

YCFC&WCD BOARD OF DIRECTORS

July 5, 2022



YOLO COUNTY
FLOOD CONTROL &
WATER CONSERVATION
DISTRICT

Agenda Item #1

Adoption of the
June 7, 2022 Regular Board Meeting
Minutes

Agenda Item #2

Open Forum

Guest introductions, unscheduled appearances and opportunity for public comment on non-agenda items

Agenda Item #3

Adding Items to the
Posted Agenda

Agenda Item #4

Utilizing Excess Storm Flows for
Groundwater Recharge on
Agricultural Lands

SWB's Streamlined 180-day Temporary Permit

- Executive Order B-36-15 and B-39-17
- Coordination with DWR, USBR, CDFW, and CVRB
- Delta must be in excess
- Flows at Yolo gauge > 50 cfs
- Diversions allowed through 4/30

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*	0	0
2021*	0	0
2022*	0	0

* Limited rainfall and lack of excess storm flows.



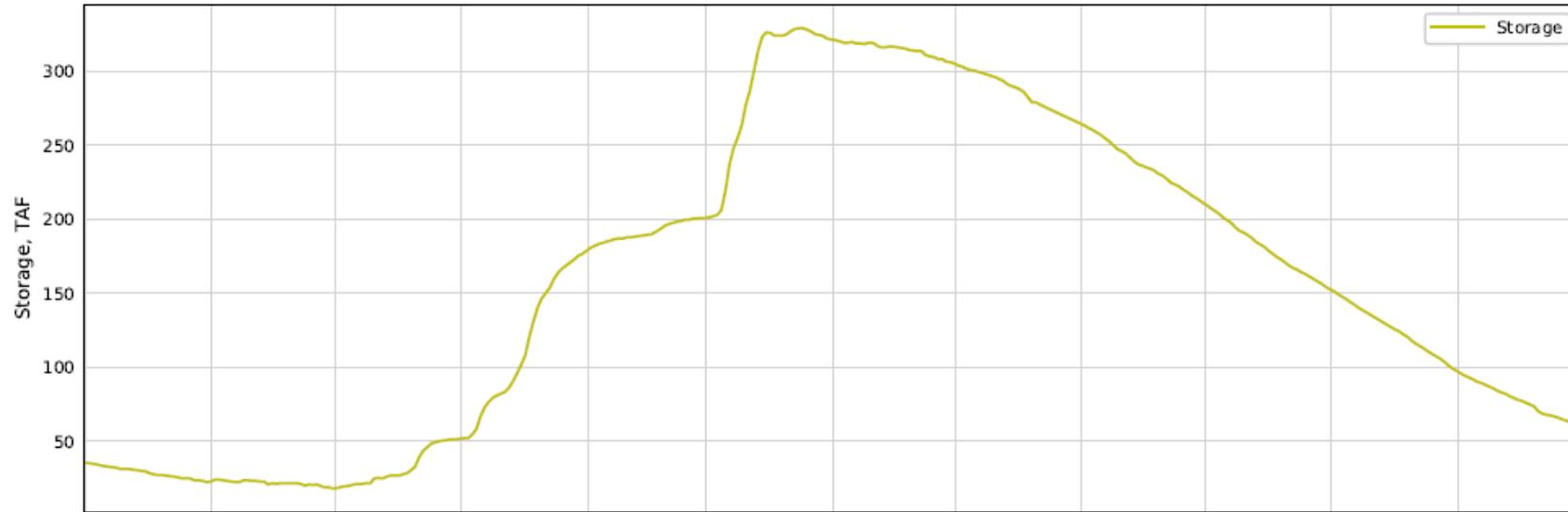


Groundwater Recharge via
Flooding Farmers Fields

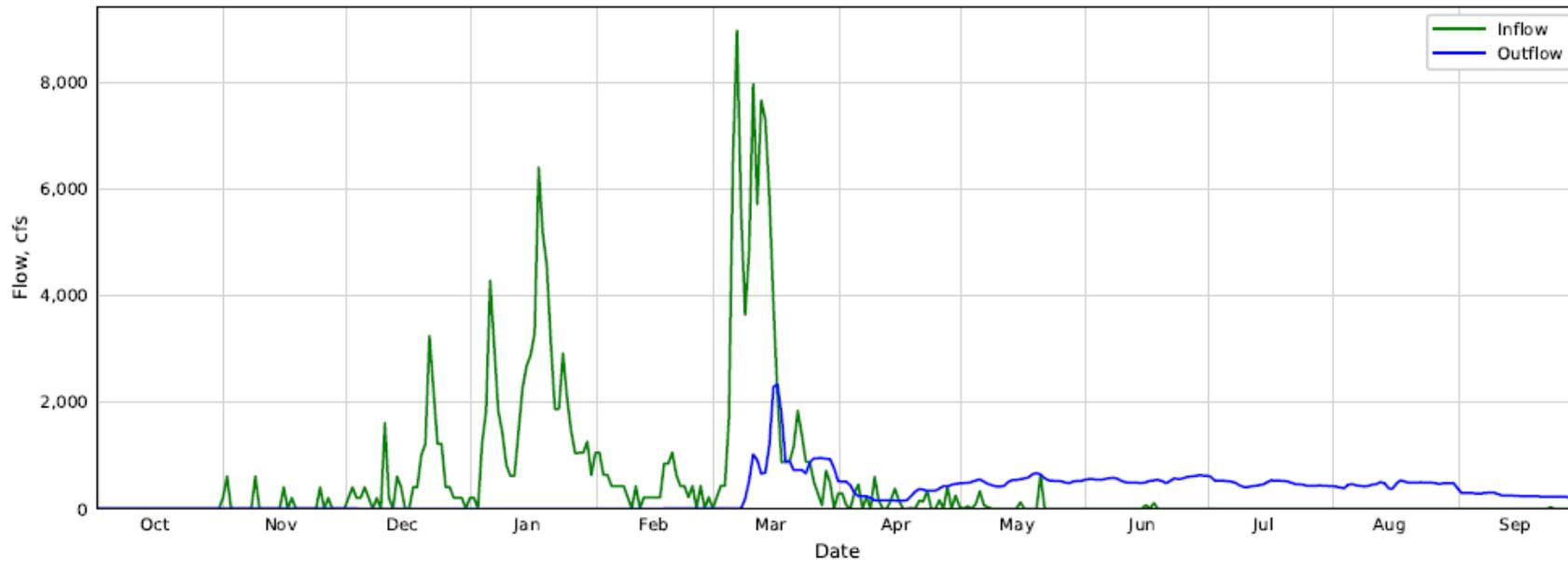


Clear Lake Reservoir Operations

Water Year 2016



Diverted 11,128 AF over 39 days at the Capay Dam



Additional Project Components

- Water Availability Analysis for Long-Term Winter Water Right
 - Delta in Excess Flow Threshold to Determine “Fish Excess Flows”
- Improvements to Canal System to Enhance Storm Deliveries
 - Optimization of Conveyance between Canal System and Sloughs
 - Monitoring/Tracking in Slough System
- Enhancement/Expansion of Acacia Canal to Promote *China Slough Rehabilitation*

Groundwater Recharge Projects: China Slough Rehabilitation



Groundwater Recharge Projects: China Slough Rehabilitation





SEEKING FARMERS

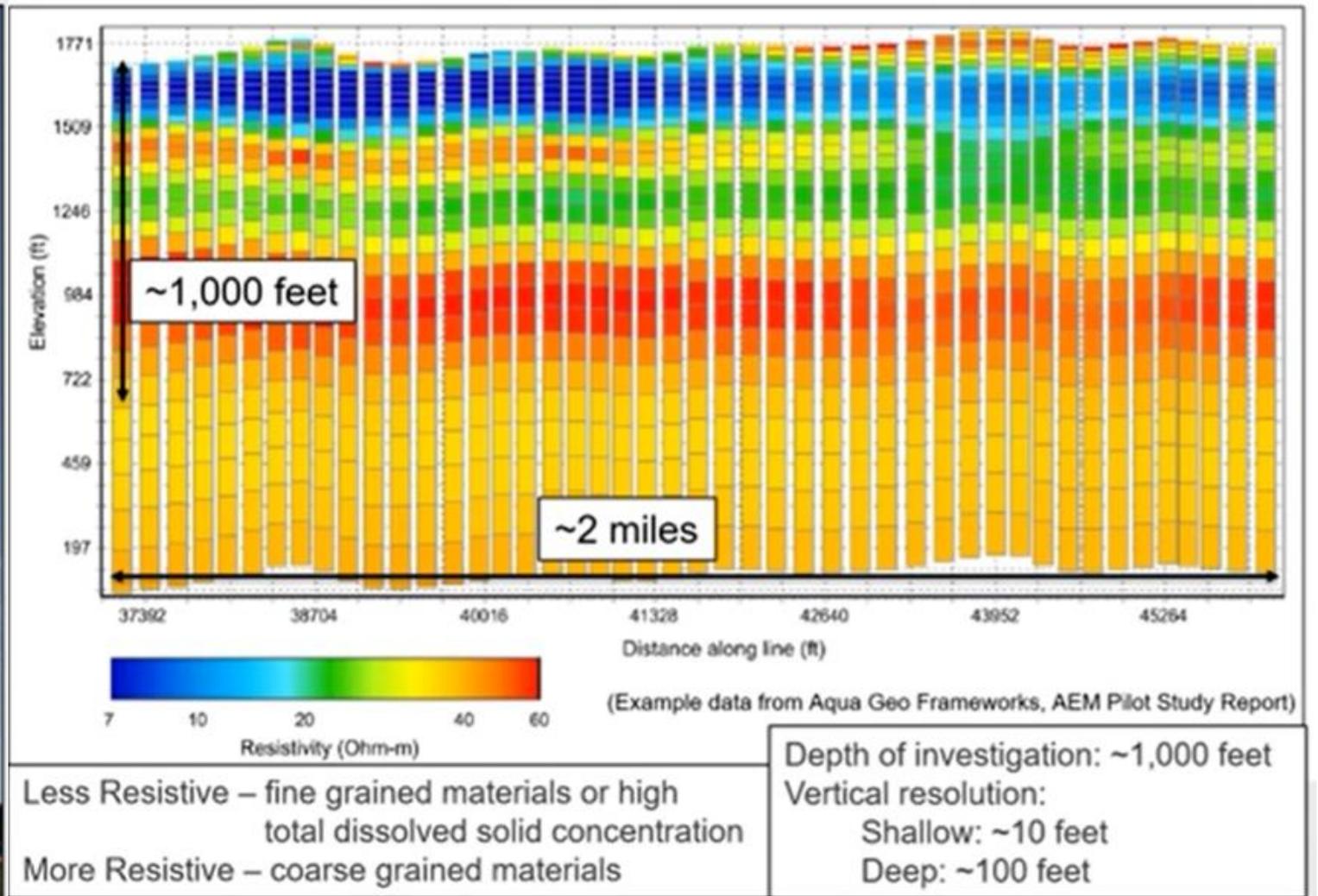
HELP SAVE BIRDS BY FLOODING YOUR FIELDS AND GET PAID TO DO IT!

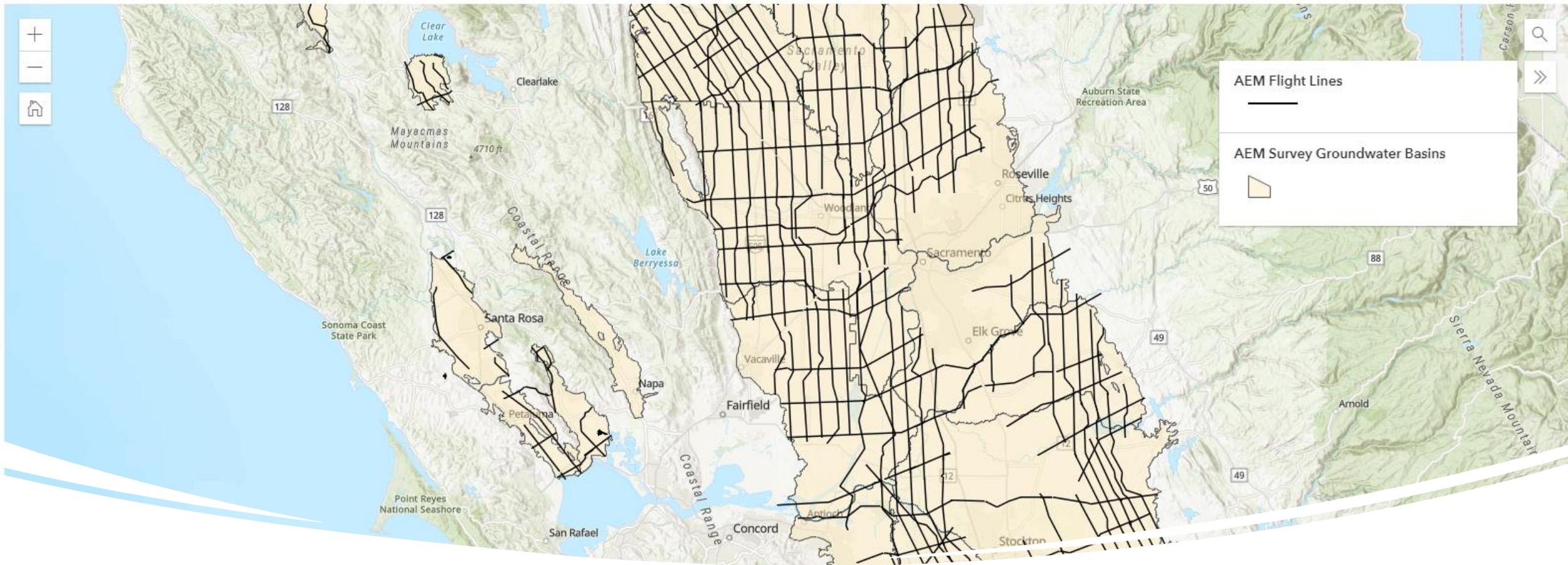
Short-term flooding for the Multi-Benefit Groundwater Recharge Program

The program pays farmers to flood their fields for groundwater recharge and short-term wetland habitat for migratory birds. This multi-benefit practice is done in the course of normal farming operations on a variety of crops. For more information, visit our website at BirdReturns.org.

Applications accepted on a rolling basis!

DWR's Airborne Electromagnetic Survey





DWR's Airborne Electromagnetic Survey

- AEM Survey Completed in Yolo County April 2022
- AEM flight line map can be found at:
<https://data.cnra.ca.gov/dataset/aem/resource/8a020073-20e4-4feb-9271-fe8f76c99a85>
- Flight paths will have a density of approximately 2 miles x 8 miles
- Data expected to be available March 2023



Sustainable Groundwater Management Funding

- DWR is administering more than \$350M in Planning and Implementation funding including, but not limited to:
 - GSP update activities and filling data gaps
 - Outreach and engagement efforts
 - Project development, planning, and construction
- Round 1 Awards Announced May 2, 2022
 - ~\$150M for Award to the COD Basins (~\$7.6M per basin)
- Round 2 Opens Late 2022/Early 2023
 - ~\$200M for Award to all High/Medium Priority Basins
 - Traditional Competitive Process (\$10M per basin)
- *More information on the [SGM Grant funding](https://water.ca.gov/work-with-us/grants-and-loans/sustainable-groundwater) on our website*

Agenda Item #5

USDA

Agricultural Research Service

Sustainable Agricultural Water Systems Unit

Agenda Item #6

Directors' Reports

Report on Meetings and Conferences Attended During the Prior Month on Behalf of the District

- i. YSGA Workshops
- ii. NCWA Board of Directors Meeting / Water Coordination and Bay-Delta Task Force Meetings

Agenda Item #7

Attorney's Reports

Report on Legal Matters of Concern to the District

- Welcome Kristin Peer
- Report of Bills of Interest

Agenda Item #8

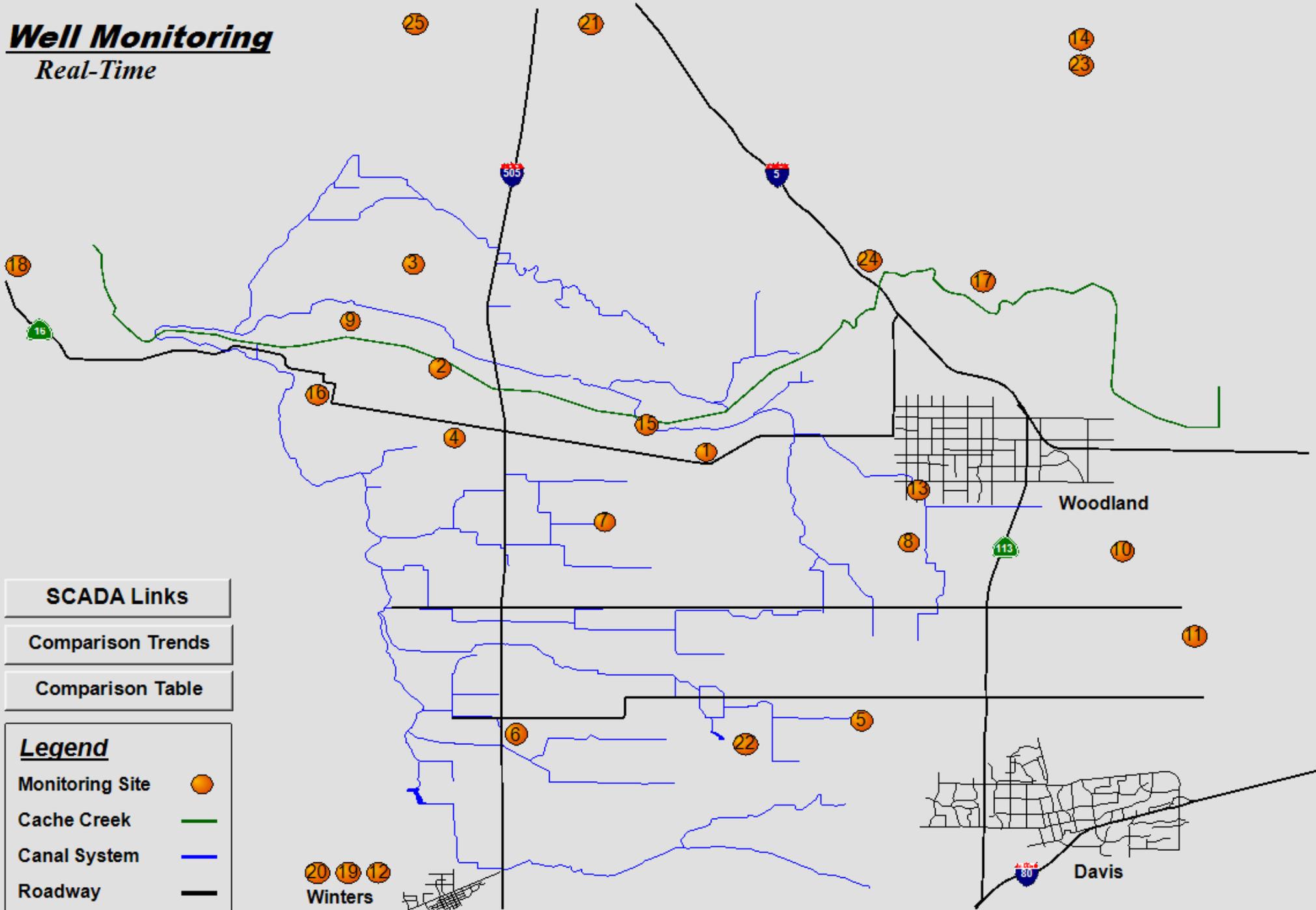
General Manager's Report

- **Water Conditions Report**
- **Financial Report Summary**
- **Capital Improvement Program**
- **General Activities**
- **YSGA Update**
- **Upcoming Events**

Current Water Conditions (07-05-22)

	<u>Elevation</u>	<u>Available</u>	<u>2021</u>
Clear Lake			
• July 5	-0.70'	0 AF	-0.35' (0 AF)
• June 5	-0.12'	0 AF	
• Total Loss	-0.58'	0 AF	
Indian Valley Reservoir			
• July 5	1,393.24'	49,210 AF	1,362.84' (20,360 AF)
• June 5	1,394.04'	50,260 AF	
• Total Loss	-0.70'	-1,050 AF	

Well Monitoring Real-Time

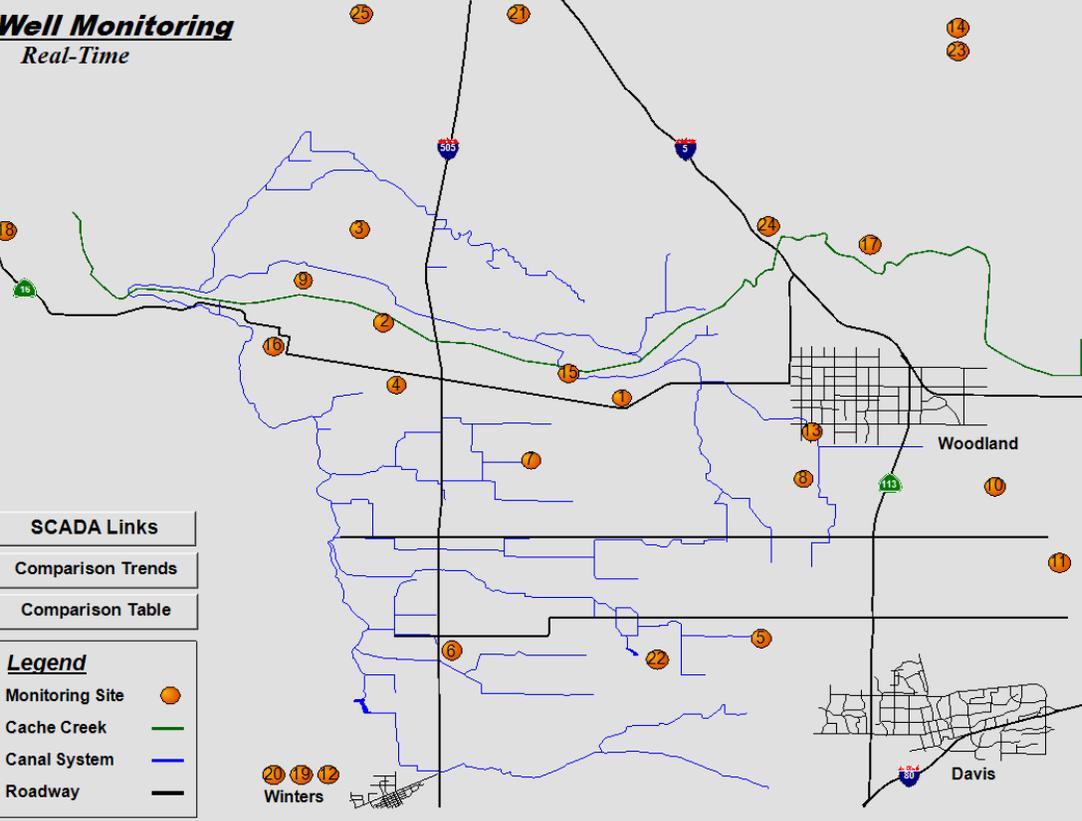


- SCADA Links
- Comparison Trends
- Comparison Table

Legend

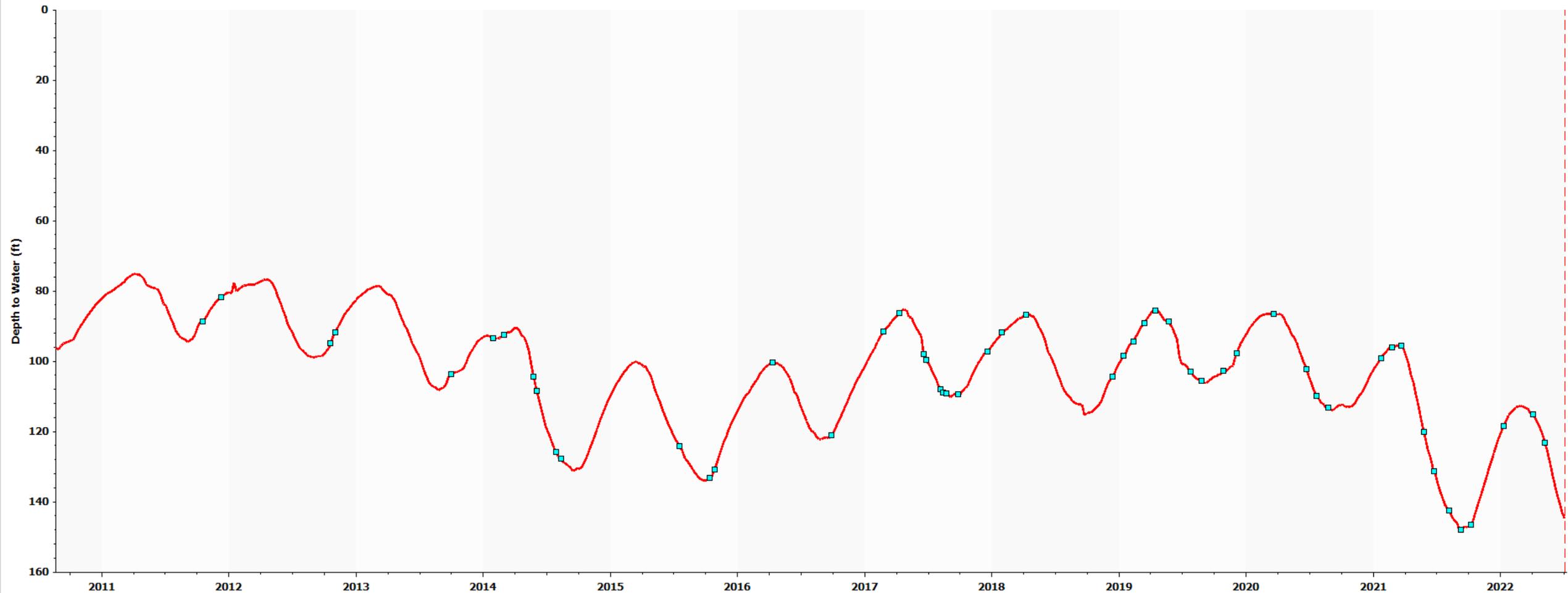
- Monitoring Site 
- Cache Creek 
- Canal System 
- Roadway 

20 19 12
Winters



Well	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Δ 2021 - 2022	Δ 2015 - 2022
1.	91.9	85.9	92.5	100.2	120.3	122.3	115.8	101.6	103.9	103.5	106.6	135.9	145.6	-9.8	-23.3
2.	36.0	39.1	48.8	51.9	57.2	48.6	49.2	29.2	33.1	29.0	31.6	39.6	50.5	-10.9	-1.9
3.		38.9	44.1	50.1	78.7	75.0	60.6	37.9	43.0	36.7	42.8	63.8	83.9	-20.1	-9.0
4.		31.0	36.4	50.9	66.9	66.0	53.7	39.3	34.6	31.7	36.2	55.4	68.6	-13.2	-2.6
5.		14.6	15.3	18.5	32.2	33.5	36.4	20.7	28.4	15.8	21.6	33.3	41.3	-7.9	-7.7
6.			58.9	60.1	88.0	82.1	63.6	45.2	51.0	39.0	43.5	64.6	81.5	-16.9	.6
7.					32.2	41.7	26.7	17.3	19.5	16.1	23.3	41.1	45.1	-4.0	-3.4
8.					94.8	93.0	85.9	66.2	73.8	56.4	66.0	89.0	97.5	-8.5	-4.6
9.					69.9	67.8	56.9	40.2	44.2	39.4	44.3	58.0	73.7	-15.7	-5.9
10.						134.1	116.8	55.8	103.4	65.7	100.1	124.8	138.0	-13.2	-3.9
11.						33.7	28.4	17.0	23.4	16.3	25.1	31.6	35.3	-3.7	-1.6
12.										117.8	131.3	140.1	154.6	-14.5	
13.									124.6	88.6	109.4	136.8	141.6	-4.8	
14.										8.8	10.0	13.2	12.4	.0	
15s.									39.7	34.5	37.5	51.5	49.0	2.5	
15d.									155.8	136.9	146.1	226.9	269.4	-42.5	
16.										33.1	40.2	46.2	55.8	-9.5	
17.										20.4	23.0	31.9	35.3	-3.4	
18.										48.9	67.5	101.6	86.0	15.6	
19.										170.6	176.4	191.1	203.6	-12.5	
20.										199.3	199.2	199.1	198.7	.4	
21.											125.9	135.7	142.2	-6.5	
22.												115.8	124.3	-8.4	
23.												98.5	86.7	11.802	
24.													84.9		
25.													102.3		

1. HQ Well Depth to Water

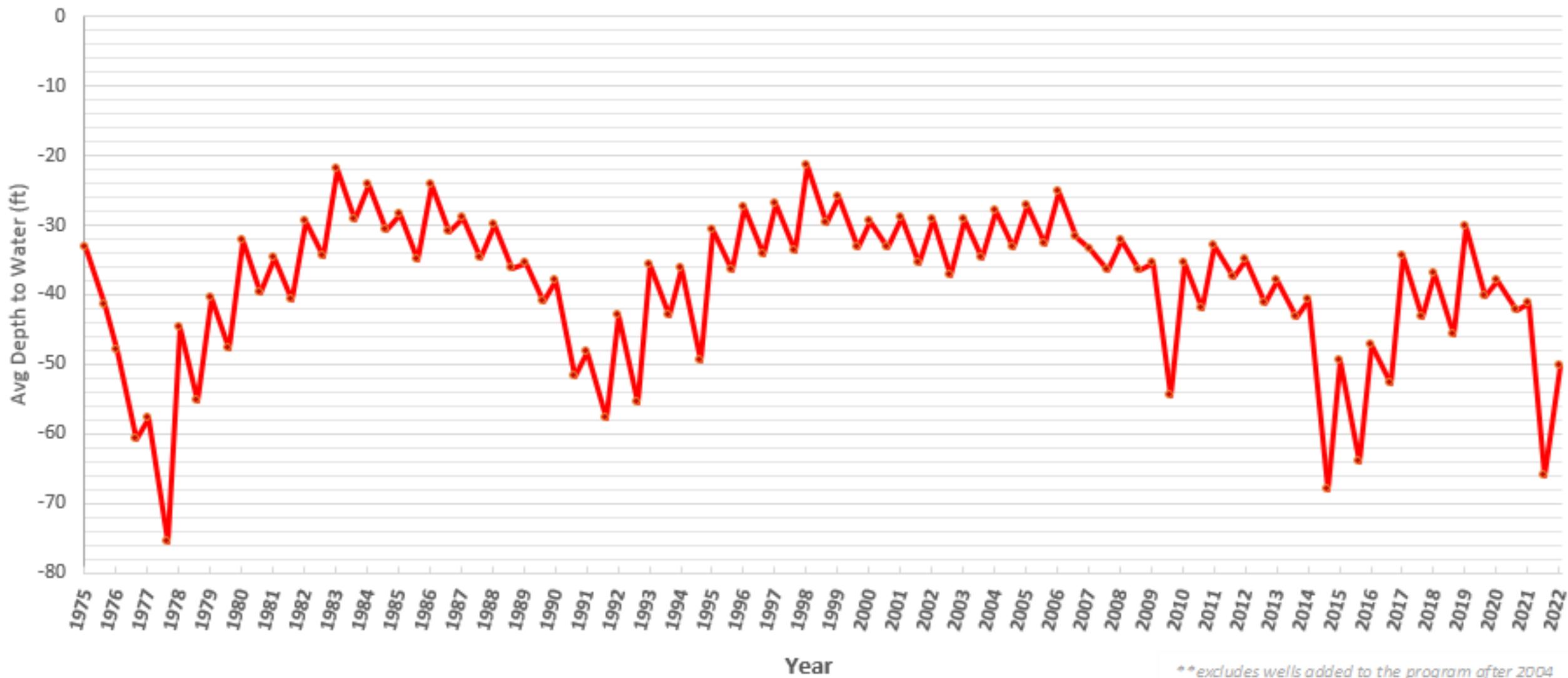


Depth to Water
6/5/21: 124.8 feet
7/5/21: 134.9 feet
Δ -10.1 feet

Depth to Water
6/5/22: 134.8 feet
7/5/22: 145.6 feet
Δ -10.8 feet

YCFCWCD Average Groundwater

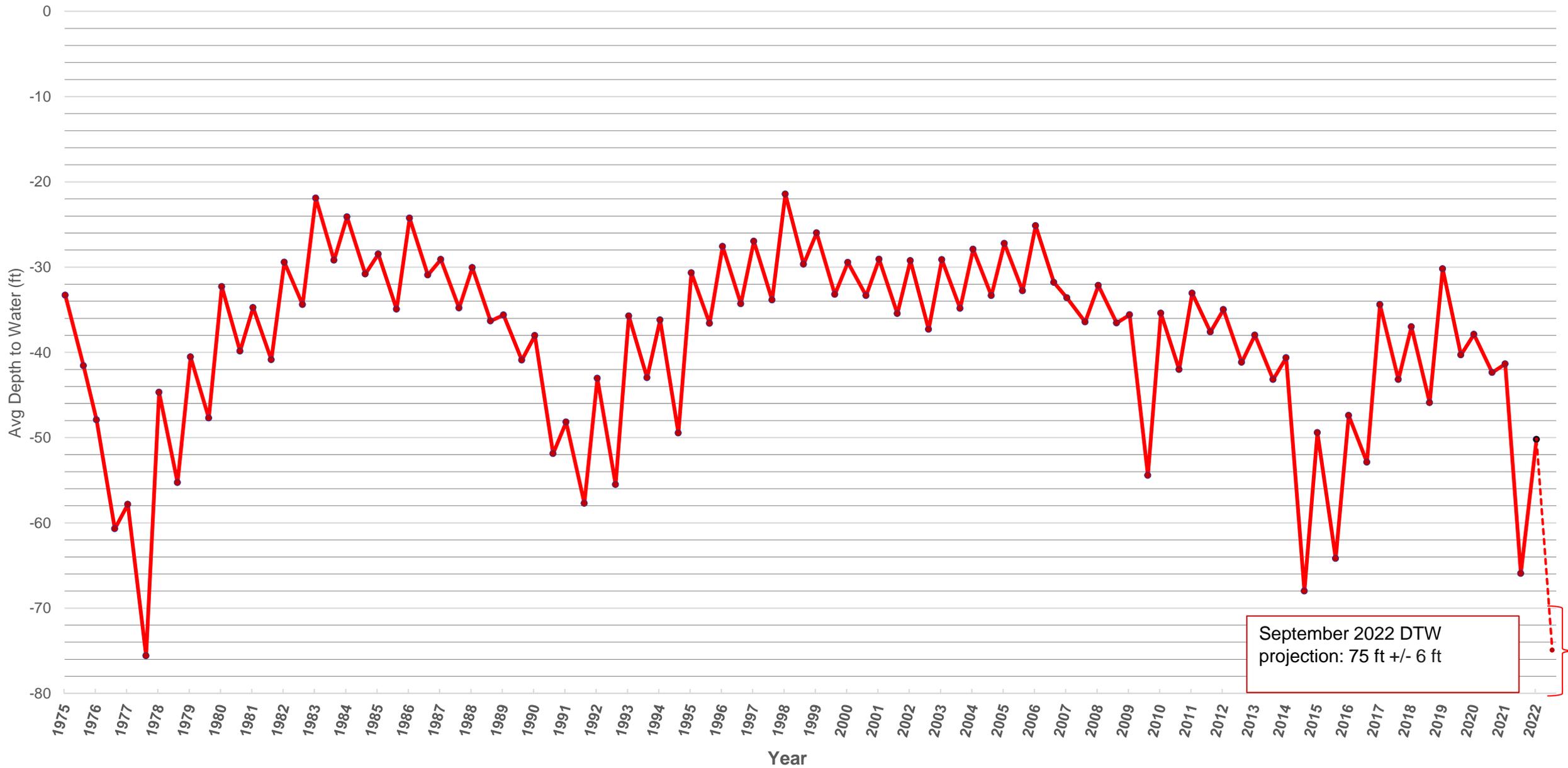
*Depth by Season (Spring 2022 is 131 wells)***



***excludes wells added to the program after 2004*

YCFCWCD Projected Average Groundwater

Depth by Season (Spring 2022 is 131 wells)**



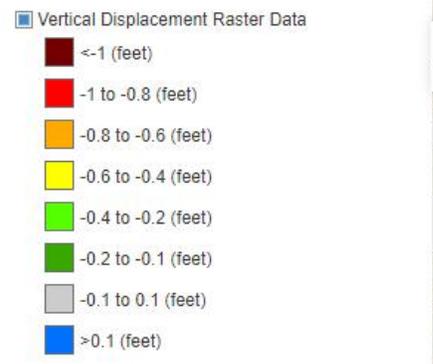
September 2022 DTW
projection: 75 ft +/- 6 ft

- Current Conditions
- Groundwater Levels
- Groundwater Storage
- Water Quality
- Land Subsidence**

- Land Subsidence Layers**
- DWR Extensometers
 - USGS Extensometers
 - GPS Stations
 - Estimated Vertical Displacement SJV DWR 1949 to 2005 (feet)

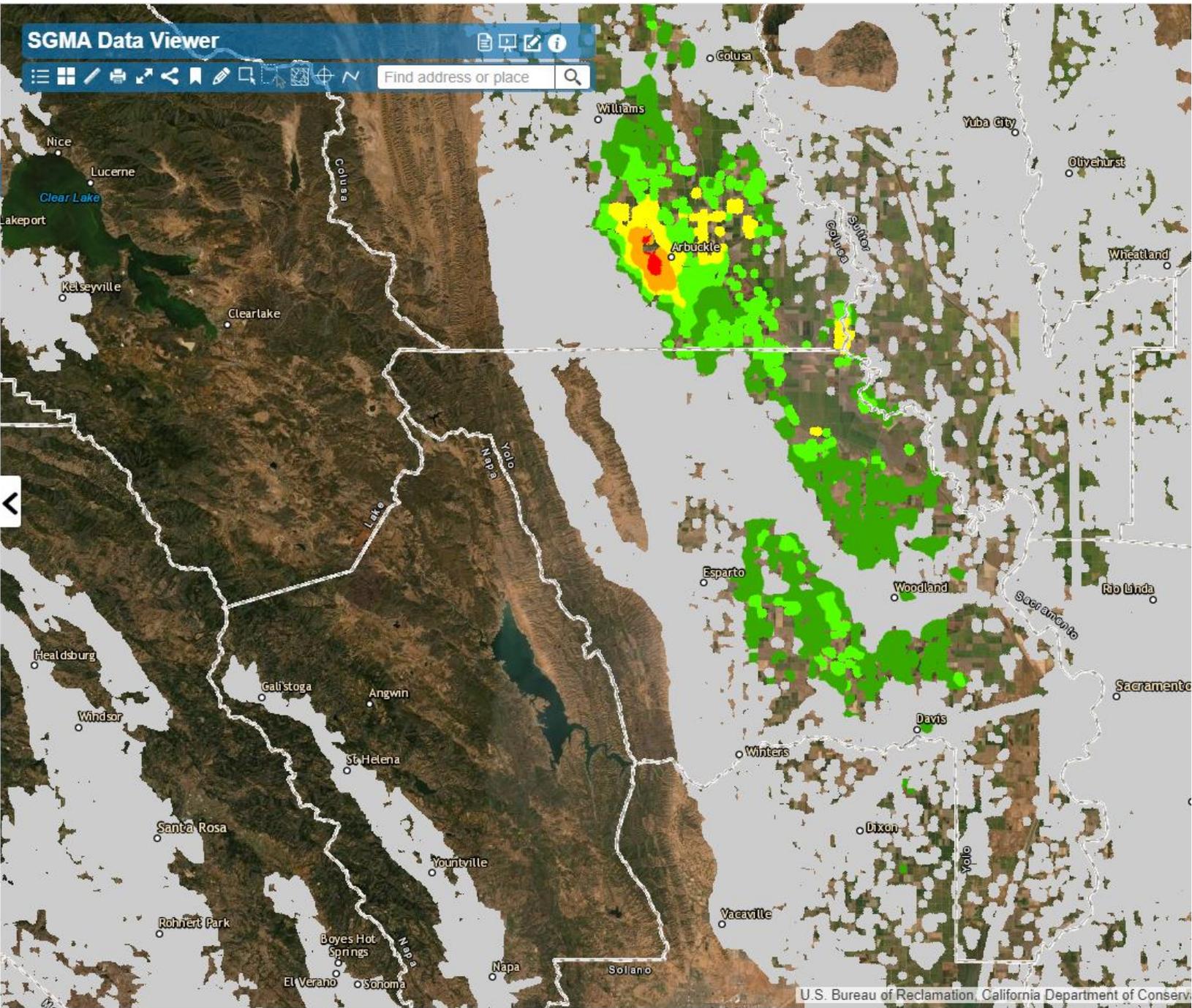
TRE Altamira InSAR Dataset

- Vertical Displacement Point Data
- Annual Raster
- 04/01/2021 x 04/01/2022 x



- Interconnected Surface Water
- Water Budget
- Hydrogeologic Conceptual Model
- Reference Layers

Download Layer Data Clear All Layers



Curtailments Expanded throughout the Delta Watershed

From the State Water Resources Control Board:

This email contains important information about the curtailment status of water rights and claims of right within the Sacramento-San Joaquin Delta (Delta) watershed pursuant to Initial Orders Imposing Water Right Curtailment and Reporting Requirements in the Delta Watershed ([Order for water rights/claims under 5,000 acre-feet](#) and [Order for water rights/claims over 5,000 acre-feet](#)).

The following water rights are curtailed, effective June 8, 2022, unless and until the State Water Board advises that this determination has been updated:

1. Water rights and claims on the following [Sacramento River](#) tributaries:
 1. Post-1914 appropriative water rights and pre-1914 appropriative water right claims in the [Putah Creek](#) subwatershed outside of the Legal Delta with a priority date of 1850 or later;
 2. Post-1914 appropriative water rights and pre-1914 appropriative water right claims in the [Cache Creek](#) subwatershed with a priority date of 1859 or later;
 3. Post-1914 appropriative water rights in the [Bear River](#) subwatershed with a priority date of 1942 or later; and
 4. Post-1914 appropriative water rights in the [Stony Creek](#) subwatershed with a priority date of 1957 or later.

The above curtailments consider the following technical and policy inputs to the Water Unavailability Methodology for the Delta Watershed (methodology):

1. **Reimposition of curtailments based on the subwatershed-scale analysis.** As opportunities to divert limited snowmelt pass, the Deputy Director for Water Rights has determined in the exercise of his discretion under section 876.1, subdivision (d) of the [Drought Emergency Regulation](#) that the curtailments imposed today will account for both local water unavailability in headwater subwatersheds and watershed-wide conditions.
2. **Modification of demands for water rights and claims associated with contractual agreements with the U.S. Bureau of Reclamation (Reclamation) and the California Department of Water Resources.** Sacramento River Settlement Contractor and Feather River Contractor demands were reduced consistent with contractual agreements applicable this year and San Joaquin River Exchange Contractor demands were increased to account for demands for San Joaquin River water due to reduced deliveries of water from the Sacramento River watershed provided by Reclamation.
3. **No curtailment of rights and claims within the Legal Delta.** In coordination with the Office of the Delta Watermaster, Division of Water Rights staff are in the process of updating several technical assumptions regarding water unavailability within the Legal Delta. Pending completion of those updates, rights and claims within the Legal Delta will not be curtailed pursuant to the Drought Emergency Regulation. [Term 91](#) curtailments will continue to apply to rights within the Legal Delta containing Term 91.

The above curtailments factor in estimated agricultural and municipal return flows based on [CalSim 3](#) results for 1976 and reduced demands associated with [Central Valley Project](#) and [State Water Project](#) exports from the Delta under the State Water Board's April 4, 2022 [Order Approving Temporary Urgency Changes to Water Right License and Permit Terms Relating to Delta Water Quality](#).

<https://mavensnotebook.com/2022/06/07/this-just-in-curtailments-expanded-through-out-the-delta-watershed/>

Preliminary Financial Report

Highlights as of June 30, 2022

Preliminary Budget Summary as of 06/30/2022

Key Revenue Drivers	Year-to-Date	Budget	Difference
Agricultural Water Sales	\$21,000	\$84,500	(\$63,500)
Non-Agricultural (M&I) Water Sales	\$27,500	\$334,200	(\$306,700)
Property Taxes	\$7,700	\$1,657,600	(\$1,649,900)
IV Dam Hydro (less fees)	\$0	\$0	\$0
Other Revenue	\$78,100	\$716,000	(\$637,900)
<i>Shared Services Revenue</i>	\$63,300	\$300,000	(\$236,700)
<i>YSGA Reimbursements</i>	\$0	\$275,000	(\$275,000)
<i>Interest</i>	\$2,000	\$20,000	(\$18,000)
<i>Other</i>	\$12,800	\$121,000	(\$108,200)
TOTAL REVENUE	\$134,300	\$2,792,300	(\$2,658,000)

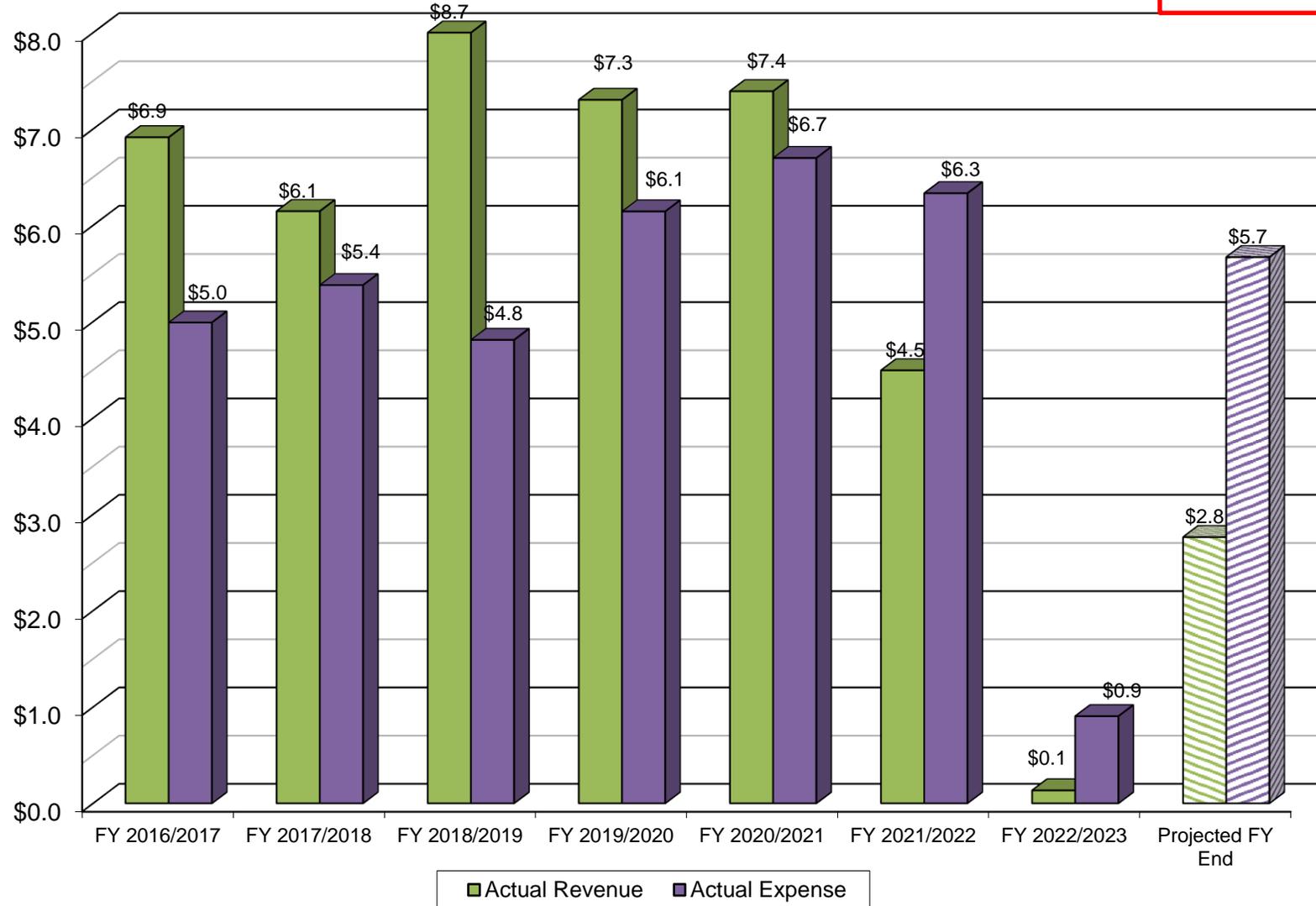
Key Expense Drivers	Year-to-Date	Budget	Difference
Transmission and Distribution (O&M)	\$125,000	\$1,060,200	(\$935,200)
General Administration	\$305,300	\$2,147,200	(\$1,841,900)
Other Expenses	\$474,300	\$2,652,700	(\$2,178,400)
TOTAL EXPENSES	\$904,600	\$5,860,100	(\$4,955,500)

Preliminary Financial Report

Comparison of Actual Revenue vs. Actual Expense

Original Budget
\$2.8 / \$5.9

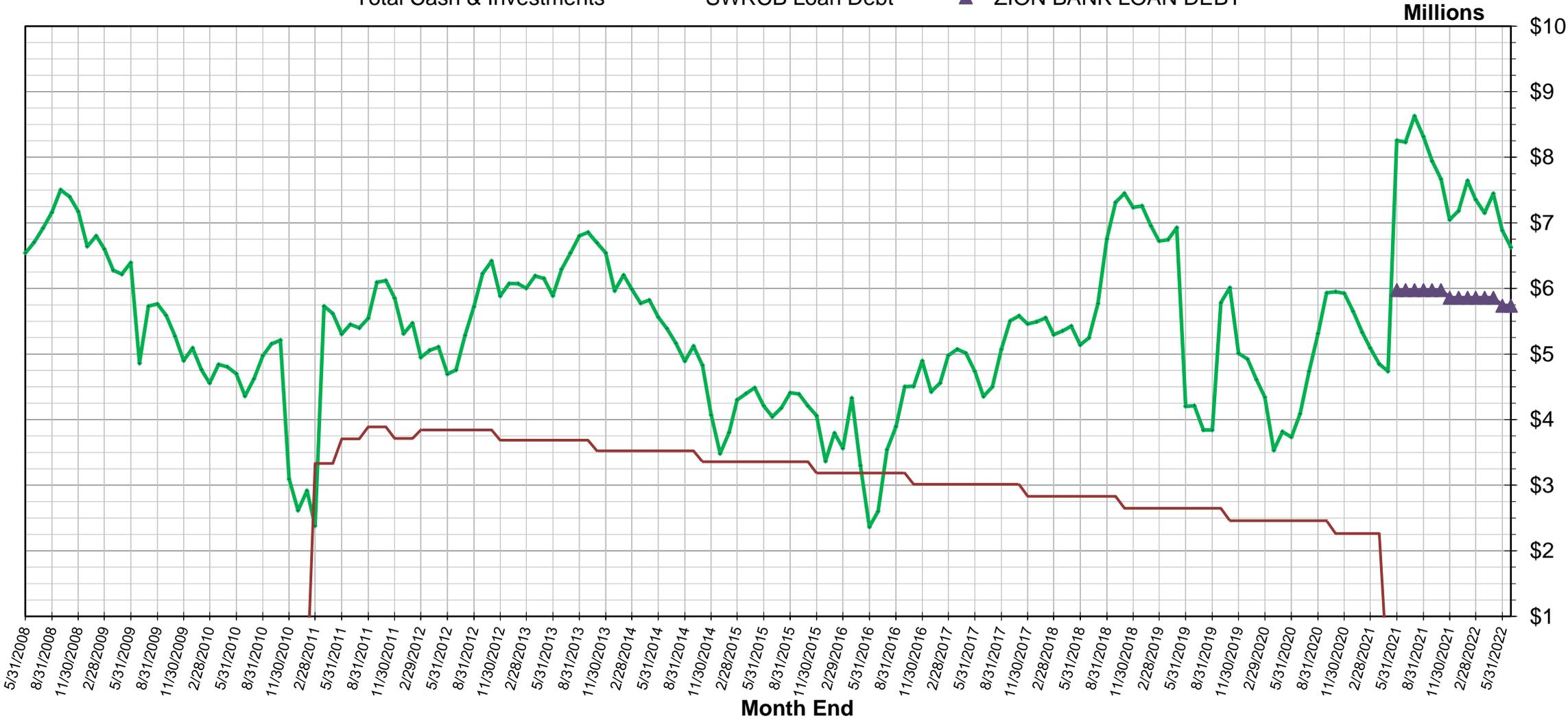
Millions



Preliminary Financial Report

Cash History

— Total Cash & Investments — SWRCB Loan Debt ▲ ZION BANK LOAN DEBT



Capital Improvement Program

Planning for Capital Jobs

Capay Dam Alternatives Assessment

- Reliable, cost-effective solution with same operational flexibility
- Proposals for Replacement Alternatives Analysis (2/3 received)
- Quotes from HTE Engineering and Obermeyer for Cost of Installation of Replacement Bladder
- Reviewed Proposals with Infrastructure Committee on 3/30

FY 22/23 Planning Activities Related to Large Capital Jobs

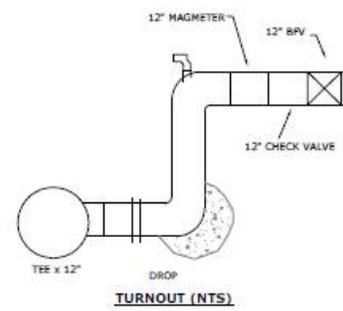
Hungry Hollow Canal – Pipeline Extension Project



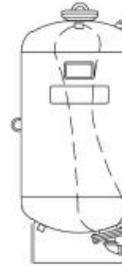
Discussion of FY 22/23 Planning Activities Related to Large Capital Jobs

- Indian Valley Reservoir – 60” Hollow-Jet Valve Rebuild: ~\$200k
- FERC Part12D Recommendations
 - Photogrammetric Topo Survey of Eastern Ravine: ~\$30k
 - Potential Failure Mode Analysis Investigations: ~\$100k
 - Spillway Repair Project: ~\$300k (FY 23/24)
 - Dam Seepage Monitoring: ~\$500k (FY 23/24, maybe pushback)
 - Penstock and Spillway Gates Recoating Project: ~\$800k (FY 24/25)

Update on Hungry Hollow Canal Pipeline Extension Project

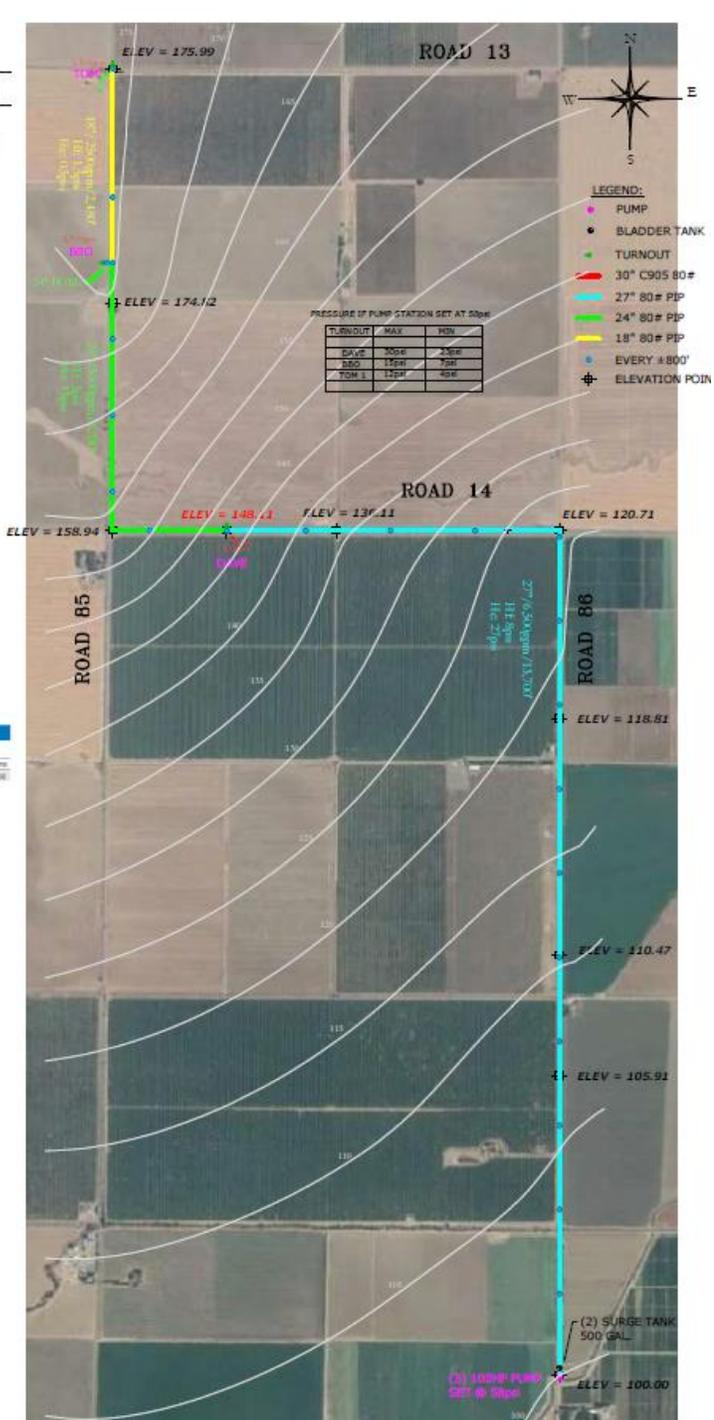
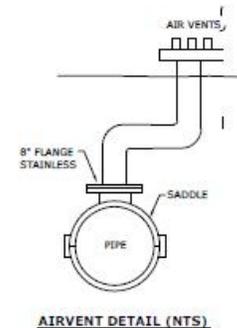
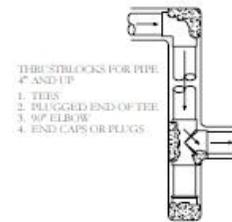


BLADDER TANK



ASME Full Acceptance Bladder Series Specifications

Model	TPA (Pounds)	Max. Allow. Working Pressure (PSI)	Max. Working Volume (Gallons)	Max. Working Temperature (°F)	Max. Working Pressure (PSI)	Max. Working Volume (Gallons)	Max. Working Temperature (°F)
BLADDER	500	80	80	120	1,500	1,500	1,200
	500	80	80	120	1,500	1,500	1,200



General Activities (June 8-July 5)

PROJECTS:

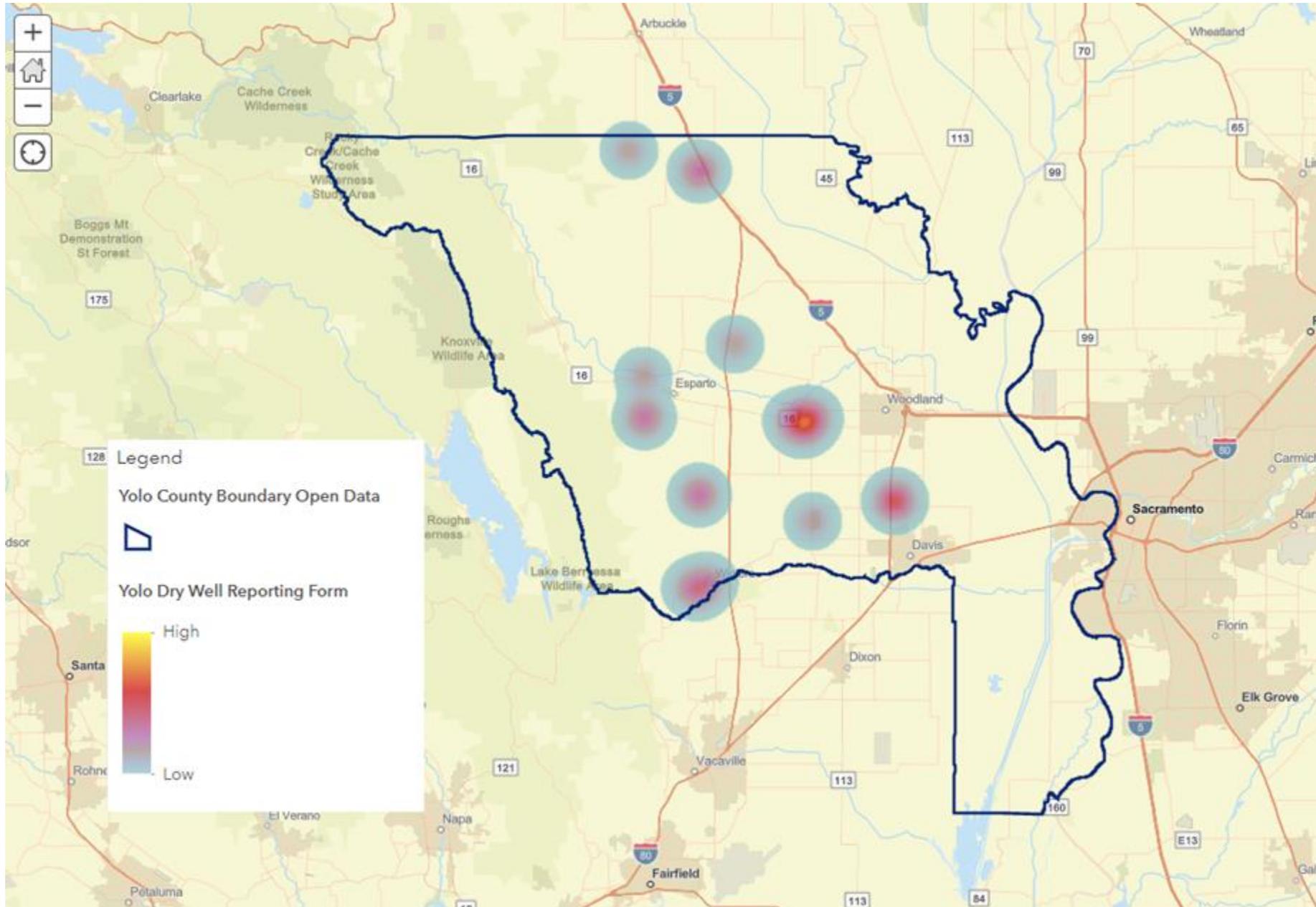
- **Maintenance on Canal System and Various Private Jobs**
 - **Creek Spraying for CCC and Chipper Program for Yolo RCD**
- **LWA Assessment of Long-Term Funding Opportunities**
- **Cache Creek Dam Power Pole Inspection**
- **FERC Part 12D Updated Regulations / PFMA Investigations for IVR**
- **Capital Projects – small infrastructure projects and USBR WaterSMART Grant**
- **Paradise Valley Littoral Rights Review**
- **Weed Management (MERCOSA, NDM and Wild Wings CSAs, Madison and Knights Landing CSDs)**
- **Drought Assistance – Dry well checks (Contract with Yolo County OES)**
- **YSGA – Outreach; Well Permitting Procedures; GSP Grant Management; Groundwater Monitoring Program Improvements; Grant Opportunities; Neighboring Subbasin Coordination; Grey Area Projects and Outreach**
- **Shared services opportunities: Cacheville CSD (part-time GM), private jobs, spraying, etc.**
- **Voluntary Agreement Process/Dry Year Scenario Planning**
- **Grant Opportunities – Review of Solicitation Packages**
- **Wild Wings CSA and Madison/Knights Landing/Cacheville CSDs Groundwater Assistance and Drought Contingency Planning**
- **Encroachment Permits, Easement Research, Misc. Water Rights Investigations**

General Activities (June 8-July 5)

OUTREACH:

1. YCFB's Young Farmers & Ranchers Meeting (June 8)
2. WRA TC Ad Hoc Drought Task Force (June 9)
3. YCFB / YSGA Workshop (June 9)
4. YSGA: Hungry Hollow Area Groundwater Subcommittee Meeting (June 9)
5. WRA / YSGA Executive Committees' Meetings (June 13)
6. NCWA: Groundwater Task Force Meeting (June 13)
7. NCWA's Coordination Task Force Meeting (June 14)
8. Interview with Ricardo Amon (June 15)
9. ACWA Legislative Committee (June 20)
10. NCWA Voluntary Updates, Coordination Meeting (June 20)
11. WRA / YSGA Board of Directors Meetings (June 20)
12. YSGA: Hungry Hollow Area Community Town Hall Meeting (June 22)
13. YCFB / YSGA SGMA Public Workshop (June 28)
14. RD 108's 150th Celebration (June 29)
15. County / Farm Bureau Coordination Meeting (July 5)
16. NCWA Voluntary Updates, Coordination Meeting (July 5)

June 28, 2022 Board of Supervisors Drought Update



Dry Well Reporting:

Well Type	# Wells
Household	11
Small Business	1
Cemetery	2
Fire Department	1
Other	1

YSGA UPDATE

YSGA 2022 Q3 Activities

- Well Permitting Process
- GSP Implementation – *Special Projects Advisor*
 - Management Area Advisory Committees
 - Reconsideration of Voting and Fees
 - WRA Merger into YSGA
 - Prioritizing projects / preparing grant applications
- Ad Hoc Drought Contingency Planning Committee Meeting (mid- to late-July)
 - Groundwater Communications Plan
 - Local planning strategies; MA for drought conditions; coordination with Yolo County (well permitting procedures)
- FY 2021 Audit
- WRA TC Ad Hoc Drought Task Force Meetings (SB 552: Drought/Water Shortage Planning)

Upcoming Meetings & Events

1. Meeting with State Water Board to Discuss Water Availability Analysis ([July 7](#))
2. WRA TC Ad Hoc Drought Task Force ([July 8](#))
3. YSGA: Meeting with DWR to Discuss Technical Support Services (New Monitoring Well) ([July 12](#))
4. Introductions to New County CAO – Gerardo Pinedo ([July 13](#))
5. CII Board Meeting ([July 14](#))
6. NCWA VA Updates – Coordination Meeting ([July 18](#))
7. California Water Data Consortium Meeting to Discuss Yolo Accounting Platform ([July 20](#))
8. WRA / YSGA Executive Committees' Meetings ([July 25](#))
9. ACWA Water Management Committee Meeting ([July 26](#))
10. Yolo County Fire Safe Council ([July 27](#))
11. County / Farm Bureau Coordination Meeting ([August 1](#))
12. NCWA Bay-Delta Task Force Meeting ([August 1](#))
13. NCWA Coordination Meeting ([August 9](#))
14. Woodland Chamber Water Committee Meeting ([August 10](#))
15. CSDA Annual Leadership Conference ([August 22-25](#))
16. Yolo Land Trust's A Day in the Country: River Garden Farms ([September 25](#))

Agenda Item #9

General Discussion

Opportunity for Board Members to ask questions for clarification, provide information to staff, request staff to report back on a matter, or direct staff to place a matter on a subsequent agenda.

Agenda Item #10

Payment of Bills

Consider the approval and payment of the bills
(Checks #61347-61355)

Agenda Item #11

Closed Session: Bay-Delta

Conference with legal counsel for existing administrative proceeding and anticipated litigation/significant exposure to litigation pursuant to Government Code 54956.9, subsections (d)(1) and (d)(2) – State Water Resources Control Board Bay/Delta Plan update proceeding.

Closed Session Report

Agenda Item #12

Adjourn