

**Northern Sacramento Valley Integrated Regional Water Management
Technical Advisory Committee Meeting**

**Wednesday, June 21, 2023
9:00-11:00 a.m.**

**Location: Willows City Hall
201 N. Lassen Street, Willows, CA**

Agenda

1. Open meeting/roll call/introductions (Lisa Hunter, Chair)
2. *Approval of minutes for the January 18, 2023 NSV IRWM TAC meeting.
3. Presentation and discussion of Spring 2023 Groundwater Conditions (Michael Parker, Department of Water Resources Northern Region)
4. County Well Construction Permitting Updates (Grant Carmon, Glenn County and Matt Hansen, Tehama County)
5. *Receive an update on Proposition 1, Round 2 grant
 - a. Mountain Counties Funding Area (Christina Buck)
 - b. Sacramento River Funding Area (Guadalupe Rivera)
6. TAC representatives reports regarding Drought and SGMA implementation and SGM Round 2 grant status:
 - a. Butte (Christina Buck, TAC Representative)
 - b. Colusa (Steve Geiger, TAC Representative)
 - c. Glenn (Lisa Hunter, TAC Representative)
 - d. Shasta (Charleen Beard, TAC Representative)
 - e. Sutter (Guadalupe Rivera, TAC Representative)
 - f. Tehama (Justin Jenson, TAC Representative)
 - g. Tribal (Patrick Spielman, Tribal Representative-Mechoopda Tribe)
7. DWR Update
8. TAC member comments and updates – (All)
 - a. General comments and updates
 - b. Suggested future agenda items
 - c. Suggested future presentations/speakers
 - d. Upcoming meeting reminders
9. Public wishing to address the TAC on items not listed on the agenda. (The NSV IRWM TAC is prohibited by State law from taking action on any item presented if it is not listed on the agenda). Comments will be limited to three minutes per person.

10. *Correspondence

11. Next Meetings:

NSV IRWM TAC: July 19, 2023 at 9:00 a.m.

NSV IRWM Board: August 7, 2023 at 9:00 a.m.

12. Adjourn

* Indicates attachment.

Public Comments: The public comment period is a time set aside for members of the public to address the TAC on matters not included on the Regular Agenda. Each speaker is limited to three (3) minutes to speak. Speakers may not cede their time. Speakers must address the TAC, not the audience. Comments should be limited to matters within the jurisdiction of the TAC. If members of the audience have documents to present to the TAC to review, they should provide a minimum of twenty (20) copies. Public comments on agenda items will be permitted during consideration of each item.

NSV IRWM TAC Agenda Item #2

2. *Approval of minutes for the January 18, 2023 NSV IRWM TAC meeting.

The minutes from the January 18, 2023 NSV IRWM TAC meeting are not yet available. The minutes may be provided under separate cover prior to the meeting, or the item will be tabled until the next NSV IRWM TAC meeting.

Attachments:

None

NSV IRWM TAC Agenda Item #5

5. *Receive an update on Proposition 1, Round 2 grant
 - a. Mountain Counties Funding Area (Christina Buck)
 - b. Sacramento River Funding Area (Guadalupe Rivera)

Action Item: *For information only*

STAFF REPORT

The deadline to submit an application to the Department of Water Resources Prop 1 IRWM Round 2 grant program was February 1, 2023, and projects must be completed by December 31, 2027. Two applications were submitted by the deadline. One for the Mountain Counties Funding Area and the other for the Sacramento River Funding Area. The following describes what was included in the applications.

Mountain Counties Funding Area

The IRWM regions in the Mountain Counties Funding Area (MCFA) agreed to split their allocation of Prop 1 IRWM Implementation funds equally between the nine regions. The NSV IRWM region was allocated \$1,146,232.67. No projects were submitted for funding during Round 1 so the full allocation was available for Round 2.

On November 7, 2022, the NSV Board directed staff to prepare the application with the inclusion of two projects:

1. Berry Creek Forest Health and Watershed Protection Project
2. Lake Madrone Replacement of the Potable Water Distribution System

The Berry Creek Forest Health and Watershed Protection Project will reduce wildfire risk and provide needed water conservation by improving forest health through thinning and fuels reduction and increase in water release on 60 acres of forest land. The project is located in and would provide benefits to the Feather River watershed in Butte County and will take place around the residential portions of Berry Creek, adjacent to US Forest Service lands, along key ingress and evacuation routes as well as ridge lines for wildfire defense. A variety of fuels treatments have been successful in Butte County historically and will be used for this project including hand cut and pile burn, mastication, prescribed fire, grazing, lop and scatter, as well as hand cut and chip. Berry Creek Fire Safe Council (BCFSC) formed over a decade ago and received Firewise USA recognition. The area burned severely in the North Complex and has a high probability of future catastrophic wildfire due to the high fire return interval. The project will provide wildfire safety and water conservation to enhance reliability of groundwater supplies for the Berry Creek Community.

The Lake Madrone Water District (LMWD) supplies potable water to residential and community properties surrounding Madrone Lake in Butte County, California located 8 miles north of Lake Oroville. The North Complex Fire started by lightning on August 17, 2020, and caused significant damage to LMWD's system infrastructure either by heat damage to system components, damage by personnel during fire-fighting efforts, or falling debris. LMWD's source water is pumped from 3 groundwater wells

to 4 above ground storage tanks. Potable water is distributed to 125 service connections through a network of 19,044-feet of mostly buried polyvinyl chloride (PVC) and transit piping ranging from 2- inch to 6-inch in diameter. For complete buildout for the community, the project will be upgrading the necessary backbone potable water infrastructure to serve 147 residents. In addition to serving the potable water needs of the community, the water supply supports fire suppression and County public works activities in the area. The principal benefit of this project is water supply/water supply reliability and water quality. Once completed, the system will be able to deliver 7 million gallons per year (GPY) of potable water to residents. LMWD is seeking funding from the Federal Emergency Management Agency (FEMA) for the majority of projects costs but the IRWM grant will help the district meet cost share requirements of the federal grant and will enable the project to get an earlier start.

As the application was prepared, the budget and project scopes were refined. The table below shows the budget submitted for each project and grant administration.

Application Budget Table:

PROJECTS	Grant Amount	Required Cost Share: Non-State Fund Source	Other Cost Share	Total Cost	Cost Share Waiver Received
Grant Administration	\$50,000	\$25,000	\$0	\$75,000	N/A
Berry Creek Forest Health and Watershed Protection Project	\$296,232	\$0	\$30,000	\$326,232	100%
Lake Madrone Replacement of Potable Water Distribution System	\$800,000	\$0	\$7,003,000	\$7,803,000	100%
GRAND TOTAL	\$1,146,232	\$25,000	\$7,033,000	\$8,204,232	

DWR released recommended awards for funded projects in May 2023 and Butte County received the Notification of Award letter from DWR regarding the two submitted projects. Butte County has responded with the required materials. The uncertainty of FEMA funding for the Lake Madrone project is a concern for project eligibility, but DWR is allowing for additional time before establishing a grant agreement.

Sacramento River Funding Area

According to the Implementation Grant Program webpage, the Sacramento River Funding Area (SRFA) has \$1,677,458 available in implementation funds. Based on negotiations between the six regions in the SRFA in 2019, \$1.2 million of the available funds are designated to the NSV IRWM region. The Upper Sac IRWM region pursued the remaining funds. The other IRWM regions in the SRFA did not submit projects for Round 2 funding.

On November 7, 2022, the NSV Board directed staff to prepare the application with the inclusion of four projects:

1. Spiva Avenue Water Main Replacement - Clark Ave to Cooper Avenue
2. Clear Creek NIS Plant Control
3. Northern Sacramento Valley Mobile Irrigation Lab (NSV MIL)
4. Arbuckle Area Groundwater Recharge Demonstration and Pilot Project

Direction was provided that as the Clear Creek NIS Plant Control project scope and budget was further developed, any excess funding available from this project budget be transferred to the Arbuckle Area Groundwater Recharge Demonstration and Pilot Project.

During the preparation of the grant application, staff was notified by the project proponent that the Clear Creek NIS Plant Control project would not be able to be included in this funding opportunity, therefore staff transferred available project funding to the Arbuckle Area Groundwater Recharge Demonstration and Pilot Project, as directed.

The Spiva Avenue Water Main Replacement project will provide a new and upsized water main with the required capacity to provide potable water efficiently to the affected water services, while also being less likely of leaks and other contaminants generally found with aged water mains greater than 75 years old. The project will increase water service by 1.56 cfs and fire flow capacity for an area of a disadvantage community.

The RCD of Tehama County's (RCDTC) Mobile Irrigation Lab (MIL) program will cover 4 counties in the Northern Sacramento Valley, providing free access to all interested growers for irrigation system evaluations. This proposed MIL project will address two main program objectives by first, performing a minimum of 60 irrigation evaluations each year (current average is 82) of which all collected information will be summarized in detailed reports and discussed in a one-on-one technical assistance setting. Second, by providing irrigation water management training that will involve either presenting, leading, or participating in workshops, seminars, or agriculture related events.

The Arbuckle Area Groundwater Recharge Demonstration and Pilot Project's aim is to demonstrate and pilot a multi-benefit groundwater recharge project to assist in meeting the sustainability goals under the Sustainable Groundwater Management Act, as addressed in detail in the Colusa Subbasin Groundwater Sustainability Plan (GSP). The project will build drought resiliency and advance local conjunctive use practices through groundwater recharge according to the State's prioritization of groundwater recharge projects. The project will implement multi-benefit, direct and in-lieu groundwater recharge projects in a unified approach and demonstrate that groundwater recharge is a viable tool to immediately alleviate critical drought conditions. This project will benefit the disadvantaged community surrounding Arbuckle, provide habitat for migratory shorebirds, and enhance groundwater dependent ecosystems supporting the region's objective to implement multi-benefit projects.

As the application was prepared, the budget and project scopes were refined. The table below shows the budget submitted for each project and grant administration.

Application Budget Table:

PROJECTS	Grant Amount	Required Cost Share: Non-State Fund Source	Other Cost Share	Total Cost	Cost Share Wavier Received
Grant Administration	\$80,000	\$0	\$0	\$80,000	N/A
Project 1: Spiva Ave Water Main - City of Yuba City	\$375,000	\$0	\$25,000	\$400,000	100%
Project 2: Northern Sacramento Valley Mobile Irrigation Lab	\$200,000	\$28,572	\$0	\$228,572	75%
Project 3: Arbuckle Area Groundwater Recharge Demonstration and Pilot Project	\$545,000	\$0	\$19,665	\$564,665	100%
GRAND TOTAL	\$1,200,000	\$28,572	\$44,665	\$1,273,237	

DWR released recommended awards for funded projects in May 2023 and Sutter County received the Notification of Award letter from DWR regarding the three submitted projects. Sutter County has responded with the required materials.

NSV IRWM TAC Agenda Item #10

10. *Correspondence

Attachments:

1. Follow up from NSV TAC Meeting
2. NSV IRWM Funding Recommendation Announcement

Lisa Hunter

From: BCWater <BCWaterFrontDeskHG@buttecounty.net>
Sent: Friday, January 20, 2023 10:16 AM
To: Buck, Christina
Subject: Follow up from NSV TAC Meeting
Attachments: GRA | Northern Sacramento Valley Branch Meeting; NSV TAC Fall 2022 GWLs_ PMV.pdf; 2022-12 DWR Update_12-22_final.docx

Good morning TAC members,

As follow up from this week's NSV IRWM TAC meeting, please find attached the DWR Update document, Pat Velline's slides from the Groundwater Conditions update item, and an email regarding an upcoming GRA webcast on AEM by Dr. Todd Greene.

All the best,
Christina

Christina R. Buck, Ph.D.

Assistant Director

Dept. of Water and Resource Conservation
Butte County
308 Nelson Avenue
Oroville, CA 95965-3302
Off: [530.552.3593](tel:530.552.3593)
Cell: 530.864.6057
cbuck@buttecounty.net

Lisa Hunter

From: GRA's Northern Sacramento Valley Branch <staff@grac.org>
Sent: Thursday, January 19, 2023 10:59 AM
To: Buck, Christina
Subject: GRA | Northern Sacramento Valley Branch Meeting

ATTENTION: This message originated from outside **Butte County**. Please exercise judgment before opening attachments, clicking on links, or replying.





JOIN US FOR OUR NORTHERN SACRAMENTO VALLEY BRANCH MEETING

This meeting will be held virtually

Tuesday January 31st, 2023 | 12:00 p.m. - 1:00 p.m. (GMT-0730) US/Pacific

Presentation:

Flying through Aquifers - AEM

Presentation Information:

Visualization of calibrated Airborne Electromagnetic (AEM) data from the Butte and Glenn counties pilot study. Presented by Todd J. Greene Professor and Chair Department of Earth and Environmental Sciences California State University, Chico

Presenter is Dr. Todd J. Greene of California State University, Chico who mainly focuses on basin scale paleogeographic and tectonic histories. Dr. Greene was a collaborator on The Stanford Groundwater Architecture Project with Dr. Rosemary Knight. The full report is available at <https://www2.mst.dk/Udgiv/publications/2021/09/978-87-7038-346-2.pdf>.

Speaker:



Dr. Todd Greene

Speaker Bio:

Dr. Greene's broad areas of research interests include tectonics and sedimentation, sequence stratigraphy and depositional systems. I focus mainly on basin scale questions using a variety of technologies to address paleogeographic and tectonic histories of basins. I mainly work with core, outcrop, shallow 3-D seismic data, and modern analogs to piece together depositional facies models for volcanic-derived deposits (eg. the Tuscan Formation, the main aquifer for the town of Chico), shallow marine clastic sequences, as well as deep-water sediment gravity flows and related bioturbation (eg. Eel River basin and the Great Valley Group of northern California).

Registration:

Member Price: 0.00

Student Price: 0.00

Non-Member Price: 10.00

Register Today!

Contact Information:

If you have any questions, please contact

Anjanette Shadley

anjanette@westerncanal.com

530-342-5083



MONTGOMERY & ASSOCIATES

Water Resource Consultants

Sponsor:

Montgomery & Associates (M&A) provides a range of hydrogeological services to address evolving client challenges throughout the western United States and South America.

OUR EXPERTISE

M&A specializes in groundwater, which is an essential resource in today's world. It is used to supply water and power to our communities, grow our food, sustain ecosystems, and support mining and industry, which are vital to our future. Groundwater is also a complex, shared, and limited resource, subject to hydrogeologic uncertainty, everchanging regulatory policies, debated legal

doctrines, and socioeconomic forces that mandate its sustainable use. Understanding and complying with these conflicting rules of use requires diverse expertise.



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Sacramento, CA 95811

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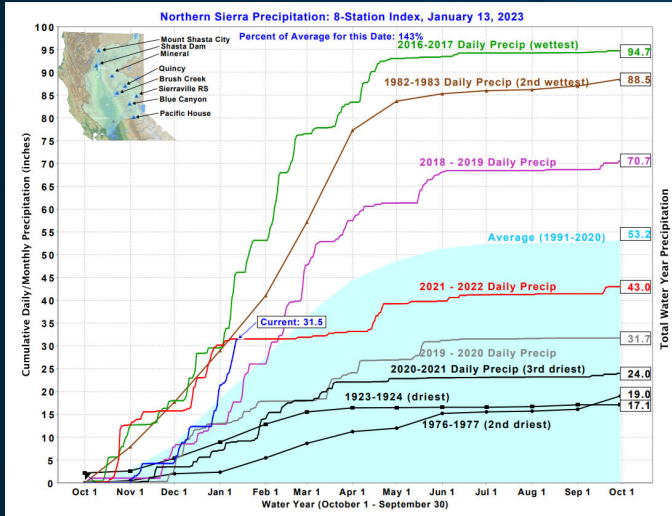
NSV IRWM Board

2022 Fall Groundwater Level Update

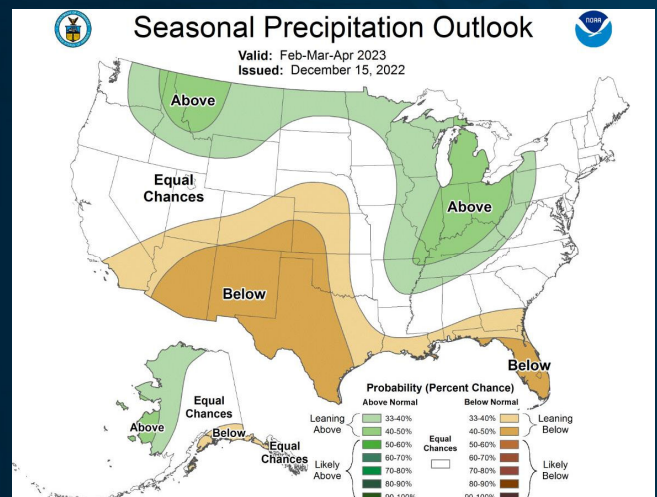
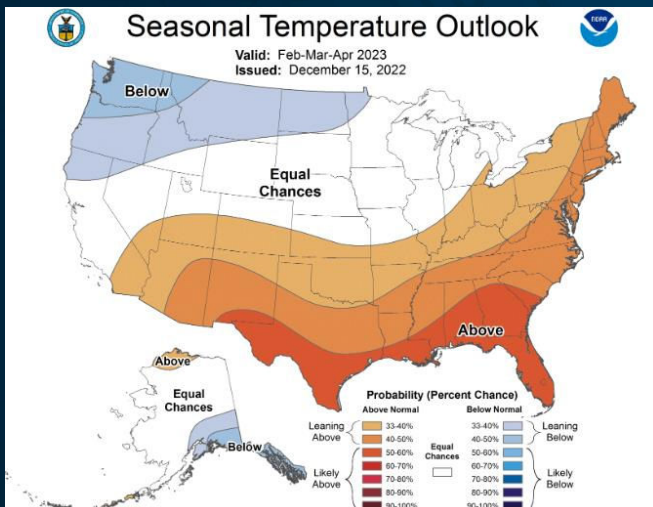
Pat Vellines
Regional Coordinator
DWR Northern Region

Outline

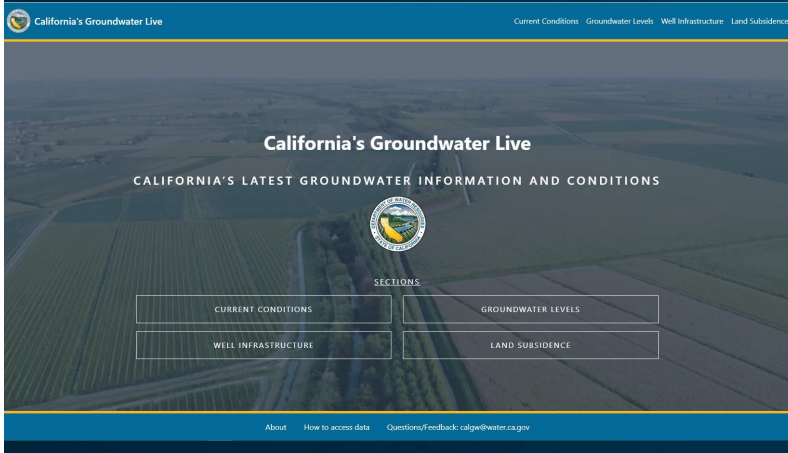
- Water Year and Precipitation Index
- NOAA Climate Prediction
- Groundwater Live
 - Groundwater Change Maps
 - Groundwater Trend Maps
- Land Subsidence (SGMA Dataviewer)



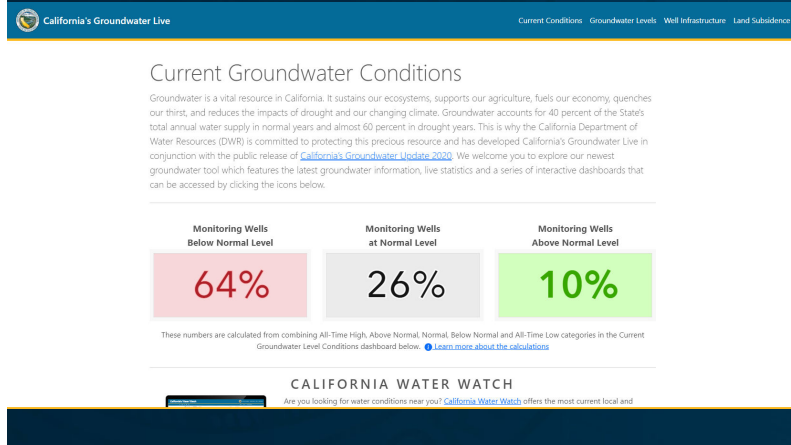
DWR staff conduct the first media snow survey of the 2023 season at Phillips Station in the Sierra Nevada on Jan. 3, 2023.



Groundwater Live Website Overview and Examples

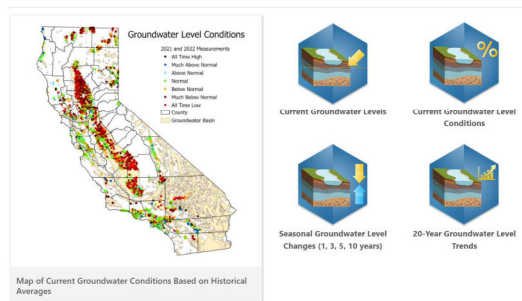


Statewide – Statistics based over the last 10 years

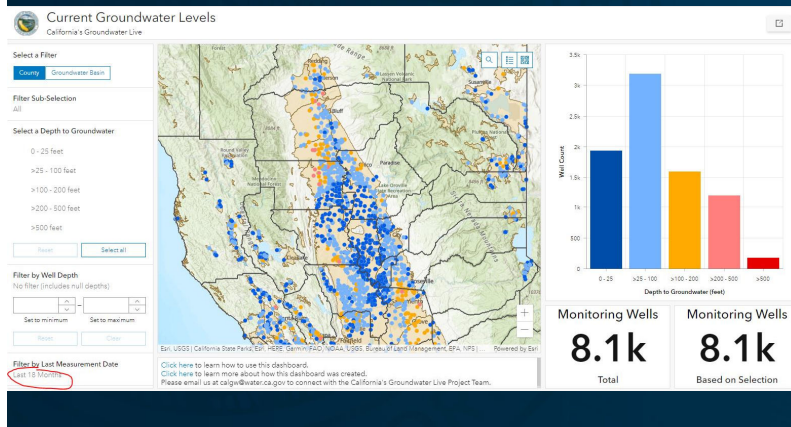


Current Groundwater Level Information

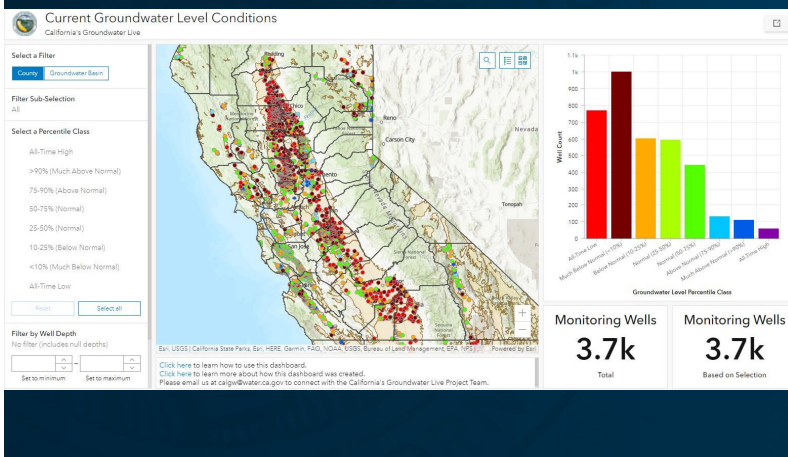
This section includes the latest groundwater level information from throughout California. Information for groundwater levels is based on DWR's groundwater level database, which includes all groundwater level measurements collected for the Sustainable Groundwater Management Act (SGMA) and the California Statewide Groundwater Elevation Monitoring (CASGEM) programs. Click on the links below to explore the four interactive and user-friendly dashboards, that detail California's well infrastructure



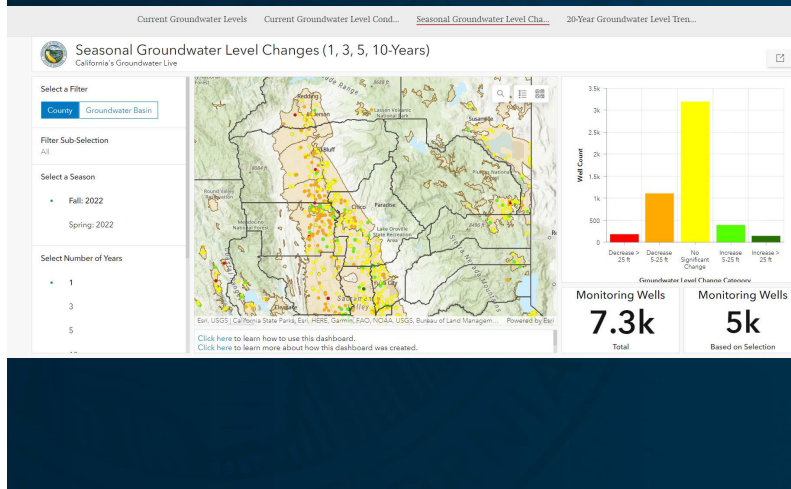
Statewide – Depths to groundwater



Statewide – Statistics based over the last 10 Years

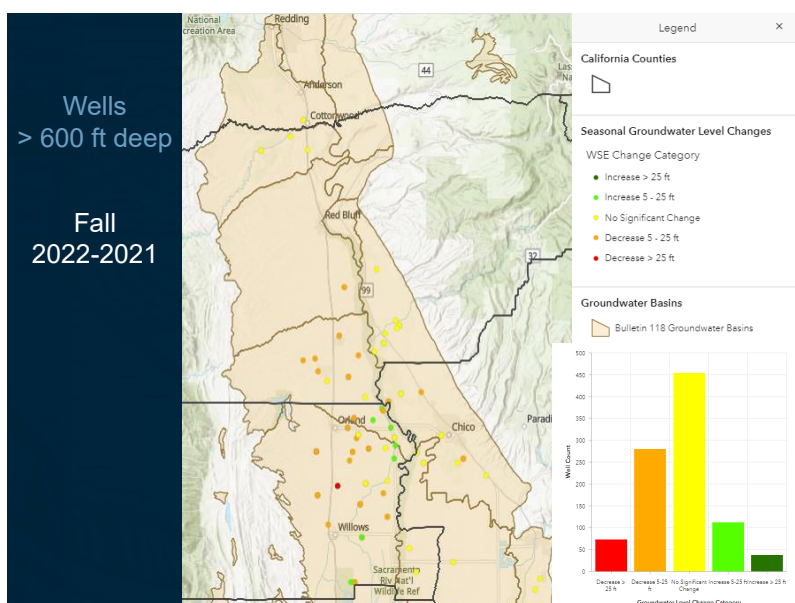
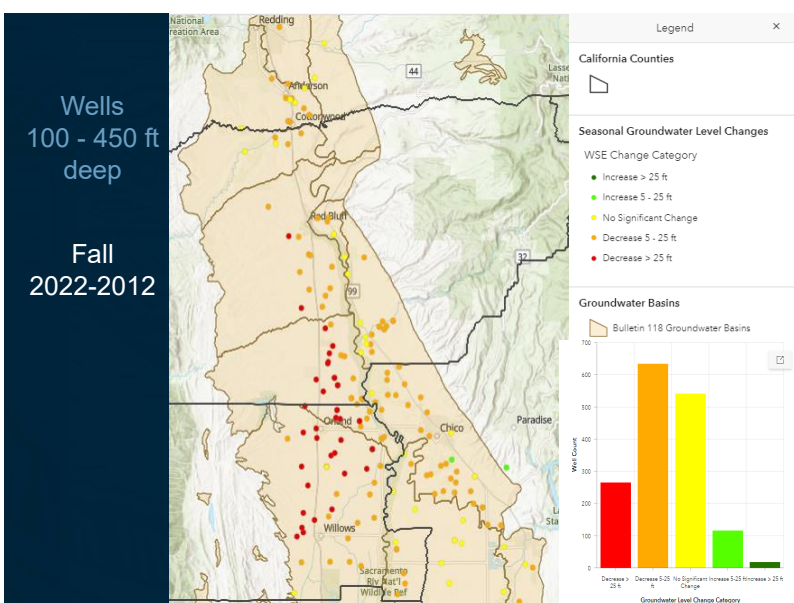
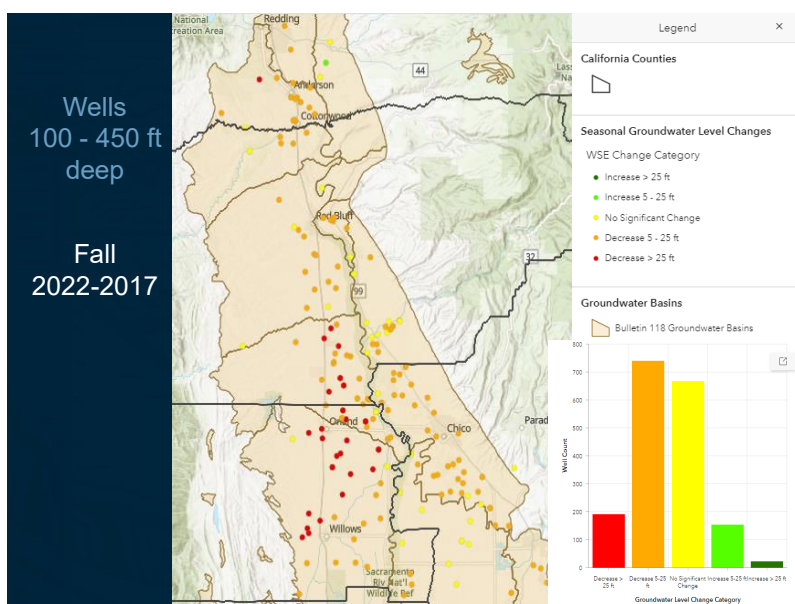
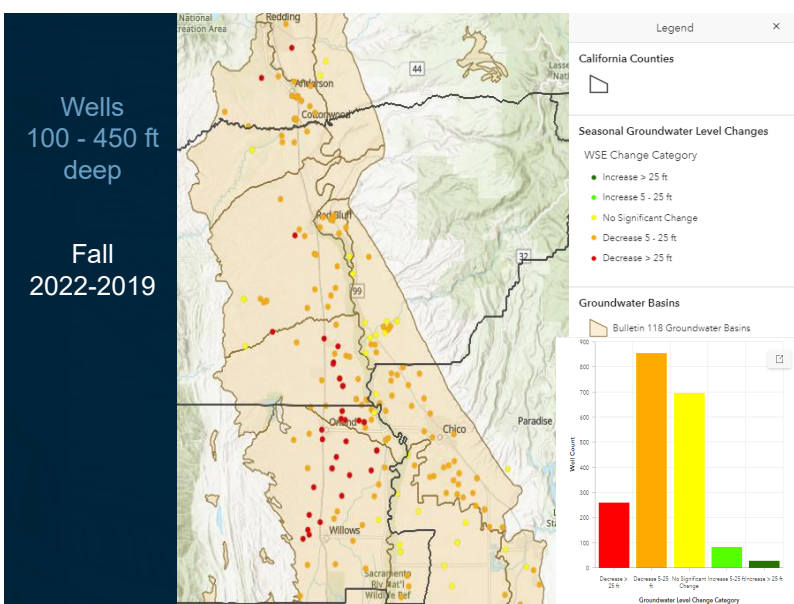
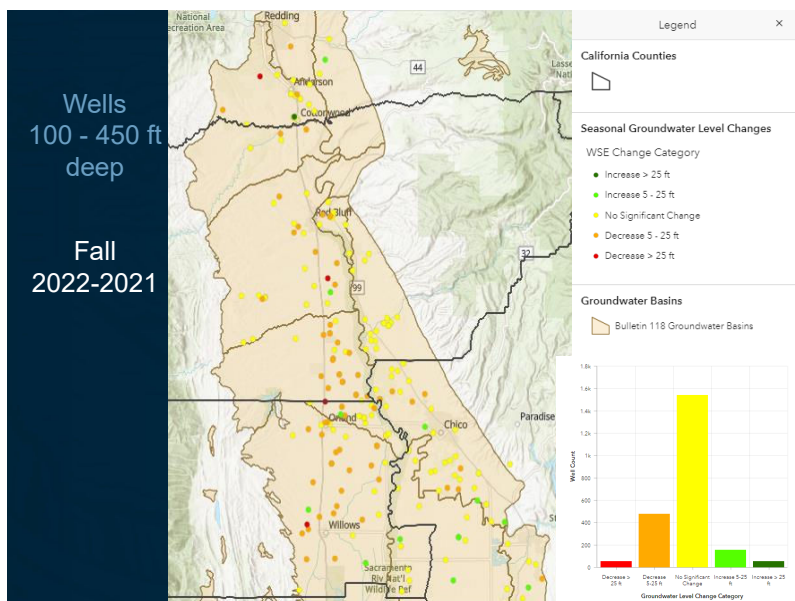


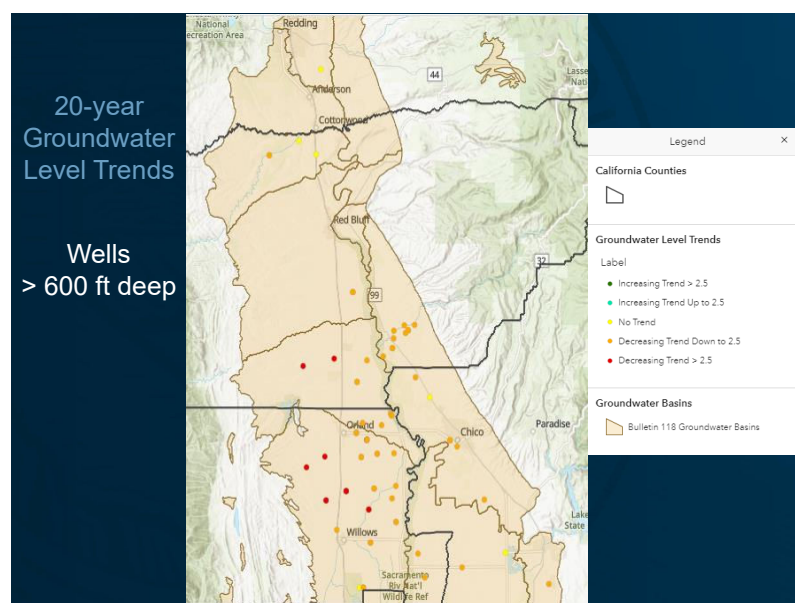
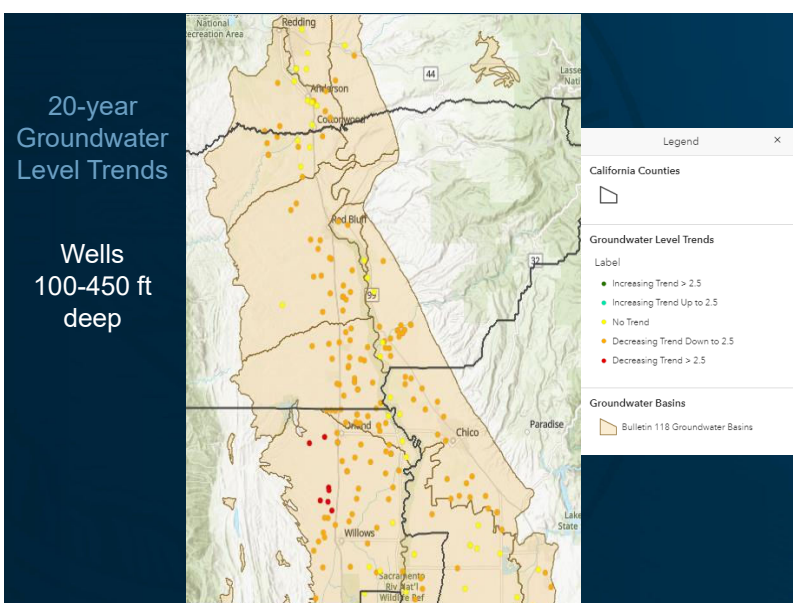
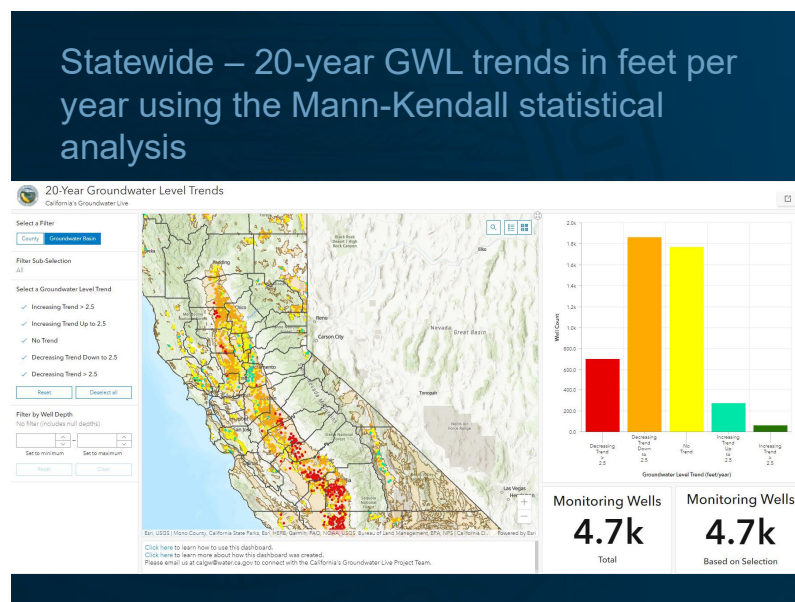
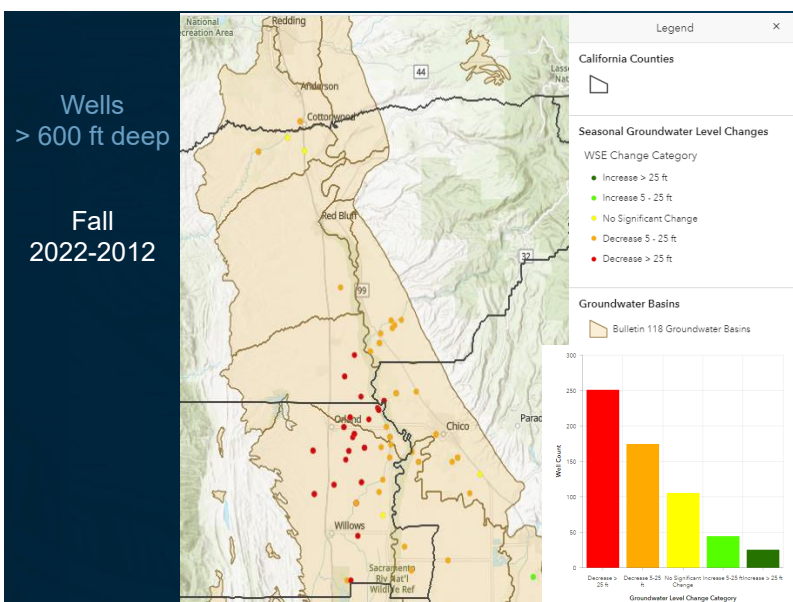
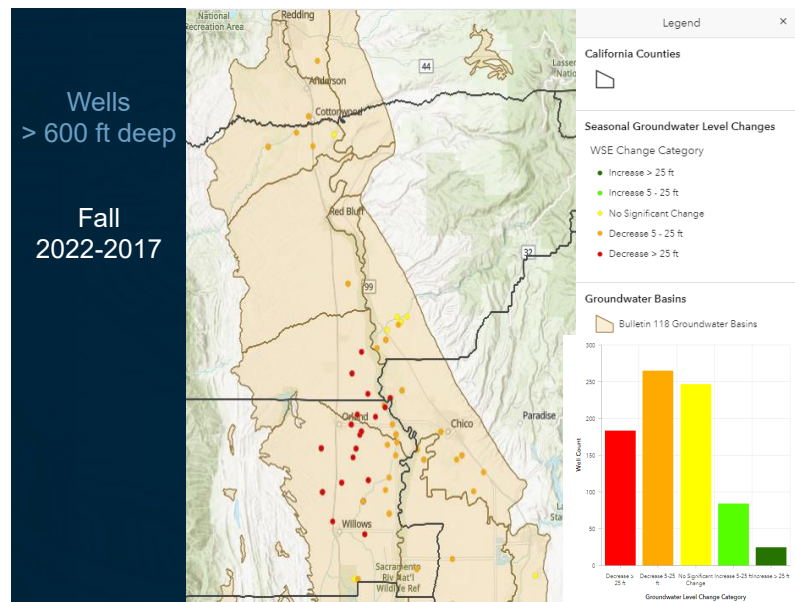
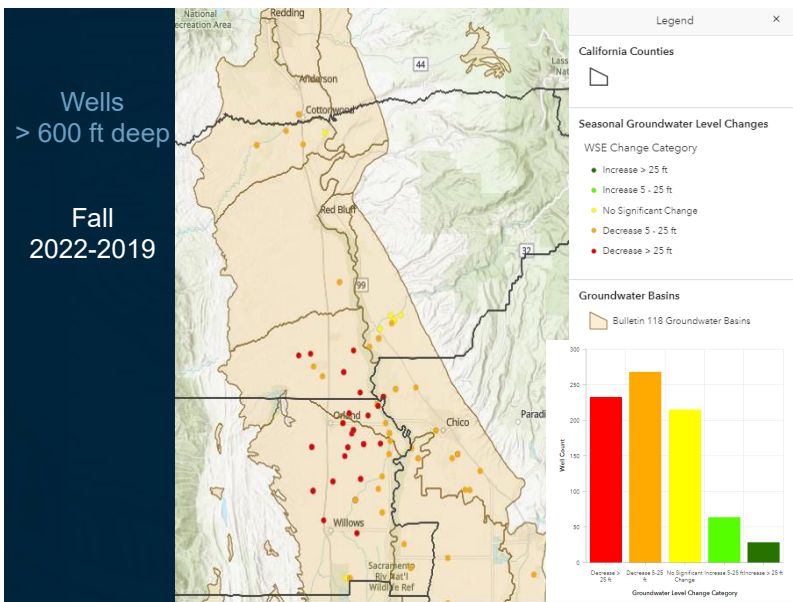
Seasonal Groundwater Level Changes

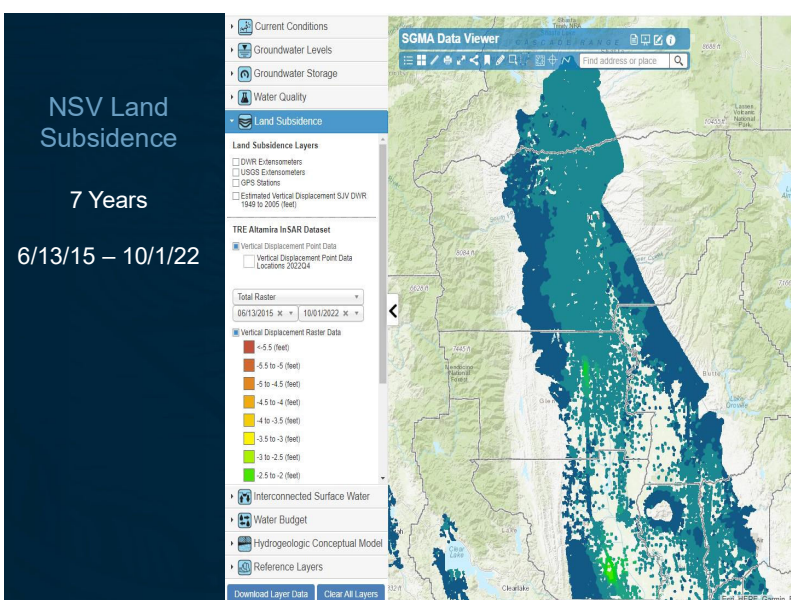
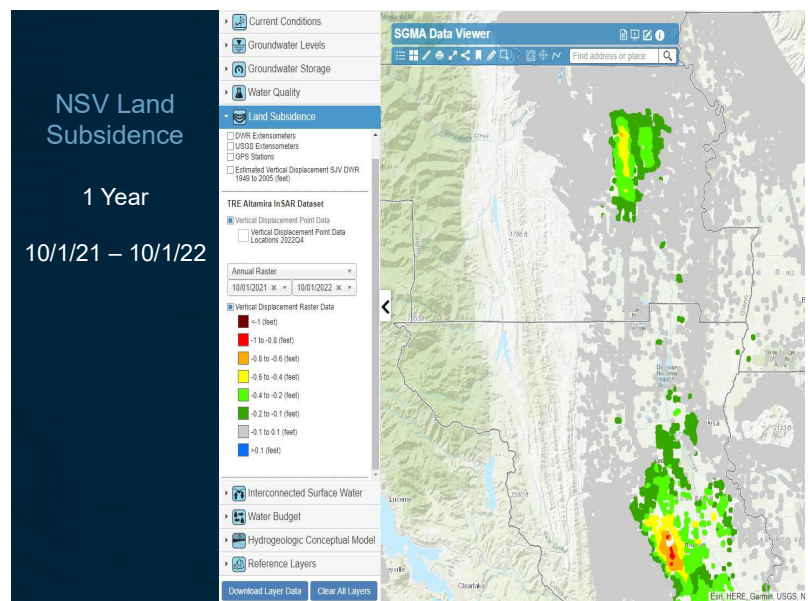
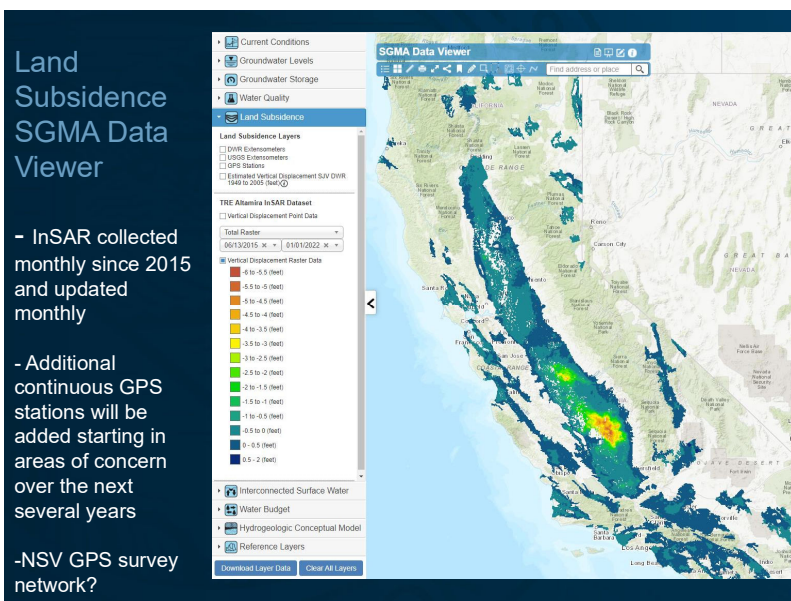


Change Maps of the NSV using California's Groundwater Live

- By well depth:
 - 100-450 ft. deep
 - > 600 ft. deep
- By 1,3,5,10 years
- Fall-Fall
 - 2022 - 2021
 - 2022 - 2019
 - 2022 - 2017
 - 2022 - 2012







Groundwater is a renewable resource and CAN be managed sustainably

Questions? Comments?

Thank You

<http://water.ca.gov/groundwater/>

Groundwater & Sustainable Groundwater Management

The [Sustainable Groundwater Management Act](#) (SGMA) provides a framework for Groundwater Sustainability Agencies (GSAs) to create plans describing how they will manage groundwater for long term sustainability. The plans are reviewed by DWR once they are submitted and every five years thereafter to determine if they are likely to achieve the sustainability goals.

[Get Involved with Groundwater Planning](#) - Getting involved in groundwater planning today will help ensure that everyone has a voice in the planning process and that your water needs are considered. Be a part of groundwater planning by first finding your local groundwater sustainability agency – called a GSA – on the [All Posted GSAs](#) section on DWR's website. Then, you can contact your GSA or visit the GSA's website and sign up to receive information. Next, make sure to attend meetings and workshops, share ideas, and comment on plans, activities, and projects as they are being developed. Years of overpumping groundwater caused problems in many areas of California – such as drying up wells and contaminating water making it unsafe to drink.

[DWR Groundwater Management Website](#) – If you're like 30 million of your California neighbors, there is groundwater under your feet. Groundwater is a critical buffer against the impacts of drought and climate change, and plays a vital role in maintaining California's economic and environmental sustainability. Groundwater is accessed through wells that pump water from underground to the surface. For years, some regions have pumped more groundwater than can be replenished, causing historically low groundwater levels in those areas. The [DWR Groundwater Management website](#) has links to the [SGMA Portal](#), [Groundwater Data and Tools](#), and [SGMA Assistance and Engagement](#). Also check out [Explore and Discover Information about Groundwater with DWR Apps](#).

[Connect with Your Groundwater Basin Point of Contact](#) - DWR has designated basin points of contact to assist local agencies as they develop and implement their plans and to assist with applications for Technical Support Services and Facilitation Support Services. Northern Region Office Groundwater Basin Contacts can be found here: [Northern Region Office SGMA Points of Contact \(ca.gov\)](#)

[California Environmental Quality Act Suspension Eligibility for Recharge Projects](#)- On March 28, 2022 Governor Newsom signed [Drought Executive Order N-7-22](#), in response to a third year of record drought conditions in California. Action 13 of the order includes the suspension of the California Environmental Quality Act (CEQA) for eligible groundwater recharge projects that mitigate drought impacts on groundwater conditions that take place on open or working lands. DWR Developed a fact sheet: [Executive Order 13 Fact Sheet \(ca.gov\)](#) and a Self-Certification Form: [Self-Certification for Groundwater Recharge Project Eligibility, Executive Order N-7-22 \(office.com\)](#) requesting DWR to review the eligibility of their groundwater recharge projects for CEQA suspension. The materials and information are posted on DWR's Drought Webpage, under the 'CEQA Suspension for Recharge Projects' accordion dropdown: [Drought \(ca.gov\)](#)

[Executive Order N-7-22 Action 9 Drought Well Permitting Requirements](#) - On March 28, 2022 Governor Newsom signed [Drought Executive Order N-7-22](#), in response to a third year of record drought conditions in California. Action 9 of the order requires additional considerations before the approval and issuance of a well permit due to the increasing severity of the current drought conditions including consultation with the Groundwater Sustainability Agency if the proposed well is located in a high or medium basin. Frequently Asked Questions document can be found at this link:

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Water-Basics/Drought/Files/Publications-And-Reports/FAQ-Documents/Executive-Order-N-7-22-Action-9_Ay11.pdf)

Bulletin 118 and Cal Groundwater Live – California’s Groundwater (Bulletin 118) is the State’s official publication on the occurrence and nature of groundwater in California (<https://water.ca.gov/programs/groundwater-management/bulletin-118>). The publication defines the groundwater basin boundaries and summarizes groundwater information for each of the State’s 10 hydrologic regions. DWR has also developed California’s Groundwater Live: (<https://sgma.water.ca.gov/CalGWLIVE/>) to improve the access and timeliness of groundwater data submitted by local agencies. California’s Groundwater Live is a web-based dashboard that utilizes many of the same data sets from the California’s Groundwater Update 2020 document and the California Natural Resources Agency Open Data Platform to improve the access and timeliness of groundwater data submitted by local agencies.

Airborne Electromagnetic (AEM) Surveys – The Department of Water Resources is conducting airborne electromagnetic (AEM) surveys in [California’s high- and medium-priority groundwater basins](#), where data collection is feasible, to assist local water managers as they implement the Sustainable Groundwater Management Act (SGMA) to manage groundwater for long term sustainability. The AEM project (<https://water.ca.gov/programs/sgma/aem>) provides state and federal agencies, groundwater sustainability agencies (GSAs), stakeholders, and the public with basin-specific and cross-basin geophysical data, tools, and analyses. During an AEM survey, a helicopter tows electronic equipment that sends signals into the ground which bounce back. The process has been compared to taking an MRI of the ground’s subsurface. The data collected is used to create continuous images that are interpreted for underground geology. Please visit the AEM Dataviewer [here](#): (scroll down to see the dashboard) for flightlines and resistivity data.

Dry Domestic Well Susceptibility Tool Available – DWR and State Board developed a dry well susceptibility tool to identify areas within groundwater basins throughout the State that may be prone to water supply shortages in drinking water wells. Susceptibility is identified based on recent groundwater level measurements and potential 5-year water level decline. The Dry Well Susceptibility Tool is housed on the [California’s Groundwater Live](#) web-based platform, which contains the latest information and data on groundwater conditions across the state. State and local agencies and well owners can use this tool to anticipate where wells may go dry based on historical conditions to inform drought preparedness decision-making. To use this tool, navigate to California’s Groundwater Live website and click the [Dry Domestic Well Susceptibility](#) tab. A fact sheet on this tool, as well as DWR’s Dry Well Reporting System, is [available here](#).

Drought – California is no stranger to drought; it is a recurring feature of our climate. We recently experienced the 5-year event of 2012-2016, and other notable historical droughts included 2007-09, 1987-92, 1976-77, and off-and-on dry conditions spanning more than a decade in the 1920s and 1930s. Drought can be a gradual phenomenon, occurring slowly over a period of time. Storage, whether in surface water reservoirs or in groundwater basins, buffers drought impacts and influences the timing of when drought impacts occur. Drought impacts are felt first by people most dependent on annual rainfall – such as ranchers using dryland range or rural residents relying on wells in low-yield rock formations. Drought impacts increase with the length of a drought, as carry-over supplies in reservoirs are depleted and water levels in groundwater basins decline. For more information on DWR Drought Activities please see: <https://water.ca.gov/drought> . Visit <https://drought.ca.gov/> for water shortage assistance and information. For drought funding please see: <https://water.ca.gov/Water-Basics/Drought/Drought-Funding>.

[Groundwater Exchange Shares Information and Resources](#) – Maven’s Notebook’s [Groundwater Exchange](#) is a central, collaborative and publicly accessible online resource center connecting water managers, water users, and community members with tools and resources to support the development and implementation of Groundwater Sustainability Plans (GSPs). While not a DWR website, DWR representatives have been on the Exchange’s Advisory Board since its inception as it supports the sharing of information and resources for SGMA implementation.

[Sustainable Groundwater Management, Round 2 Implementation Grant Solicitation Open until December 16, 2022](#) - Round 2 will provide over \$200 million from the General Fund and Proposition 68 for eligible applicants located within high and medium priority groundwater basins, including critically overdrafted basins. For more information including the Guidelines, Proposal Solicitation Package, workshop recorded presentation, FAQ : <https://water.ca.gov/work-with-us/grants-and-loans/sustainable-groundwater> . For more information on document releases, new solicitations, upcoming workshops, and other grant-related announcements, [subscribe](#) to the SGM Grant Program mailing list.

[SGMA Communication and Engagement](#) – Implementation of the SGMA necessitates timely, forthright, and consistent communication among all partners and stakeholders. Proactive outreach to, and engagement of, partners and stakeholders is essential to achieving sustainable groundwater management at the local and regional level. Local and regional agencies in turn must reach out to keep local citizens, groundwater users, and stakeholders informed. Additional information on SGMA Communication and Engagement including Tribal Engagement can be found [here](#). Tribal Point of Contacts at NRO include Tito Cervantes, Jessica Boyt, Pat Vellines, Tara George and Michelle Dooley.

[Technical Support Services \(TSS\) for SGMA](#) – This DWR program supports [Groundwater Sustainability Agencies \(GSAs\)](#) as they develop their [Groundwater Sustainability Plans \(GSPs\)](#). TSS’s goal is to provide [education, data, and tools](#) to GSAs to build the capacity needed to achieve sustainability. TSS is available to GSAs through our regional offices or contractors pending funding availability. [Critically overdrafted basins](#) have initial priority for this funding. Additional information can be found [here](#).

[Facilitation Support Services for SGMA](#) – This DWR program helps local agencies work through challenging water management situations. Under SGMA, [Groundwater Sustainability Agencies \(GSAs\)](#) must encourage the active involvement of diverse social, cultural, and economic interests. All beneficial uses and users of groundwater have to be considered, as GSAs develop SGMA mandated [Groundwater Sustainability Plans \(GSPs\)](#). Sometimes GSAs need the help of professional facilitators to foster discussions among diverse water management interests and local agencies. The FSS will help with development, and now, implementation of GSPs. Additional information can be found [here](#).

[Well Owner Information](#) – As many as two million water wells tap California’s groundwater, with approximately 7,000 to 15,000 new wells constructed each year. Groundwater supplies approximately 40 percent of California’s total water supply in average water years, and in some regions of the state, up to 60 percent in dry years. To protect this invaluable resource, we must ensure that wells are properly constructed and destroyed at the end of their useful lives, so they do not serve as a pathway for contaminants. DWR is responsible for developing minimum well standards for four types of wells, published as [DWR Bulletin 74](#) and for serving as the state clearinghouse for [Well Completion Reports](#). DWR is currently in the process of updating Bulletin 74, California Well Standards, last updated in 1991. Upon completion of the updated Bulletin 74, DWR will submit it to the State Water Resources Control Board for adoption into a Statewide Model Well Ordinance.

Integrated Regional Water Management (IRWM)

Integrated Regional Water Management (IRWM) is a voluntary, collaborative effort to manage all aspects of water resources in a region. [IRWM](#) crosses jurisdictional, watershed, and political boundaries; involves multiple agencies, stakeholders, individuals, and groups; and attempts to address the issues and differing perspectives of all the entities involved through mutually beneficial solutions. For the IRWM regions map click here: [IRWM Region Map | RoundTableofRegions](#). This approach delivers higher value for investments by considering all interests, providing multiple benefits, and working across jurisdictional boundaries. Examples of multiple benefits include improved water quality, better flood management, restored and enhanced ecosystems, and more reliable surface and groundwater supplies.

IRWM Implementation Grant - The IRWM Implementation Grant Program provides funding for implementation projects that meet the intent of [Proposition 1, Chapter 7](#). Approximately \$403 million in grant funding is being made available for implementation projects with at least \$51 million being made available for projects that provide benefits to [Disadvantaged Communities](#). DWR is awarding grants on a competitive basis in two funding rounds. To apply for grants through this program, project proponents must coordinate through their established [IRWM Regional Water Management Group](#), and the Regional Group must in turn coordinate with other groups within the Proposition 1 IRWM Funding Area. In May 2022, DWR issued the final 2022 IRWM Grant Program Guidelines and the Round 2 Implementation Grant Proposal Solicitation Package, making approximately \$193 million available and initiating the solicitation process. This solicitation consists of two application deadlines: Cycle 1 applications were due August 19, 2022, and Cycle 2 applications are due February 1, 2023. The 2022 Final Guidelines and Program Solicitation Package can be found [here](#).

Flood Management

California's geography and weather are the most diverse in the nation, resulting in a variety of natural hazards including flooding. DWR is committed to sustainable flood management. To use limited resources more effectively, we align our flood management efforts and leverage funding with other regional efforts, such as water supply, environmental enhancements, and transportation projects. When planning and executing projects, DWR considers a broad range of potential benefits to improve their value to Californians and their communities. Communities and citizens have to be proactive about flooding and mitigating flood risks. Additional information can be found [here](#).

Wildfires Lead to Increased Flood Risks: Be Prepared, Stay Alert - California has experienced record-breaking wildfires in 2020 with more than 4 million acres burned, increasing the risk of flash flooding along with mud and debris flows to communities and homes downslope of burn areas. The impacts caused by wildfires can be drastic when it comes to flood risk. In normal conditions, trees, shrubs, grass, and other protective groundcover allow rainfall to infiltrate into the soil. After a wildfire, the extreme heat can bake the soil to the point that water is unable to penetrate and can cause excessive run off in a post-wildfire area. Due to these changes, even a small storm system occurring over burn areas can cause flash flooding. Mud and debris flows can occur up to five years after a wildfire. Debris flows can take homes off their foundations and carry away vegetation, trees, large boulders, and vehicles. Mudflows are a fast moving combination of water and soil. Both happen fast, so heed evacuation warnings. Stay alert and be prepared before flooding occurs. Being ready also means knowing when to evacuate. Additional information is available [here](#).

Flood Frequently Asked Questions (FAQs) – DWR provides a [list](#) of answers to Flood FAQs.

Flood Risk Notification – Millions of Californians are at risk from flooding along thousands of miles of streams, rivers, lakes and coastline. Floods can bring devastating impacts to regions and no one can predict when and where floods will occur. But hydrologic engineers and other experts can estimate the likelihood of annual flood flows and stages that could occur in any particular location with collected data. Flood information can be used to estimate average annual damage. Flood Risk Notification information is available [here](#). Dam Breach Inundation Interactive Map is located here: <https://fmds.water.ca.gov/maps/damim/>.

Flood-Managed Aquifer Recharge (Flood-MAR) - “Flood-MAR” is an integrated and voluntary resource management strategy that uses flood water resulting from, or in anticipation of, rainfall or snow melt for managed aquifer recharge (MAR) on agricultural lands and working landscapes, including but not limited to refuges, floodplains, and flood bypasses. Flood-MAR can be implemented at multiple scales, from individual landowners diverting flood water with existing infrastructure, to using extensive detention/recharge areas and modernizing flood management infrastructure/operations. Additional information can be found [here](#).

California Water Plan

The California Water Plan is the State's strategic plan for sustainably managing and developing water resources for current and future generations. Required by Water Code Section 10005(a), it presents the status and trends of California's water-dependent natural resources; water supplies; and agricultural, urban, and environmental water demands for a range of plausible future scenarios.

California Water Plan Update - California Water Plan Update 2018 (next update 2023) provides recommended actions, funding scenarios, and an investment strategy to bolster efforts by water and resource managers, planners, and decision-makers to overcome California's most pressing water resource challenges. It reaffirms State government's unique role and commitment to sustainable, equitable, long-term water resource management; it also introduces implementation tools to inform sound decision-making. The plan's broad and diverse portfolio of recommended actions address California's critical, systemic, and institutional challenges. Additional information is available [here](#).

Tribal Water Summit - The next Tribal Water Summit will take place on April 11-13, 2023 in Sacramento (<https://water.ca.gov/Programs/California-Water-Plan/Water-Plan-Participation/Tribal-Water-Summit>) The Summit will convene Tribal, State, and Federal leaders to discuss water issues and strategies towards watershed resilience of California's sacred waters. Proceedings from this Summit will help inform State water policy and advance issues of equity, access and incorporation of Tribal Ecological Knowledge in the [California Water Plan Update 2023](#).

Other Information

Central Valley Flood Protection Plan (CVFPP) – The 2022 CVFPP Update evaluates progress made since passage of major State Bonds in 2007 and recommends future management actions led by State, Federal, and local partners to continue implementation of the CVFPP. The 2022 CVFPP Update focuses on 3 key themes: Climate Resilience, Performance Tracking and Alignment with other State Efforts. The 2022 Update ([Central Valley Flood Protection Plan Update 2022 \(ca.gov\)](#)) continues to build on the work completed over the last 15 years to better understand and develop priorities to improve flood risk management in the Central Valley. It recommends priority actions to address flood risk in the face of climate change.

Climate Change – Climate change is having a profound impact on California's water resources, as evidenced by greater weather extremes, reduced snowpack, higher sea level, and changes in river

flows. Models predict that more precipitation will fall as rain instead of snow, exacerbating flood risks and creating additional challenges for water supply reliability. These impacts are expected to intensify in the future. Managing climate change and its impact of water supply is one of DWR's core values. DWR's climate change program implements climate mitigation and adaptation measures to ensure that Californians have an adequate water supply, reliable flood control, and healthy ecosystems, now and in the future. Watch Elissa Lynn, DWR Climate Change Program Section Chief, give a presentation on YouTube, [California Climate, Climate Change, and Atmospheric Rivers](#). Additional information is available [here](#). Additionally DWR announces new Climate Change Team that will provide science-based leadership to help build resiliency and equity in water management ([DWR Announces New Climate Change Team \(ca.gov\)](#)).

Current Conditions – On average, 75 percent of California's annual statewide precipitation occurs from November through March. 50 percent occurs from December through February, coinciding with the timing of California's largest winter storms. Our average precipitation is dependent on a relatively small number of storms; a few storms more or less during the winter season can determine if the year will be wet or dry. A year will tend to be dry if a persistent Pacific high-pressure zone remains over California in midwinter and blocks storms that would otherwise reach us. Droughts occur when dry conditions persist long enough to create impacts. This [link](#) provides a quick overview of California's basic conditions at a regional or statewide scale.

State Water Project Allocation of 5 percent – The Department of Water Resources (DWR) announced an initial State Water Project (SWP) allocation of 5 percent of requested supplies for 2023. The SWP provides water to 29 public water agencies that serve 27 million Californians. As the state prepares for a fourth dry year and continued extreme drought conditions in California, DWR will also assess requests for additional water that may be necessary for health and safety including minimum domestic, sanitation, and fire suppression needs. For more information click [here](#).

Questions? Please contact Pat Vellines at Patricia.Vellines@water.ca.gov.

Lisa Hunter

From: BCWater <BCWaterFrontDeskHG@buttecounty.net>
Sent: Thursday, May 25, 2023 8:35 AM
To: BCWater
Cc: Lisa Hunter; Buck, Christina; 'grivera@co.sutter.ca.us'
Subject: FW: NSV IRWM Funding Recommendation Announcement
Attachments: Round 2 Final Funding Recommendations- Mountain Counties.pdf; Final Funding Recommendations- Sacramento River.pdf

This past week, the NSV IRWM received fantastic news. DWR has recommended funding for the NSV Region under the Prop 1, Round 2 IRWM Implementation Grant Program. The funding recommendations include the following:

Mountain County Funding Area

Project 1: Butte County Fire Safe Council – Berry Creek Forest Health and Watershed Protection Project, \$296,232

Project 2: Lake Madrone Water District – Lake Madrone Replacement of the Potable Water Distribution System, \$800,000

Grant Administration, \$50,000

Total: \$1,146,232

Sacramento River Funding Area

Project 1: Spiva Ave Water Main - City of Yuba City, \$375,000

Project 2: Northern Sacramento Valley Mobile Irrigation Lab, \$200,000

Project 3: Arbuckle Area Groundwater Recharge Demonstration and Pilot Project, \$545,000

Grant Administration, \$80,000

Total: 1,200,000

The DWR Funding Recommendation Summaries are attached.

Lisa Hunter
Glenn County
Water Resource Coordinator
(530) 934-6540
www.countyofglenn.net



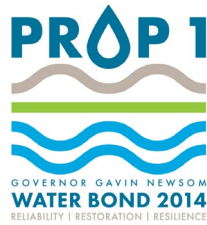
Final Funding Recommendations – Round 2 Integrated Regional Water Management (IRWM) Implementation Grant Solicitation

Funding Area: Mountain Counties

Cycle 2 Award: \$4,729,029

IRWM Region: Cosumnes, American, Bear, Yuba (CABY) Applicant: South Yuba River Citizens League						
Project Name	Project Implementing Agency	Primary Benefit	DAC Implementation Funds		General Implementation Funds	
			Requested	Awarded	Requested	Awarded
Grant Administration	South Yuba River Citizens League	N/A			\$177,582	\$177,582
Memorial Park Magenta Drain Restoration Project	City of Grass Valley	Water Quality			\$319,848	\$319,848
Loney Meadow Long Term Analysis: Quantifying Impacts of Restoration on Hydrology	South Yuba River Citizens League	Water Supply (Surface)			\$22,500	\$22,500
Haskell Peak Meadows Restoration	South Yuba River Citizens League	Water Supply (Surface)	\$267,315			\$267,315
Access to Fuel Reduction Resources for DAC Communities	Sierra Fund	Water Quality	\$358,986			\$358,986
Totals:			\$626,301	\$0	\$519,930	\$1,146,231
			Total Final Award		\$1,146,231	

IRWM Region: Madera Applicant: Madera County Public Works						
Project Name	Project Implementing Agency	Primary Benefit	DAC Implementation Funds		General Implementation Funds	
			Requested	Awarded	Requested	Awarded
Grant Administration	Madera County	N/A			\$50,000	\$50,000
MD-58 Sierra Highlands Water Treatment Project	Madera County	Water Supply (groundwater)	\$544,783			\$544,783
Totals:			\$544,783	\$0	\$50,000	\$594,783
			Total Final Award		\$594,783	



Final Funding Recommendations – Round 2 Integrated Regional Water Management (IRWM) Implementation Grant Solicitation

IRWM Region: North Sacramento Valley		Applicant: Butte County Department of Water and Resource Conservation District				
Project Name	Project Implementing Agency	Primary Benefit	DAC Implementation Funds		General Implementation Funds	
			Requested	Awarded	Requested	Awarded
Grant Administration	Butte County Department of Water and Resource Conservation District	N/A			\$50,000	\$50,000
Berry Creek Forest Health and Watershed Protection Project	Butte County Fire Safe Council	Water Supply	\$296,232			\$296,232
Lake Madrone Replacement of the Potable Water Distribution System	Lake Madrone Water District	Water Supply Reliability	\$800,000			\$800,000
Totals:			\$1,096,232	\$0	\$50,000	\$1,146,232
			Total Final Award		\$1,146,232*	

*This award is conditional based upon complete resolution of project eligibility issues prior to agreement execution with DWR.

IRWM Region: Southern Sierra		Applicant: Sierra Resource Conservation District				
Project Name	Project Implementing Agency	Primary Benefit	DAC Implementation Funds		General Implementation Funds	
			Requested	Awarded	Requested	Awarded
Grant Administration	Sierra Resource Conservation District	N/A			\$65,667	\$65,667
Post-Fire strategic analysis of critical watersheds for domestic/community groundwater systems and development of a Decision Support Tool (DST) for implementation	Sierra Resource Conservation District, CSU-East Bay, Lawrence Livermore National Laboratory	Water Quality			\$130,000	\$130,000
A decision-support tool for mapping climate change and wildfire effects on Southern Sierra Nevada streamflow and sediment yield	University of California, Merced	Water Supply Reliability			\$275,000	\$275,000
Post-Fire Headwaters Restoration -- Big Dry Creek and Jose Creek Watersheds of the upper San Joaquin River	Sierra Resource Conservation District	Water Quality			\$500,000	\$500,000
Alder Springs Community Water System Interconnection and Enhancement	Sierra Resource Conservation District	Water Supply (groundwater)			\$125,000	\$125,000
Totals:			\$0	\$0	\$1,095,667	\$1,095,667
			Total Final Award		\$1,095,667	



Final Funding Recommendations – Round 2 Integrated Regional Water Management (IRWM) Implementation Grant Solicitation

IRWM Region: Tuolumne-Stanislaus			Applicant: Tuolumne Stanislaus Integrated Regional Water Management Authority			
Project Name	Project Implementing Agency	Primary Benefit	DAC Implementation Funds		General Implementation Funds	
			Requested	Awarded	Requested	Awarded
Grant Administration	Tuolumne Stanislaus Integrated Regional Water Management Authority	N/A			\$29,000	\$29,000
ATCAA Low-Income Household Water Conservation	Amador Tuolumne Community Action Agency (ATCAA)	Water Conservation	\$263,000			\$263,000
Totals:			\$263,000	\$0	\$29,000	\$292,000
			Total Final Award		\$292,000	

IRWM Region: Yuba County			Applicant: Camptonville Community Services District			
Project Name	Project Implementing Agency	Primary Benefit	DAC Implementation Funds		General Implementation Funds	
			Requested	Awarded	Requested	Awarded
Grant Administration	Camptonville Community Services District	N/A			\$0	\$0
Chlorine Contact Tank Replacement and Treatment Plant Upgrades	Camptonville Community Services District	Water Supply Reliability	\$454,116	\$142,263		\$311,853
Totals:			\$454,116	\$142,263	\$0	\$311,853
			Total Final Award		\$454,116	



Final Funding Recommendations – Round 2 Integrated Regional Water Management (IRWM) Implementation Grant Solicitation

Funding Area: Sacramento River

Cycle 2 Award: \$1,677,000

IRWM Region: North Sacramento Valley			Applicant: Sutter County Development Services			
Project Name	Project Implementing Agency	Primary Benefit	DAC Implementation Funds		General Implementation Funds	
			Requested	Awarded	Requested	Awarded
Grant Administration	Sutter County Development Services	N/A			\$80,000	\$80,000
Spiva Avenue Water Main Replacement - Clark Avenue to Cooper Avenue	City of Yuba City	Water Supply (Surface)	\$375,000			\$375,000
Northern Sacramento Valley Mobile Irrigation Lab (MIL)	Resource Conservation District Tehama County	Water Conservation			\$200,000	\$200,000
Arbuckle Area Groundwater Recharge Demonstration and Pilot Project	Colusa County Water District	Groundwater Recharge	\$545,000			\$545,000
Totals:			\$920,000	\$0	\$280,000	\$1,200,000
			Total Final Award		\$1,200,000	

IRWM Region: Upper Sacramento-McCloud			Applicant: Trout Unlimited- South Coast 923			
Project Name	Project Implementing Agency	Primary Benefit	DAC Implementation Funds		General Implementation Funds	
			Requested	Awarded	Requested	Awarded
Grant Administration	Trout Unlimited- South Coast 923	N/A			\$21,250	\$21,250
Improved Water Outcomes Through Nature Based Solutions	Trout Unlimited- South Coast 923	Water Supply Reliability	\$455,750			\$455,750
Totals:			\$455,750	\$0	\$21,250	\$477,000
			Total Final Award		\$477,000	