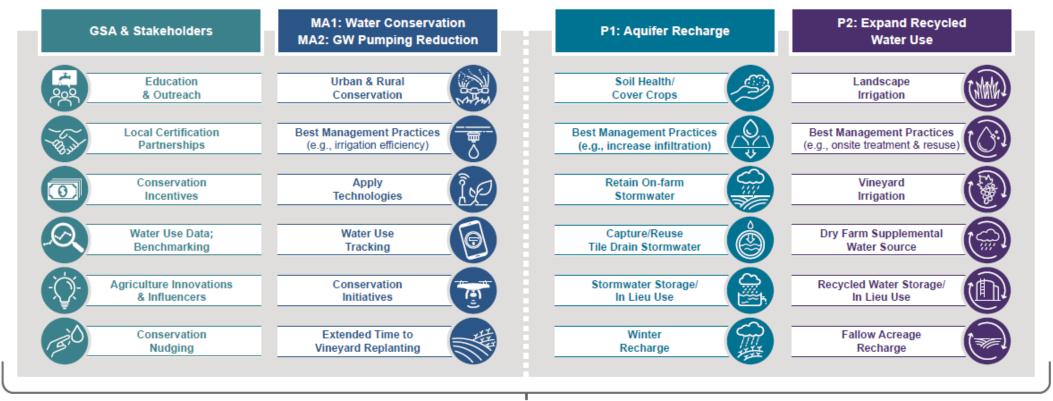




Groundwater Replenishment/ Other GSP Projects

Program Components & Voluntary Actions

(Individual Choice to Participate in Some or All)



Sustainability Goal Achieved through Collective Community Actions?

Local Control
Continue Voluntary Efforts

YES

State Control Mandatory Measures



- Complex groundwater and interconnected surface water conditions in the Napa Valley Subbasin
- Regulatory requirements govern implementation of the DWR-approved Subbasin GSP
- Uncertain climate change and drought effects must be integrated into water resource monitoring and management

Finding common ground
for future water
resources resiliency
must encompass all the
County's communities,
agricultural heritage,
and ecosystems.

Achieving Sustainability Relies on Best Available Data

Bill Dodd (Senator 2016-2024):

"In 2016, I authored the Open and Transparent Water Data Act (AB 1755) with the recognition that greater public access to high-quality water and ecosystem data would support improved water management outcomes for everyone living and working in California.

I continue to believe this to be the case, and with the escalating impacts of climate change, more extreme climatic events, and the risks and opportunities associated with artificial intelligence and other technological drivers, the need to modernize California's water data systems is more urgent now than ever."

June 3, 2025, Opening Comments at California Water Data Consortium Roundtable on Open and Actionable Data and Climate Adaptation Strategies



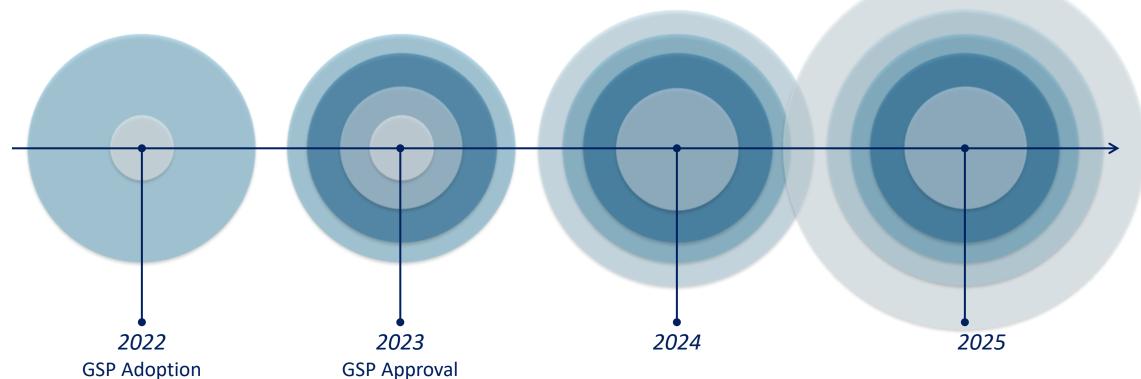
Groundwater Pumping Reduction Programs and Progress



Water Conservation and Groundwater Pumping Reduction Workplans: Guiding Framework

- Focus on voluntary actions that achieve groundwater benefits for the Subbasin
- Assess the costs and benefits of alternative actions and focus on those that are most cost-effective
- Leverage existing programs and opportunities to generate value from a suite of voluntary actions
- Include adaptive management to adjust the program as data and sustainability indicators evolve
- Mandatory measures if voluntary programs do not achieve measurable reductions in groundwater pumping (e.g., mandatory metering/reporting)

WC & GPR Workplans: Implementation Progress



Outreach & Engagement

Workplan Development
Outreach & Engagement
Measurement & Monitoring

Workplan Implementation
Outreach & Engagement
Measurement & Monitoring
Certification Partnership
Benchmarking & Nudging

Workplan Implementation
Outreach & Engagement
Measurement & Monitoring (Pilot)
Certification Partnership
Benchmarking & Nudging
Recharge & Replant
Domestic Programs

WC & GPR Workplans: Program Implementation





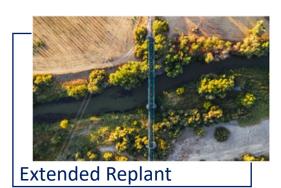














Water Conservation Practices

- The WC Workplan developed a list of water conservation best management practices (BMPs) for all water users
- Cost, adoption, water saving potential, and economic analysis of alternatives

Practice	Estimated Annualized Cost per AF Conserved* \$/AF	Estimated Potential Subbasin-wide Water Savings AFY	Adoption Timeline** Years	Overall Feasibility Ranking		
Water Practices for All Users						
Water Metering	\$150 - \$2,500	350 - 550	Medium-Term	High		
Recycled Water	\$362 - \$720	200 - 300	Medium-Term	High		
Benchmarking	\$100 - \$350	300 - 1,100	Medium-Term	High		
Water Practices for Vineyards (Established)						
Drip Irrigation	\$2,800 - \$9,200	75 - 250	Near-Term	Medium		
Distribution Uniformity	\$175 - \$450	500 - 2,100	Near-Term	High		
Plant Water and Soil Moisture Monitoring	\$155 - \$3,340	1,000 – 2,000	Near-Term	High		
High Tech, Low Labor	\$350 - \$1,450					
Medium Tech, Medium Labor	\$740 - \$3,340					
Low Tech, High Labor	\$155 - \$1,170					
Cover Cropping	\$5,000 - \$18,000	50 - 550	Medium-Term	Low		
Canopy Management	\$3,500 - \$5,000	200 - 300	Near-Term	Medium		
Water Practices for Vineyards (New Plantings)						
Row Orientation	No additional cost	200 - 325	Long-Term	High		
Rootstock Selection	No additional cost	Data Gaps	Long-Term	Data Gaps		
Water Practices for Wineries						
Waterless Sanitation	\$1,900 - \$2,800	100 - 165	Near-Term	Low		
Process Water Treatment and Reuse	Data Gaps	275 - 450	Long-Term	Medium		
Water Practices for Residential, Commercial, and Hospitality						
★WaterSense Devices	\$775 - \$1,200	500 - 575	Near-Term	High		
Other Urban Water Conservation	Data Gaps	Data Gaps	Near-Term	Data Gaps		

Domestic Water Conservation



Overview and Current Status

- A domestic conservation concept for increasing adoption of water conservation practices in the Napa Valley Subbasin
- Includes practices for urban, rural residential, and municipal users
- Leveraging existing water conservation frameworks and community's commitment to sustainability
- Currently under development

Pilot Water Certification Partnership Program



Program Overview

- Voluntary, incentive-driven partnership to:
 - Encourage more water conservation practices
 - Increase awareness of groundwater management
- Partnership with existing certification programs or other organizations to recognize vineyards and wineries implementing practices within the Napa Valley Subbasin
- Leveraging existing conservation efforts and ag industry commitment to sustainability

Pilot Water Certification Partnership Program (continued)

Current Development & Implementation Status

- Request for Qualifications (RFQ)
- Ongoing discussions with potential partners
- Analyzing a suite of potential incentives for both participating growers/wineries and partners
- Applying information learned in development process to domestic water conservation opportunities

Subbasin-Wide Groundwater Recharge



Currently Planned Recharge Project Scenarios

- Scenario 1: Surface water diversion for direct recharge
- Scenario 2: Surface water diversion to onfarm pond or reservoir for in-lieu use
- Scenario 3: Recharge combined with repurposing (e.g., riparian, recharge basin) for SGMA benefits (e.g., ISW and GDE)

Subbasin-Wide Groundwater Recharge (continued)

Feasibility Study Overview

- Increase groundwater recharge
 - Target SGMA benefits (e.g., ISW and GDE)
 - Link to other GPR elements
- Assessment of recharge opportunities
 - Technical
 - Economic
 - Financial

Current Status

- Initial analysis
- Ongoing grower discussions for existing activities, feasibility, infrastructure, costs, existing experience and knowledge

Subbasin-Wide Groundwater Recharge (continued)

Technical and Economic Considerations

- Water Rights for Groundwater Recharge
 - Required for diversions
 - Existing water rights and permitting
 - Cost
- Vineyard Water Management
 - Infrastructure, such as tile drains and ponds, align with current practices for soil, drainage, frost, and irrigation
 - Challenges or opportunities?
- Pond Establishment or Expansion
 - Permits required from State Board and Napa County
 - Time and cost?

Extended Vineyard Replant Concept

MA1: Water Conservation MA2: GW Pumping Reduction

P1: Aquifer Recharge



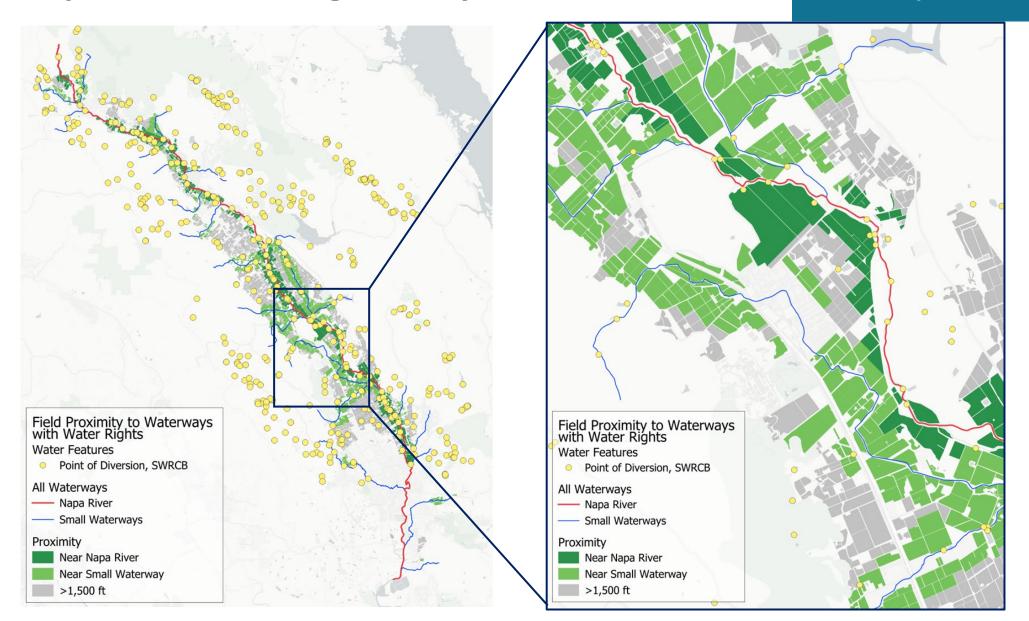
Concept Overview

- Voluntary program with incentive offered to increase the duration of idle/fallow between removal and replanting
 - Water savings as replants are shifted
- Explore in combination with other practices to increase benefits (Recharge Scenario 3)
- Considerations
 - Market conditions
 - ISW and GDE
 - "Mothballing" is a similar potential concept

Replant & Recharge Analysis Overview

MA1: Water Conservation
MA2: GW Pumping Reduction

P1: Aquifer Recharge



Replant and Recharge Analysis

MA1: Water Conservation
MA2: GW Pumping Reduction

P1: Aquifer Recharge

Current Development in Progress

- Assessing water rights and costs for each scenario
 - Grower outreach
 - Analysis
- Integrating groundwater (ISW and GDE) benefits with water rights
 - Co-benefit opportunities suitability for conservation, recharge, and infrastructure
- Preparing feasibility study

Discussion

Subbasin-Wide Groundwater Recharge

 What other considerations should be included in the development of these scenarios for the recharge feasibility study? How can they be improved?

Replant and Recharge Spatial Analysis

• What else should be considered in the analyses for these programs, especially from a vineyard operation or multi-benefit perspective?

- NCGSA Water Certification Partnership
- Domestic Water Conservation/WELO
- Water Availability Analysis (In Progress)

Estimated Potential Water Savings: 1,031 AFY



- Pilot Water Certification Partnership
- Domestic Water Conservation/WELO
- Water Availability Analysis (in Progress)
- Education and Outreach Campaign
 - Benchmarking Program

Estimated Potential Water Savings: 1,331 AFY



- NCGSA Water Certification Partnership
- Domestic Water Conservation/WELO
- Water Availability Analysis
- Education and Outreach Campaign
 - Benchmarking Program
- Land Fallowing Program
 - Extended Vineyard Replant Program
 - Emphasis on land near significant rivers and streams
 - On-Farm Recharge and Conservation Programs

Estimated Potential Water Savings: 1,484 AFY



- NCGSA Water Certification Partnership
- Domestic Water Conservation/WELO
- Water Availability Analysis
- Education and Outreach Campaign
 - Benchmarking Program
- Land Fallowing Program
 - Extended Vineyard Replant Program
 - Emphasis on land near significant rivers and streams
 - On-Farm Recharge and Conservation Programs
- Other WC & GPR Workplan Measures

Estimated Potential Water Savings: 1,815 AFY



Average Annual Estimated Water Savings

Pilot Water Measurement: MST Area



Program Overview

- Milliken-Sarco-Tulucay Area (MST) is a groundwater deficient area with County reporting requirements
- Pilot project focus
 - Support water measurement
 - Standardize internal county data
- Progress
 - Pilot users onboarded covering domestic, agriculture, and industrial
 - Draft dashboard integrating new and historical data for seamless measurement and monitoring
 - Simplified water tracking

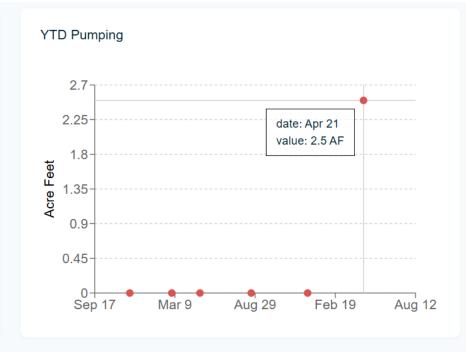
Pilot Water Measurement Reporting: Tracking Technology

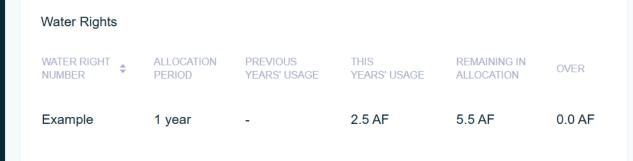
- Simple water accounting and tracking
- Piloting in MST Area
- Simplify county data management and MST area reporting



TAPP H2O User Dashboard (Example w/o Data)









GPR Implementation – Next Steps

- Continue Water Certification Partnership Request for Qualifications Process
- Engage stakeholder groups for feedback and interest in extended replant and recharge programs
- Continue to implement programs, including:
 - Recharge Feasibility
 - Pilot Water Certification Partnership
 - Benchmarking
 - Community Engagement and Education
 - Pilot Measurement

Napa Valley Integrated Hydrologic Model (NVIHM) Scenarios

Demand Reduction Scenarios

Approach

Evaluate impact of 10% decrease in irrigation and groundwater pumping on lands located within 500 and 1,500 feet of "Significant Streams"

Irrigation Reduction Approach:

 Scaled crop coefficients in irrigated lands within 500 and 1,500 ft buffers respectively such that:

$$Irrigation_{final} = 0.9 \times Irrigation_{initial}$$

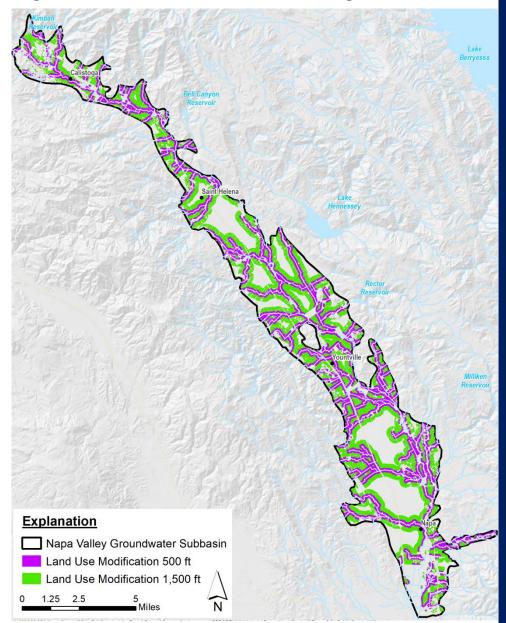
Pumping Reduction Approach:

 Pumping for Irrigation (Calculated Internally): Reduced well capacity in wells located within 500 and 1,500 ft buffers such that:

$$Pumping_{final} = 0.9 \times Pumping_{initial}$$

• **Specified Pumping**: Directly reduced pumping specified in municipal wells, public water supply and winery wells, and for self-supplied indoor domestic pumping.

Irrigated Lands within 500 and 1,500 ft of Significant Streams



Demand Reduction Results: Pumping and Irrigation (WY 2005-2024)

Irrigation

500 ft Buffer: 834 AFY (3.6%) decrease in total irrigation in

Subbasin

1,500 ft Buffer: 1,751 (7.5%) decrease in total irrigation in

Subbasin

Pumping

500 ft Buffer: 750 AFY (4.7%) decrease in pumping in

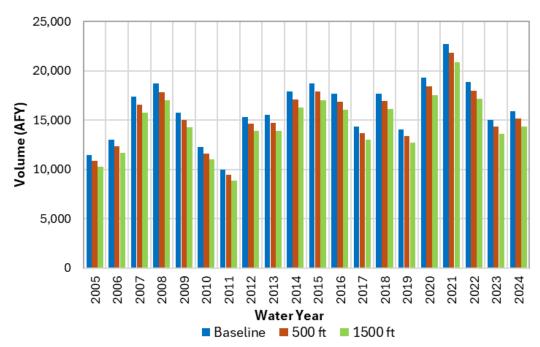
Subbasin

1,500 ft Buffer: 1,500 AFY (9.4%) decrease in pumping in

Subbasin

**Difference in irrigation and pumping are not directly proportionate due to other sources of water for irrigation (stream diversions, local reservoirs, and imported water)

Napa Valley Subbasin Simulated Pumping (2005-2024)



Demand Reduction Results: Impacts on Low Flow

Low flow defined as when simulated discharge at Pope Street in "Baseline" is less than 10 cfs

500 ft Buffer Scenario

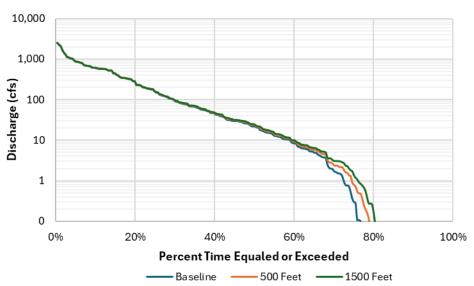
- Avg. monthly increase in low flow at **Pope Street** ranges from 0.1 to 0.2 cfs
- Avg. monthly increase in low flow at **Oak Knoll** ranges from 0.2 to 0.45 cfs

1,500 ft Buffer Scenario

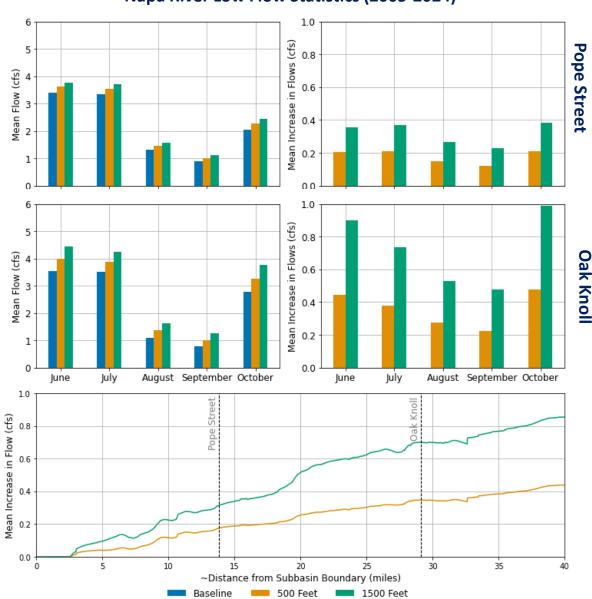
- Avg. monthly increase in low flow at Pope Street ranges from 0.2 to 0.4 cfs
- Avg. monthly increase in low flow at **Oak Knoll** ranges from 0.45 to 1 cfs

Difference in simulated flow between demand reduction scenarios and Baseline increases in downstream direction

Napa River at Oak Knoll – Flow Duration Curve (2005-2024)



Napa River Low Flow Statistics (2005-2024)



Demand Reduction Results: Impacts to SMCs

Minimum Thresholds

- Both the 500 ft and 1500 ft buffer scenarios eliminate exceedances of the MT in the Baseline Period (2005-2014) at Pope Street and Oak Knoll
- Both the 500 ft and 1500 ft buffer scenarios reduce exceedances of the MT in the Recent Period (2015-2024) at Pope Street and Oak Knoll

Measurable Objectives

- Both the 500 ft and 1500 ft buffer scenarios increase the number of years the MO is met in the Baseline Period (2005-2014) at Pope Street and Oak Knoll
- The 500 ft and 1500 ft buffer scenarios have <u>no impact</u> on the number of years the MO is met in the Recent Period (2015-2024)

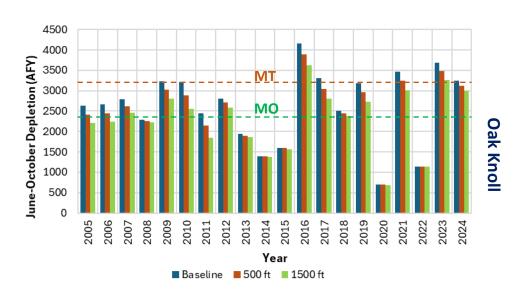
SMC Summary

Pope Street

	Period	2005-2014			2015-2024		
SMC (AFY)	Scenario	Baseline	500 ft	1500 ft	Baseline	500 ft	1500 ft
1,400	Exceeds MT	1	0	0	4	2	1
1,120	Meets MO	3	4	5	4	4	4

Oak Knoll

	Period	2005-2014			2015-2024		
SMC (AFY)	Scenario	Baseline	500 ft	1500 ft	Baseline	500 ft	1500 ft
3,190	Exceeds MT	1	0	0	5	3	2
2,370	Meets MO	3	4	6	3	3	3



California
Environmental Flows
Framework, Goals, and
Ecological Monitoring



State-Related Water Management, Interconnected Surface Water and Ecosystem Programs

- Reduce diversions & pumping
- Manage water allocations
- State Board SDA Unit coordinating Napa River Watershed Modeling with Napa GSA

Calif.
Salmon
Strategy
(2024)

Calif. Water Commission (2024 White Paper)

- Improve water availability in drought & non-drought
- Analyze ecosystem needs
- Promote development of local watershed plans

- Watershed instream flow criteria based on functional flows (CEFF)
- Watershed Criteria
 Reports in coordination
 with State Board and CA
 Salmon Strategy

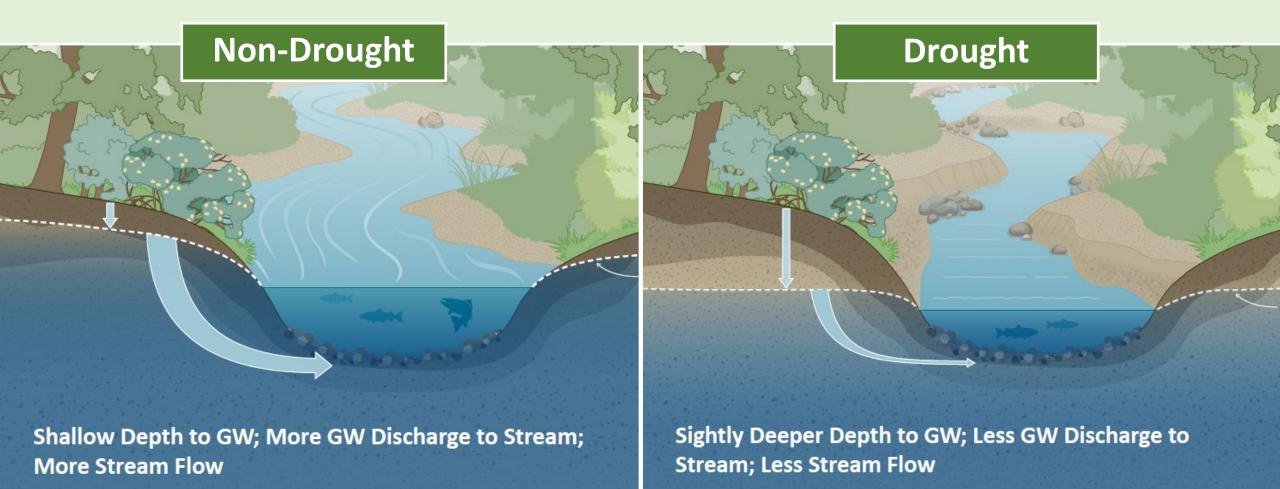
Calif. Dept.
Fish &
Wildlife
(2020 and
Ongoing)

Drought
Resiliency
Interagency
Program
(DRIP; 2025
Ecosys. Goal)

- Ecosystems one of the key DRIP goals
- Reduce drought impacts on ecosystems
- Develop strategies to minimize drought effects

The Napa Valley Subbasin is very susceptible to uncertain precipitation patterns, drought, and less natural recharge. Slight differences in groundwater levels affect flow in the stream system.

Ecosystems, vineyards, and other land uses rely on groundwater during the summer months. Climate change necessitates new strategies and innovation to use less groundwater and increase groundwater replenishment regardless of Non-Drought or Drought Conditions.



Process and Timing

2024

Modeling and Monitoring

- Biological
- Hydrology
- Model update and scenarios

CEFF Analysis

- Ecological Goals
- Functional Flow Criteria

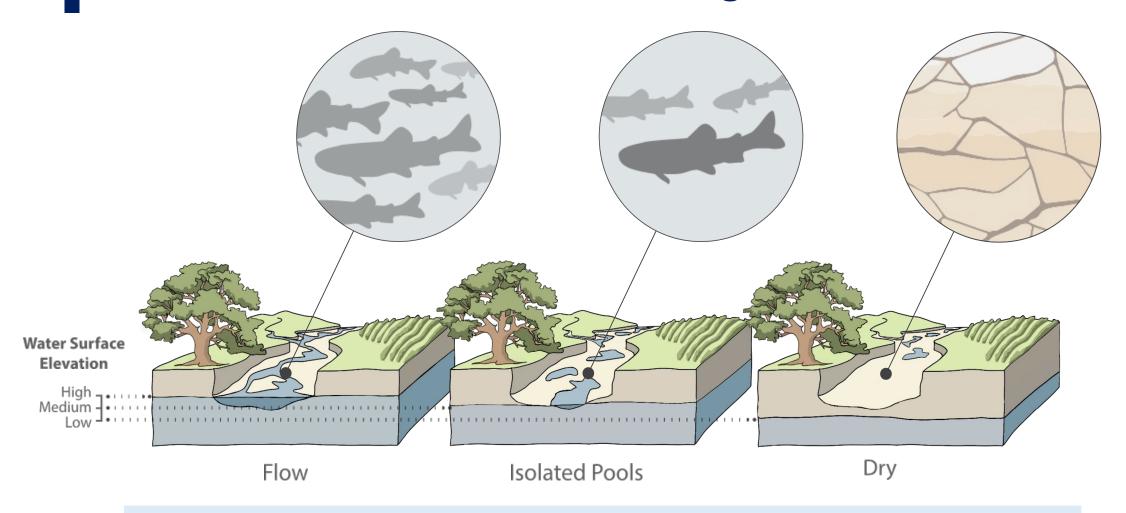
Sustainable Management Criteria

 Balance with other beneficial users and SGMA regulations

January 2027

GSP Periodic 2025 2026 Evaluation

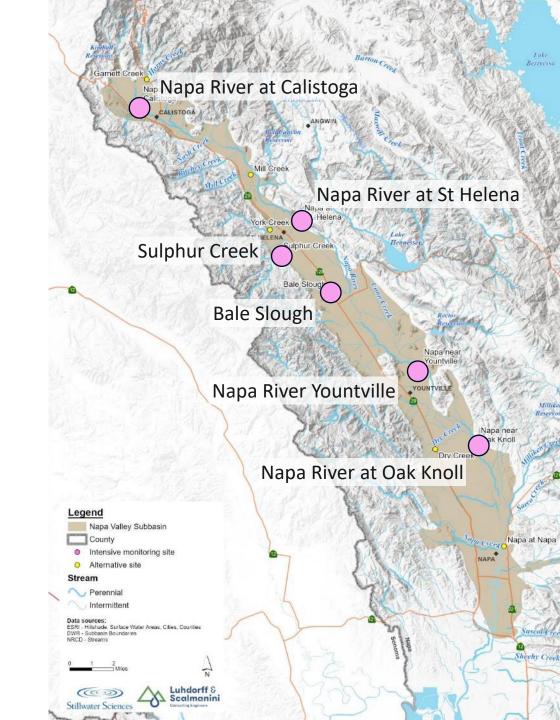
Hydrology, Biological Surveys and Literature Inform Functional Flow Criteria and Linkage to GSP

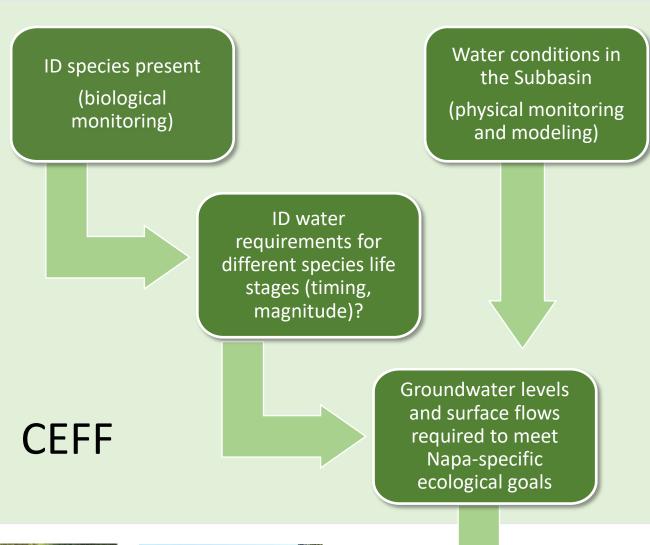


Functional Flow Criteria >> Used to Inform Ongoing Interconnected Surface Water Monitoring and Refining/Establishing Sustainable Management Criteria

ISW and GDEs Workplan Implementation

- Six intensive survey sites
 - 4 mainstem sites and 2 tributaries
- Field visit to 4 sites in May 2025
 with Stillwater Sciences, Napa
 County, Napa RCD, LSCE, and TAG
 members
- CEFF aquatic and terrestrial GDEs data collection







Other beneficial uses and users





Sustainable Management Criteria

CEFF and Ecological Goals

The ISW and GDEs Workplan goal is to use physical and biological data coupled with integrated hydrologic modeling to better understand the conditions required to protect and enhance healthy terrestrial and aquatic GDEs. The Workplan describes the steps needed to understand the conditions necessary to:

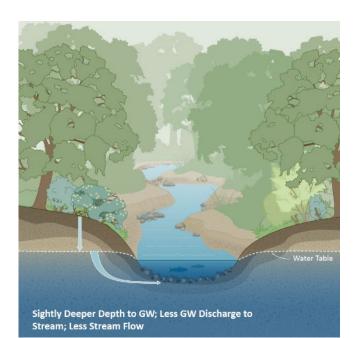
- Protect and enhance steelhead spawning, rearing, and migration in the watershed,
- Support special-status aquatic species, and
- Protect and enhance terrestrial GDEs and special-status species.



Ecological Goals

Vary by site and are a function of:

- Hydrology
- Habitat (physical habitat, water quality, etc.)
- Biological use (species present)





Questions:

- What species use the site?
- What are their biological needs?
- How do these needs depend on groundwater management?

Ecological Goals (continued)

Goals at All Sites

- Support groundwater-dependent riparian vegetation (maintain summer groundwater within the rooting zone of riparian trees)
- Support upstream and downstream fish passage
- Maintain ecosystem diversity

Site-Specific Goals

- Calistoga: maintain isolated pools for California Freshwater Shrimp
- Sulphur Creek, Napa at St. Helena, Dry Creek: maintain foothill yellow legged frog habitat to support metamorphosis
- Steelhead/Chinook rearing were present and sufficient temperatures

Ecological goals will likely focus on timing of flows and sufficient water quality to support migration of juveniles/metamorphs.

Data Analysis

Hydrology

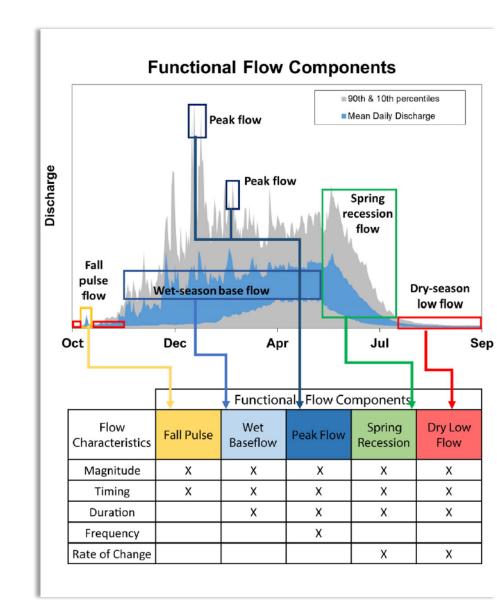
Compare existing condition versus "no pumping" or "natural" scenario

- NVIHM (dry season, spring recession)
- Natural Flows Database (fall pulse flow, peaks)

Biology

Biological monitoring (2024-2025, plus literature)

- What species use the site? Ecological goals?
- What are the biological needs and constraints (e.g., habitat)?
- What are the flow-ecology relationships (including magnitude, timing, and duration of flows)?
- How do these goals depend on groundwater management?



Biological and Habitat Monitoring 2024 and 2025

Biological Surveys:

- Amphibians and reptiles (2024 and 2025)
- California Freshwater Shrimp surveys (Calistoga only) (2024 and 2025)
- Riparian bird surveys (2025)
- Vegetation health and special-status plants (2024 and 2025)

Habitat Surveys:

- Fish habitat at each site (2024 or 2025)
- Stream temperature (2024 and 2025)
- Dissolved oxygen (2024 and 2025)
- Wet-dry mapping and flow connectivity (2024 and 2025)
- Shallow groundwater and streamflow



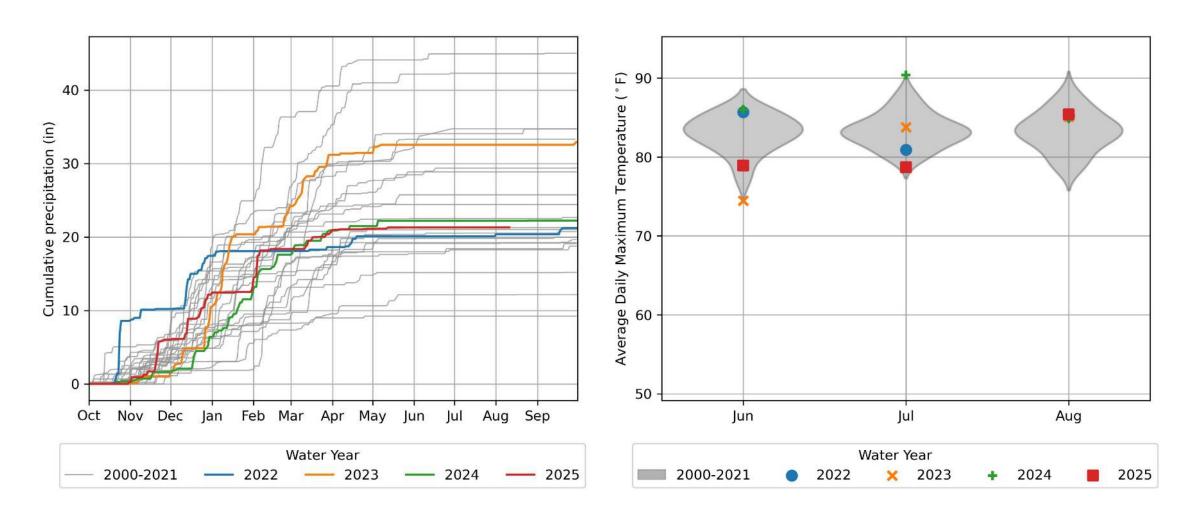






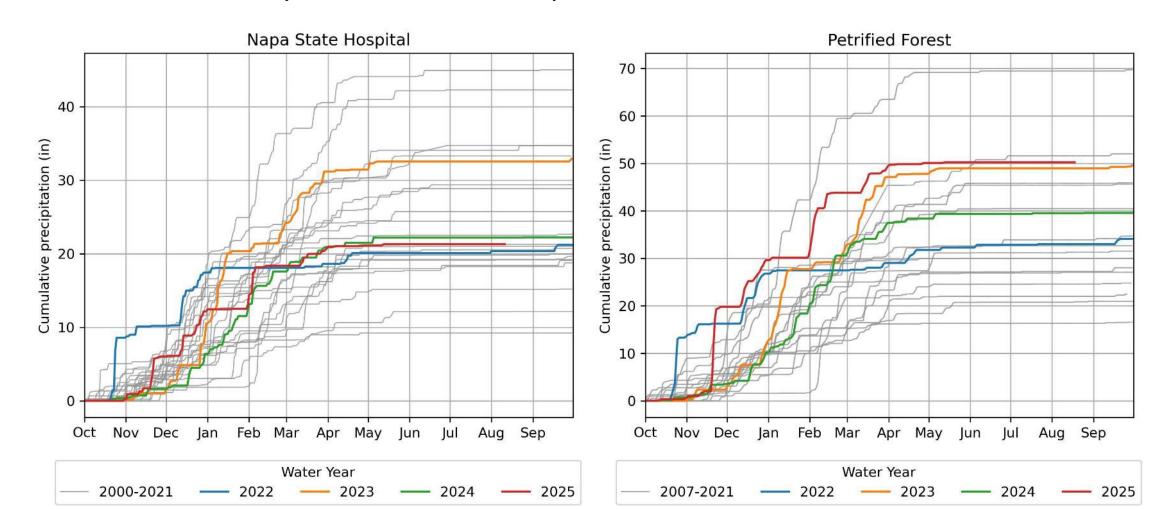
Year-to-Year Variability

2025 had less rainfall than 2024 (at Napa State Hospital) but was much cooler.

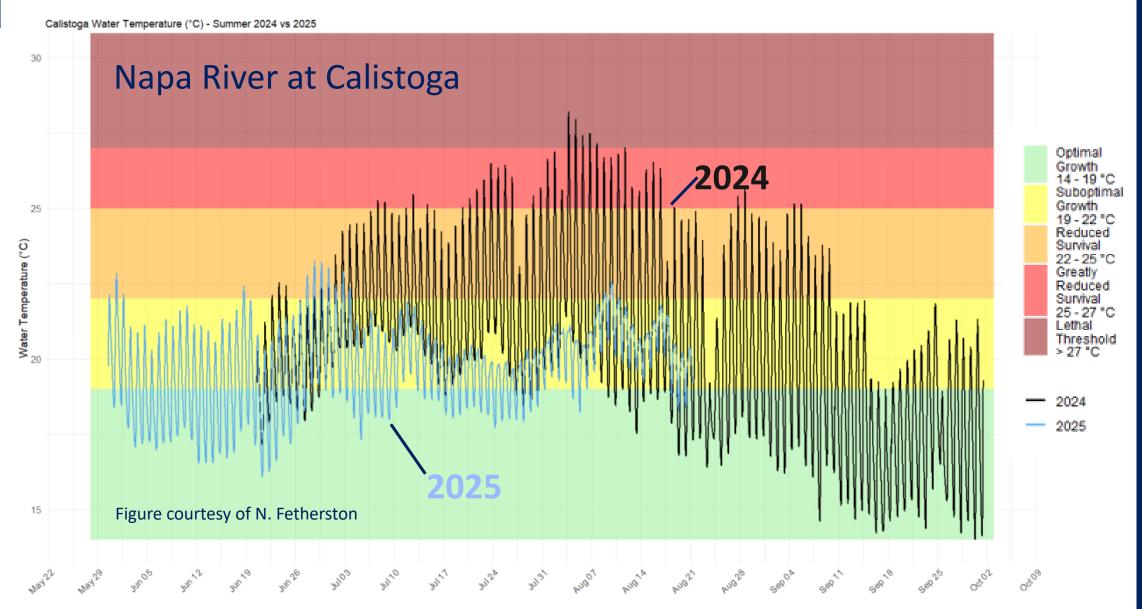


Spatial Variability

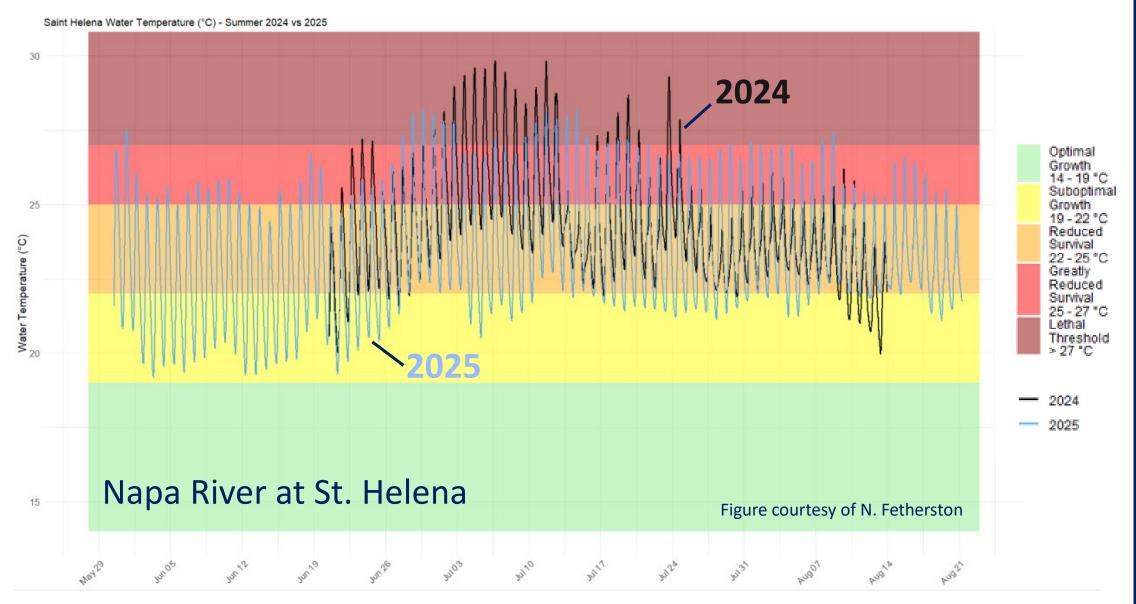
• 2025 was slightly below average at Napa State Hospital, but more like a wet year in the northern parts of the watershed



Water Temperature More Suitable in 2025 than 2024



Water temperature more suitable in 2025 than 2024



Biological Surveys

- Foothill yellow-legged frog metamorphs observed prior to Sulphur Creek going dry
- Steelhead and Chinook juveniles were more widespread and abundant in 2025 than 2024
- GDE vegetation mapped at each site (2024, 2025 surveys in September)
- 62 bird species identified using sound recorders at 5 of the sites (data still being processed)











Fish Survey Results



Site	2024				2025			
	O. Mykiss* Adult	O. Mykiss (100-200 mm)	O. Mykiss (<100 mm)	Chinook parr	O. Mykiss Adult	O. Mykiss (100-200 mm)	O. Mykiss (<100 mm)	Chinook parr
Napa R. @Calistoga	0	3	118	0	0	0	0	2592
Napa R. @ St Helena	0	0	2	0	0	10	5	13
Napa R. @ Yountville	0	0	1	0	12	0	0	42
Napa R. @ Oak Knoll	N/A	N/A	N/A	N/A	2	0	0	1
Sulphur Creek (May)	N/A	N/A	N/A	N/A	0	5	773	239
Sulphur Creek (June)	26	8	3	1	0	4	244	128
Bale Slough	N/A	N/A	N/A	N/A	0	0	0	19

^{*}Oncorhynchus mykiss = Steelhead

Biological Survey Results

- Napa River at Calistoga: Steelhead fry (2024), Chinook fry (2025), and California Freshwater Shrimp (2024)
- Napa River at St. Helena: Foothill yellow-legged frog (2024), Northwestern pond turtle (2024-2025)
- Napa River at Yountville: Northwestern pond turtle (2024)
- Napa River at Oak Knoll: Foothill yellow-legged frog eDNA (likely from Dry Creek)
- **Sulphur Creek:** Foothill yellow-legged frog (2024 and 2025). Steelhead fry, parr, and adults (2024-2025), Chinook fry (2025).
- Bale Slough: Chinook fry (2025) (western toad and Sierra chorus frogs)



2025 Monitoring Implications for Ecological Goals

- Stream temperatures (and dissolved oxygen) may be suitable for longer in the Napa mainstem during wetter, cooler years like 2025.
- Fish observations varied from year-to-year; importance of habitat to be explored. Chinook juveniles were at nearly all the sites in 2025 and none in 2024. Do rearing juveniles survive sites that go dry or become isolated pools?
- Tributaries (and mainstem channels near junctions) provide good foothill-yellow-legged frog habitat (more bars and pools)



Next Steps

Continued monitoring in 2026

Biologic and habitat surveys

CEFF Analysis



Hydrologic monitoring

CEFF analysis (Complete Sections A and B)

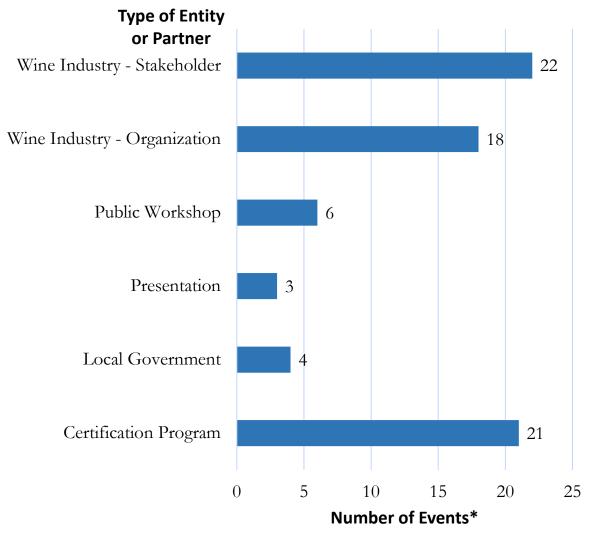
CEFF Section C

Water Conservation: Expanded Outreach

Outreach and Engagement

- Since 2023, outreach and education has reached a wide range of stakeholders through presentations, workshops, and one-on-one meetings.
- Last year, outreach heavily focused on outreach to the wine industry and sustainability programs during development of the certification partnership.

Outreach and Education, September 2023 to July 2025



^{*}Excludes coordination meetings, other public meetings (e.g., TAG, GSA), and technical meetings

Expanded Outreach and Engagement

- Now, broadening outreach efforts, including development of Water Conservation Community Engagement and Education Plan (WCCEEP).
- The WCCEEP seeks to support effective implementation of the GSP by creating an actionable strategic plan for meaningful stakeholder engagement, outreach, and education. The plan is intended to meet the following goals:

Increase understanding of water issues

Connect stakeholders to Workplan information, programs, and resources

Create forums for exchange of feedback and input

Refine programs for effectiveness and acceptance

Promote expanded watershed stewardship

Water Conservation: A Napa Way of Life



Use Water Wisely: Become a Water Steward

- All sectors are engaged in Water Conservation.
- Additional conservation will help achieve the sustainability goal.
- What actions are needed to increase water conservation?

Achieving More Conservation Together



- Everyone has an interest in watershed resiliency.
- Collaboration among entities already knowledgeable of natural resource stewardship is needed for public outreach and education to achieve additional countywide water conservation.
- Organizing and implementing educational workshops, briefing service organizations and others, and delivering simple messages for effective actions.

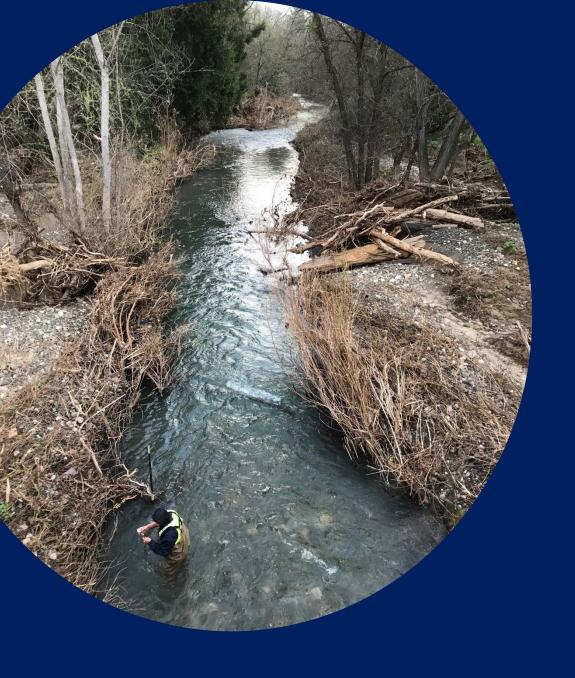
Community Engagement and Education: Plan & Partners

Water Conservation: A Napa Way of Life Drought or Non-Drought Higher Temperatures Altered Precipitation **Patterns** Surface Runoff Decreased Increased Infiltration Evapotranspiration Groundwater

Potential Partnering Organizations (Examples)

- Napa RCD
- Napa Co. FCWCD
- WICC
- Local Ag and Wine Industry Organizations
- Sustainability Certification Programs
- Business, civic, and community organizations
- Conservation and environmental organizations

Discussion



Thank You

Napa County Groundwater Sustainability Agency

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