





Advisory Water Commission

April 14, 2023

Fall 2022 Groundwater Report

SJCFCWCD Groundwater Monitoring Program

- San Joaquin County Flood Control and Water Conservation District has been monitoring and reporting groundwater levels in the semi-annual groundwater report since the fall of 1971.
- Coordination with CalWater, EBMUD and DWR
- 250 wells are included in the Report, most are monitored by County staff.
 - * Exact number varies due to circumstances such as:
 - Destructions
 - Constructions
 - Accessibility issues
 - Bees in access opening
 - Dogs nearby
 - Locked wells
- Water Level: 250 wells
- Water Quality: 12 municipal and domestic supply wells (Fall)
- Rainfall: 3 Stations



San Joaquin County Annual Groundwater Reports

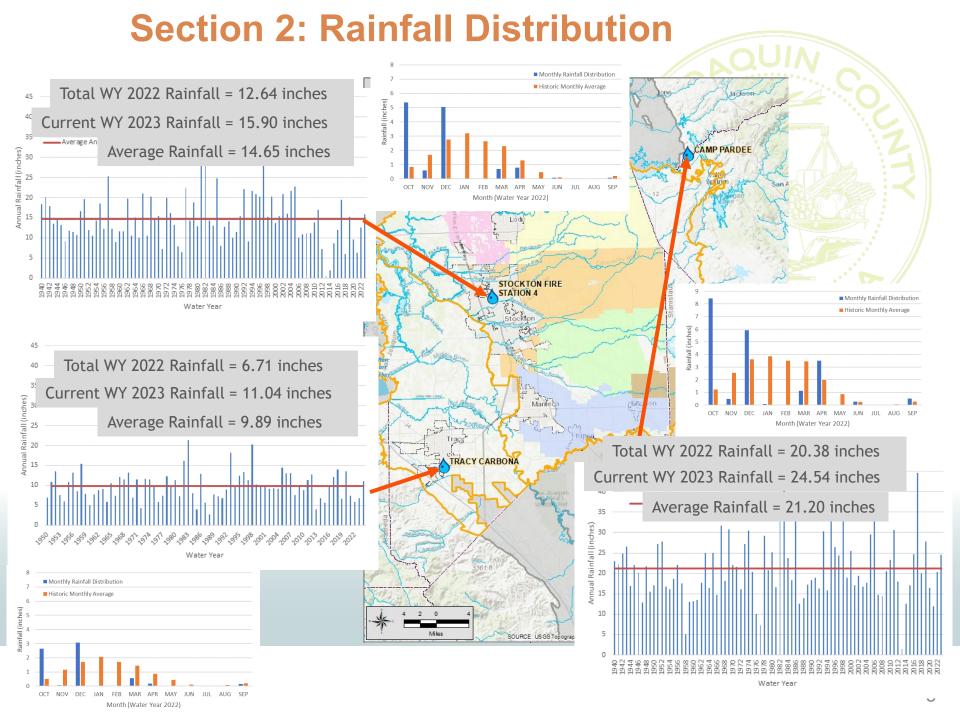
- Section 1 Introduction
- Section 2 Rainfall Distribution
- Section 3 Surface Water Levels and Storage
- Section 4 Groundwater Elevation Monitoring



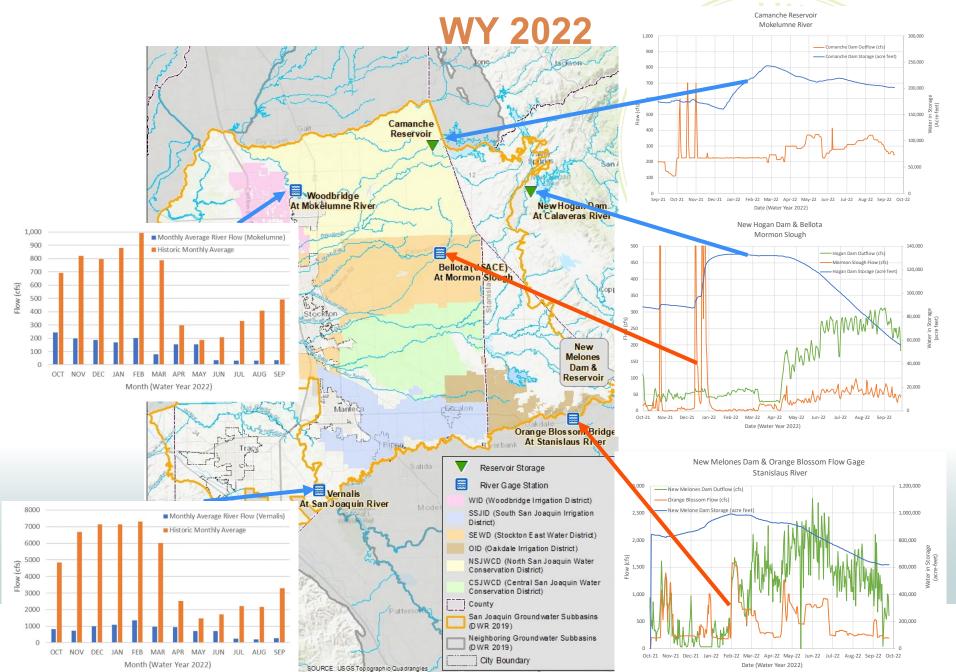
Section 1: Changes to the Annual Reports

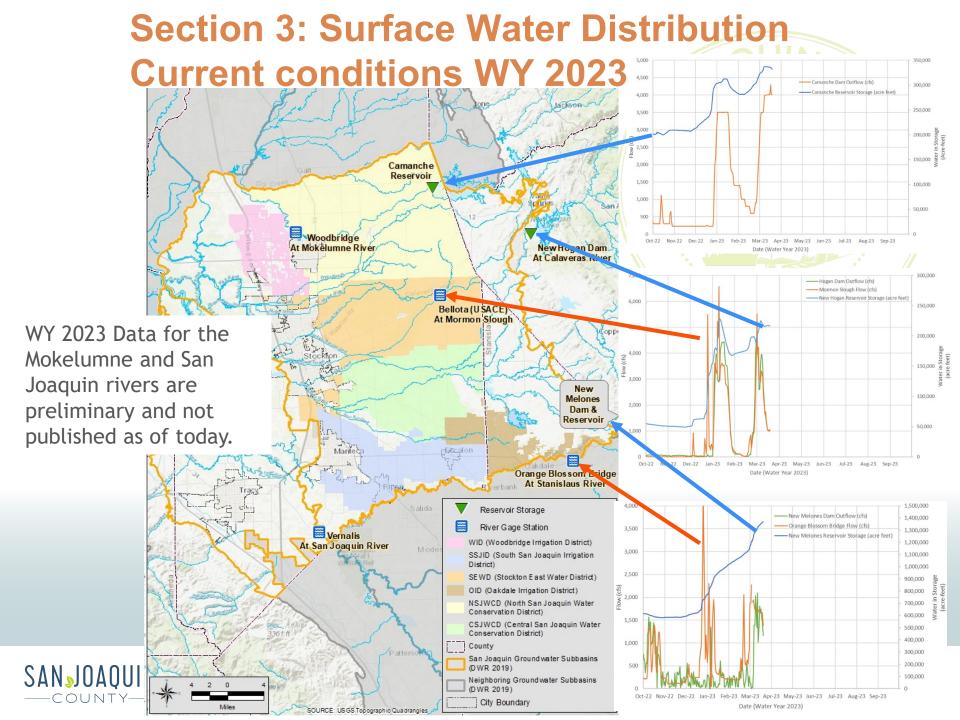
- Split report into seasonal versions; Spring & Fall
- Expanded cross sections, refined monitoring network, additional analysis of changes between water years.
- Historic averages added for additional context.

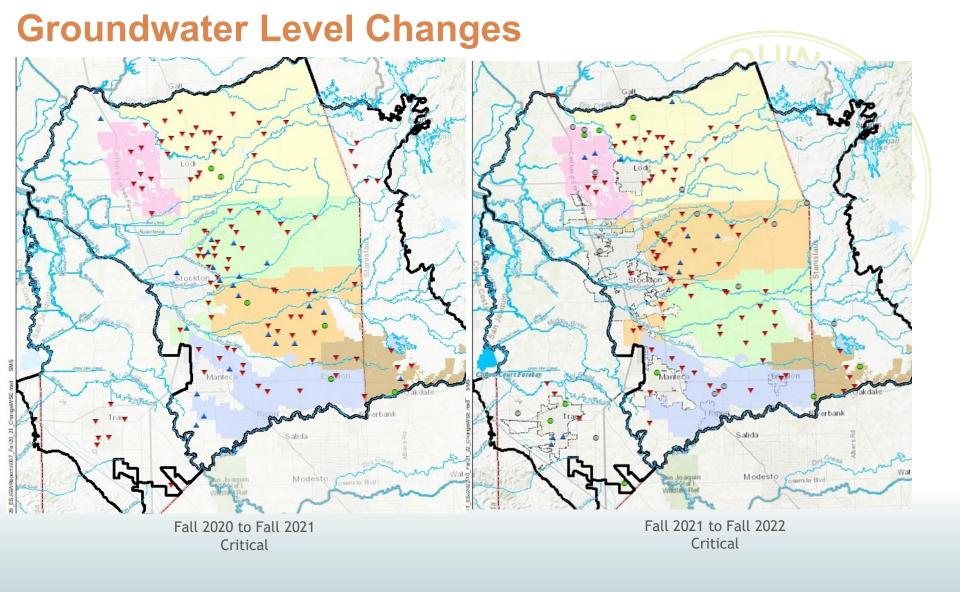




Section 3: Surface Water Distribution









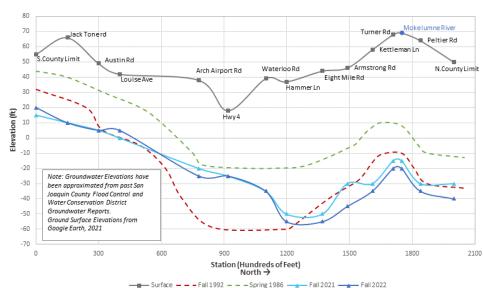
Groundwater Contours Waterford

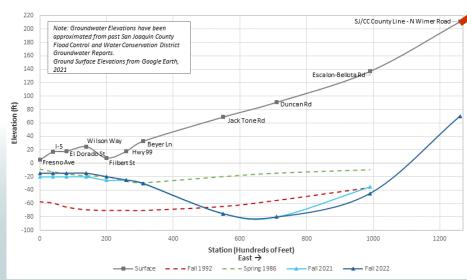
2021 - Critical WY

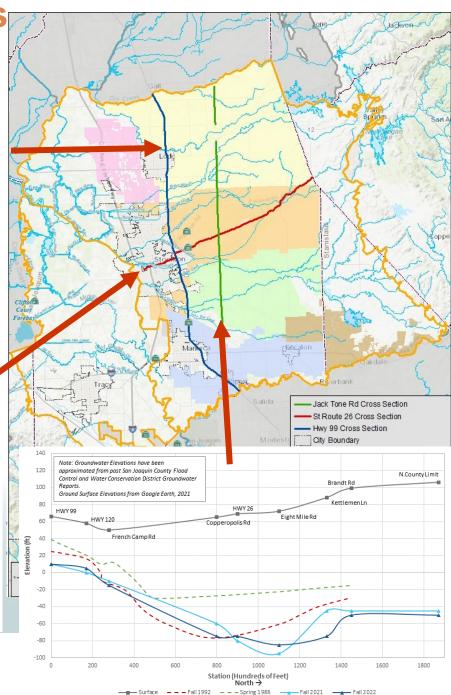
2022 - Critical WY



Groundwater Level Profiles







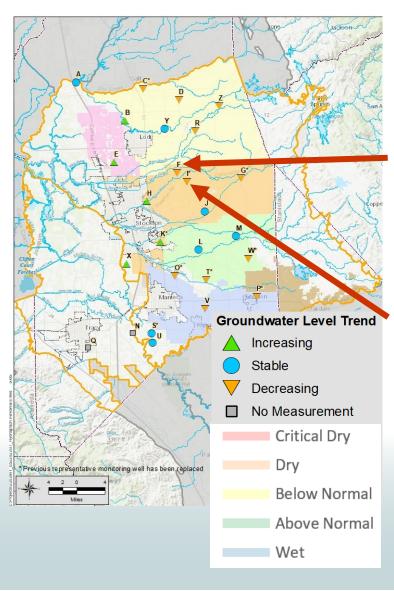


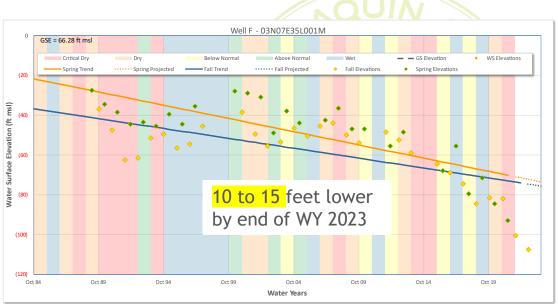
Backup Slides





Future Projections









Future enhancements to monitoring program

- Budgeting transducers and dataloggers for auto uploads of GWL data
- Resolving access rights at privately owned wells
- Data Management Systems evaluation and selection
- Consistency with SGMA reporting
- Other



Section 4: Groundwater Levels-Slide 7

Table 4-1 Comparison of CSJWCD Water Surface Elevations

	Numi	Change in	Elevation			
Total	Comparable	Decrease	Increase	No Change	Range	Average
33	14	14	0	0	-58.3 to -1	-19.44

Table 4-2 Comparison of NSJWCD Water Surface Elevations

Number of Wells Fall 2021-2022					Change in	Elevation
Total	Comparable	Decrease	Increase	No Change	Range	Average
33	25	24	0	1	-17.8 to 5.9	-4.55

Table 4-3 Comparison of OID Water Surface Elevations

Number of Wells Fall 2021-2022					Change in	Elevation
Total	Comparable	Decrease	Increase	No Change	Range	Average
2	0	0	0	0	_	

Table 4-4 Comparison of SEWD Water Surface Elevations

	Change in	Elevation				
Total	Comparable	Decrease	Increase	No Change	Range	Average
78	31	25	6	0	-30.6 to 19.4	-5.34

Table 4-5 Comparison of SSJID Water Surface Elevations

	Number of	Change in	Elevation			
Total	Comparable	Decrease	Increase	No Change	Range	Average
26	13	13	0	0	-8 to -0.46	-2.88

Table 4-6 Comparison of Southwest Area Water Surface Elevations

	Number of	Change in	Elevation			
Total	Comparable	Decrease	Increase	No Change	Range	Average
25	21	11	10	0	-2.68 to 4.96	0.23

Table 4-7 Comparison of WID Water Surface Elevations

	Number o	of Wells Fall		Change in El	evation	
Total	Comparable	Decrease	Increase	No Change	Range	Average
18	12	7	5	0	-2.6 to 3	-0.35

Table 4-8 Comparison of Calaveras County Water Surface Elevations

Number of Wells Fall 2021-2022					Change in Ek	evation
Total	Comparable	Decrease	Increase	No Change	Range	Average
14	0	7/				150

^{*}Calaveras County data has not been uploaded since Fall 2021.

Table 4-9 Comparison of Stanislaus Water Surface Elevations

Number of Wells Fall 2021-2022					Change in E	levation
Total	Comparable	Decrea se	Increase	No Change	Range	Average
8	6	6	0	0	-5.31 to -1.88	-3.31

