



# YSGA BOARD OF DIRECTORS MEETING

March 20, 2023

# Agenda

1. **Call to Order and Determination of Quorum**
2. Adding Items to the Posted Agenda
3. Public Forum
4. CONSIDERATION - Consent Items
5. CONSIDERATION - Financial Items
  - Authorize Executive Officer to Enter into Agreement with LSCE and Proceed with Fee Study
  - Approve Cost Share Contribution to Update Subbasin Model and Incorporate Dunnigan Area Recharge Program
6. NCWA Update on Water Legislation, Regulatory, & Delta Issues
7. DWR Update
8. Report of the Chair and Executive Officer
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10. Groundwater Sustainability Plan Implementation Update
  - Review of Annual Report for Water Year 2022
  - Areas of Special Concern: Summary Update on Northwest of Winters
11. Members Reports and Future Agenda Items
12. Next Meeting - June 19, 2023
13. Adjournment

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# Consideration: Consent Items

- a) Approve January 20, 2023 Board of Directors Meeting Minutes
- b) Receive Fiscal Year 2022-2023 Financial Statements: January 20 - March 15, 2023
- c) Receive minutes of Executive Committee: 1/17/23

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# Investigation of Long-Term Funding Strategies

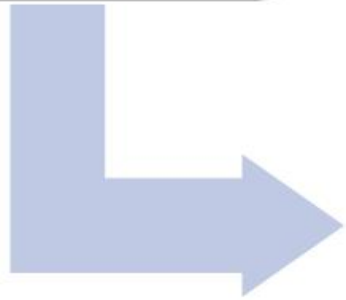
## **LSCE to Assist YSGA with Documenting Key Items in Technical Memorandum (TM):**

- Develop Five Year Revenue Projections
  - Consider Viable Cost Allocation Options
  - Provide Metrics on Future Charges
  - Provide Recommended Scope of Work for Long-Term Fee Study
- 
- Met with Ad Hoc Committee for Reconsideration of Voting Structure and Expense Allocation on 2/24

# Long Term GSA Fee – Development Process

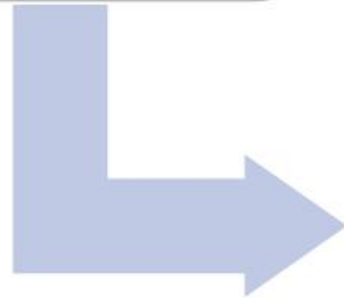
Establish Revenue Needs  
(Operational and Implementation Costs)

- Revenue needs – GSA operations
- Revenue needs – SGMA Compliance
- Five-year Revenue Projections – planning horizon
- Adequate for GSA to comply with SGMA
- Meet GSA financial assurance/sustainability goal



Cost Allocation

- By type – operations vs. implementation
- By Subbasin GSA – weighted by effort
- By use – weight by groundwater use
- Proportional relative to user costs and service/benefit received



Proposed Fees/Charges

- Public notification
- Stakeholder outreach
- Public hearing and majority protest

# Yolo GSA – Updated Revenue Projections For GSP Implementation and SGMA Compliance

## SCENARIO 2: NO GRANT FUNDS

Table 2. YOLO SUBBASIN GSA - Long Term Funding Strategy TM					
Draft Five-Year GSA Operational Budget - GSP Implementation and SGMA Compliance Costs					
5-Year GSP Implementation Inflation Adjustment	0%	3%	3%	3%	3%
Proposed	Year 1	Year 2	Year 3	Year 4	Year 5
Cost Category-GSA Administration	2024	2025	2026	2027	2028
Project Management, SGMA Implementation (YFCWCDC)	\$251,000	\$251,000	\$251,000	\$251,000	\$251,000
Admin. Expenses (copies/postage/website/DMS Hosting)	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Legal Services	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Audit Service - Financial	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Bank & Other Fees	\$750	\$750	\$750	\$750	\$750
Insurance - General & Auto	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
Membership Dues	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Consultant Services	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Contingency (10%)	\$44,125	\$44,125	\$44,125	\$44,125	\$44,125
<b>GSA Administration Sub-Total</b>	<b>\$485,375</b>	<b>\$485,375</b>	<b>\$485,375</b>	<b>\$485,375</b>	<b>\$485,375</b>
5-Year GSP Cost Re-Allocation	0%	3%	3%	3%	3%
Cost Category-SGMA Compliance	2024	2025	2026	2027	2028
Annual Monitoring and Reporting	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Five Year GSP Update w/Modeling Calibrations	\$112,500	\$112,500	\$112,500	\$112,500	\$90,000
Surface-GW Interaction Modeling	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
GSA Coordination & Outreach (w/in and between GSAs)	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Data Management System Maintenance	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Long Term Financial Planning/Fees	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Grant Procurement	\$0	\$0	\$0	\$0	\$0
Contingency (10%)	\$28,750	\$28,750	\$28,750	\$28,750	\$26,500
<b>SGMA Compliance Sub-Total</b>	<b>\$316,250</b>	<b>\$316,250</b>	<b>\$316,250</b>	<b>\$316,250</b>	<b>\$291,500</b>
<b>TOTAL YGSA Administration (w/3% inflation adj.)</b>	<b>\$485,375</b>	<b>\$499,936</b>	<b>\$514,498</b>	<b>\$529,059</b>	<b>\$543,620</b>
<b>TOTAL YGSA SGMA Compliance (w/3% inflation adj.)</b>	<b>\$316,250</b>	<b>\$325,738</b>	<b>\$335,225</b>	<b>\$344,713</b>	<b>\$326,480</b>
<b>TOTAL YGSA Operational Budget</b>	<b>\$801,625</b>	<b>\$825,674</b>	<b>\$849,723</b>	<b>\$873,771</b>	<b>\$870,100</b>



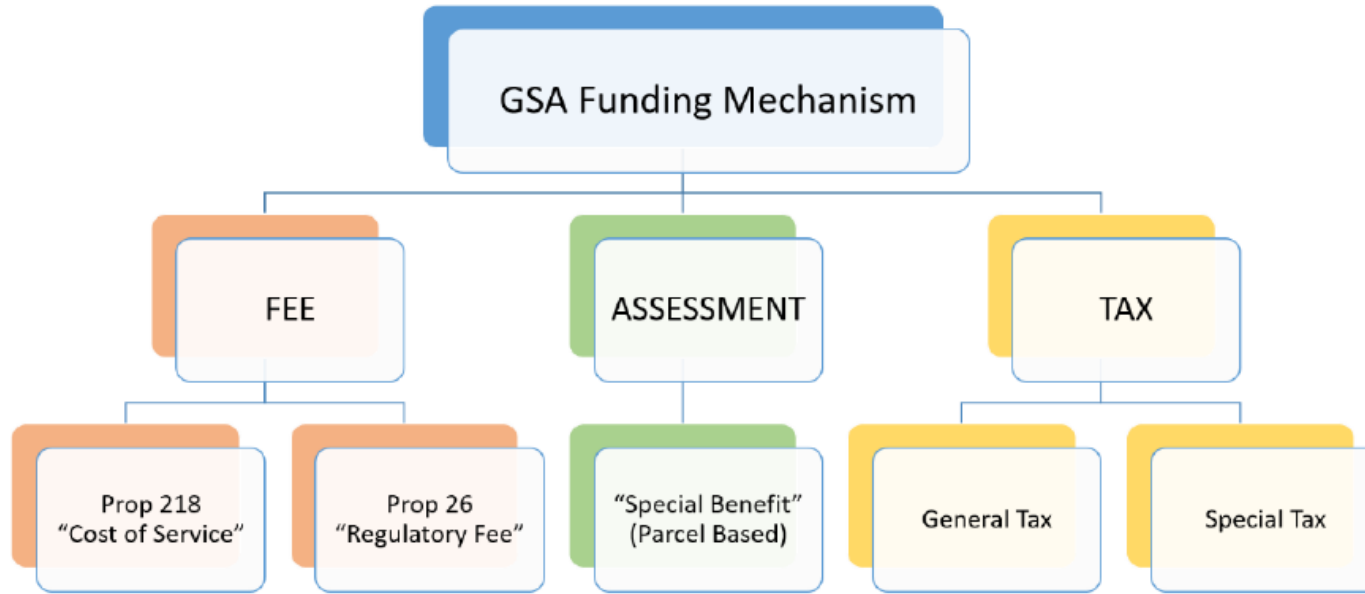
# Yolo GSA – Updated Revenue Projections For GSP Implementation and SGMA Compliance

Revenue projections  
lower if DWR grant funds  
awarded in June 2023.

SCENARIO 1: WITH Round 2 SGMA IMPLEMENTATION GRANT FUNDS (GSP Implementation Project Only)					
YOLO SUBBASIN GSA - Long Term Funding Strategy TM					
Five-Year GSA Operational Budget - GSP Implementation and SGMA Compliance Costs					
5-Year GSP Implementation Inflation Adjustment	0%	3%	3%	3%	3%
Proposed	Year 1	Year 2	Year 3	Year 4	Year 5
Cost Category-GSA Administration	2024	2025	2026	2027	2028
Project Management, SGMA Implementation (YCFWCWD)	\$251,000	\$251,000	\$251,000	\$251,000	\$251,000
Admin. Expenses (copies/postage/website/DMS Hosting)	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Legal Services	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Audit Service - Financial	\$9,000	\$9,000	\$9,000	\$9,000	\$9,000
Bank & Other Fees	\$750	\$750	\$750	\$750	\$750
Insurance - General & Auto	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
Membership Dues	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Consultant Services	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Contingency (10%)	\$44,125	\$44,125	\$44,125	\$44,125	\$44,125
<b>Sub-Total</b>	<b>\$485,375</b>	<b>\$485,375</b>	<b>\$485,375</b>	<b>\$485,375</b>	<b>\$485,375</b>
5-Year GSP Cost Re-Allocation	0%	3%	3%	3%	3%
Cost Category-SGMA Compliance	2024	2025	2026	2027	2028
Annual Monitoring and Reporting (*)	\$0	\$0	\$0	\$0	\$0
Five Year GSP Update w/Modeling Calibrations	\$112,500	\$112,500	\$112,500	\$112,500	\$90,000
Surface-GW Interaction Modeling (*)	\$0	\$0	\$0	\$0	\$0
GSA Coordination & Outreach (w/in and between GSAs) (*)	\$0	\$0	\$0	\$0	\$0
Data Management System Maintenance (*)	\$0	\$0	\$0	\$0	\$0
Long Term Financial Planning/Fees	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Grant Procurement	\$0	\$0	\$0	\$0	\$0
Contingency (10%)	\$12,750	\$12,750	\$12,750	\$12,750	\$10,500
<b>Sub-Total</b>	<b>\$140,250</b>	<b>\$140,250</b>	<b>\$140,250</b>	<b>\$140,250</b>	<b>\$115,500</b>
<b>TOTAL YGSA Administration (w/3% inflation adj.)</b>	<b>\$485,375</b>	<b>\$499,936</b>	<b>\$514,498</b>	<b>\$529,059</b>	<b>\$543,620</b>
<b>TOTAL YGSA SGMA Compliance (w/3% inflation adj.)</b>	<b>\$140,250</b>	<b>\$144,458</b>	<b>\$148,665</b>	<b>\$152,873</b>	<b>\$129,360</b>
<b>TOTAL YGSA Operational Budget</b>	<b>\$625,625</b>	<b>\$644,394</b>	<b>\$663,163</b>	<b>\$681,931</b>	<b>\$672,980</b>



# Available GSA Funding Options



- Due to Constitutional limitations imposed through California's Propositions 13, 218, and 26, there are strict distinctions between, and regulations associated with, fees, special assessments, and taxes.
- Taxes and assessments require voter approval.
- Property-related fees and assessments under Proposition 218 are subject to noticing, a majority protest proceeding, and when required, a subsequent ratification election.
- However, fees, as well as other charges, are identified as exempt from the definition of a tax under Proposition 26, and thus can be adopted by the governing body of the Agency imposing the fee.



# Yolo GSA – Typical Long Term Fee Options

## FEE OPTIONS

- No Project – State Intervention (typically higher than local fees)
- Parcel Charge - \$/acre (with minimal charge)
- Irrigation Charge - \$/ac-foot pumped (if metered)
- Other Land Use Based Hybrids – tiers (if data is available)
- Review other GSA fees in CA as of 2022 for reference

# Yolo GSA – Basis For Long Term Fee Options

## BASED ON AVAILABLE PARCEL LEVEL DATA

- Parcel exemptions – Federal/State/Tribal
- Parcel location, size and boundaries (boundary conditions)
- Consider Land IQ 2022 parcel information
- Land use designations
- Water source (sometimes known)
- Water use (typically GSA accounts have been unmetered with no water use records available)

# Yolo GSA – Options Evaluation Criteria

## COMMON OPTION EVALUATION CRITERIA

- Revenue Sufficiency – Meets revenue projection targets
- Revenue Stability – over fee implementation period
- All Beneficiaries Pay – important for SGMA compliance benefit
- Equity – cost allocation
- Affordability – economic impacts
- Simplicity – easy to understand
- Administrative ease – low implementation costs
- Enforceability – potential costs for more complex fee structures
- Legality – defensible, challenge risk, potential long term legal fees

# Yolo GSA – Options Evaluation

## BASED ON BOARD DIRECTION

- Consider available parcel level data
- Consider legality and challenge risk
- Consider budget – focus on best options
- Prepare Technical Memorandum (TM) – compare options and document tradeoffs
- Board review and approval of Options TM
- Options TM serves as basis for Fee Report
- Options evaluation part of project outreach effort



# Yolo GSA – Long Term Fee Project Schedule

## Project Schedule

Committee Review

Board Approval

Contract Execution

Notice To Proceed

Project Kick-off Meeting

Update Revenue Projections

Approve Options Evaluation TM

Approve Fee Report

Proposition 218 Notice Distribution

YGSA Board Approves Proposed Fees/Public Hearing

Final Tax Roll Data To Assessor's Office

New Fees Effective

## Date

February 24, 2023

March 2023

April 2023

May 2023

June 2023

Sept. 2023

Nov. 2023

Jan. 2024

Feb. 2024

March 2024

August 2024

Dec. 2024 Prop. Tax Bill

# YSGA Operations and GSP Implementation Fee Project Proposal

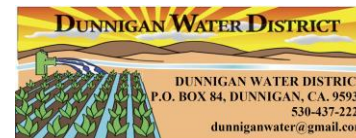
- Yolo Subbasin Fee Study Scope of Work (~\$72k)
  - Task 1: Coordination and Communication
  - Task 2: Assessment and Parcel Evaluation
  - Task 3: Revenue Needs and Cost Allocation TM (up to 3 fee/allocation scenarios)
  - Task 4: Fee Study Engineer's Report
  - Task 5: Fee Approval
  - Task 6: Public Outreach
  - Task 7: Final Assessment Levies

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# Dunnigan Area Recharge Program

Prepared by Larry Walker Associates  
March 2023





# Outline

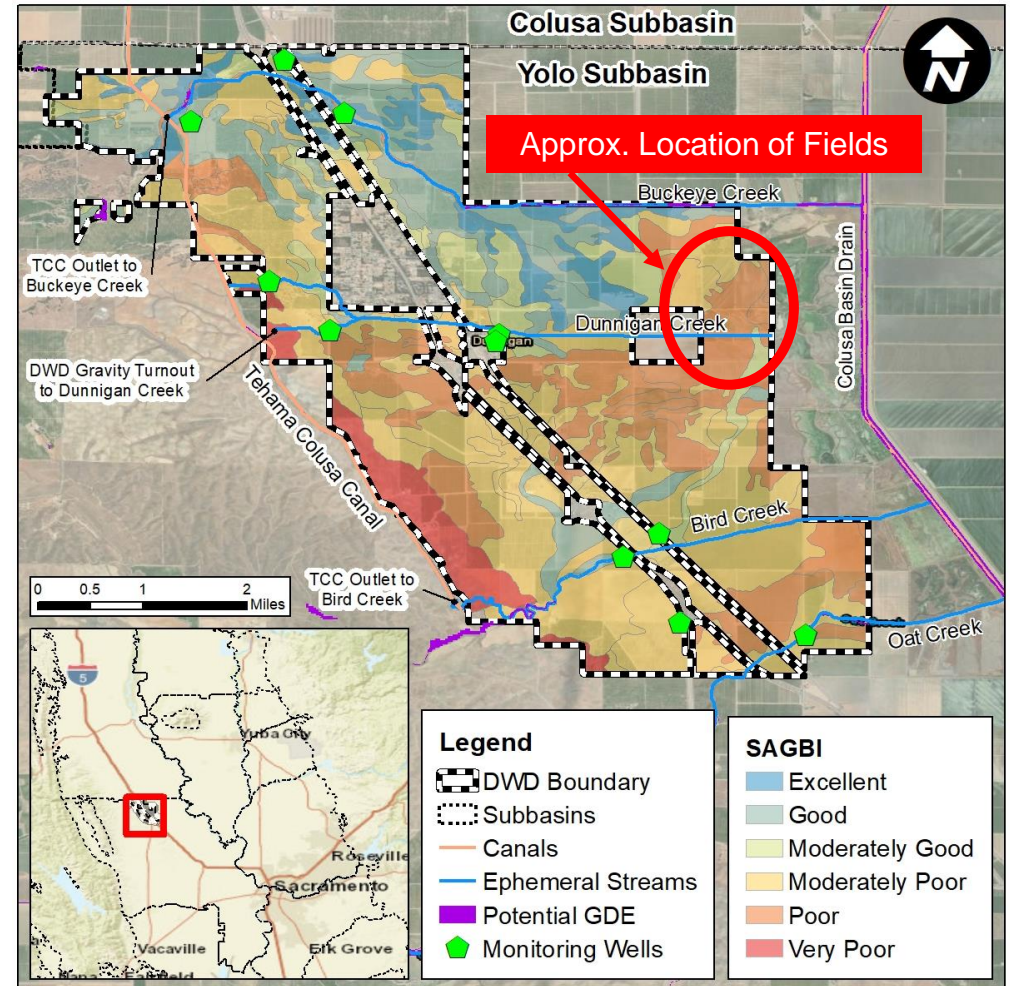
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- Overview of the Dunnigan Area Recharge Program
- Program Status Update
- C&H-3 Stormwater Capture & Flood Recharge Project
- WaterSMART Environmental Water Resources Projects for Fiscal Year 2023 grant opportunity
- Considerations for YSGA Board of Directors
- Questions



# Project Area and Description

- Will divert surface water from the Tehama-Colusa Canal to ephemeral streams and agricultural fields
- Recharge goal of 5,000 AF per year
- ~200 acres of agricultural lands enrolled in TNC's multi-benefit recharge program
- Ephemeral streams include Buckeye Creek, Dunnigan Creek, Bird Creek (west of I-5), and lower Oat Creek



Note:  
 SAGBI = Soil Agricultural Groundwater Banking Index  
 GDE = Groundwater Dependent Ecosystem (based on DWR's Natural Communities dataset)

# Program Status Update

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- Westside Sacramento IRWM selected the Project for DWR's 2021 Urban and Multibenefit Drought Relief Grant in March 2022.
- Partnered with The Nature Conservancy (TNC) multi-benefit recharge program to conduct recharge in the Fall 2022. TNC paid for water, reimbursed landowner for preparing fields (i.e., tilling), and assessed shorebird habitat benefits.
- Program has applied approximately 830 AF of surface water since October 28, 2022.
- Continuing to look for opportunities to collaborate with stakeholders and to scale-up the project.



# Fall 2022 Multi-benefit Recharge Photos

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Field 4 flooded (from November 3<sup>rd</sup>)

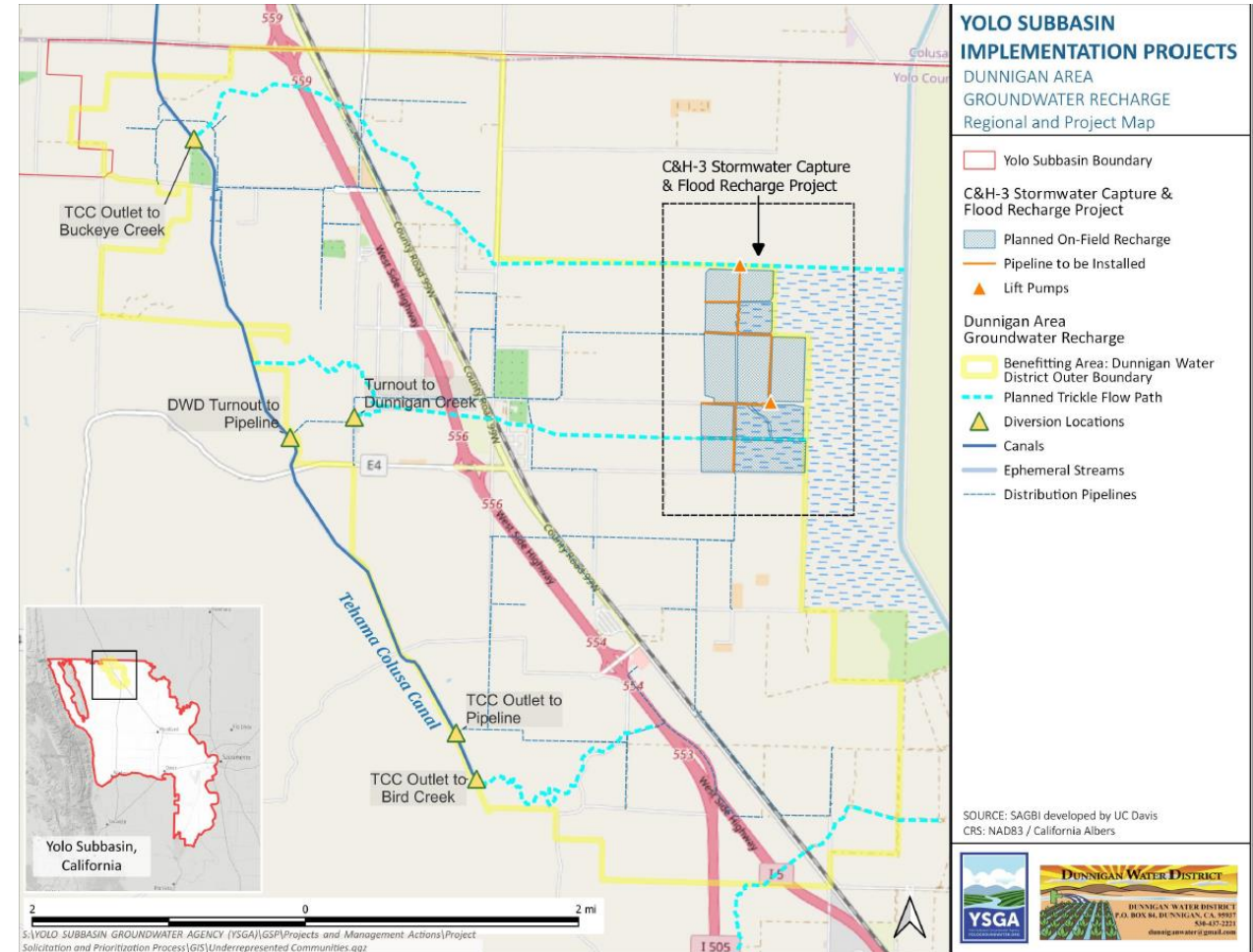


Field 3 partially flooded (from November 3<sup>rd</sup>)



# Dunnigan Area Recharge Program, C&H-3 Stormwater Capture & Flood Recharge Project

- Project will create an alternate source of recharge/habitat water by diverting high stormflows from Buckeye and Dunnigan Creeks.
- Will increase habitat area from approximately 200 acres to over 600 acres.
- A diversion point off Buckeye Creek and Dunnigan Creek including pipes and gates will be installed.
- Will require water diversion permits to capture the water from the creeks.



# WaterSMART Environmental Water Resources Projects for Fiscal Year 2023

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- Funding Agency: U.S. Bureau of Reclamation
- Final Application Deadline: March 28, 2023, with announcements in the Summer 2023
- Project Completion Date: December 31, 2026
- Eligible Applicants: Irrigation and water districts (see funding opportunity announcement for full list)
- Maximum award: \$3 million
- Non-Federal Cost Share: 25% or 50% (25% if developed collaboratively and expected to have significant ecological or watershed health benefit)
- Eligible Project Types: Water conservation and efficiency projects that result in quantifiable and sustained water savings and benefit ecological values or watershed health, including canal lining or piping, irrigation flow measurements, and Supervisory Control and Data Acquisition (SCADA) automation.
- Website: <https://www.grants.gov/web/grants/search-grants.html?keywords=R23AS00089>

# Considerations for YSGA Board of Directors

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1. Approve letter of support to include with DWD's WaterSMART grant application.
2. Consider contributing funds to support overlapping modeling efforts for the Dunnigan Area Recharge Program. Tasks may include simulating recharge scenarios, modeling runoff in ephemeral streams, and model calibration using stream gages.
  - Preliminary budget from SEI is for \$131,023 to complete the modeling work which is to occur through December 2025.
  - 50% Cost Share and \$9k remaining in Buckeye Creek Pilot Project
  - **Requesting up to \$19k/year for a 3-year period for SEI's Model Enhancement Efforts**



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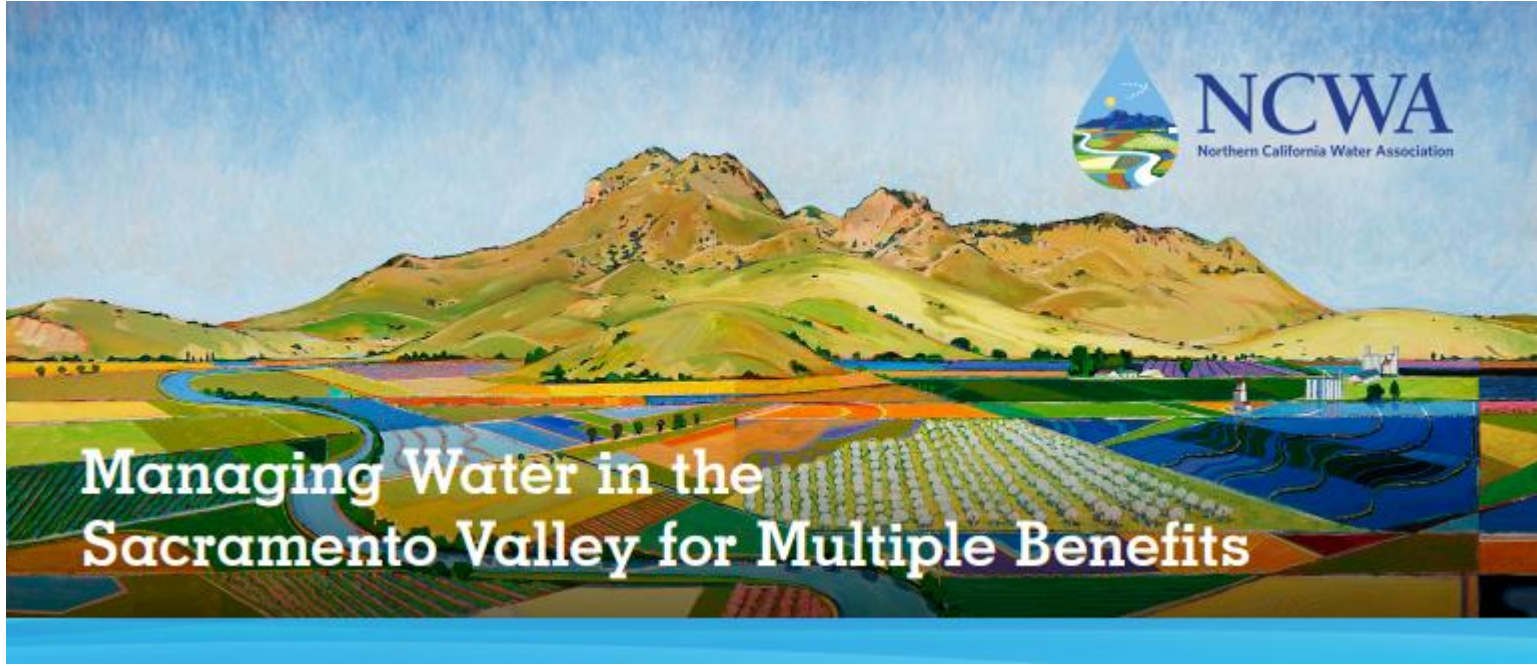
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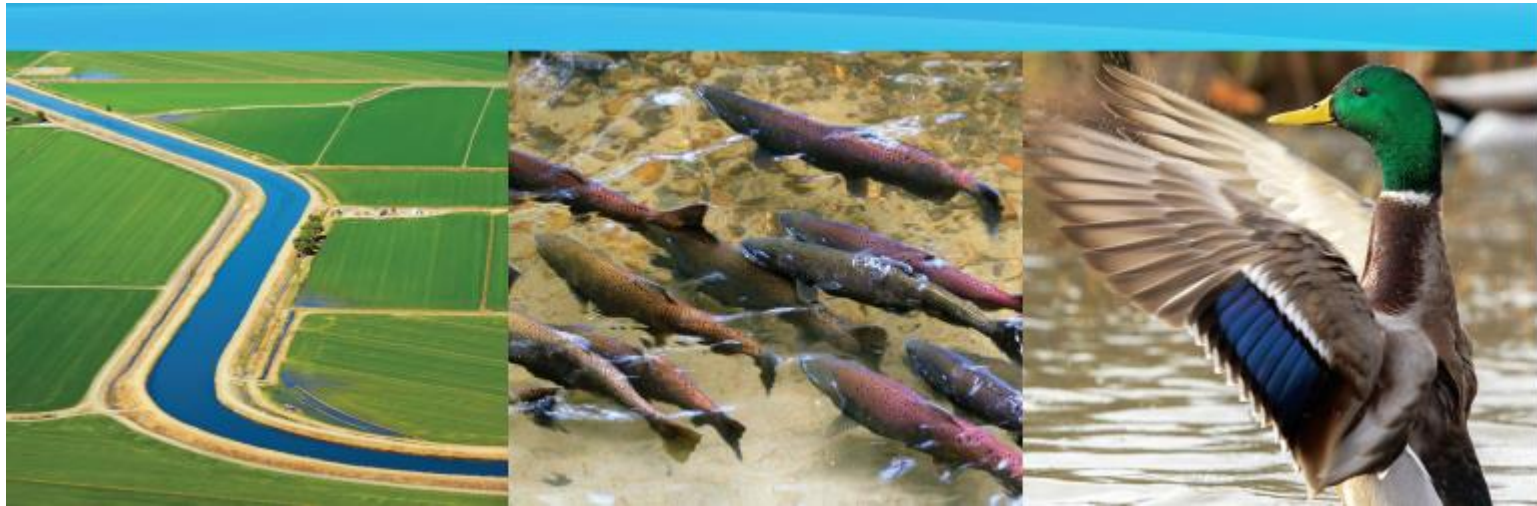


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Ivy Brittain, NCWA Legislative Affairs Director



# NCWA Legislative Update – Proposed Groundwater Bills

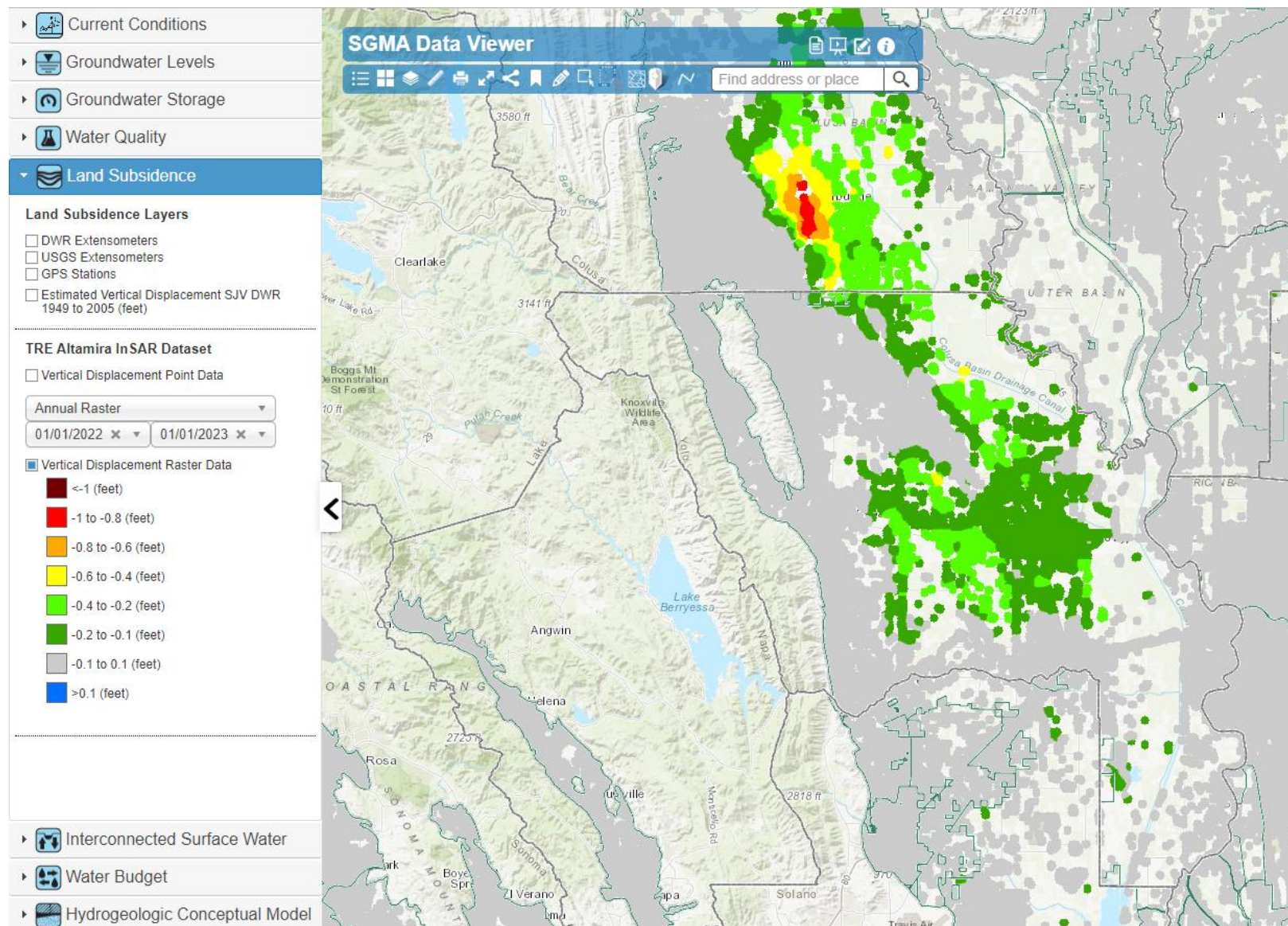
- [AB 429 \(Bennett\)](#) – Groundwater wells: permits
- [AB 560 \(Bennett\)](#) – SGMA: groundwater adjudication
- [AB 900 \(Bennett\)](#) – Aquifer recharge: grant program: streamlined permitting
- [AB 1563 \(Bennett\)](#) – GSA: groundwater extraction permit: verification
- [SB 651 \(Grove\)](#) – Water storage and recharge: CEQA-Delta Reform Act exemptions
- [SB 659 \(Ashby\)](#) – Groundwater recharge: minimum requirement

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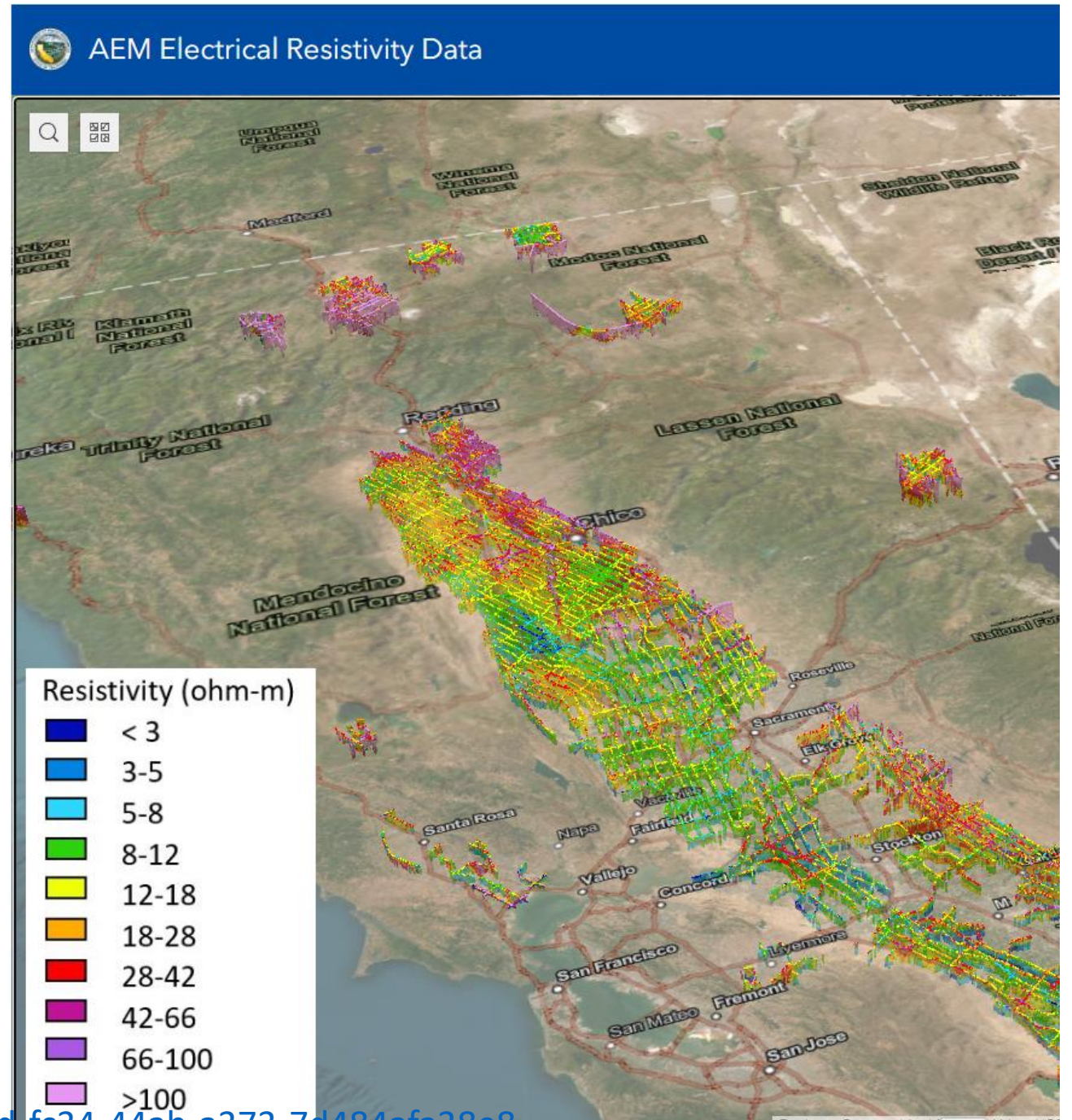
# InSAR Subsidence Data (1/1/23 update)





# Airborne Electromagnetic Surveys

\*\*Still waiting for Interpretation Data for Yolo County



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EXECUTIVE DEPARTMENT  
STATE OF CALIFORNIA

EXECUTIVE ORDER N-3-23

**WHEREAS** on April 21, 2021, May 10, 2021, July 8, 2021, and October 19, 2021, I proclaimed States of Emergency due to drought conditions that continue today and exist across California; and

**WHEREAS** climate change continues to intensify the impacts of droughts on our communities, environment, and economy, and these impacts continue to affect groundwater basins, local water supplies, and ecosystems, resulting in continuing drought in the State; and

**WHEREAS** the ongoing drought continues to have significant, immediate impacts on communities with vulnerable water supplies, farms that rely on irrigation to grow food and fiber, and fish and wildlife that rely on stream flows and cool water; and

**WHEREAS** early, substantial rains in October and December 2021 gave way to the driest January-February-March period in over 100 years in California, leading the October 2021 to September 2022 water year to end with statewide precipitation at 76 percent of average, with statewide reservoir storage at 69 percent of average, and with Lake Oroville—the State Water Project's largest reservoir—at 64 percent of average; and

**WHEREAS** in January 2023, the State experienced one of the wettest three-week periods on record, yielding a snowpack that was at 205 percent of average on February 1, 2023, yet to date February has been drier than average; and

**WHEREAS** the current snowpack has not reduced stresses upon the State's water resources, including low storage levels, depleted aquifers, and diminished local water supplies; and

- February 13, 2023 – E.O. N-3-23
- New Executive Order that slightly modified E.O. N-7-22, but Paragraph 9 remains



# Governor Newsom Issues Executive Order to Use Floodwater to Recharge and Store Groundwater

Published: Mar 10, 2023

**WHAT TO KNOW:** As storms bring rain and snow to California, Governor Newsom signed an executive order that makes it easier to capture floodwater to recharge groundwater – temporarily lifting regulations and setting clear conditions for diverting flood stage water without permits to boost groundwater recharge storage.

SACRAMENTO – Governor Gavin Newsom signed an executive order to enable local water agencies and other water users to capture water from the latest round of storms to recharge state groundwater supplies.

The order suspends regulations and restrictions on permitting and use to enable water agencies and water users to divert flood stage water for the purpose of boosting groundwater recharge. The order includes wildlife and habitat protections, ensuring that any diversions would not harm water quality or habitat or take away from environmental needs.

**WHAT GOV. NEWSOM SAID:** “California is seeing extreme rain and snow, so we’re making it simple to redirect water to recharge groundwater basins. This order helps us take advantage of expected intense storms and increases state support for local stormwater capture efforts.”

A copy of the executive order can be found [here](#).

**FACT SHEET:** [Learn more about what the state is doing to reduce flood risks and recharge groundwater basins.](#)

## HOW WE GOT HERE:

- This executive order follows Governor Newsom’s [order](#) in February to protect the state’s water supplies from the impacts of climate-driven extremes in weather.
  - Allowed the State Water Project to conserve **237,000 acre-feet of water** while providing protections for Delta smelt.
  - Allowed the U.S. Bureau of Reclamation to divert over **600,000 acre-feet** of floodwaters for wildlife refuges, underground storage, and recharge.

**TAKING ACTION  
TO RECHARGE  
CALIFORNIA'S  
GROUNDWATER.**



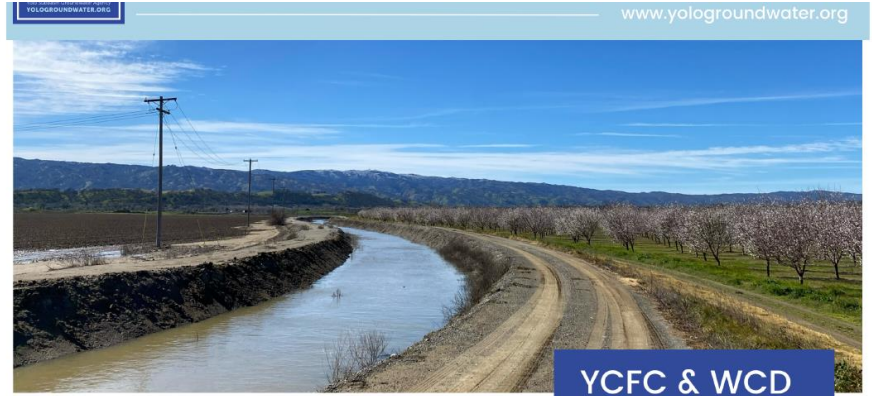
# Flood Water Recharge: Executive Order N-4-23



Source: Poso Creek, SJV Water

- **What are the compliance requirements?**
- No new permanent infrastructure or permanent construction
- Cannot divert water onto:
  - Dairy land areas
  - Agricultural fields where pesticides or fertilizer application has occurred in the past 30 days
  - Areas that could cause damage to critical levees/infrastructure, and wastewater or drinking water systems/wells
  - Areas that would exacerbate flood threats, or health and safety concerns
- Reporting is required to the GSAs & State Board





### City of Woodland Aquifer Storage and Recovery

The City of Woodland relies primarily on treated surface water from the Woodland Davis Clean Water Agency (WDCWA) for its water supply, with augmentation through its Aquifer Storage & Recovery (ASR) program.

Woodland's ASR program improves short term drought resiliency and long term water supply reliability by storing high-quality treated Sacramento River water in the underground aquifer when water is abundant (winter) for use during peak

### YCFC & WCD Canal Recharge

Since 2016, the Yolo County Flood Control and Water Conservation District has planned to divert excess winter storm flows from Cache Creek

# DWR GROUNDWATER AWARENESS WEEK

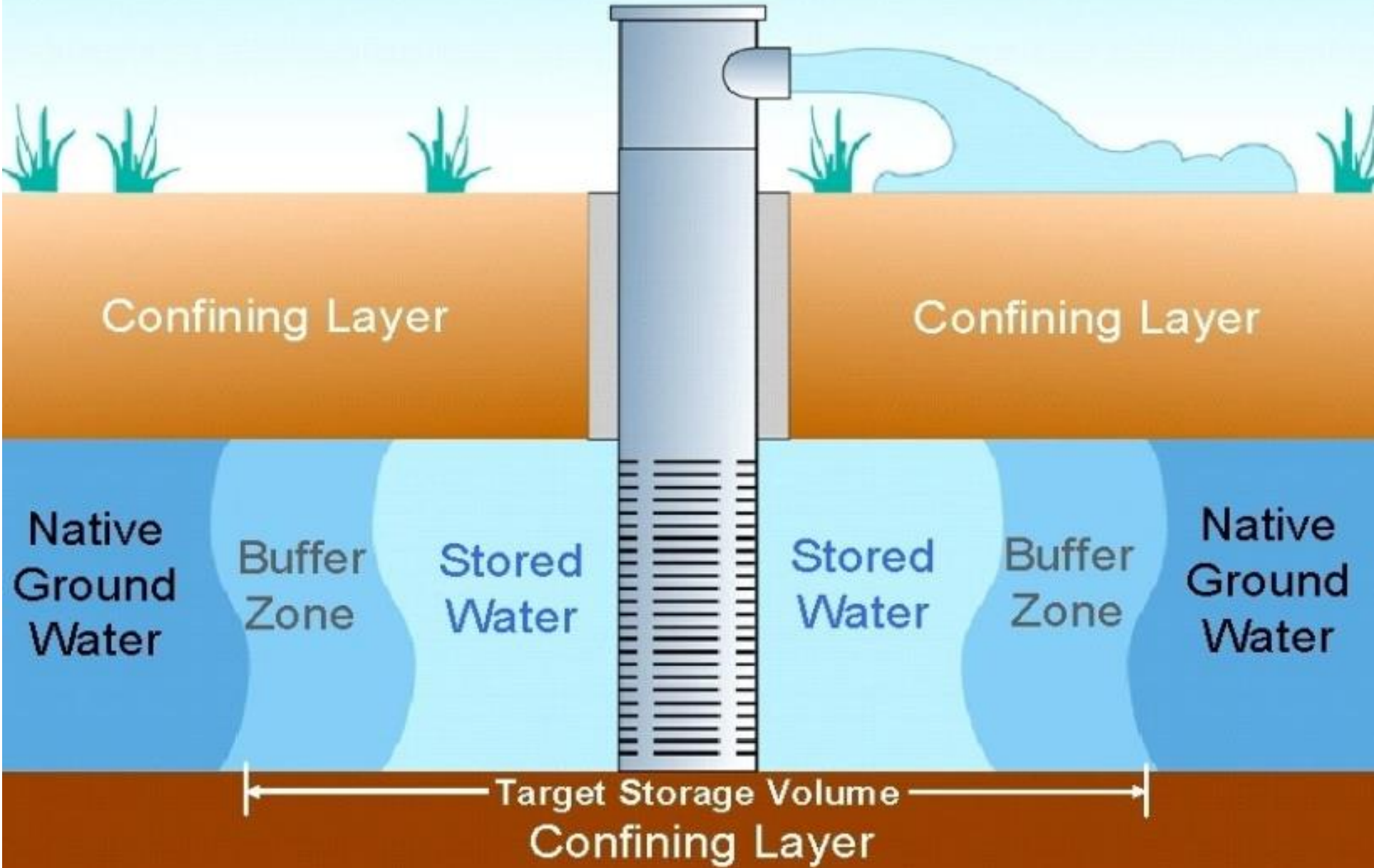


## Woodland Aquifer Storage and Recovery

Since 2014, [the City of Woodland](#) has stored surface water from the Sacramento River in the aquifer underneath the City. The water is stored in the winter months and used during the summer months. Currently, the City can store up to 4.5 million gallons of water per day.

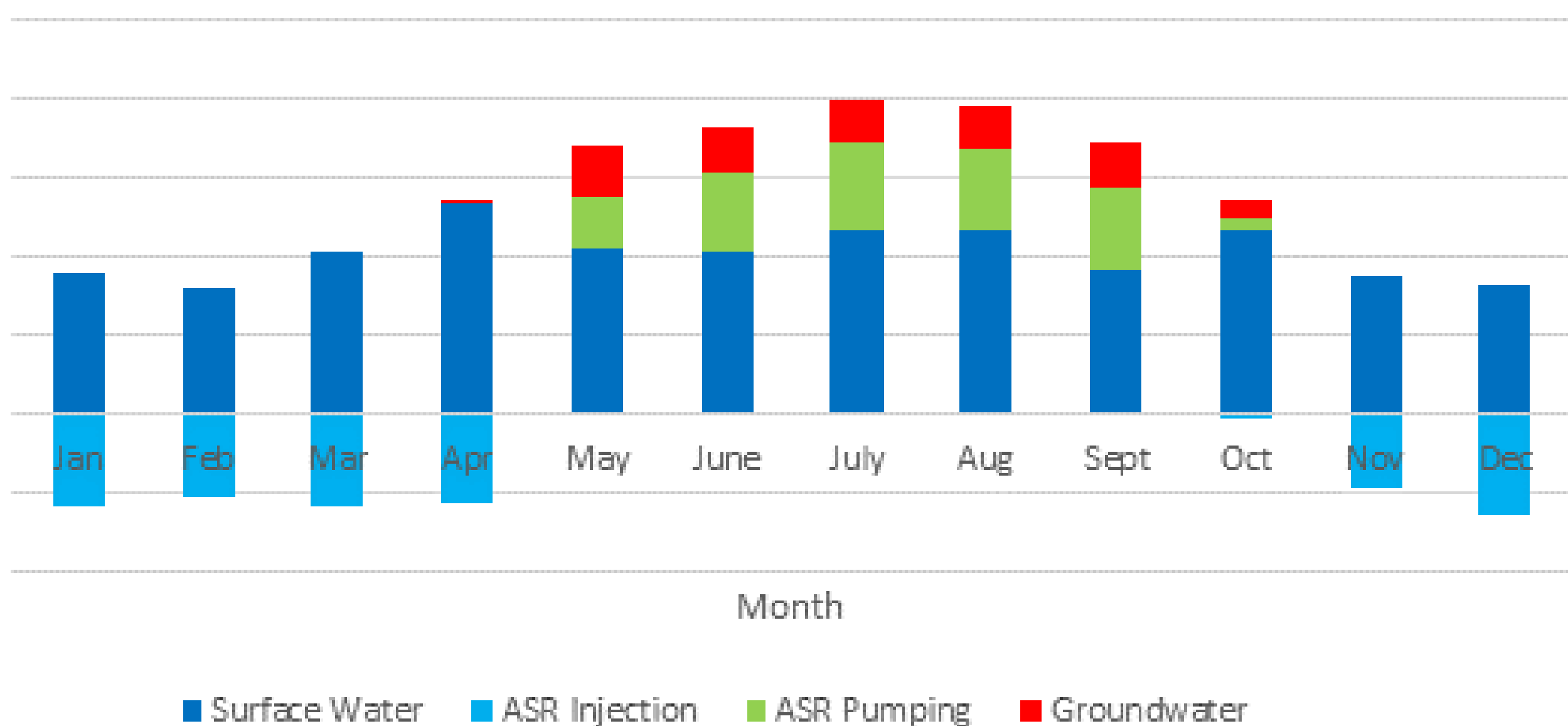


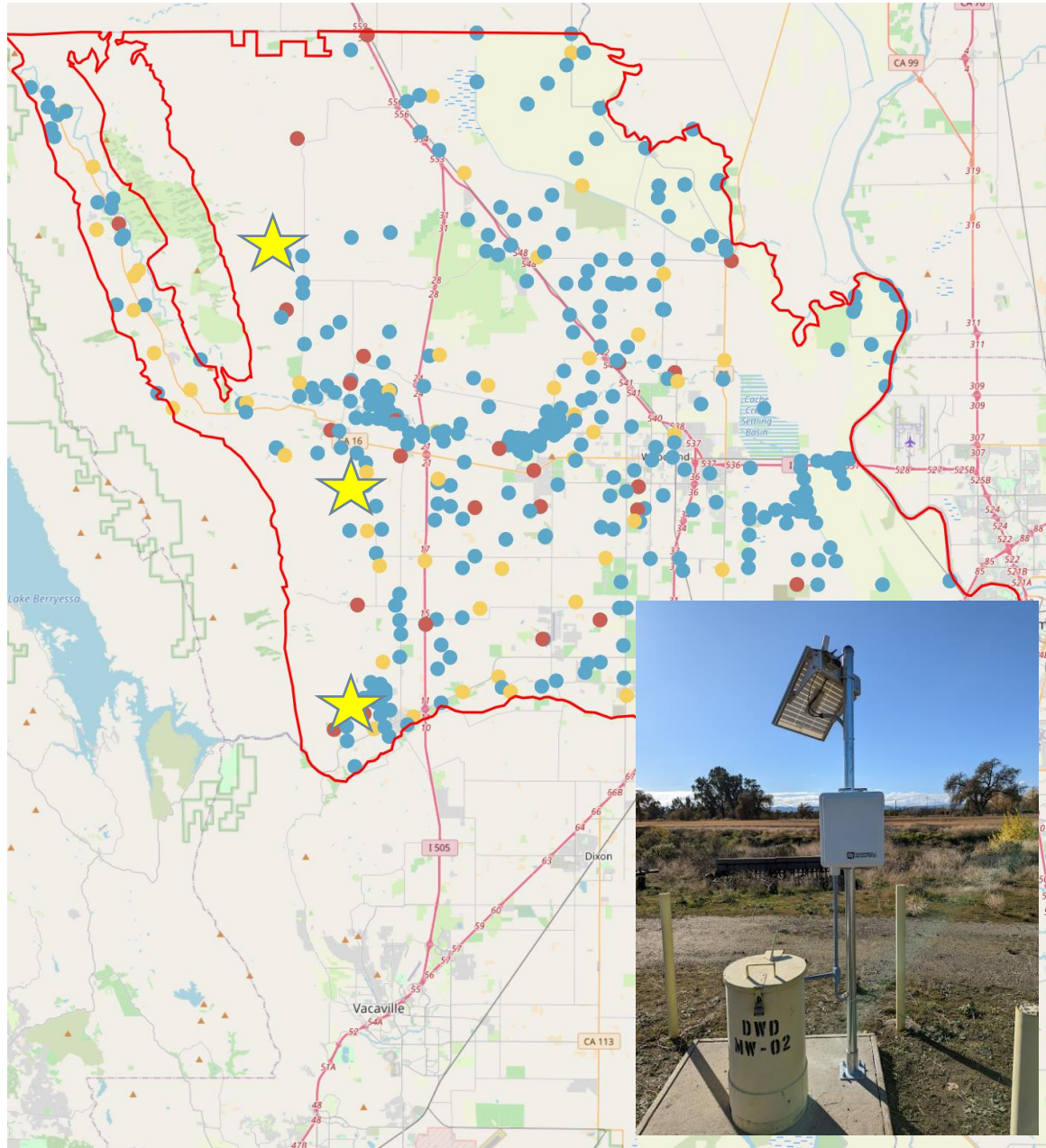
# ASR Well





# 2021 Woodland Water Supply Portfolio



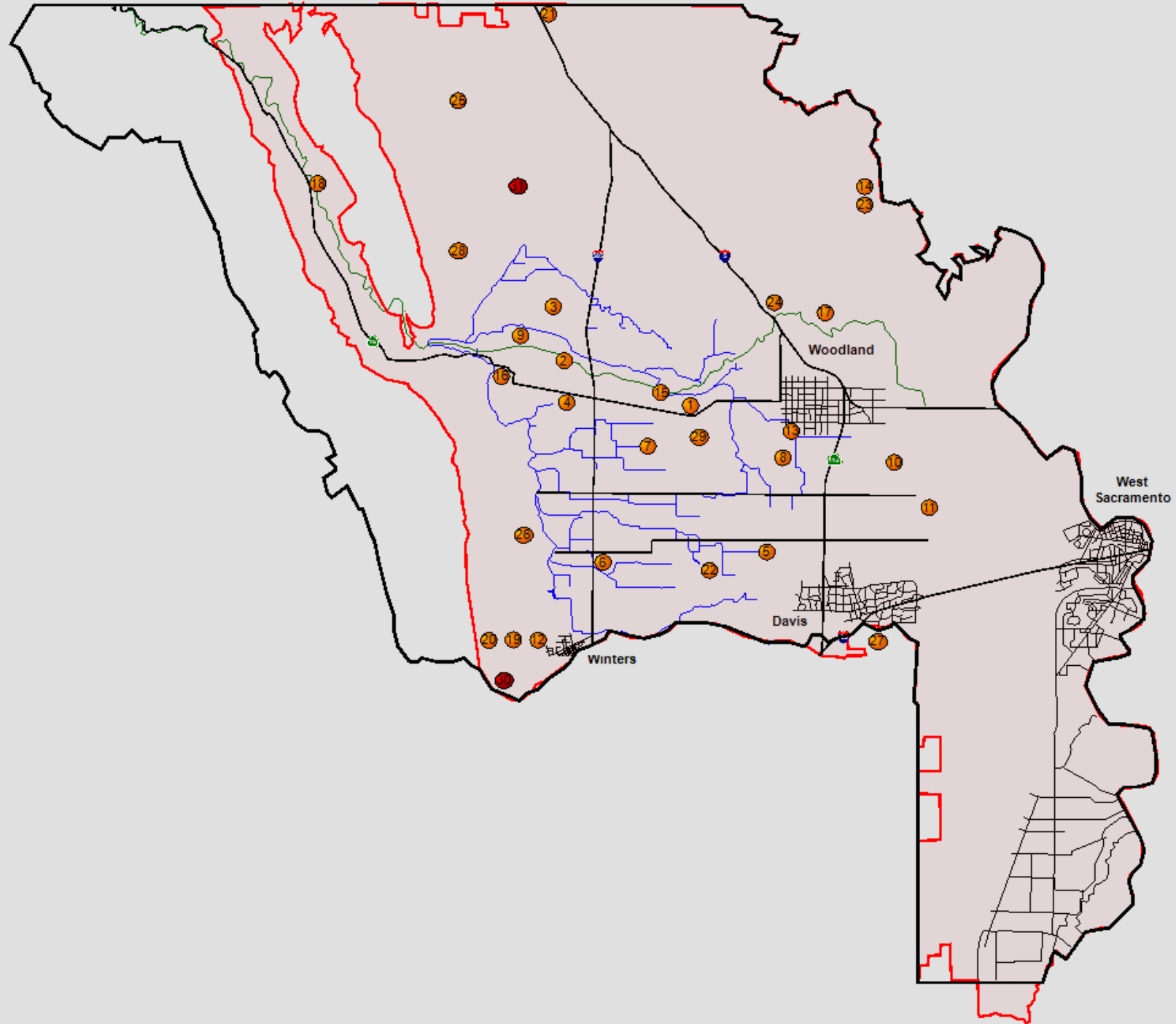


# DWR's Technical Support Services (TSS)

- 3 dedicated multi-completion monitoring wells to be drilled by DWR's TSS program
- Real-time monitoring to be installed
- Focused in areas of special concern and data gap areas
- Well depths approx. 1,000 feet
- Expected to start drilling in May/June





# Well Monitoring

Continuous



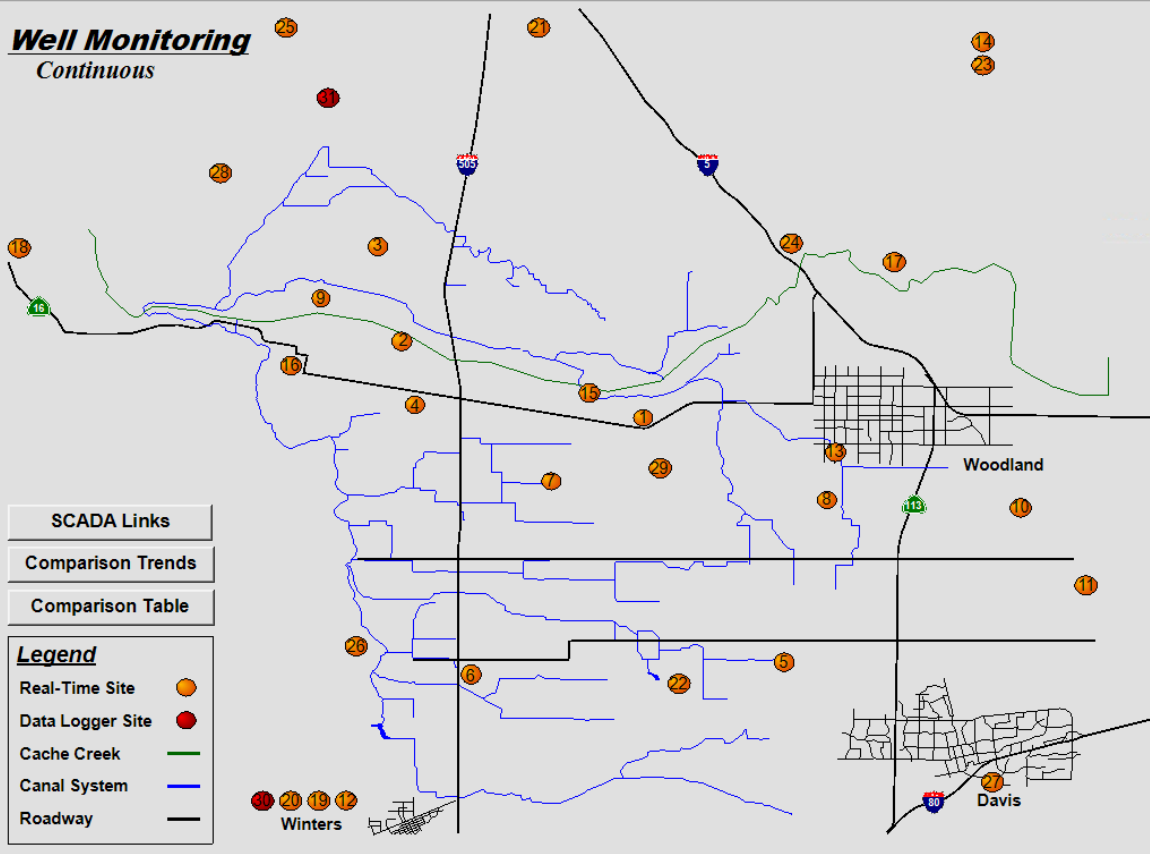
- SCADA Links
- Comparison Trends
- Comparison Table

**Legend**

- Real-Time Site 
- Data Logger Site 
- YSGA 
- County 

# Well Monitoring

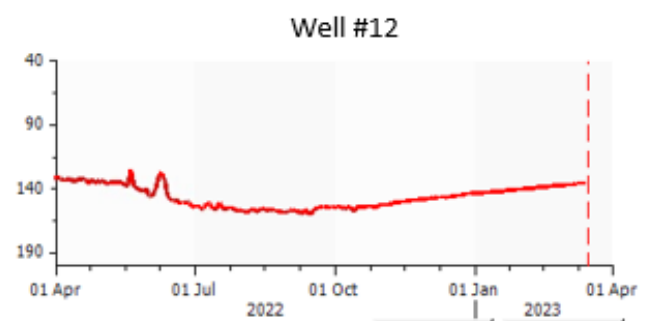
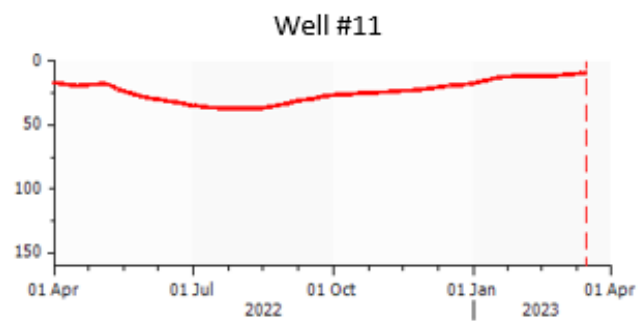
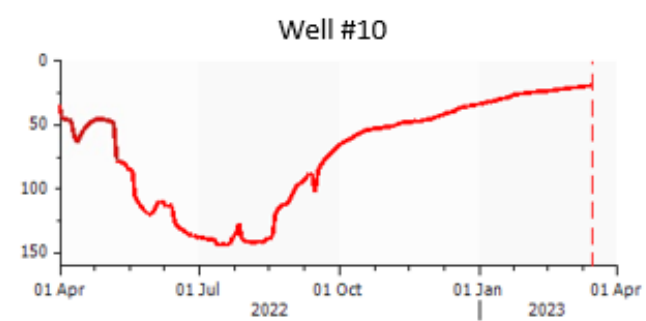
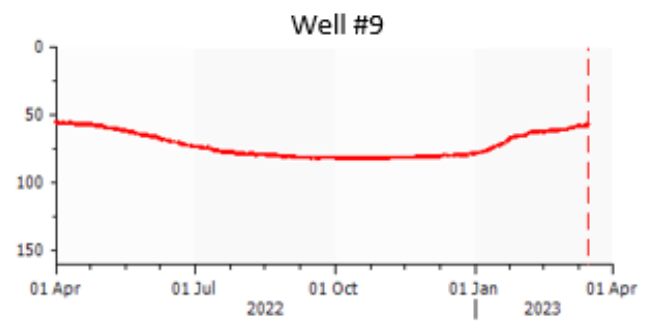
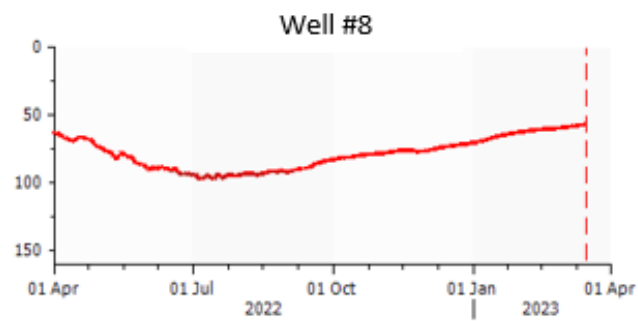
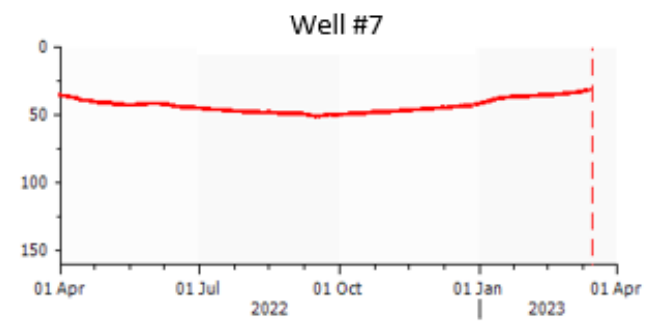
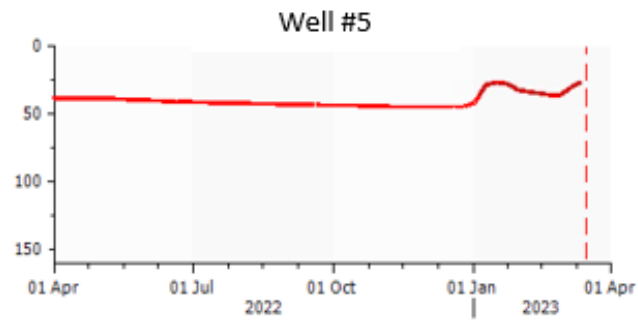
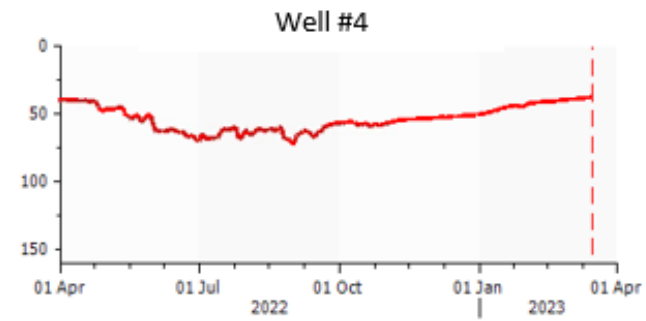
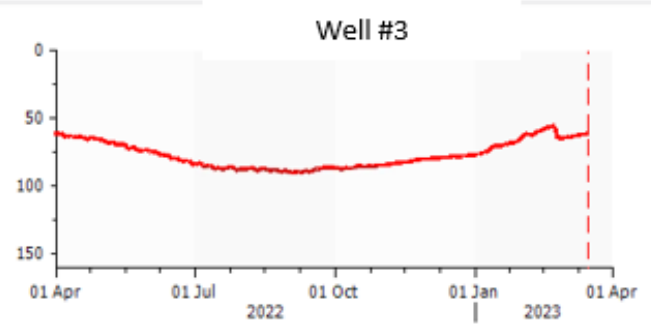
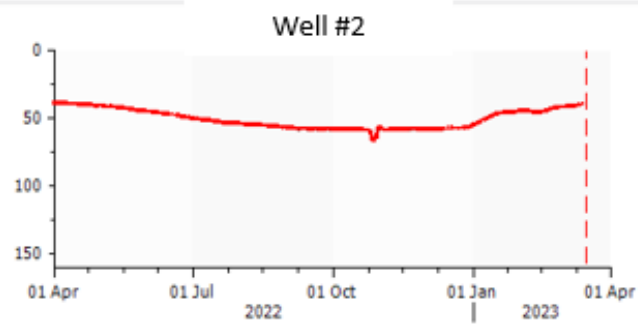
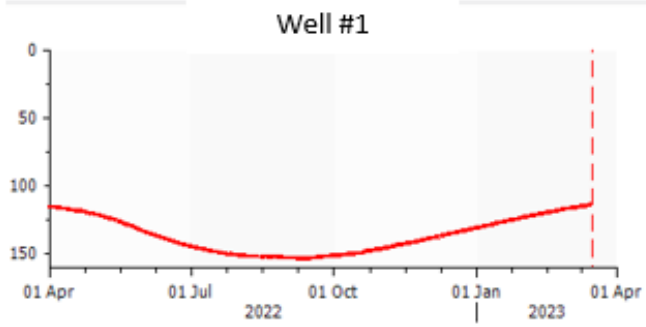
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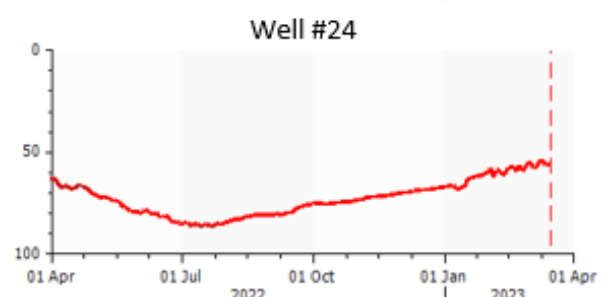
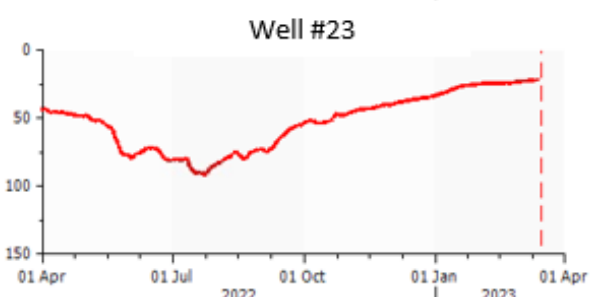
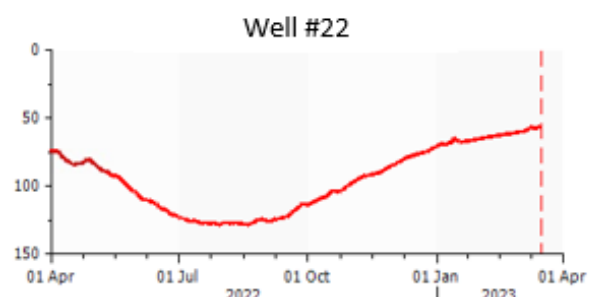
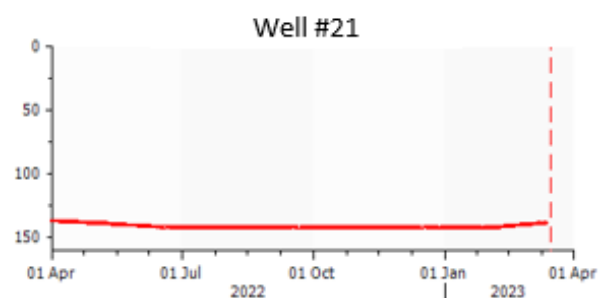
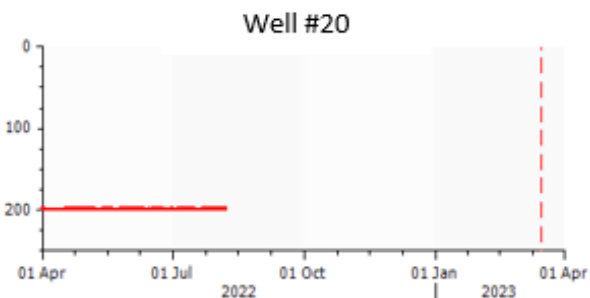
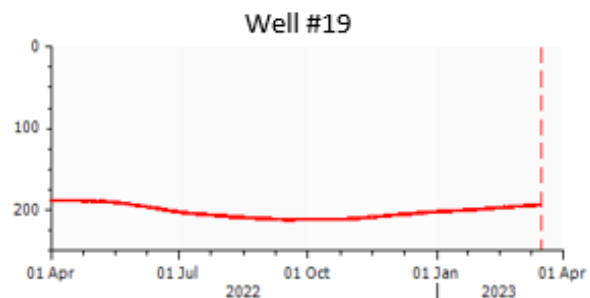
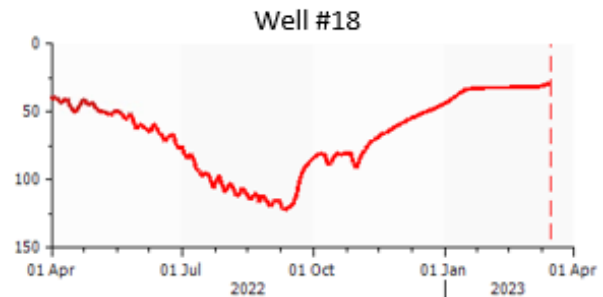
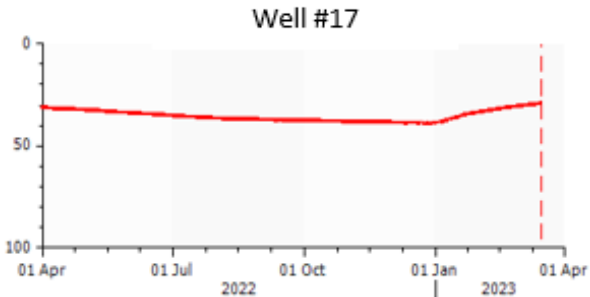
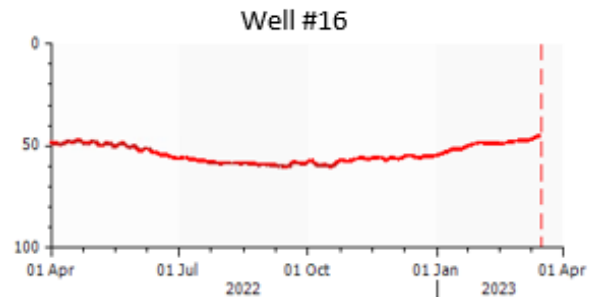
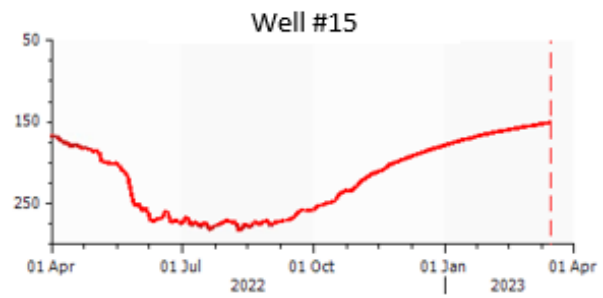
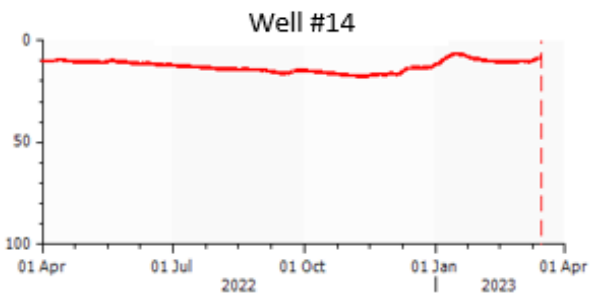
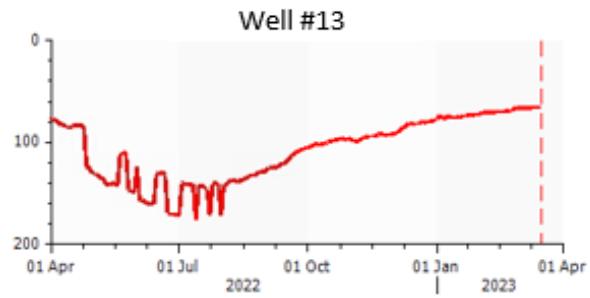


# Well Monitoring

Depth to Water Historical Comparison  
(Daily Average DTW in feet)

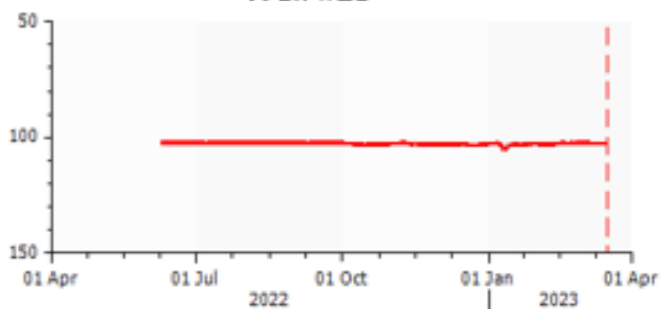
Well	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	$\Delta$ 2022 - 2023	$\Delta$ 2015 - 2023	
1.	82.2	76.7	79.4	80.1	92.2	100.5	102.8	89.7	88.7	89.4	87.0	95.5	113.6	112.9	.7	-12.4	
2.	30.9	28.1	29.8	42.4	35.9	39.5	39.3	23.7	30.1	24.3	30.4	32.1	37.4	37.8	-.3	1.7	
3.		41.5	39.6	40.7	50.6	59.8	58.5	38.2	40.1	37.4	40.4	44.9	60.5	61.0	-.5	-1.2	
4.		24.9	25.9	27.2	31.4	39.6	38.3	21.3	27.7	18.7	28.8	33.6	42.0	36.9	5.1	2.7	
5.		19.6	21.5	21.9	29.8	29.9	37.7	17.1	28.2	12.0	23.1	30.3	37.8	27.9	9.9	2.1	
6.			36.7	39.6	46.9	56.0	52.2	27.1	36.1	21.3	42.7	45.7	56.8	47.2	9.6	8.8	
7.				21.2	21.2	32.0	33.3	16.3	21.0	15.0	20.3	27.1	34.4	30.6	3.9	1.4	
8.					49.6	61.8	61.9	44.9	42.7	36.4	40.8	47.1	63.0	55.8	7.2	6.0	
9.					49.1	57.1	56.4	37.4	40.5	34.1	41.8	48.6	54.4	54.1	.3	3.0	
10.						27.1	25.0	11.7	12.9	7.2	14.0	19.6	31.2	17.9	13.2	9.1	
11.						11.6	10.8	5.7	8.6	5.6	9.9	13.1	15.3	8.7	6.7	2.9	
12.										111.3	106.7	117.7	130.9	134.6	-3.7		
13.									54.9	45.7	53.2	60.1	76.1	64.3	11.8		
14.										7.4	10.3	10.2	11.1	8.1	3.0		
15s.										33.0	37.2	45.6	43.9	39.8	4.1		
15d.										102.0	112.5	126.6	163.3	149.9	13.4		
16.										25.3	33.9	37.0	46.8	46.3	.6		
17.											20.8	26.9	30.7	28.4	2.3		
18.											32.9	42.9	44.4	29.1	15.3		
19.											165.6	174.8	187.6	193.6	-6.0		
20.											----- Working on a replacement -----						
21.											118.0	127.1	135.9				
22.													68.8	57.4	11.4		
23.													43.6	21.1	22.4		
24.													63.2	55.1	8.1		
25.														102.7			
26.														100.4			
27.														42.7			
28.														139.2			
29.														82.4			



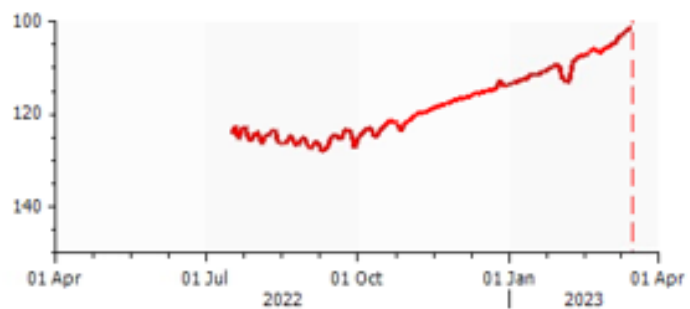




Well #25



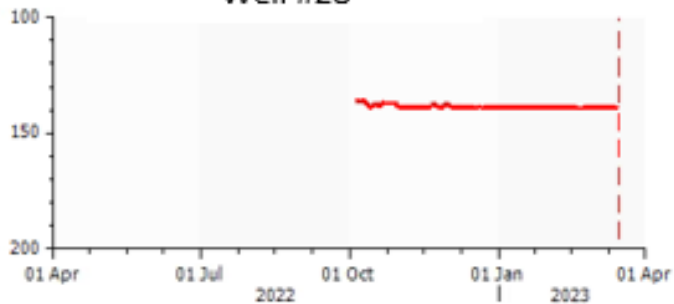
Well #26



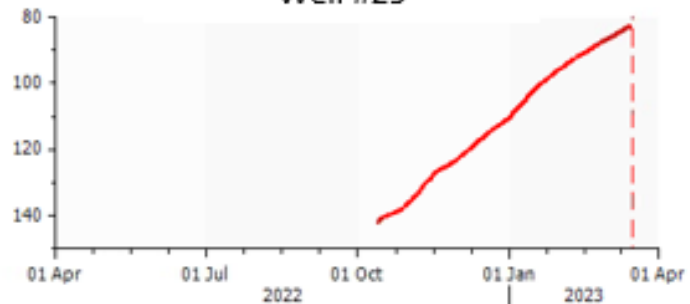
Well #27



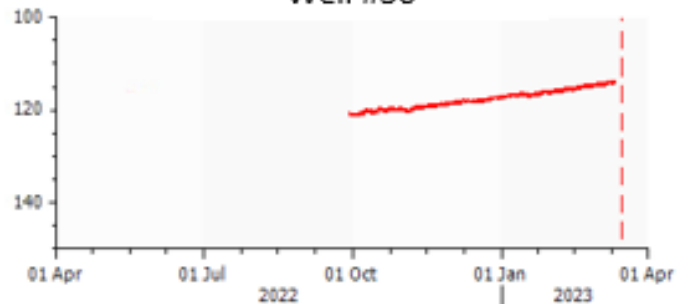
Well #28



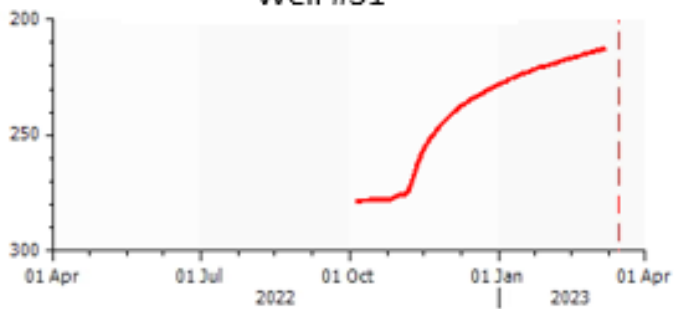
Well #29



Well #30



Well #31



# Agenda

1. Call to Order and Determination of Quorum
2. Adding Items to the Posted Agenda
3. Public Forum
4. CONSIDERATION - Consent Items
5. CONSIDERATION - Financial Items
  - Authorize Executive Officer to Enter into Agreement with LSCE and Proceed with Fee Study
  - Approve Cost Share Contribution to Update Subbasin Model and Incorporate Dunnigan Area Recharge Program
6. NCWA Update on Water Legislation, Regulatory, & Delta Issues
7. DWR Update
8. Report of the Chair and Executive Officer
- 9. Water Conditions Update, Member Agency Roundtable**
10. Groundwater Sustainability Plan Implementation Update
  - Review of Annual Report for Water Year 2022
  - Areas of Special Concern: Summary Update on Northwest of Winters
11. Members Reports and Future Agenda Items
12. Next Meeting - June 19, 2023
13. Adjournment

# Water Conditions Update

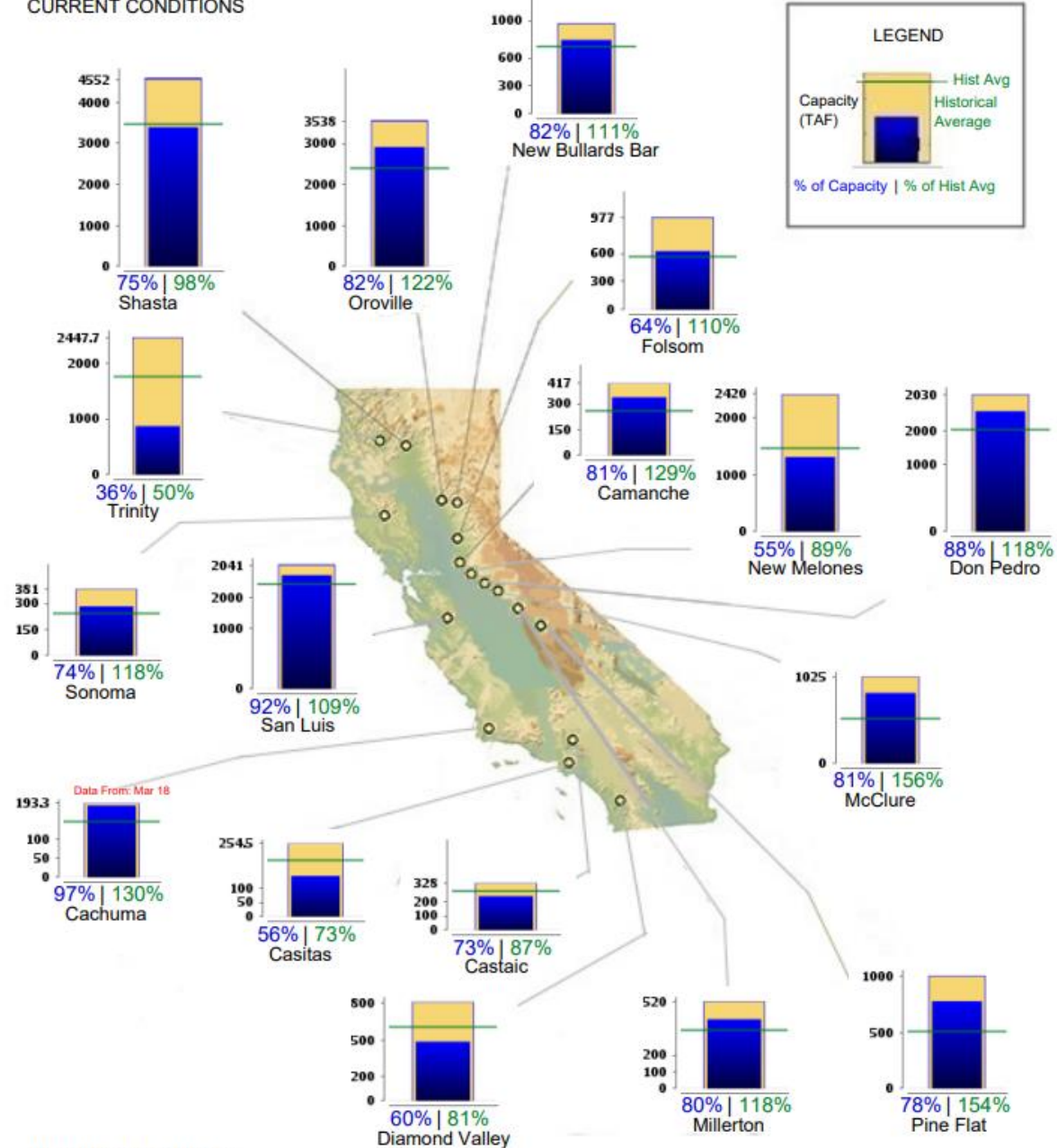
- Statewide Conditions
- Roger Cornwell / Bill Vanderwaal, Sacramento River Update
- Tim Busch, Woodland Davis Clean Water Agency
- Kristin Sicke, YCFC&WCD
- Other Updates?



# CURRENT RESERVOIR CONDITIONS

## CALIFORNIA MAJOR WATER SUPPLY RESERVOIRS CURRENT CONDITIONS

Midnight - March 19, 2023

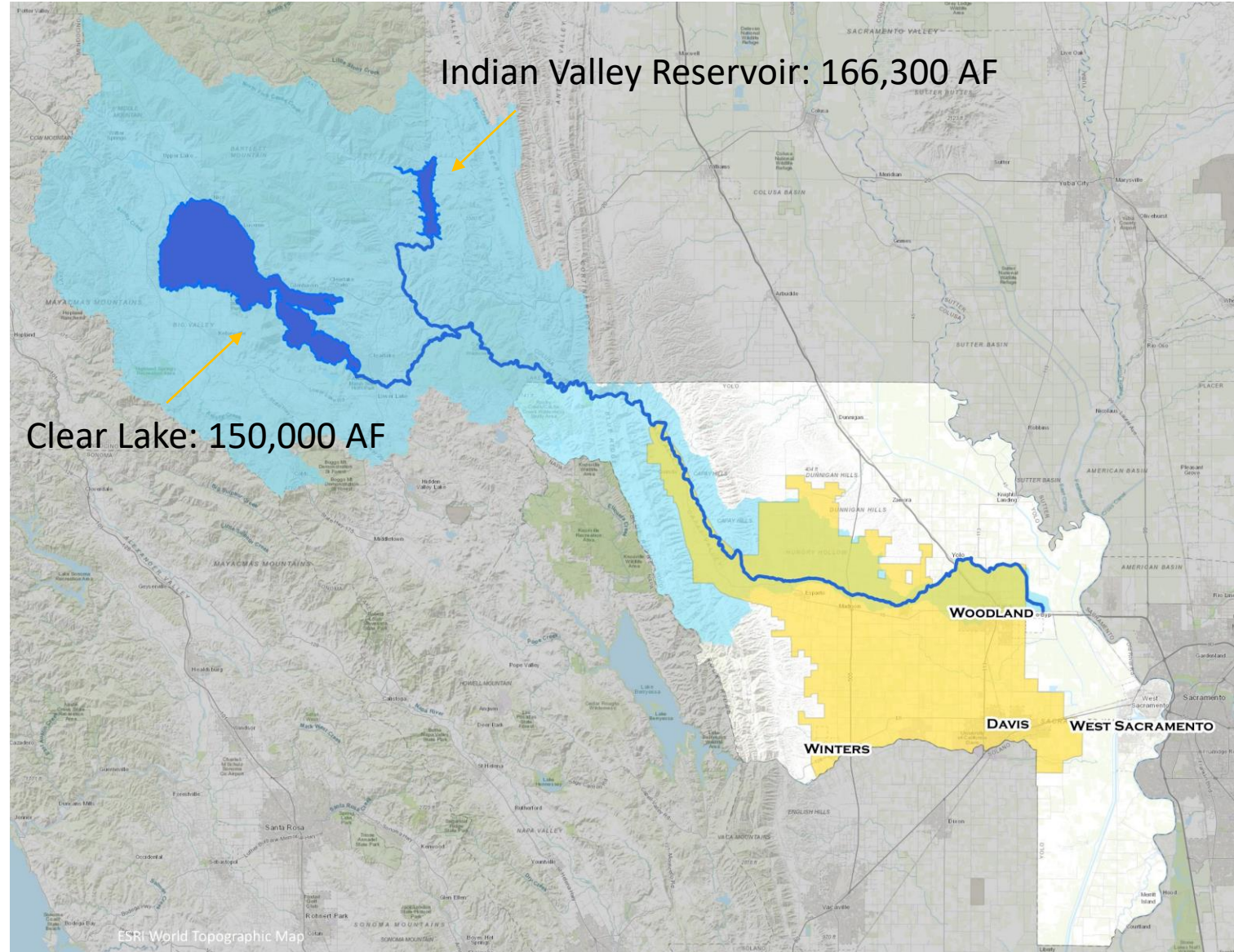


# YCFC&WCD's Cache Creek Watershed Update

(3/20/23)

2023 Irrigation Season  
Unallocated

Anticipated start date: 2<sup>nd</sup> week  
of May







Year	Diversion Days	Stormwater Diversion for Groundwater Recharge (AF)
2016	39	11,128
2017	41	6,210
2018*	0	0
2019	30	3,745
2020-2022*	0	0
2023	20	4,300



# Agenda

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# Outline

1. Introduction
2. Plan Area
3. Groundwater Management Activities & Milestones
  1. GSP Implementation Progress
  2. Monitoring Network Revisions
  3. Upcoming Activities for Water Year 2023
4. Monitoring and Conditions Assessment
  1. Hydrologic Conditions
  2. Groundwater Elevations & Storage
  3. Groundwater Quality
  4. Land Subsidence
  5. Interconnected Surface Water
5. Water Budget Assessment
  1. Surface Water Diversions
  2. Groundwater Extraction
  3. Total Water Use
  4. Change in Groundwater Storage
  5. Accuracy Estimate

# Groundwater Management Activities & Milestones

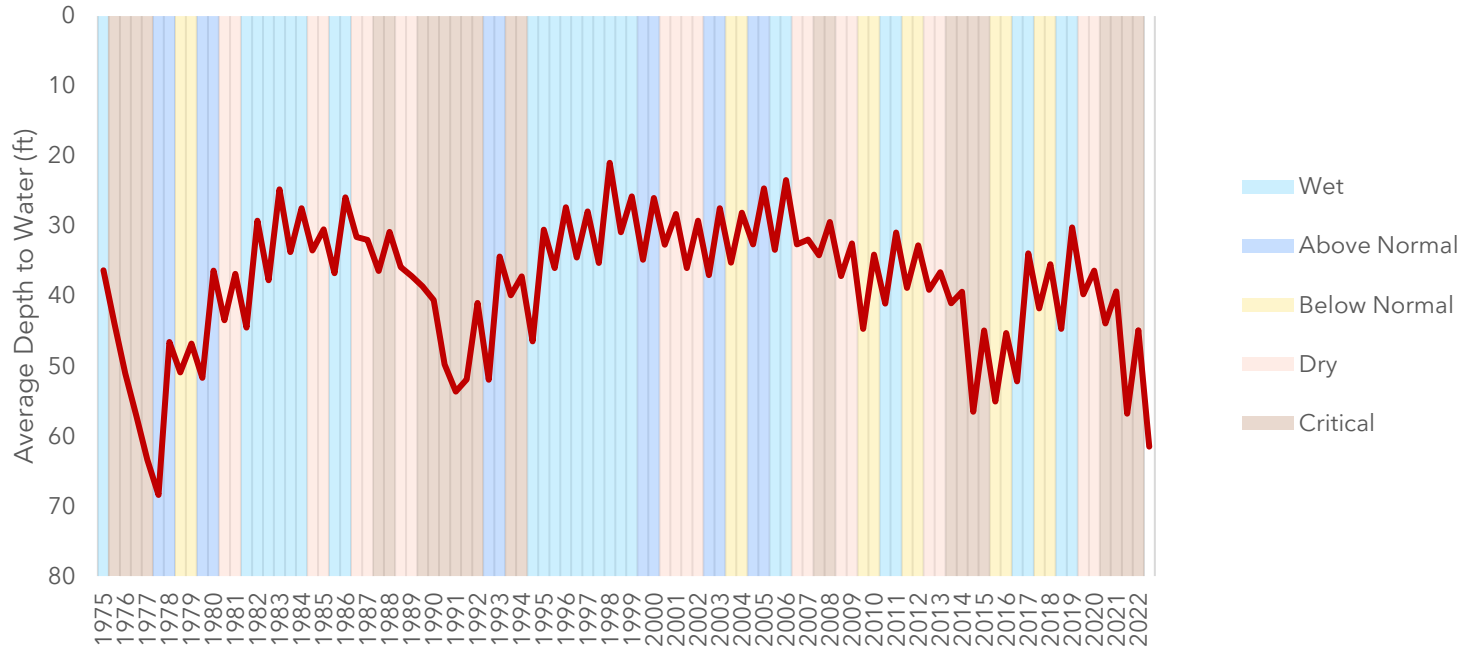
- **GSP Implementation Progress**
  - Developing/implementing projects and management actions
  - *Ad Hoc Drought Contingency Planning Committee*
  - Coordination with Yolo County EH (well permitting)
- **Changes to Monitoring Network**
  - Additional monitoring sites
- **Upcoming Activities for WY 2023**
  - Management Area Advisory Committees
  - SB 552
  - Recharge opportunities

# Monitoring & Conditions Assessment

## HYDROLOGIC CONDITIONS

Water Year	Sacramento Valley Index <sup>5</sup>	Sac Valley Water Year Type	Yolo County Precipitation	Percent of County Average
2019	10.2	Wet	31.8"	157%
2020	6.0	Dry	11.5"	57%
2021	3.8	Critical	7.6"	38%
2022	4.6	Critical	16.8"	83%

**Yolo Subbasin Average Groundwater**  
 Representative Wells - Depth by Season (62 Wells)



# Monitoring & Conditions Assessment

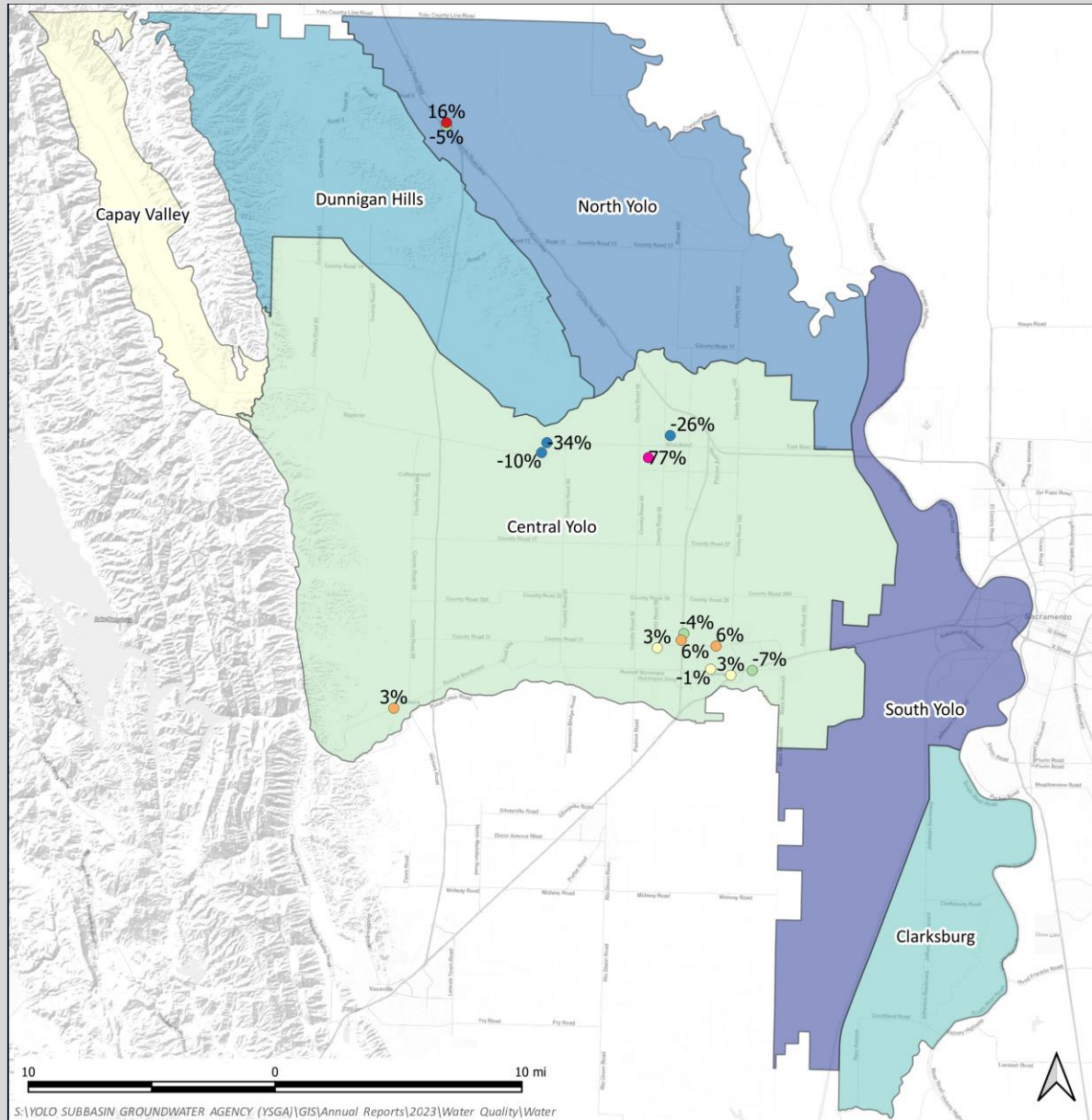
## GROUNDWATER ELEVATIONS & STORAGE

- Average DTW Hydrograph
- Groundwater Elevation Contour Maps
- Table of Groundwater Elevations relative to MT's & MO's
- Attachment A: Representative Well Hydrographs

State Well Number	Representative Well Number	Measurable Objective	Minimum Threshold	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	5 yr Fall Average	Distance to Measurable Objective
<i>DWR assigned well number</i>	<i>YSGA GSP Well Number</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation</i>	<i>Groundwater Elevation, ft. MSL</i>									<i>Fall 2018- Fall 2022</i>	<i>5-year average minus MO</i>
				<i>Shaded values are below the minimum threshold value</i>										
				<i>*** represents no measurement</i>										
10N02W16R001M	276	215.0	207.7	217.0	219.9	216.7	216.2	214.6	214.2	211.2	215.2	209.9	213.9	-1.1
10N02W18F001M	277	315.6	304.2	325.6	312.9	318.5	317.8	325.9	314.8	311.2	314.8	312.2	318.7	3.0
10N03W02R002M	280	319.5	308.2	312.7	322.5	316.6	316.7	313.3	313.4	309.3	312.5	310.2	312.5	-7.0
11N03W09Q001M	285	383.7	355.8	382.2	394.4	384.9	389.3	382.3	381.6	377.6	387.4	382.4	381.9	-1.8
11N03W23L001M	287	296.0	287.6	298.5	301.0	298.9	298.7	298.2	***	285.9	298.6	286.0	293.5	-2.5
11N03W23N001M	288	287.3	271.0	295.3	301.6	298.3	297.5	294.5	289.3	284.4	297.4	286.7	291.9	4.6
11N03W33F001M	289	351.1	341.2	351.5	356.2	351.6	352.0	351.3	351.2	344.4	351.4	345.8	349.0	-2.1
12N03W20D001M	293	382.8	376.4	383.4	387.1	382.4	383.6	382.0	382.4	380.0	383.6	378.0	381.2	-1.6
11N03W35D003M	415	280.7	273.0	***	293.1	282.1	284.1	281.2	283.1	275.9	286.1	278.1	279.3	-1.4
10N03W24B002M	416	324.8	281.1	327.8	345.9	343.7	339.6	327.2	326.6	310.4	305.2	303.1	322.5	-2.4







**WATER QUALITY  
TDS % CHANGE, 2020-2022**

Total Dissolved Solids, mg/L  
Measurements taken in 2020-2022

TDS Percent Change 2020-22

- -35% to -8%
- -8% to -3%
- -3% to +3%
- +3% to +8%
- +8% to +20%
- +20% to +77%

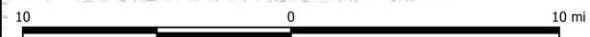
YSGA Management Areas

- Capay Valley
- Central Yolo
- Clarksburg
- Dunnigan Hills
- North Yolo
- South Yolo

SOURCE: CA SWRCB GAMA  
Groundwater Information System  
Dataset  
CRS: NAD83 / California Albers



YOLO SUBBASIN  
GROUNDWATER AGENCY  
**YOLO SUBBASIN GSP  
ANNUAL REPORT 2023**



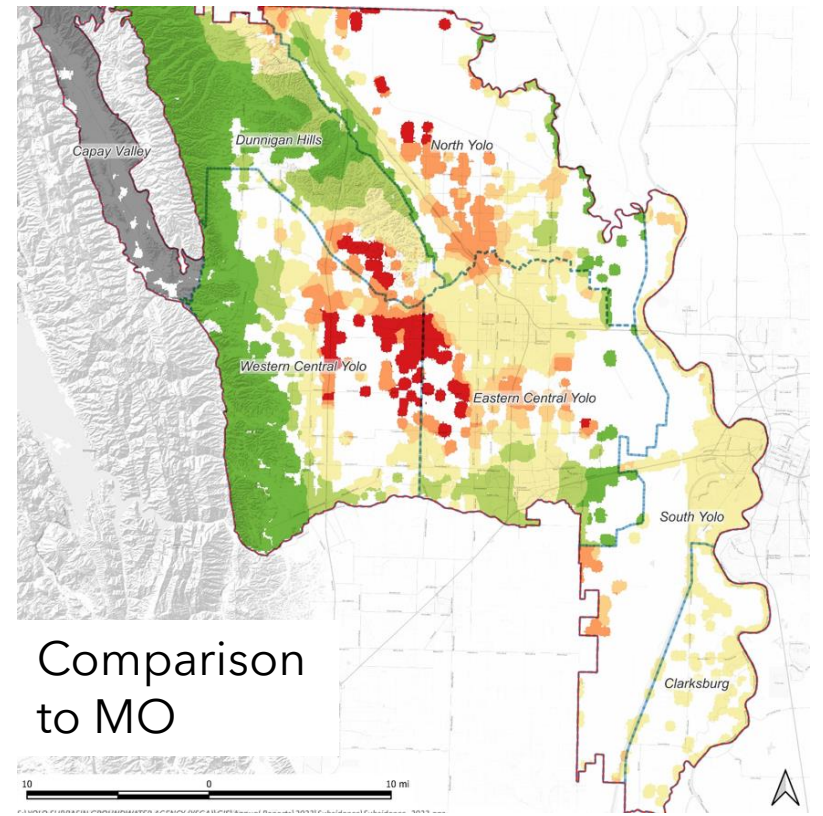
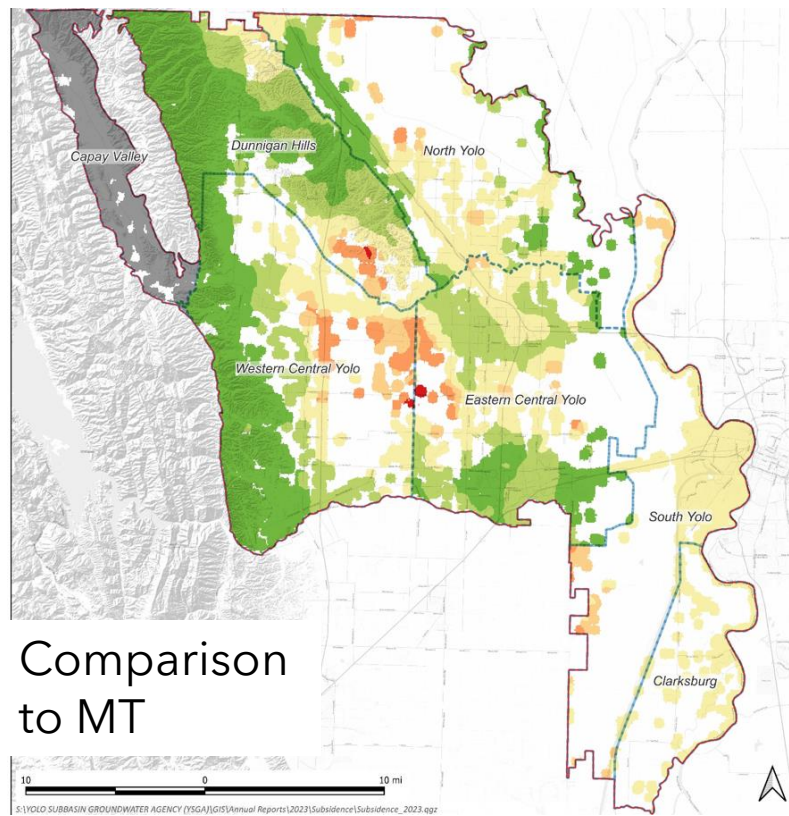
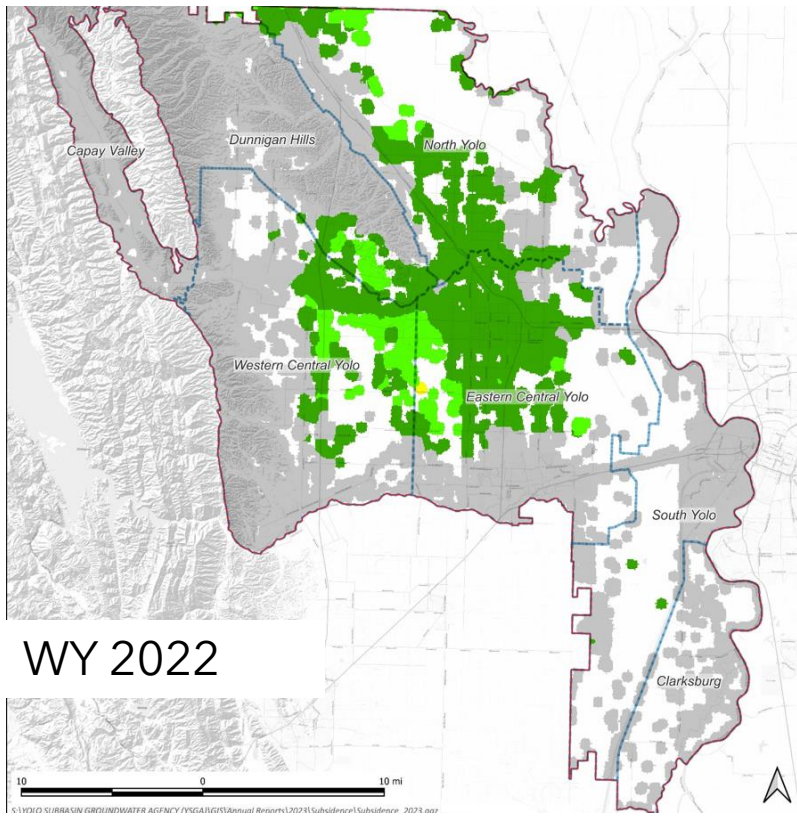
S:\YOLO SUBBASIN GROUNDWATER AGENCY (YSGA)\GIS\Annual Reports\2023\Water Quality\Water

# Monitoring & Conditions Assessment

## GROUNDWATER QUALITY

- Nitrate
- TDS
- Arsenic
- Boron

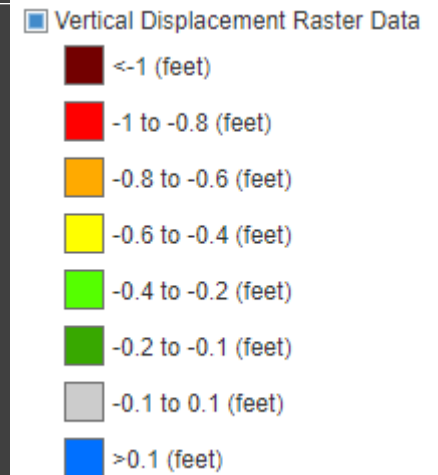




# Land Subsidence

(TRE Altamira InSAR Dataset)

<https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#currentconditions>



# Monitoring & Conditions Assessment

## INTERCONNECTED SURFACE WATERS

ISW Management Zone	State Well Number	Representative Well Number	Measurable Objective Value	Minimum Threshold Value	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	5-year Spring Average	Distance to Measurable Objective
Upper Cache Creek	11N03W23L001M	287	298.7	287.6	298.5	301.0	298.9	298.7	298.2	***	285.9	298.6	286.0	299.1	0.4
Upper Cache Creek	11N03W33F001M	289	354.3	341.2	351.5	356.2	351.6	352.0	351.3	351.2	344.4	351.4	345.8	352.5	-1.8
Upper Cache Creek	12N03W20D001M	293	385.2	376.4	383.4	387.1	382.4	383.6	382.0	382.4	380.0	383.6	378.0	384.0	-1.3
Upper Sac River	10N02E03R002M	420	23.9	-39.2	-9.8	31.8	6.5	22.3	***	15.7	***	4.4	-36.7	17.5	-6.4
Upper Sac River	12N01E03R003M	427	29.3	-35.4	14.1	28.7	14.7	23.4	6.4	20.6	-26.7	18.6	-19.5	20.5	-8.8
Upper Sac River	11N02E20K004M	421	33.5	-31.6	25.7	33.4	29.5	32.9	26.8	29.1	20.9	24.4	17.1	28.9	-4.5
Lower Sac River	09N03E33B002M	151	15.7	-35.3	4.8	19.0	3.6	15.0	-2.1	12.9	-4.2	11.4	-9.3	13.4	-2.3
Lower Sac River	10N02E36E001M	401	26.8	9.0	20.4	28.7	19.8	25.8	19.6	23.6	14.1	22.0	9.4	23.8	-3.0
Lower Sac River	08N04E19N001M	428	8.7	-1.3	3.3	11.2	3.5	7.5	2.0	6.9	2.0	7.1	1.4	7.7	-1.0
Putah Creek	08N02E18M002M	170	29.7	1.5	15.5	30.1	23.5	***	13.5	22.5	8.9	14.1	5.5	21.3	-8.3
Putah Creek	08N01W20R005M	229	91.6	36.4	44.7	75.4	60.9	72.0	45.0	59.6	31.2	47.2	26.1	61.9	-29.8
Putah Creek	08N01E17F001M	429	76.0	56.1	63.2	78.5	66.6	***	63.7	64.4	***	***	***	69.8	-6.2

ISW Management Zone	State Well Number	Representative Well Number	Measurable Objective Value	Minimum Threshold Value	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Years Below MT Value	5-year Spring Average	Distance to Measurable Objective
Lower Cache Creek	10N01W21J001M	265	132.7	131.6	127.5	137.0	130.6	131.2	129.7	129.3	115.4	124.4	106.1	3.5	129.6	-3.1
Lower Cache Creek	10N02W14A001M	275	145.4	143.2	136.0	148.7	138.4	138.8	137.2	134.1	104.8	125.4	91.3	3.5	135.9	-9.6
Lower Cache Creek	10N01W23P001M	424	115.8	116.7	113.4	118.4	***	112.2	111.8	115.7	106.3	114.1	***	2.5	115.0	-0.8
Lower Cache Creek	10N01E22H500M	425	61.2	55.1	52.8	65.5	53.1	57.3	54.4	50.1	38.4	41.2	***	2	49.6	-11.6
Lower Cache Creek	10N01W16G500M	426	138.0	132.6	129.6	139.5	133.0	133.0	129.5	130.2	102.7	123.2	102.8	2.5	131.5	-6.5

# WATER BUDGET ASSESSMENT

<b>Simulated Values</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>
Agricultural Water Demand	737,000	680,000	494,000
Agricultural SW Diversion	462,000	297,000	155,000
Agricultural GW Extraction	275,000	384,000	339,000
<b>Agricultural Total Water Use</b>	<b>737,000</b>	<b>680,000</b>	<b>494,000</b>
Urban SW Supply	32,000	28,000	30,000
Urban GW Extraction	10,000	15,000	10,000
<b>Urban Total Water Use</b>	<b>42,000</b>	<b>43,000</b>	<b>40,000</b>
Total SW Diversions	494,000	324,000	185,000
Total GW Extraction	286,000	399,000	349,000
<b>Total Water Use</b>	<b>780,000</b>	<b>723,000</b>	<b>534,000</b>
<b>Change in Groundwater Storage</b>	<b>-150,000</b>	<b>-272,000</b>	<b>-192,000</b>



# Agenda

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3. Public Forum
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  - Approve Cost Share Contribution to Update Subbasin Model and Incorporate Dunnigan Area Recharge Program
6. NCWA Update on Water Legislation, Regulatory, & Delta Issues
7. DWR Update
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- 10. Groundwater Sustainability Plan Implementation Update**
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  - **Areas of Special Concern: Summary Update on Northwest of Winters**
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# Winters Area of Special Concern Regarding Groundwater Management

A Presentation to the YSGA Board of Directors by  
Concerned Citizens in the West Winters Area

March 20, 2023

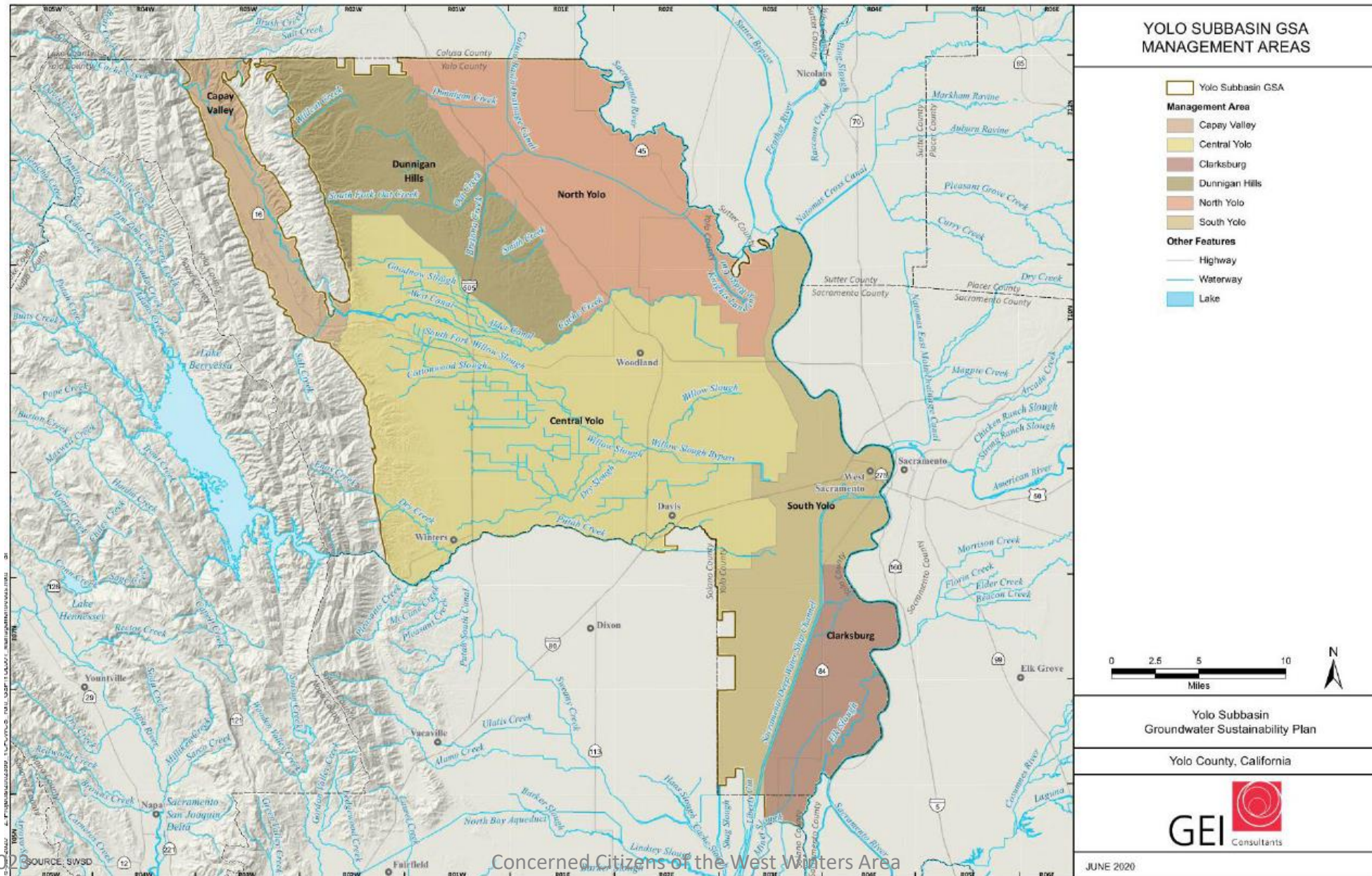
# Outline

- Yolo Subbasin Groundwater Management Framework
- Limitations of Historical Average Groundwater Levels
- Monitoring Deficiencies
- Local Domestic Well Impacts
- Recent Land and Water Use Changes
- Takeaways and Potential Solution Approaches

# Yolo Subbasin Groundwater Management Framework

- SGMA enacted 2014
- Single GSA (YSGA) formed 2017
- Initial GSP submitted 2022
- Six Groundwater Management Subareas

# Yolo Subbasin and Its Six Groundwater Management Areas



3/20/2020

SOURCE: SIWSD

Concerned Citizens of the West Winters Area

Figure 2-61. Yolo Subbasin Management Areas.



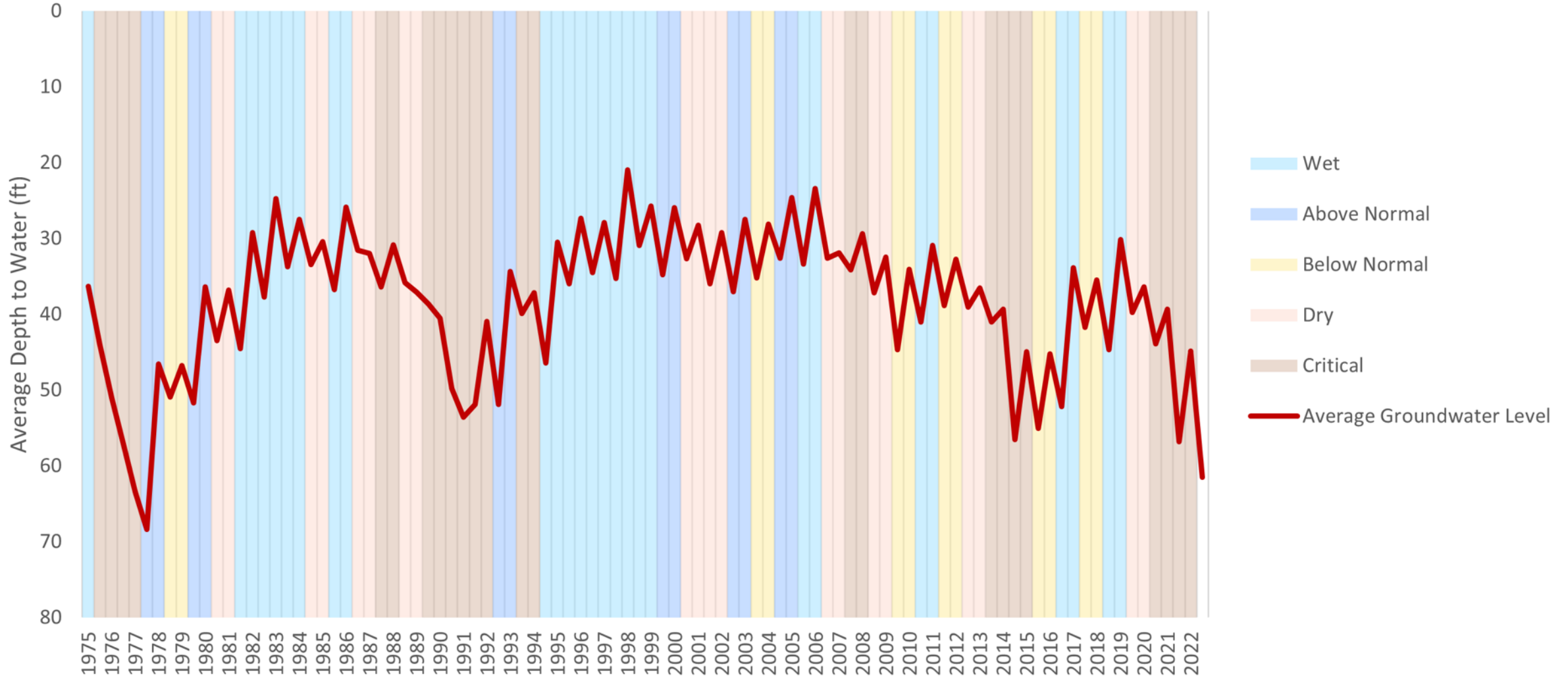
# Yolo Subbasin Groundwater Management Framework (continued)

- SGMA allows for State (SWRCB) intervention if subbasin is not being managed sustainably or if GSP is inadequate
- Most GSPs including Yolo's deliberately crafted to minimize risk of State intervention
- GSP does not necessarily prevent local adverse (or damaging) groundwater conditions from occurring

# Advisory Committee Functions (excerpts from 2022 GSP Preface)

- “Construct framework for on-the-ground implementation”
- “Provide a forum for collaboration of YSGA members and stakeholders”
- “Provide timely response to minimum threshold exceedances or other identified concerns”
- “Prioritize local implementation of projects and management actions”

# Historical Average Groundwater Level in Yolo Subbasin Representative Wells



# Ongoing Trends that Challenge the Validity of Relying on Historical Average GW Level

- Conversion from native/unirrigated to irrigated land
- Conversion from annual crops to permanent crops
- Unpredictable climate change
  - Warmer, drier climate = Increased crop water requirements
  - More extreme, persistent droughts
    - Potential reduction in surface water supply
    - Potential increased reliance on groundwater

# Local Sustainability Challenges Masked by Averages

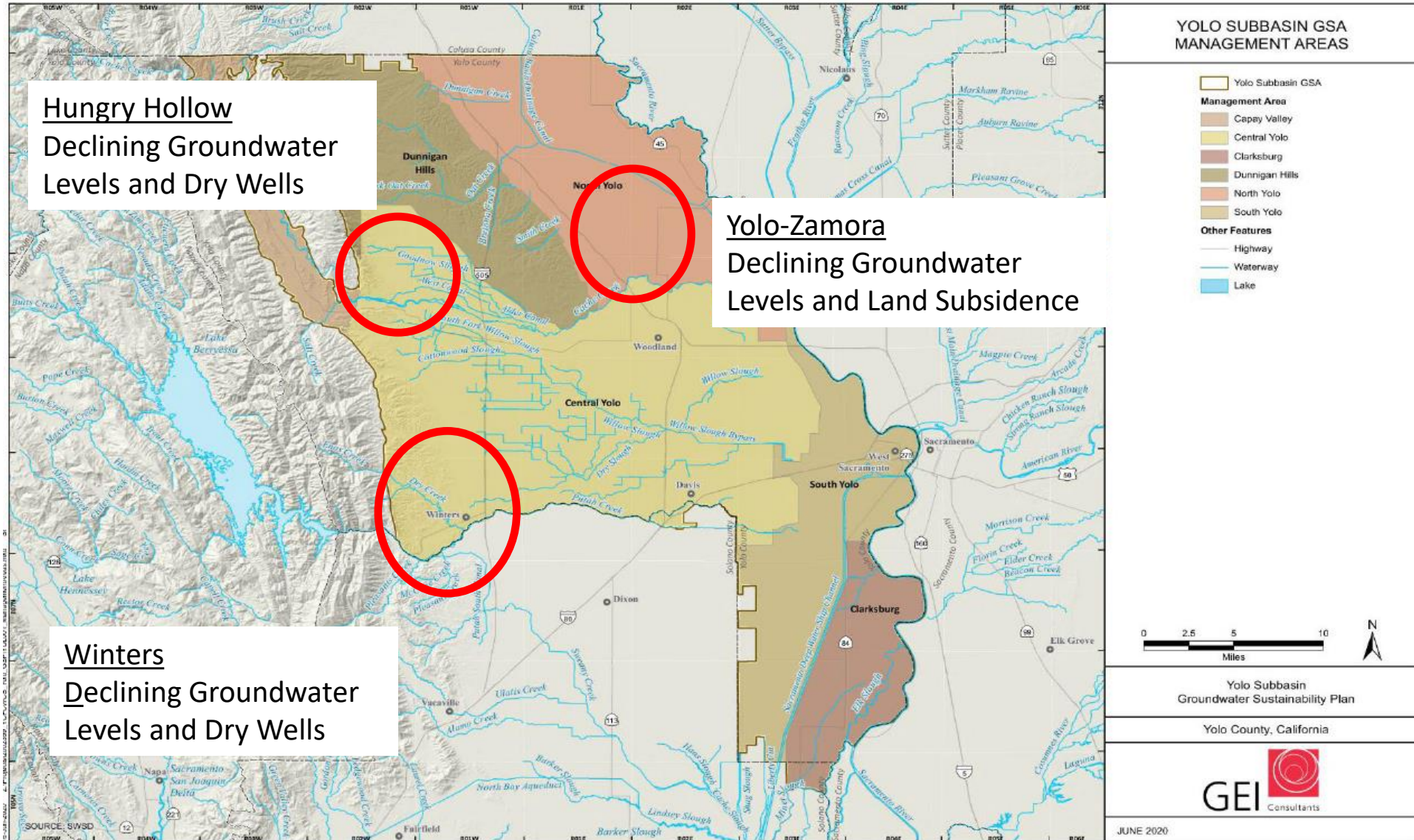
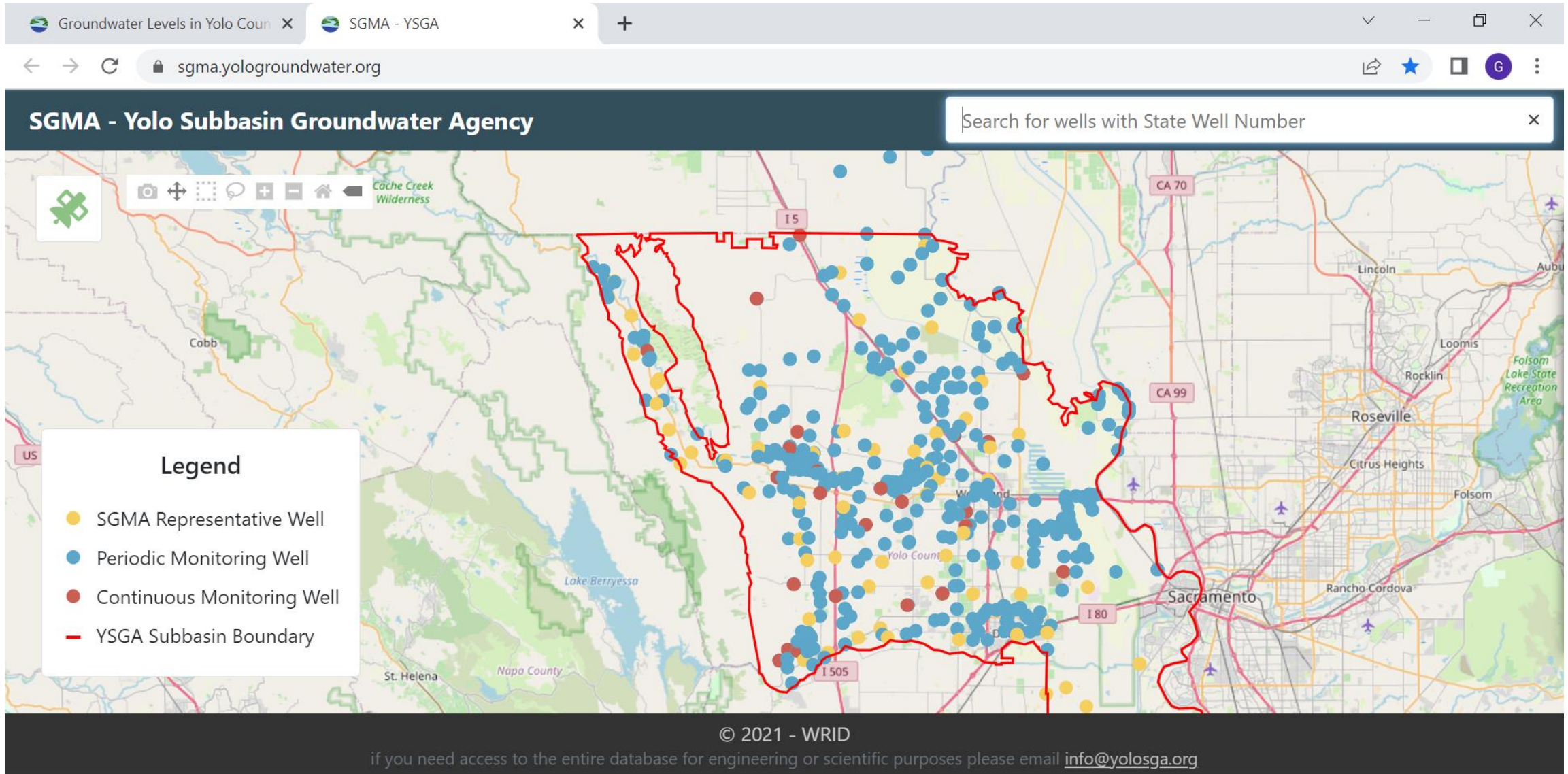


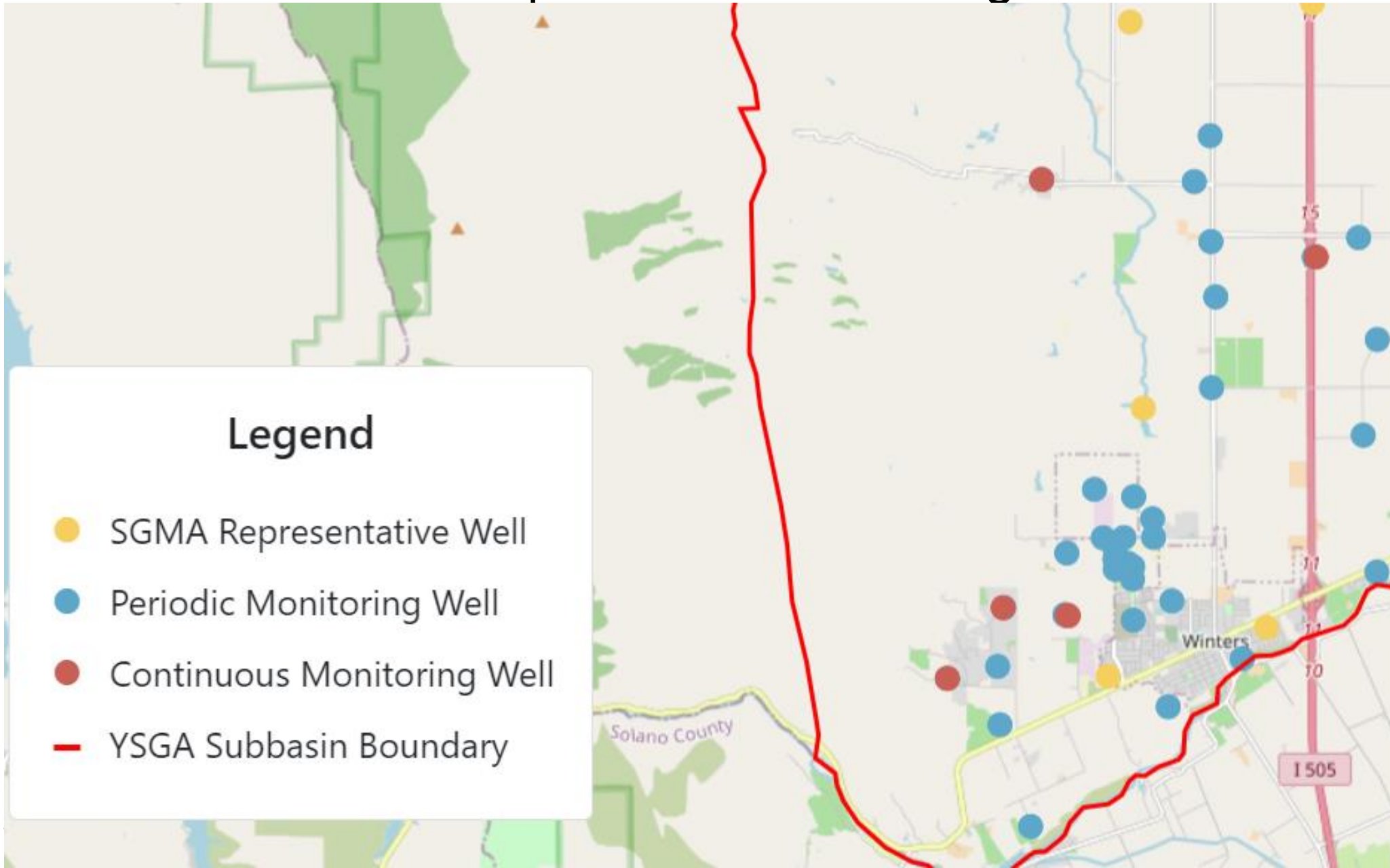
Figure 2-61. Yolo Subbasin Management Areas.



# Yolo Subbasin Groundwater Monitoring Wells



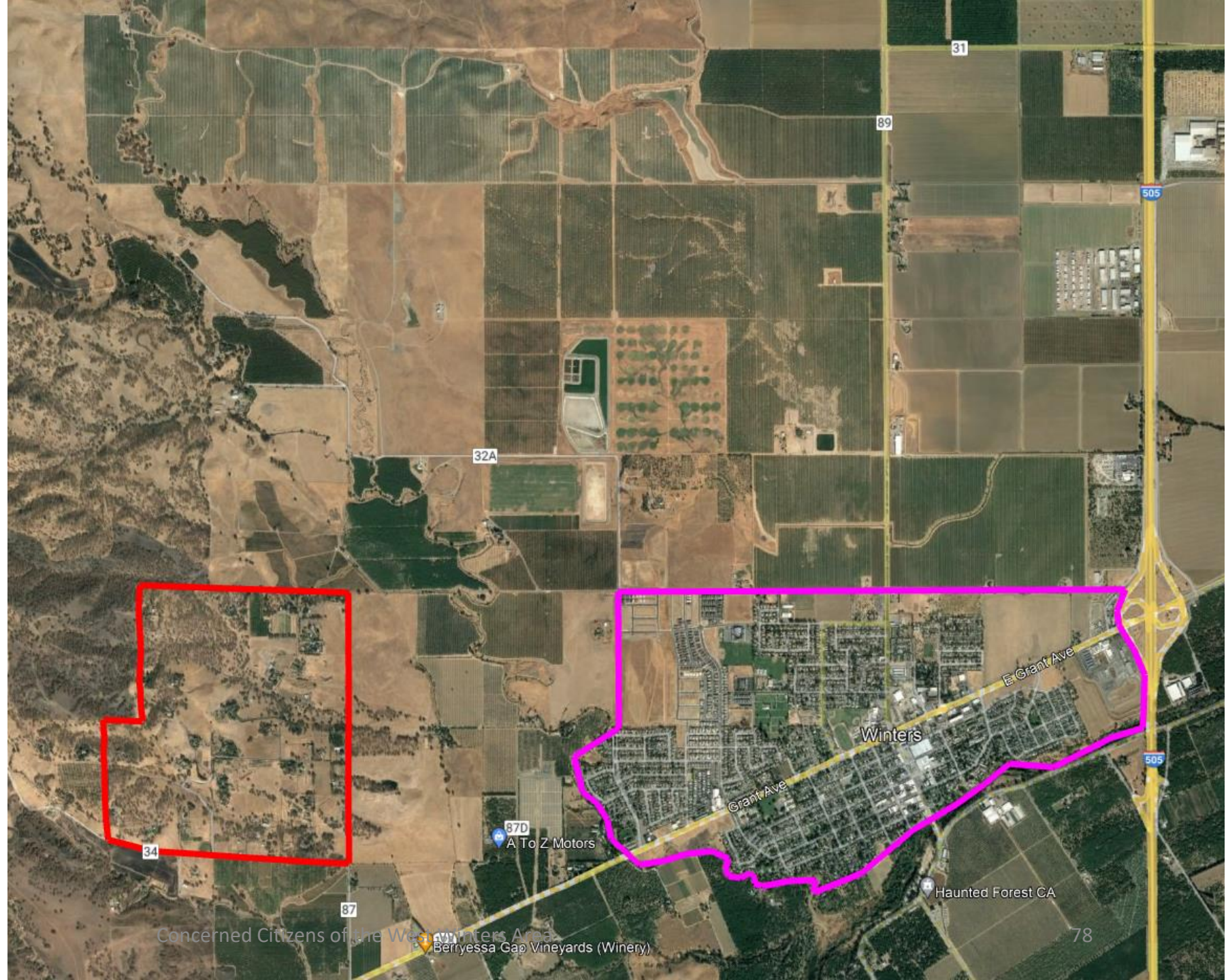
# West Winters Area Inadequately Represented by SGMA Representative Monitoring Wells





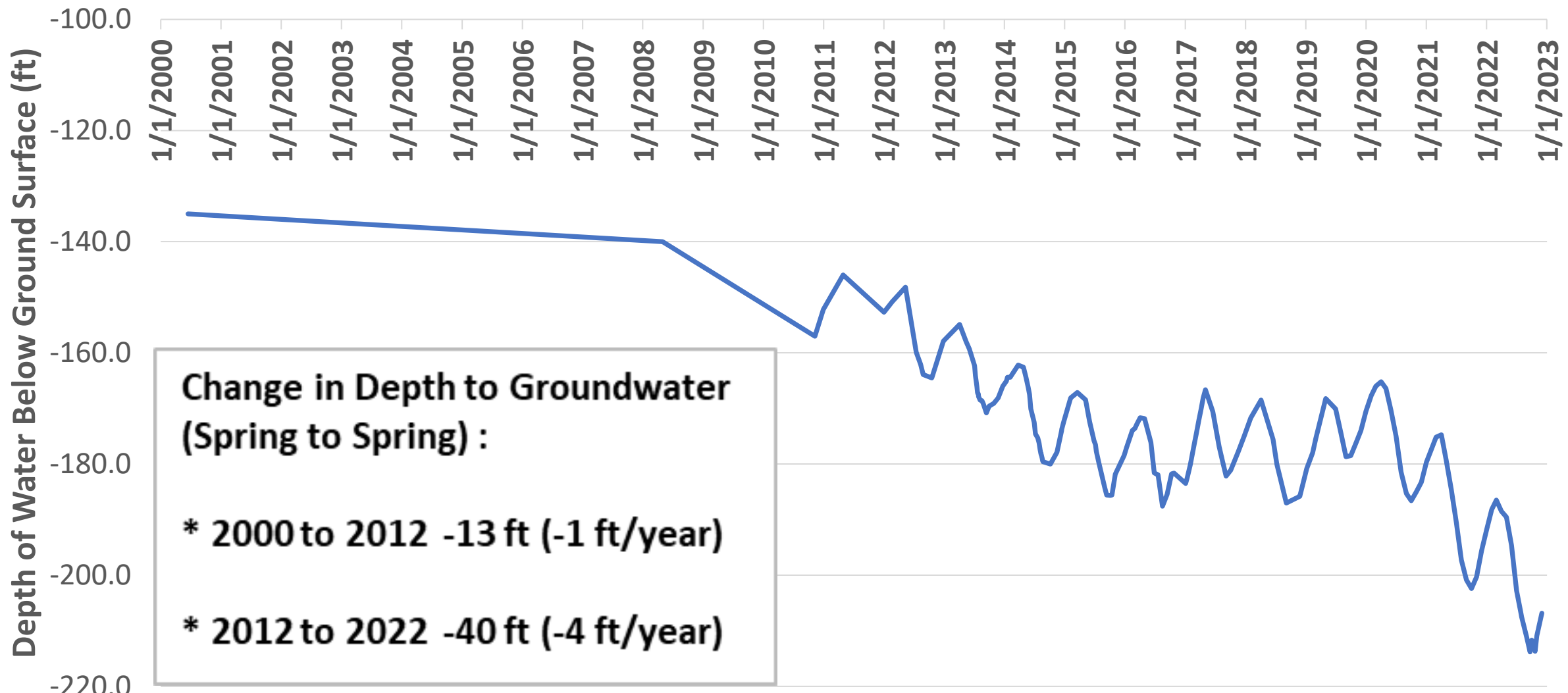
# Golden Bear Estates

- Approx. 520 acres
- 40 landowners
- Some small “family” orchards, mainly citrus
- Totally dependent on groundwater



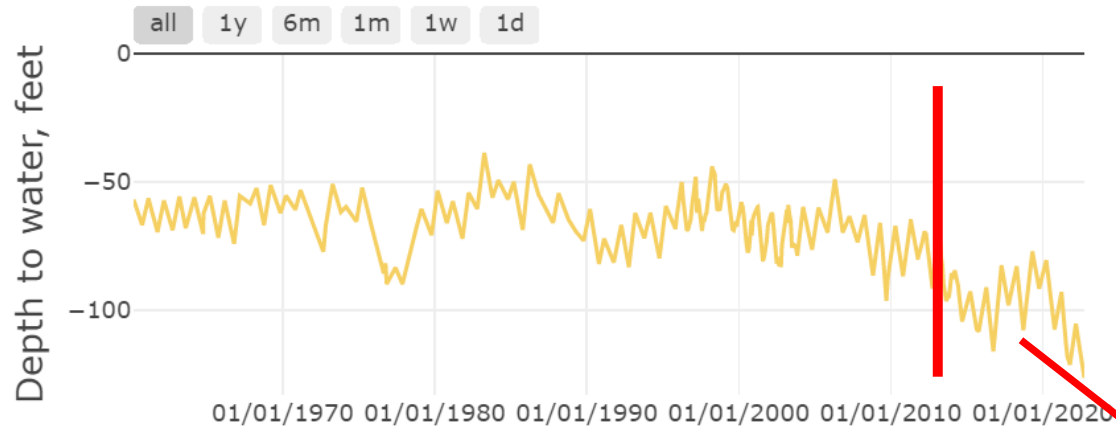
# Golden Bear Estates

## Depth to Groundwater 2000 to 2022

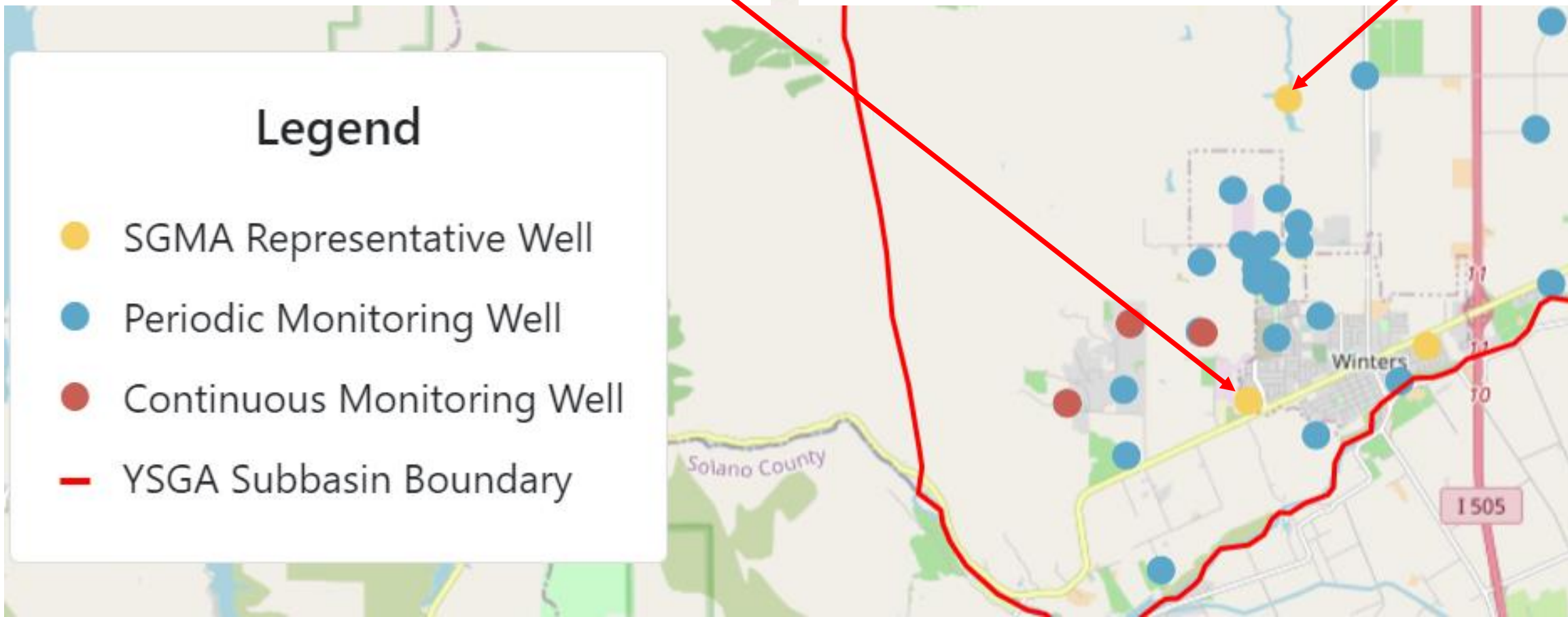




State Well #08N01W20R005M



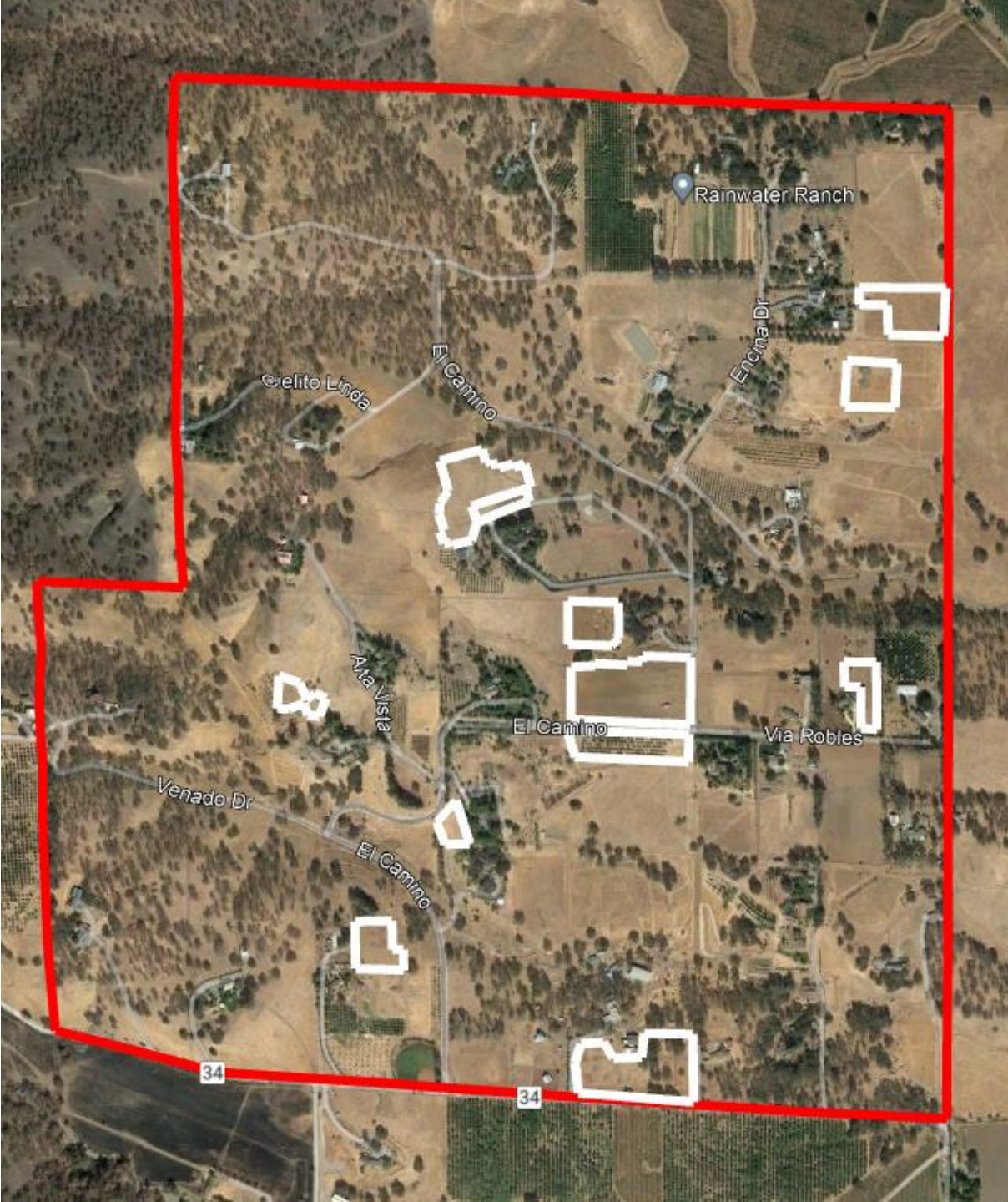
State Well #08N01W09C001M











## Family Orchards Removed in Golden Bear Estates since 2010

- 11 orchards totaling 22.1 acres
  - 18.9 acres citrus
  - 2.0 acres pomegranates
  - 1.2 acres pistachios



# Recent Winters-Area Land Use Changes

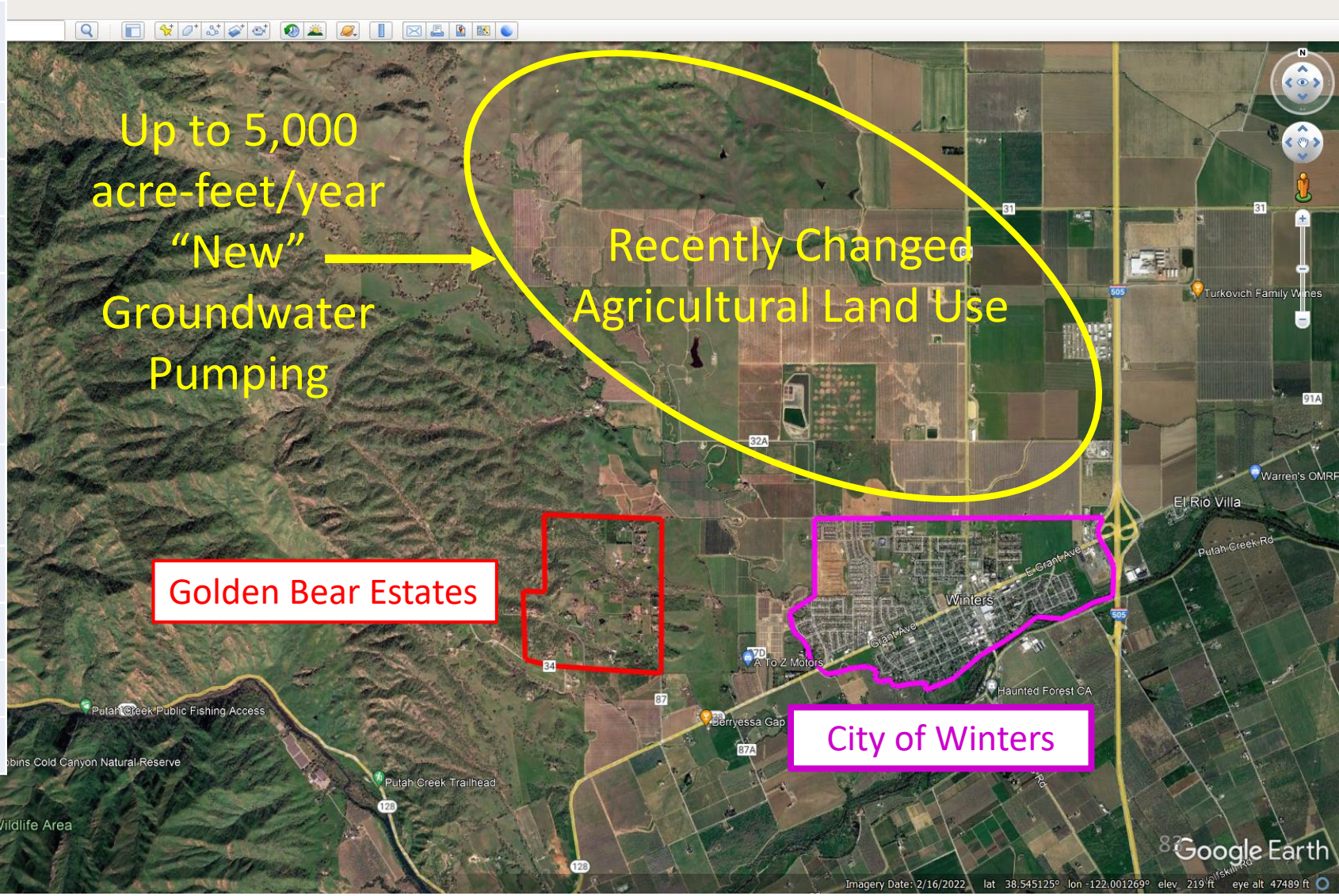
(Source: Google Earth historical satellite imagery)

## Native Grassland to Permanent Crop Conversion

Year	Area (acres)
2012	354
2013	1055
2019	41
Total	1450

## Annual Crop to Permanent Crop Conversion

Year	Area (acres)
2013	763
2016	95
Total	858



# Basic Approaches for Balancing the Winters-Area Groundwater System

- Groundwater recharge (“put more in”)

and/or

- Demand management (“take less out”)

# Domestic Well Impact Mitigation Program

- Potential near-term measure to help offset cost of domestic well replacement
- Temporary mitigation, not a long-term solution



# Key Takeaways

- The Yolo Subbasin GSP protects from State intervention but does not necessarily prevent local adverse/damaging conditions
- Adverse/damaging groundwater conditions are ongoing in the Winters Area of Special Concern
- Declining groundwater levels and domestic well stranding result from the system being “out of balance”
- Central Yolo Advisory Committee needs to be established ASAP to address local, adverse conditions

# Thank You

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