YCFC&WCD BOARD OF DIRECTORS

August 1, 2023



FLOOD CONTROL & WATER CONSERVATION DISTRICT

Adoption of the July 11, 2023 Regular Board Meeting Minutes

Open Forum

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

Adding Items to the Posted Agenda

January 2023 Storm Events Emergency Canal Repairs



Pleasant's Prairie Canal





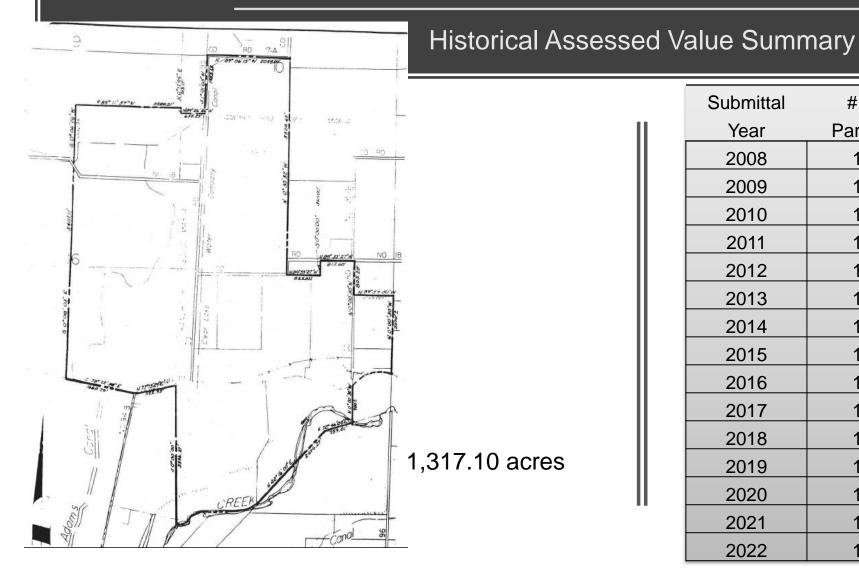






Adopt Resolution 23.09 Requesting Collection of Charges on Tax Roll

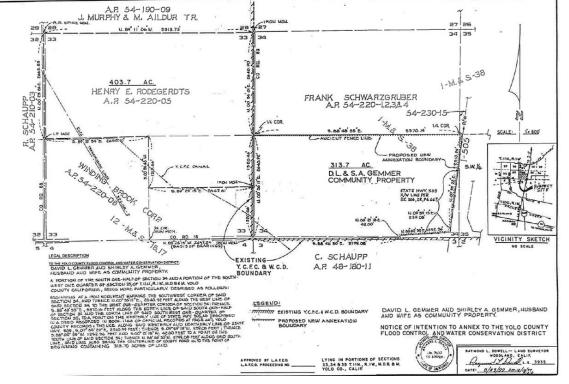
1990 East Adams Annexation



Submittal	# of	Total	% Change
Year	Parcels	A.V.	in A.V.
2008	18	\$4,774,196	
2009	18	\$5,276,008	10.51%
2010	18	\$5,500,318	4.25%
2011	18	\$5,748,882	4.52%
2012	18	\$5,880,809	2.29%
2013	18	\$6,641,028	12.93%
2014	18	\$7,056,102	6.25%
2015	18	\$7,084,339	0.40%
2016	18	\$8,580,312	21.12%
2017	18	\$9,059,733	5.59%
2018	18	\$9,180,456	1.33%
2019	18	\$8,916,433	-2.88%
2020	18	\$9,375,674	5.15%
2021	18	\$9,035,560	-3.63%
2022	18	\$9,355,585	3.54%

2000 Hungry Hollow Annexation

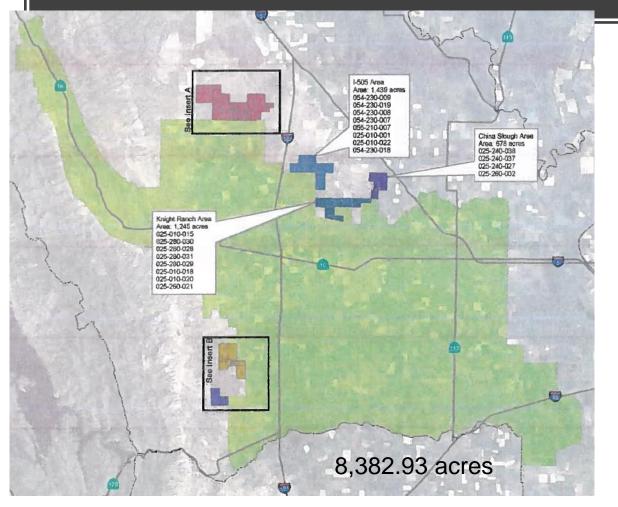
Historical Assessed Value Summary



Year	# of Parcels	Total A.V.	% Change
2008	3	\$2,375,586	
2009	3	\$3,596,031	51.37%
2010	3	\$3,646,148	1.39%
2011	3	\$3,692,664	1.28%
2012	3	\$3,936,934	6.62%
2013	3	\$3,894,777	-1.07%
2014	3	\$4,284,566	10.01%
2015	3	\$4,260,498	-0.56%
2016	3	\$5,201,352	22.08%
2017	3	\$5,613,466	7.92%
2018	3	\$6,824,197	21.57%
2019	3	\$6,843,950	0.29%
2020	3	\$5,535,945	-19.11%
2021	3	\$5,858,150	5.82%
2022	3	\$2,957,473	-49.52%

2012 Annexation

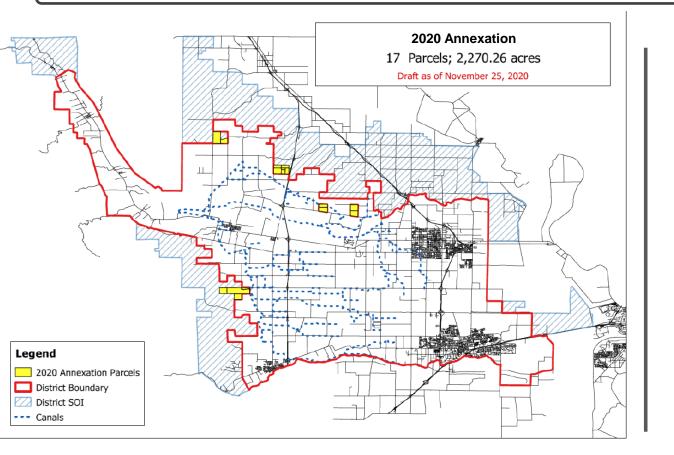
Historical Assessed Value Summary



	Number of	Total	Change
Year	Parcels	A.V.	in A.V.
2015	62	\$63,644,386	
2016	62	\$71,263,355	11.97%
2017	62	\$80,304,190	12.69%
2018	62	\$84,828,009	5.63%
2019	62	\$70,439,142	-16.96%
2020	62	\$83,944,610	19.17%
2021	63	\$83,459,110	-0.58%
2022	63	\$86,152,474	3.23%

2020 Annexation

Historical Assessed Value Summary

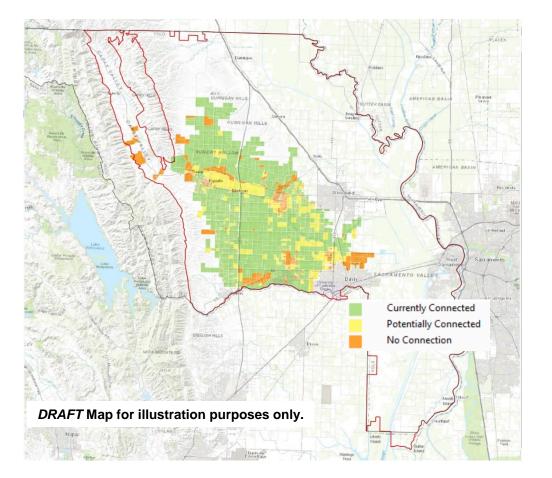


	Number of	Total	Change
Year	Parcels	A.V.	in A.V.
2023	18*	\$9,716,711	

*Since the annexation in 2020, one parcel has split into two, which has resulted in 18 parcels.

2023 Special Benefit Assessment

Historical Special Benefit Assessed



Year	Number of Parcels	Estimated Special Benefit Assessed (SBA)	Change in SBA
2023	1,240	\$944,647	

SGMA Update

DROUGHT UPDATE

Yolo County Board of Supervisors

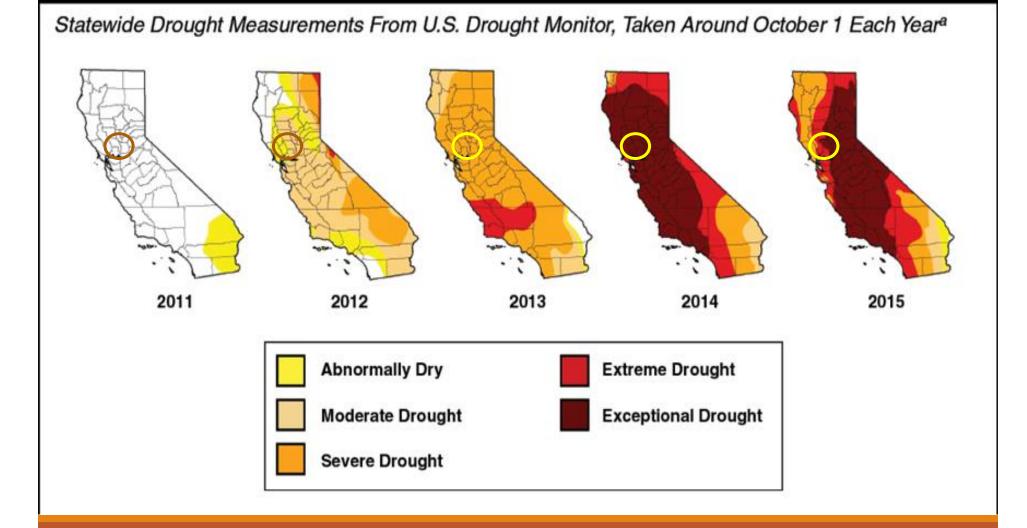
JULY 11, 2023



PRESENTATION OVERVIEW

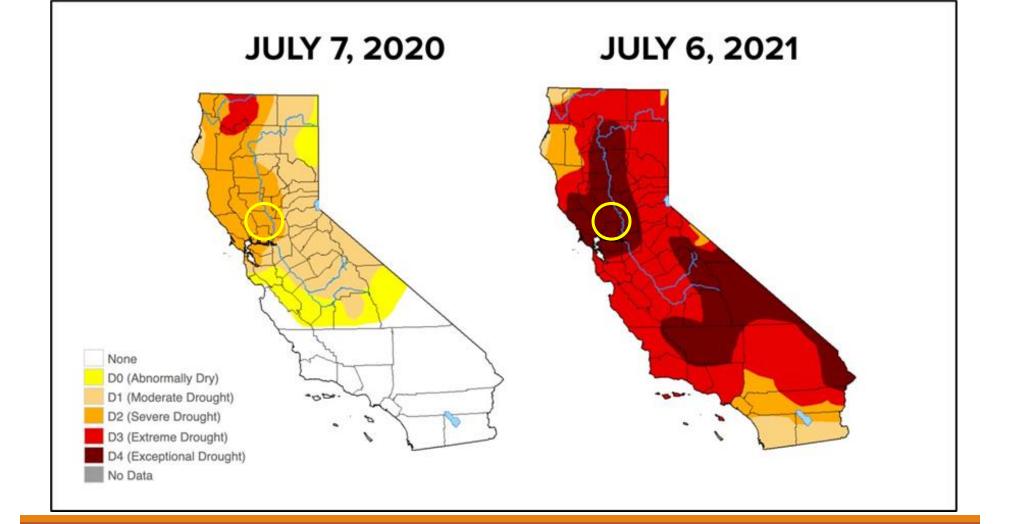
- Recent Events: Petition, U.S. Drought Monitor
- Dry Well Reporting & Status Update
- Overview: Changes to Well Permit Process
- Well Permit Application/Issuance Update
- Groundwater Conditions Update
- Yolo Subbasin Groundwater Agency Update
 - Areas of Special Concern
 - Grant Funding Award





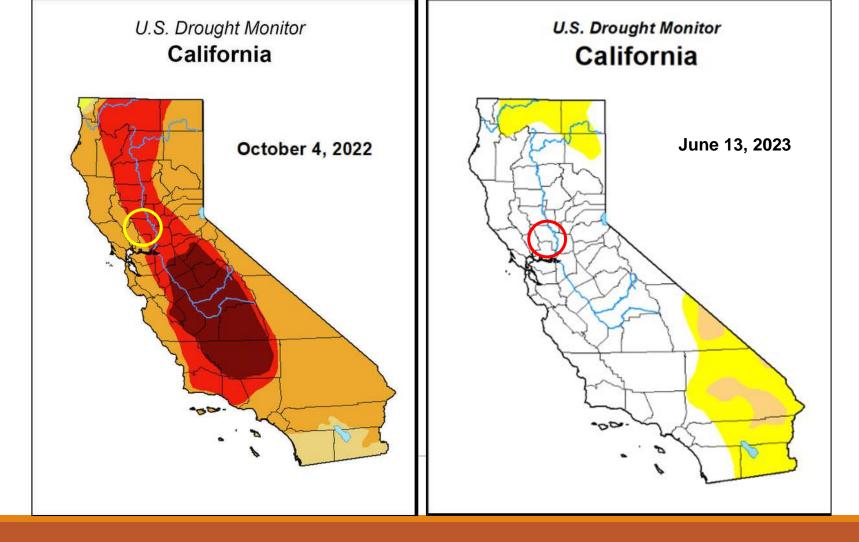
U.S. Drought Monitor: 2011 - 2015





U.S. Drought Monitor: 2020 - 2021





U.S. Drought Monitor: Fall 2022 – June 2023



Dry Wells

•Dry Well Program (Yolo OES) provides drinking and domestic water

Outreach: Partnered with Farm Bureau & RISE, Inc.

 Dry wells likely underreported

IS YOUR WELL DRY?

Report Dry Wells for Assistance Information

Please contact 530-406-4930 or drywells@yolocounty.org

GROUNDWATER MEASUREMENTS WILL BE REQUIRED. WE WILL NOT SHARE YOUR INFORMATION WITH ANY STATE OR FEDERAL REGULATORY ENTITIES

ESTA SECO TU POZO?

Reporte Seco Pozos para obtener información de asistencia.

Por favor contactar a (530) 406-4930 o drywells@yolocounty.org

SE REQUERIRÁN MEDICIONES DE AGUA SUBTERRÁNEA.

NO COMPARTIREMOS SU INFORMACIÓN CON NINGUNA ENTIDAD REGULADORA, ESTATAL O FEDERAL.



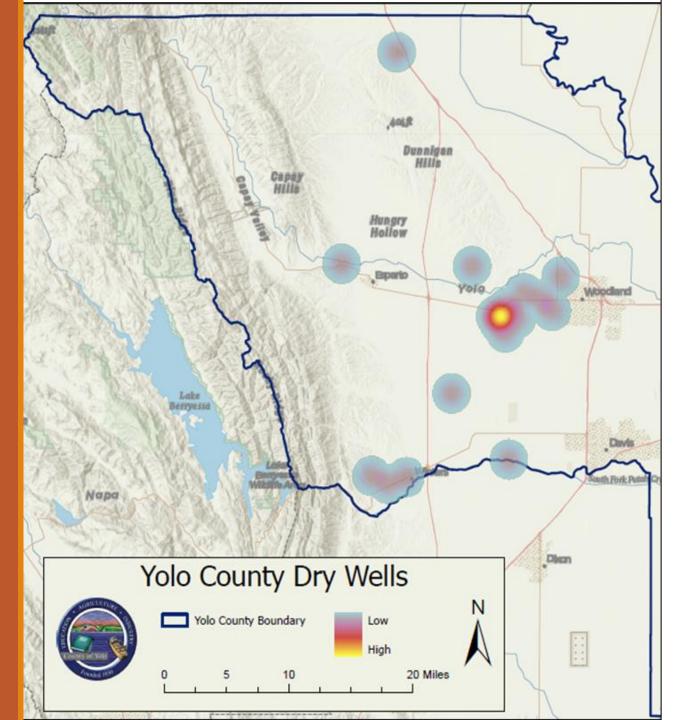




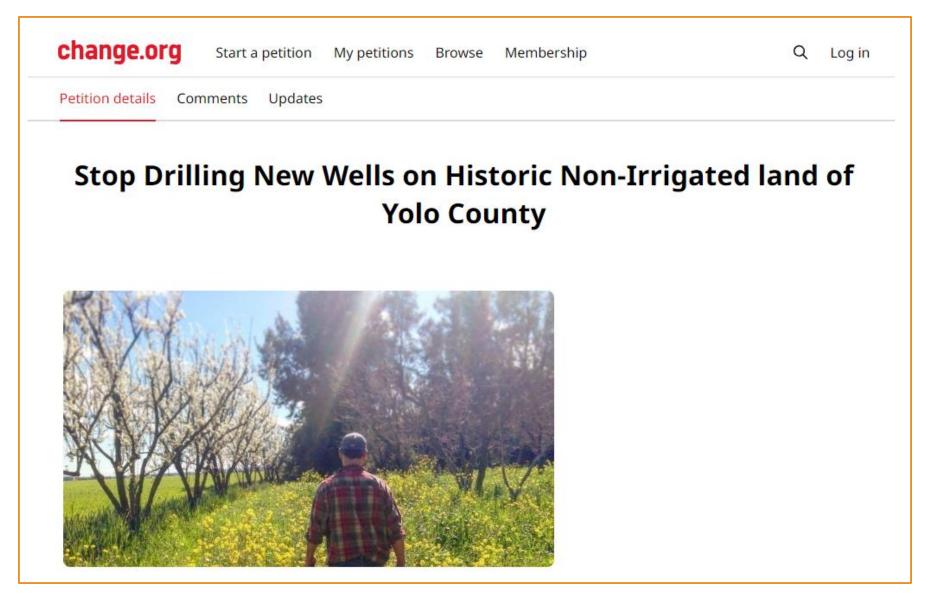


Dry Wells

49 confirmed dry (since 2021)
21 wells remain dry
No reports since March 2023



Petition to Stop New Wells on Previously Non-Irrigated Lands

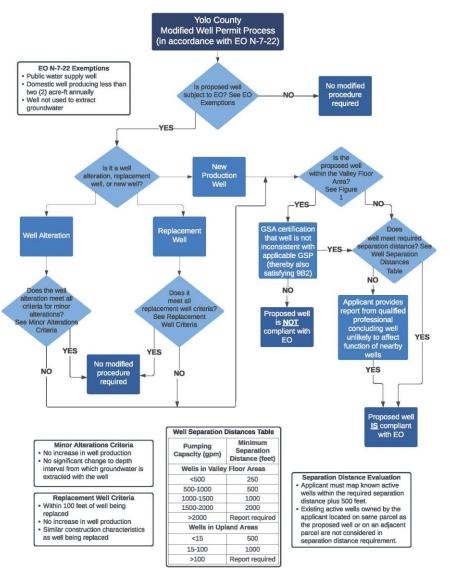


Well Permit Process: EO-N-7-22 Modifications

The EO requires additional review and analysis of agricultural well permit applications from both Yolo County Environmental Health (YCEH) and the Yolo Subbasin Groundwater Agency ("YSGA").

- YSGA must provide written verification that the proposed well is not inconsistent with any sustainable groundwater management program established in the applicable Groundwater Sustainability Plan adopted by YSGA and will not decrease the likelihood of achieving a sustainability goal for the Yolo Subbasin.
- YCEH must make a determination that the proposed well is:
 - not likely to interfere with the production and functioning of existing nearby wells, and
 - not likely to cause subsidence that would adversely impact or damage nearby infrastructure.
- YCEH worked with a hydrogeologist from Luhdorff & Scalmanini, Consulting Engineers to develop temporary well permitting procedures to ensure compliance with the EO.

Modified Well Permit Issuance Process





Agricultural Well Permit Applications

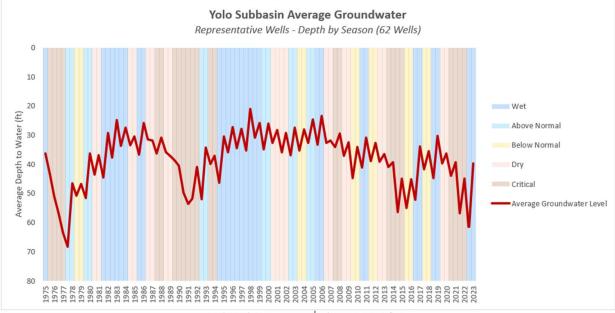
Applications received since EO issued on March 28, 2022 (as of 6/20/2023)

Received	Replacement well	New well	Issued	Pending*
67	22	45	36	31

*For pending agricultural well permits applications, 13 of the permit applicants have received YSGA verification but the applicant still needs to submit additional information for Environmental Health to approve the permit.



Groundwater Conditions Update



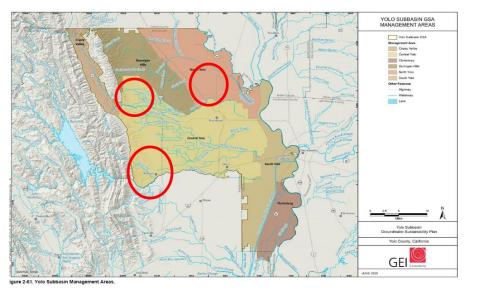
Mid-March 2021 Average Depth to Water ~ 39 feet Mid-August 2021 Average Depth to Water ~ 57 feet Early March 2022 Average Depth to Water ~ 45 feet September 2022 Average Depth to Water ~62 feet April 2023 Average Depth to Water ~ 40 feet

Of Note: 1977-78 Recovery from Fall to Spring ~21 feet 2016-17 Recovery from Fall to Spring ~ 18 feet 2022-23 Recovery from Fall to Spring ~22 feet



Yolo Subbasin Groundwater Agency Update

•Areas of Special Concern



•Data Gaps





Yolo Subbasin Groundwater Agency



SGMA Implementation Grant Award

Components	Grant Amount
Component 1: Grant Administration	\$613,875
Component 2: Yolo Subbasin GSP Implementation	\$1,721,000
Component 3: Yolo-Zamora Groundwater Recharge Pilot Project	\$1,221,050
Component 4: Dunnigan Area Recharge Program	\$1,180,950
Component 5: City of Winters Feasibility Studies	\$580,000
Component 7: YCFC&WCD Winter Water Recharge Program	\$2,600,000
Total:	\$7,917,000

- Develop GSP Annual Reports, Update GSP based on DWR's Comments, and Complete Fee Study
- Complete Groundwater Model Enhancements
- Develop an Approach to Refine Interconnected Surface Water SMC
- Conduct GPS Subsidence Survey Updates
- Develop a Hungry Hollow Area PMA White Paper
- Complete Monitoring Network Enhancements to Address Data Gaps

Questions?

Discussion by BOS

- Interested in exploring a well permitting pause in AOSC and Data Gaps
- Interested in other actions for understanding root cause of these concerns
- Interested in additional information related to cumulative impacts analysis
- May have informational item at 8/29 BOS Meeting
- Requested map of AOSC and Data Gaps by 9/12 BOS Meeting
- County Counsel suggested staff could come back with different options for the BOS to consider (in addition to a zonal moratorium)
- If rush on well permits, BOS can consider urgency ordinance (short-term while considering long-term solution)
- •Weekly reports to BOS on well permit applications
- Unanimously voted to terminate local drought emergency proclamation

Preparation for 9/12 BOS Meeting

- Weekly meetings between County and YSGA staff
- Board report due by 9/5
- YSGA to present draft map of Areas of Special Concern and Data Gaps
- YSGA to present update on YSGA's process for reviewing well permit applications in AOSC and Data Gap regions
- County to present map of well permitting applications
- County to provide additional options summary

Draft Potential Additional Options

- GSA: Voluntary Management Action (e.g., Allocation System, Water Trading System)
- GSA: Land Use Fee/Charge (on previously non-irrigated ground)
- GSA: Required Management Action (e.g., Extraction Limitations)
- Court-Imposed Adjudication
- Water Districts: Incentive-Based System for Surface Water Use
 In-lieu credit from surface water use
- County: Updated Groundwater Well Ordinance

YCFC&WCD Mission and Authority

• Mission – "To plan, develop, and manage the conjunctive use of the District's surface and groundwater resources to provide a safe and reliable water supply at a reasonable cost, and to sustain the socioeconomic and environmental well-being of Yolo County."

YCFC&WCD Mission and Authority

- Mission "To plan, develop, and manage the conjunctive use of the District's surface and groundwater resources to provide a safe and reliable water supply at a reasonable cost, and to sustain the socioeconomic and environmental well-being of Yolo County."
- Authority
 - District Act Section 4. "Power of board to levy and collect ground water charge for production of ground water within zone or zones"
 - "Shall take into consideration and be based upon the existence and amount of benefit to the ground water supply of the land as a result of such recharge or such distribution of imported water"
 - "...in furtherance of district activities in the protection and augmentation of the water supplies of the district which are necessary for the public health, welfare and safety of the people of this state ... the ground water supply of which is benefited by the recharge of underground water supplies or the distribution of imported water into the district."

YCFC&WCD Brainstorm

- Roles and Responsibilities (R&R) Related to Groundwater
 - Primary District's charge to our customers (representatives)
 - Tangential
 - District Representative to the YSGA

Directors' Reports

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

> i. YSGA Ad Hoc DCPC Meeting (7/26) ii. Personnel Committee Meeting (7/26)

Attorney's Reports

Report on Legal Matters of Concern to the District

General Manager's Report

- Water Conditions Report
- Financial Report Summary
- Capital Improvement Program
- General Activities 2023 Irrigation Season Update
- Upcoming Events

Current Water Conditions (08-01-23)

	Elevation	<u>Available</u>	<u>2022</u>
Clear Lake			
 August 1 	4.51'	51,377 AF	-1.21' (0 AF)
 July 1 	5.82'	85,877 AF	
 Total Difference 	-1.31'	-34,500 AF	
Indian Valley Reservoir			
 August 1 	1,448.47'	170,700 AF	1,392.37' (48,080 AF)
 July 1 	1,454.08'	188,800 AF	
 Total Difference 	-5.61'	-18,100 AF	

Total Releases from Reservoirs ~790 cfs

- West Adams Canal ~216 cfs
- Winters Canal ~372 cfs
- Total Diversions at Capay Dam ~588 cfs

Facility	Precipitation (10/1/22 – 8/1/23)
Cache Creek Dam	35.74"
Indian Valley Reservoir	33.39"
Headquarters	25.21"

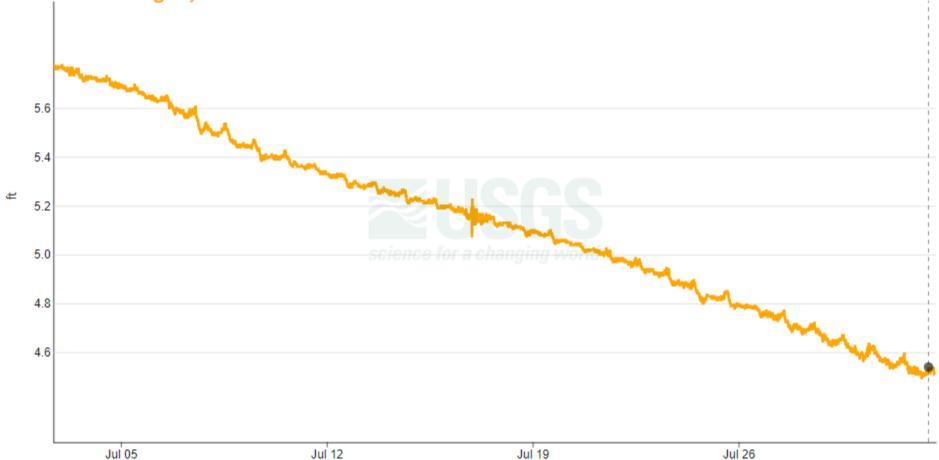


Clear LK a Lakeport CA - 11450000

July 2, 2023 - August 1, 2023

Gage height, ft 🖲

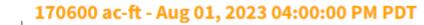


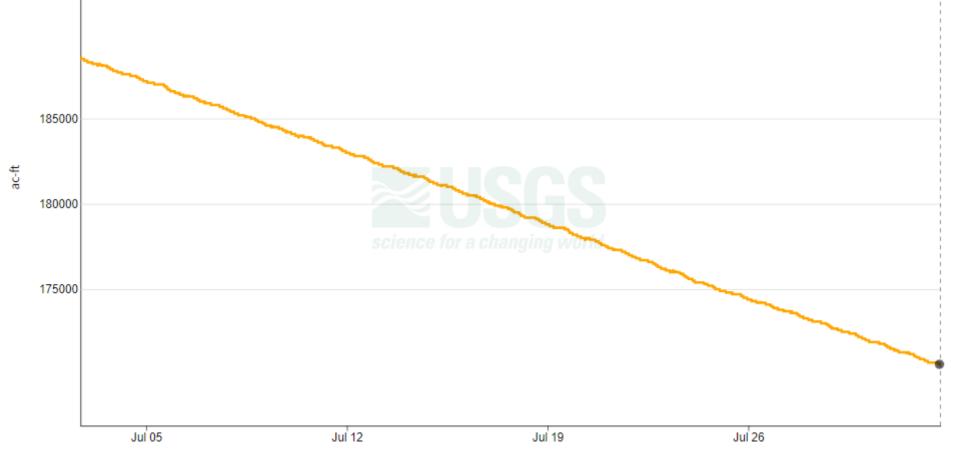


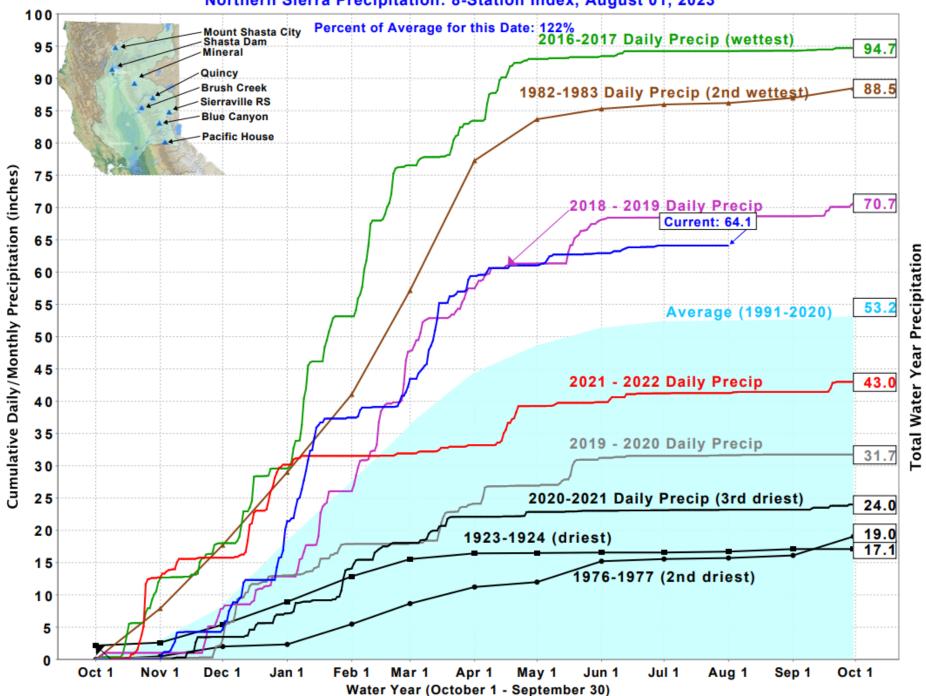


Indian Valley Res a Clearlake Oaks CA -11451290

July 2, 2023 - August 1, 2023 Reservoir storage, acre-ft

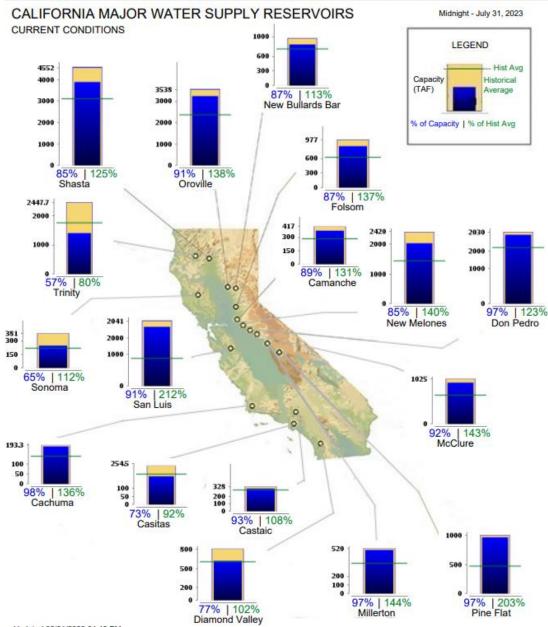




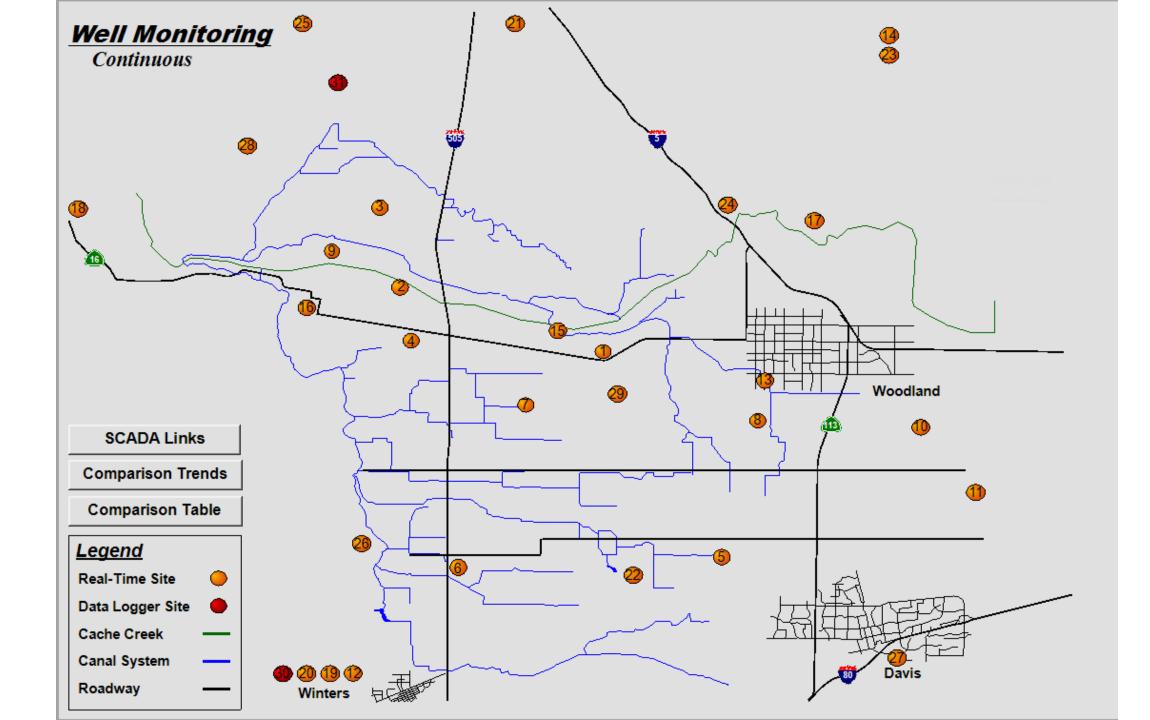


Northern Sierra Precipitation: 8-Station Index, August 01, 2023





Updated 08/01/2023 04:48 PM



	Well Monitoring						SCADA Links		well Map		Мар	Select Date		07/28			
	Depth to Water Historical Comparison (Daily Average DIW in feet)												A 2022	A 2045			
	Well	<u>2010</u>		<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>Δ 2022</u> - 2023	<u>Δ 2015</u> - <u>2023</u>
	1.	95.4	90.7	96.6	106.7	126.4	125.8	120.2	106.2	109.4	103.2	111.0	142.2	150.3	119.4	30.9	6.4
	2.	44.4	31.5	42.8	40.2	53.1	59.4	50.1	29.9	33.7	30.2	32.0	41.9	53.2	41.5	11.8	17.9
I I A A A A A A A A A A A A A A A A A A	3.		39.7	46.1	52.5	81.0	74.4	63.6	39.1	44.0	37.8	43.5	71.0	88.5	57.9	30.6	16.5
	4.		34.0	38.6	43.3	53.1	60.8	43.5	33.2	35.4	36.5	32.8	60.4	72.8	42.5	30.3	18.3
	5.		14.9	15.4	18.7	33.8	35.2	36.1	22.4	26.5	16.7	21.1	34.9	42.0	28.5	13.5	6.7
	6.			56.9	60.9	92.2	80.1	67.0	46.8	46.4	40.7	41.9	67.1	89.9	63.1	26.8	17.1
	7.				39.3	39.3	46.6	26.1	17.3	21.0	17.3	24.4	46.4	47.0	24.1	22.9	22.5
	8.					92.2	88.1	87.2	65.8	74.4	58.3	66.3	89.5	95.2	71.8	23.4	16.3
	9.					72.5	69.2	57.3	41.7	44.6	41.3	44.0	62.8	78.1	51.3	26.8	17.9
	10.						119.6	128.5	66.2	131.2	83.3	126.5	133.4	133.8	110.4	23.5	9.3
	11.						33.6	33.2	18.7	31.3	20.3	31.8	36.2	37.3	26.6	10.7	6.9
	12.										128.9	127.7	151.7	156.3	145.4	10.9	
	13.			_						125.3	95.8	112.4	140.5	141.3	107.6	33.8	
	14.			_							9.4	10.3	13.7	13.6	10.4	3.2	I
	15s.			_						41.0	35.4	38.4	49.4	48.3	36.2	12.1	1—II
Winters	15d.			_						161.4	160.7	153.8	260.3	276.3	166.3	110.0	1—II
	16.		_	_						41.0	39.4	42.1	50.0	58.5	45.3	13.2	1—II
	17.		_	_							21.0	23.5	32.8	36.2	24.0	12.2	1—II
	18.		-	_							66.2	66.6	114.4	102.1 206.8	44.3	57.8	1—II
	19. 20.		-	_	_						174.3	180.8	196.2			11.1	1—II
	20. 21.		-	_								127.1	110 OI 137.4	1 a re 142.0	placer	hent	1
	21.	-	-	_			-		-			127.1	120.2	128.2	92.0	36.2	1—II
	23.	-	-	_									93.1	90.6	66.6	24.0	
	24.		-	-					-				33.1	86.0	64.1	21.9	
	24.	-	-	_			-		-					102.4		21.0	
	26.			_										129.4			
	27.	-	-	_										114.6			
	28.			_											142.8		
	29.																

Well Monitoring Continuous

18

16

SCADA Links Comparison Trends Comparison Table

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<u>Legend</u> Real-Time Site

Data Logger Site

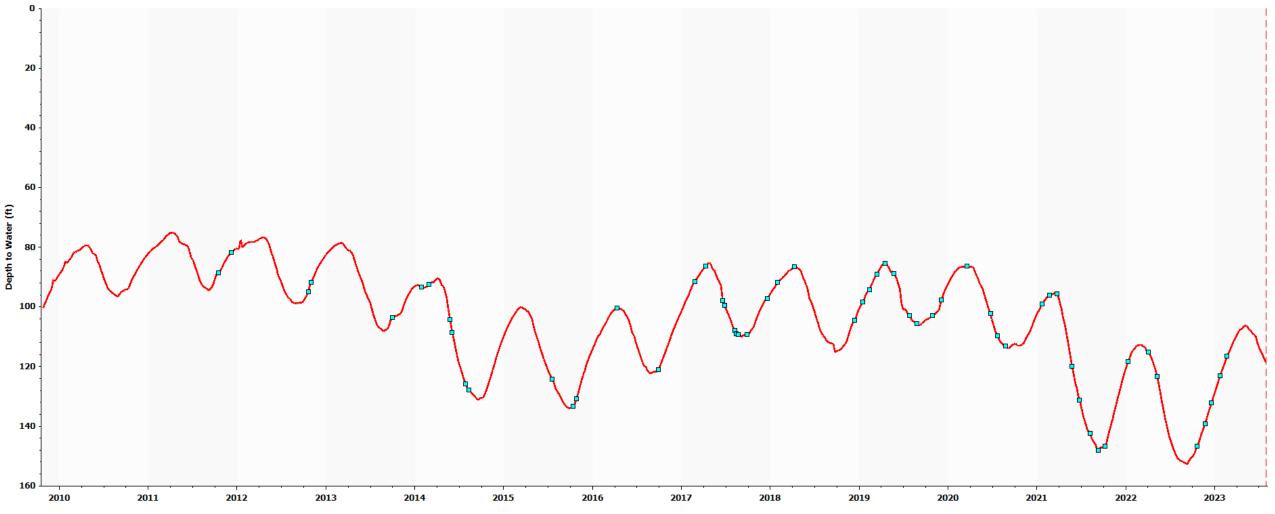
Cache Creek

Canal System

Roadway

28

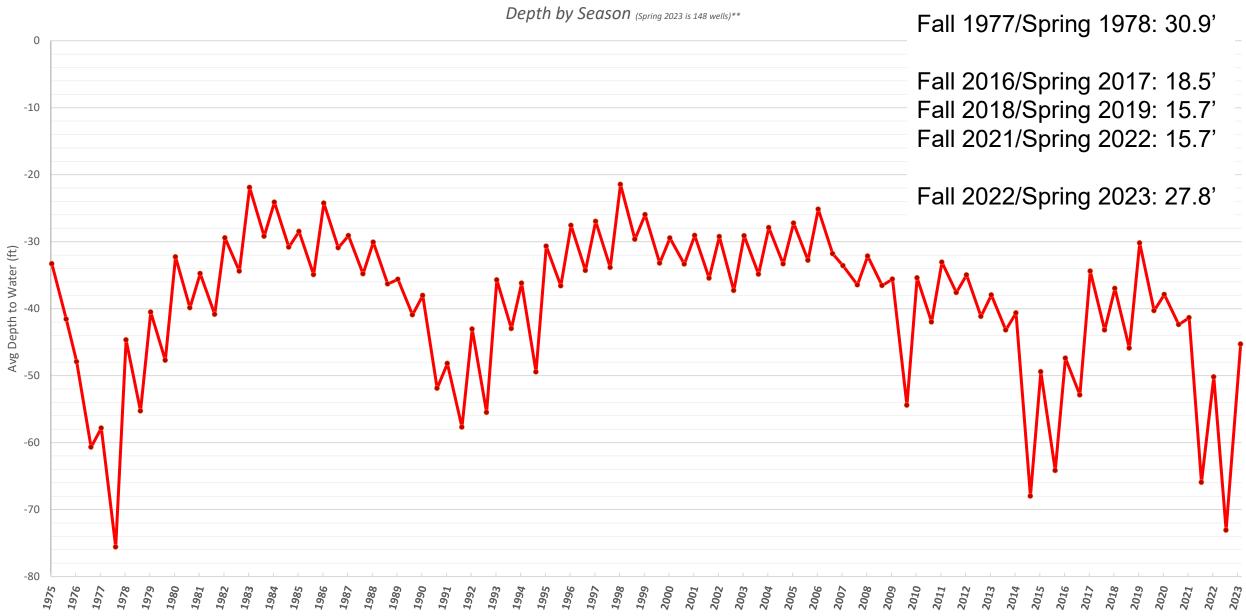
1. HQ Well Depth to Water



Depth to Water 7/1/22: 145.1 feet 8/1/22: 151.5 feet Δ -6.4 feet $\frac{\text{Depth to Water}}{7/1/23: 113.4 \text{ feet}}$ 8/1/23: 120.5 feet Δ -7.1 feet

Fall to Spring Recovery

YCFCWCD Average Groundwater



Preliminary Financial Report

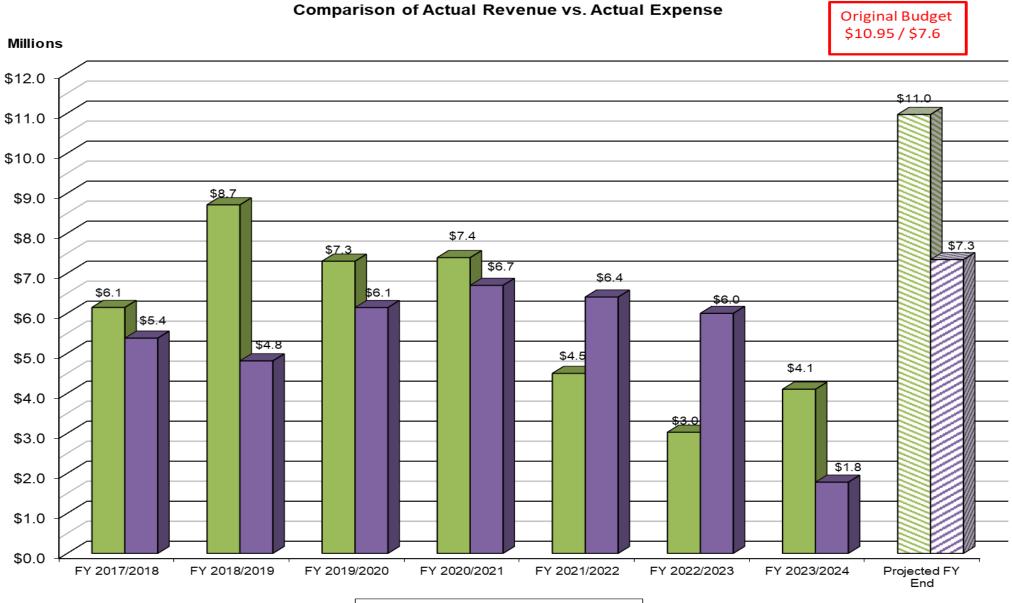
Highlights as of July 31, 2023

Preliminary Budget Summary as of 7/31/2023

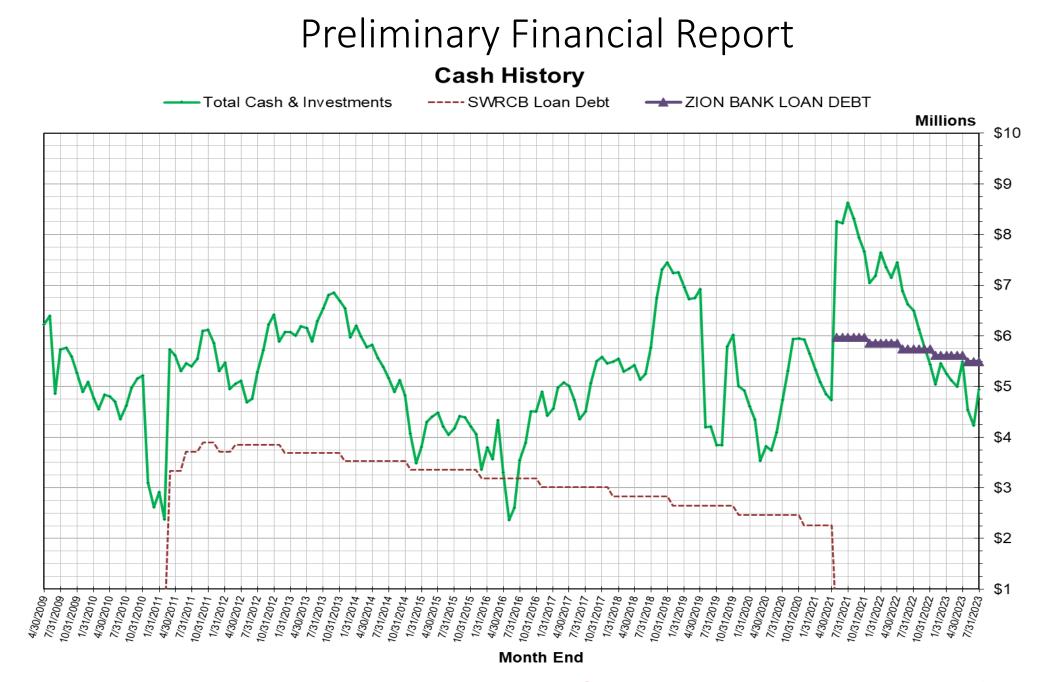
Key Revenue Drivers	Year-to-Date	Budget	Difference		
Agricultural Water Sales	\$3,754,100	\$6,217,700	(\$2,463,600)		
Non-Agricultural (M&I) Water Sales	\$60,800	\$343,300	(\$282,500)		
Property Taxes *includes Special Property Tax Assessment	\$129,800	\$2,586,400	(\$2,456,600)		
IV Dam Hydro (less fees)	\$0	\$350,000	(\$350,000)		
Other Revenue	\$157,400	\$1,456,700	(\$1,299,300)		
Shared Services Revenue	\$32,300	\$315,200	(\$282,900)		
YSGA Reimbursements	\$61,100	\$250,000	(\$188,900)		
Interest	\$37,500	\$120,000	(\$82,500)		
Other (includes FEMA)	\$26,500	\$771,500	(\$745,000)		
TOTAL REVENUE	\$4,102,100	\$10,954,100	(\$6,852,000)		

Key Expense Drivers	Year-to-Date	Budget	Difference
Transmission and Distribution (O&M)	\$468,400	\$1,343,100	(\$874,700)
General Administration	\$635,100	\$2,846,900	(\$2,211,800)
Other Expenses	\$675,600	\$3,451,900	(\$2,776,300)
TOTAL EXPENSES	\$1,779,100	\$7,641,900	(\$5,862,800)

Preliminary Financial Report



■Actual Revenue ■Actual Expense



Zion Bank Loan Debt: Rate Covenant Includes Reserves and Flexibility of Lockbox

Capital Improvement Program

Planning for Capital Jobs

Capay Dam Bladder Replacement Project

FY 23/24 Planning Activities Related to Large Capital Jobs

Hungry Hollow Canal – Pipeline Extension Project



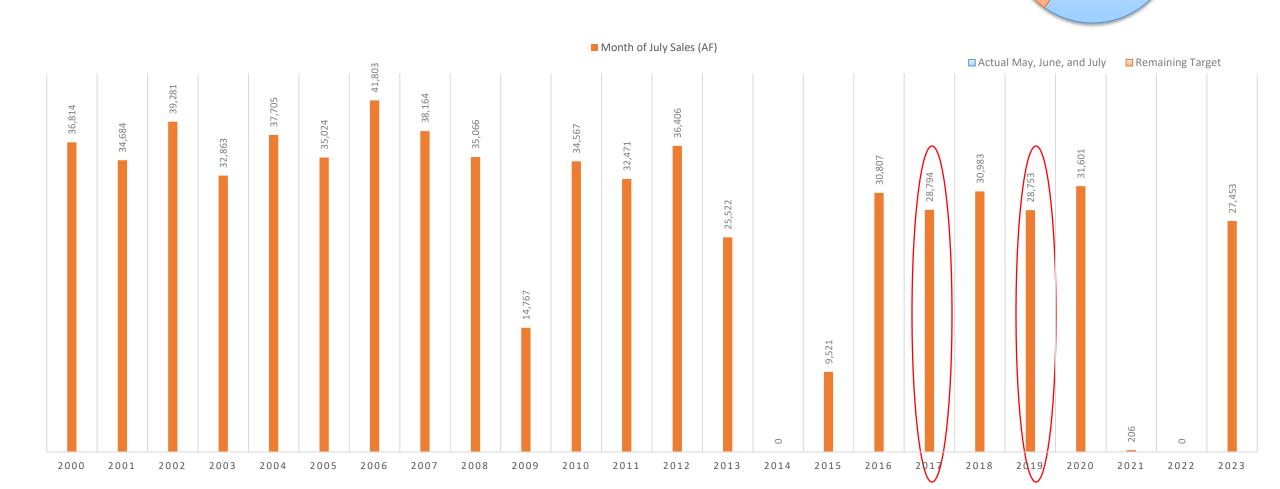
2023 Irrigation Season Update

- "Start of Season" May 5
 - Delay in demand because of April and May(!) rains
- Flow Measurement QA/QC
 - Cache Creek Dam USGS rating curve update
 - Managing Capay Dam "spill"
 - Various points in the canal system
- "Bottlenecks"/Points of Constriction
 Cottonwood, Cottonwood South, Ulrich Canals
- Aquatic Weeds!!

60%

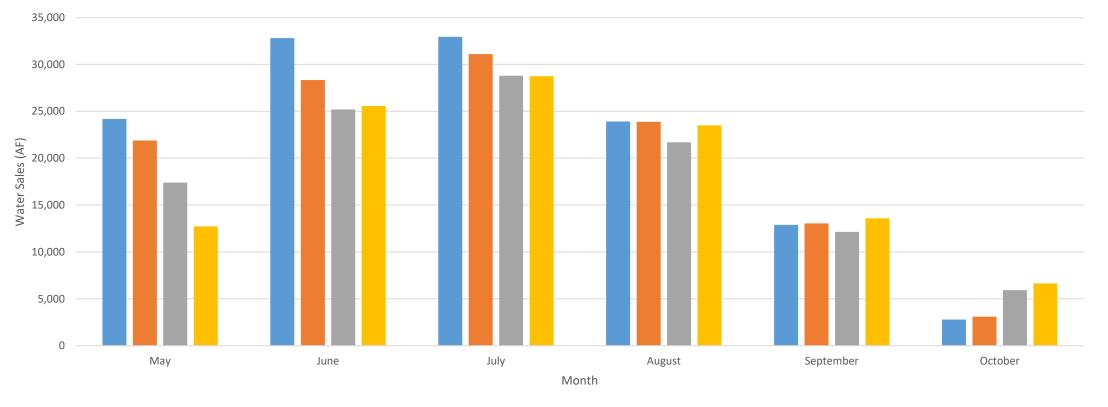
40%

2023 Irrigation Season Update



Monthly Average of Water Sales: Similar Water Year Type

Monthly Water Sales



2000-2020 Averages

2010-2020 Averages

2019

2017

Projected 2023 Total Water Sales

2010-2020 Average Scenario = 99,133 AF

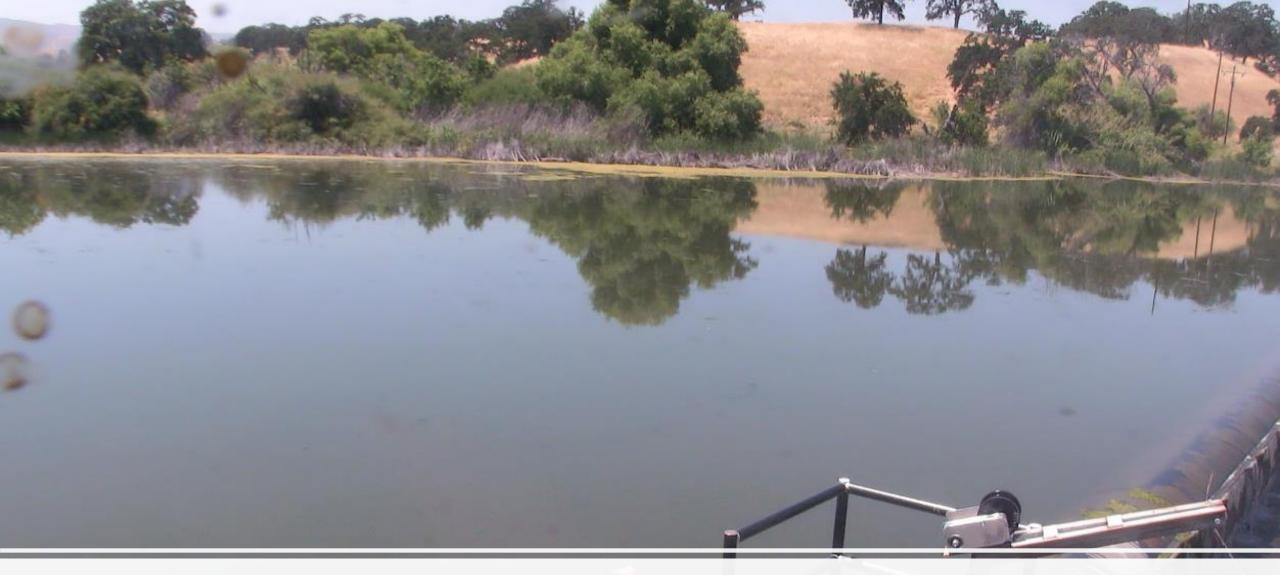
- 2017 Scenario = 105,638 AF
- 2019 Scenario = 109,613 AF

Aquatic Weeds





Cache Creek Dam: Source Water



Capay Dam

Actions Taken



- Mechanical removal
- Aquatic pesticide application
 - \$116k expended (budgeted \$80k)
- 2-3x/day trash rack/screen cleaning at Capay Dam
- Pulse flows

General Activities (July 12-August 1)

PROJECTS:

- 2023 Irrigation Season and Algae Treatment/Remediation
- Coordinating with County on BOS Presentation
- Water Right Reporting Violations; and Appropriator Water Rights
- 2023 Storm Damage FEMA Reimbursement Process
- YSGA Well Permitting Review; Project Development; Outreach; GSP Implementation; Groundwater Monitoring Program Improvements; Grant Opportunities; Neighboring Subbasin Coordination; Grey Area Projects and Outreach
- Outreach with various agencies on District's Recharge Program
- Capital Projects small infrastructure projects and USBR WaterSMART Grant
- Voluntary Agreement Process
- Various Private Jobs
- Drought Assistance Dry well checks (Contract with Yolo County OES)
- Creek Spraying for CCC and Chipper Program for Yolo RCD
- Vegetation Management (MERCSA, NDM and Wild Wings CSAs, Madison and Knights Landing CSDs)
- Shared Services: SCWA, private jobs, spraying, etc.
- Encroachment Permits, Easement Research, Misc. Water Rights Investigations

General Activities (July 12-August 1)

OUTREACH:

- 1. Westside IRWM CC Meeting (July 12)
- 2. YSGA: Coordination Meeting with Yolo County EH (July 12)
- 3. YSGA: Hungry Hollow Stakeholder Engagement Prep (July 12)
- 4. ACWA Regions 2-4 State Leg. Committee Meeting (July 13)
- 5. Meeting with Paradise Valley Ranch Developer (July 13)
- 6. YSGA: Video Steering Committee Meeting (July 13)
- 7. Highland Creek Reservoir Mediation (July 14)
- 8. YSGA: Executive Committee Meeting (July 24)
- 9. Meeting with Charles Tyson (July 24)
- 10. YSGA: TNC Collaboration Opportunity GDE Projects (July 25)
- 11. YSGA: Ad Hoc DCPC Meeting (July 26)
- 12. DWR/TNC FloodMAR Coordination Meeting (July 26)
- 13. ACWA Board of Directors Workshop and Meeting (July 27-28)
- 14. YSGA: Coordination Meeting with John Brennan -
 - Groundwater Recharge Project at Roosevelt Ranches (July 31)
- 15. YSGA: Meeting with Annie Main (August 1)
- 16. LACOSAN/Geysers Project Check-in Meeting (August 1)

Upcoming Meetings & Events

- 1. YSGA/Farm Bureau Coordination Meeting (August 2)
- 2. YSGA: Coordination Meeting with Sac County GSA (August 3)
- 3. NRCS Ditch Tour (August 4)
- 4. YSGA/YCEH Coordination Meeting (August 4, 11, 18, and 25)
- 5. NCWA: Bay-Delta Task Force Meeting (August 7 and September 5)
- 6. Yolo County Farm Bureau Board Meeting (August 8)
- 7. Yolo Priority 2 Basin Discussion with NCWA (August 11)
- 8. ACWA SGMA Implementation Meeting (August 16)
- 9. EDF / Water Data Consortium: Cross-Pilot Water Accounting Platform Coordination (August 17)
- 10. Butte County Brown Bag Webinar: Recharge (August 23)
- 11. NCWA: Bay-Delta Task Force Meeting (September 5)
- 12. NCWA Groundwater Management Task Force Meeting (September 11)
- 13. Drought/Groundwater Update to Board of Supervisors (September 12)
- 14. YSGA: Board of Directors Meeting (September 18)
- 15. Yolo Land Trust's A Day in the Country (October 1)
- 16. Tentative: South East Geysers Effluent Pipeline Tour 25 Years of Success (November 2 at 9:30 a.m.)

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.

Payment of Bills

Consider the approval and payment of the bills (Checks #62531-62541)

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 #13 Adjourn