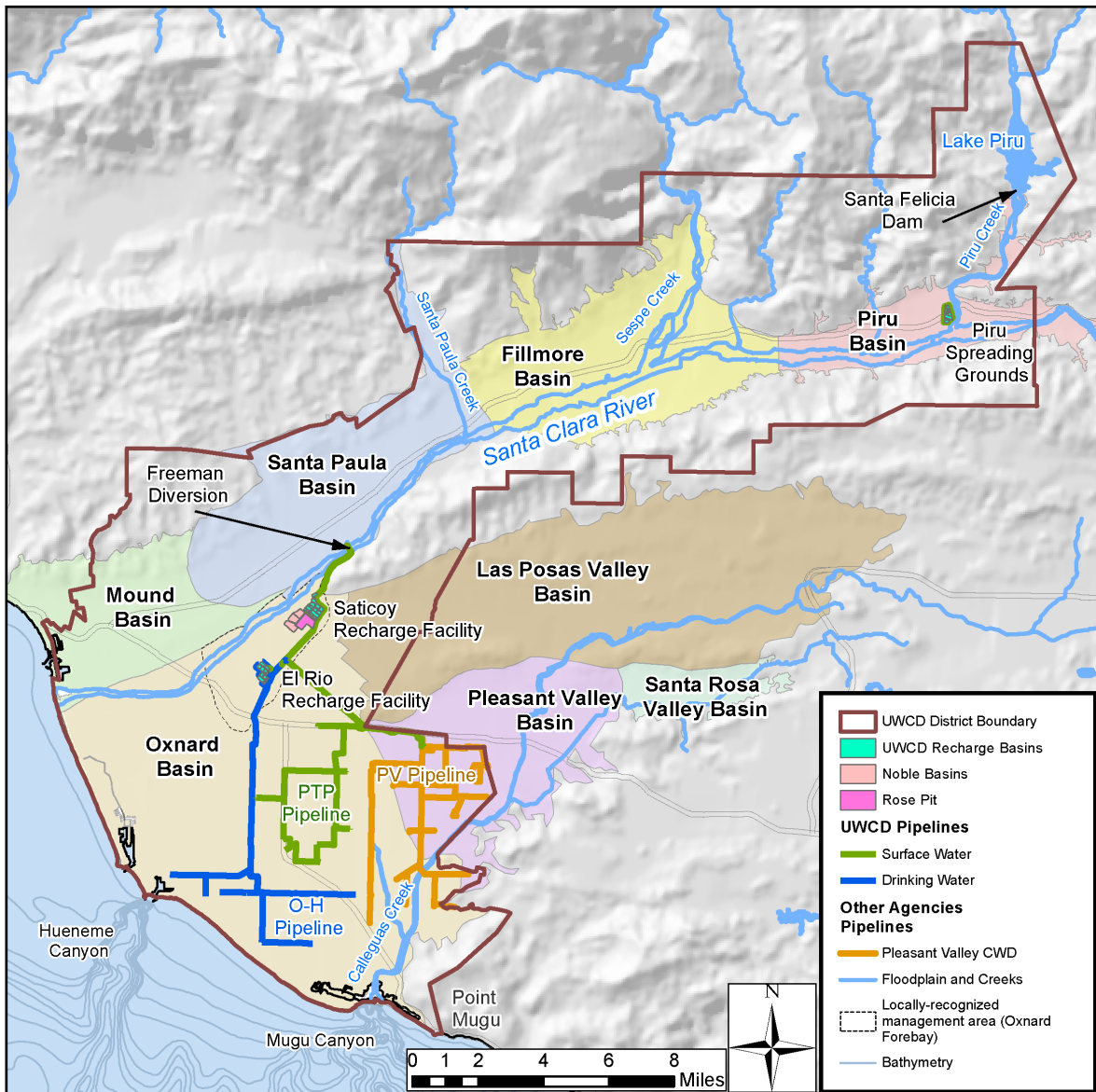




# United Water CONSERVATION DISTRICT

## May 2023 Hydrologic Conditions Report 2022/23 Water Year

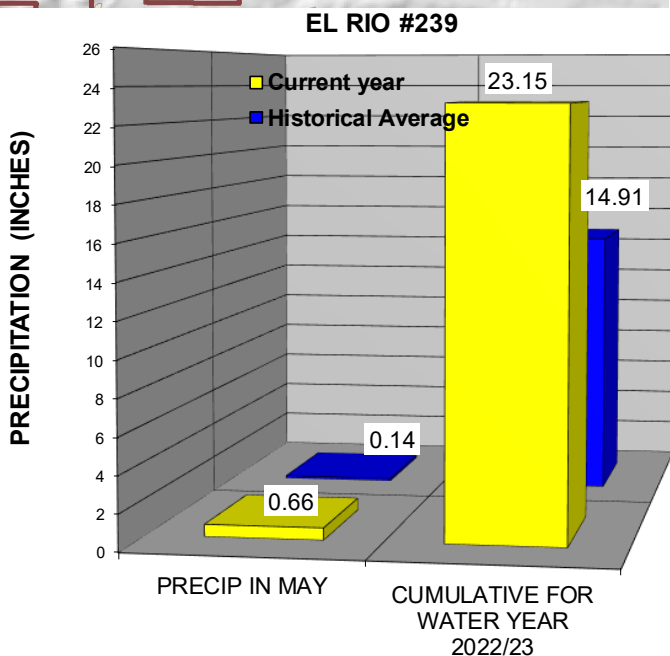
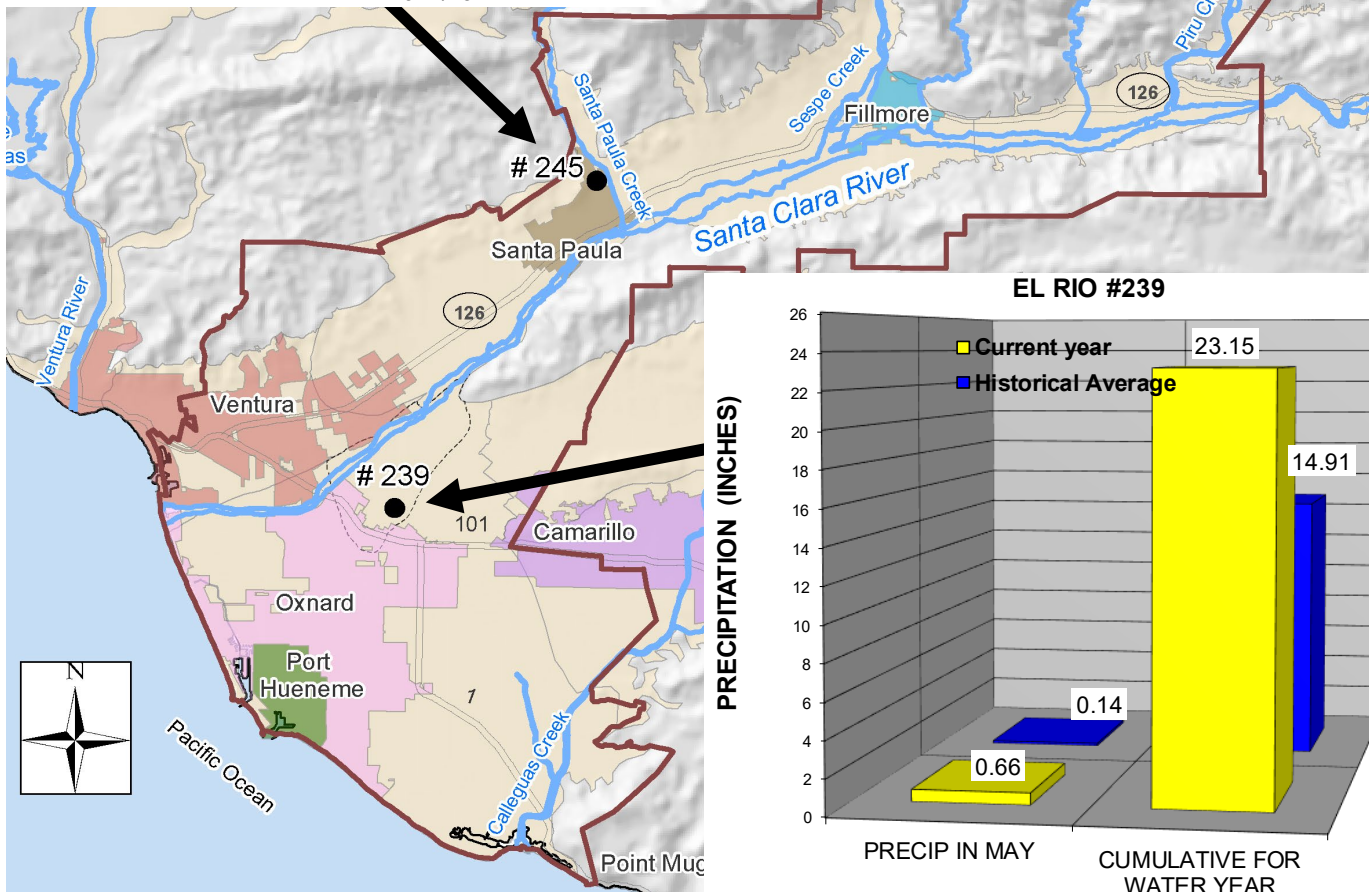
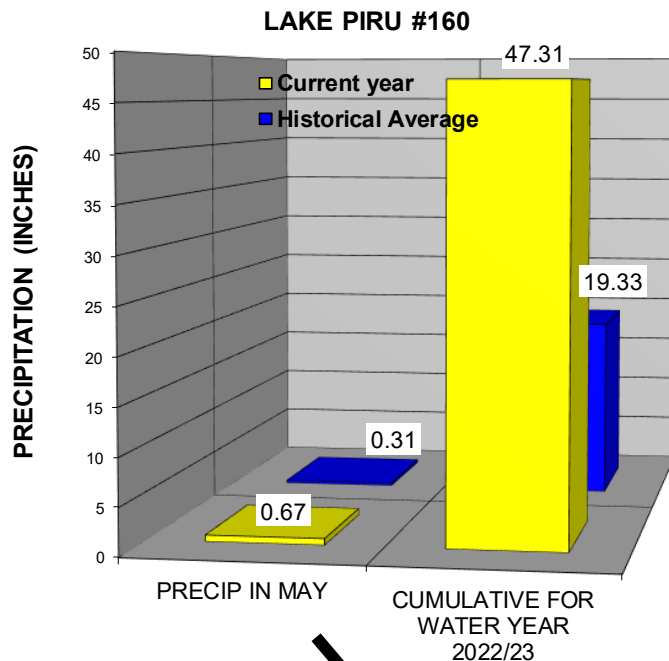
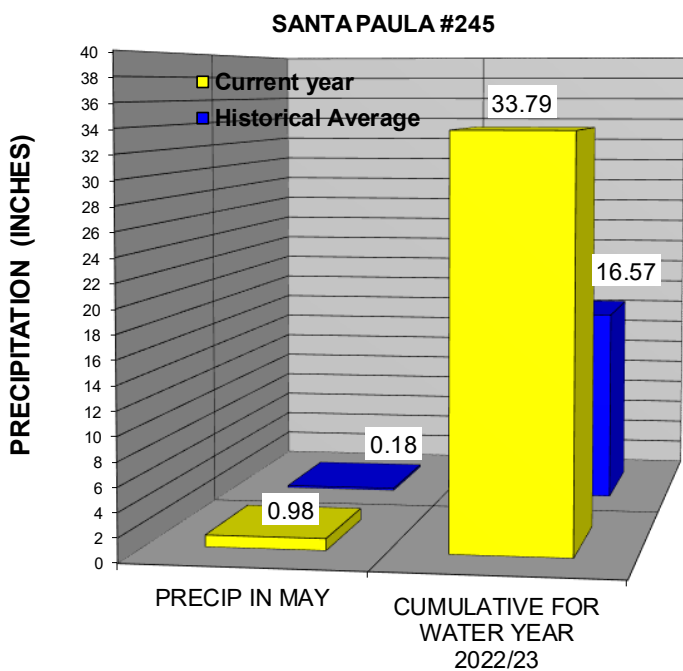
June 6, 2023



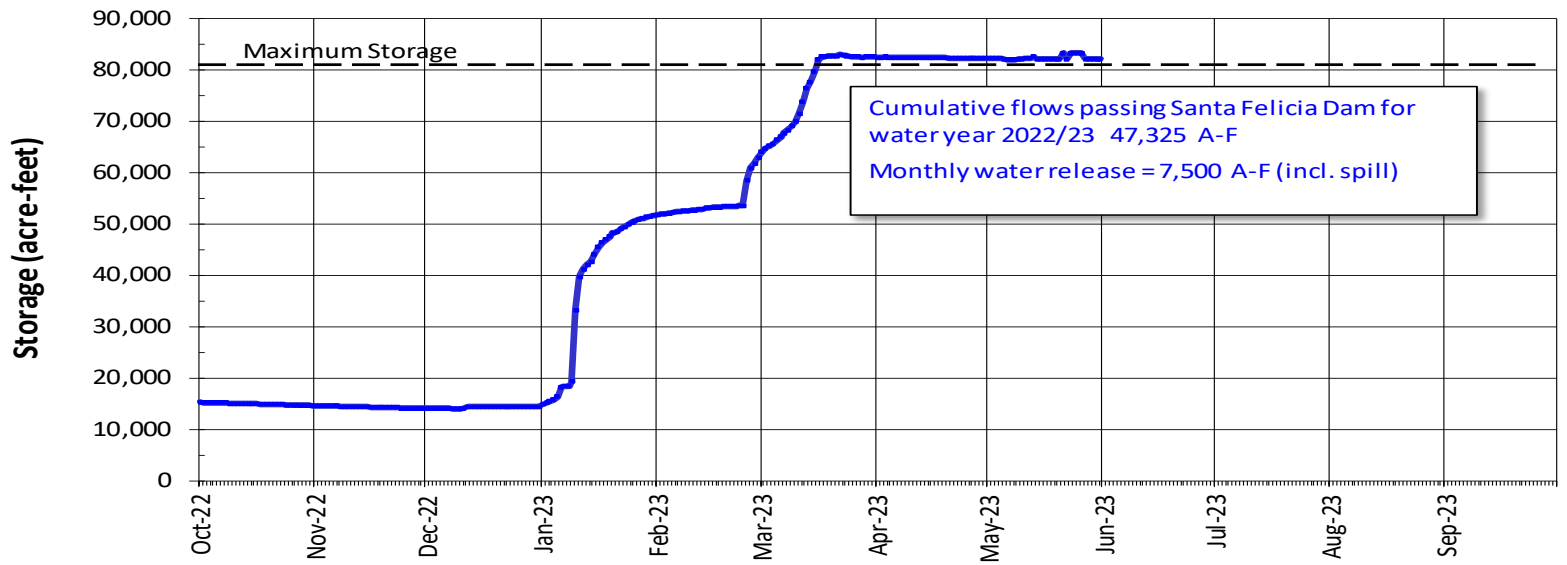
*Note: This report may contain provisional data until final review at the end of the water year.*

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# Precipitation

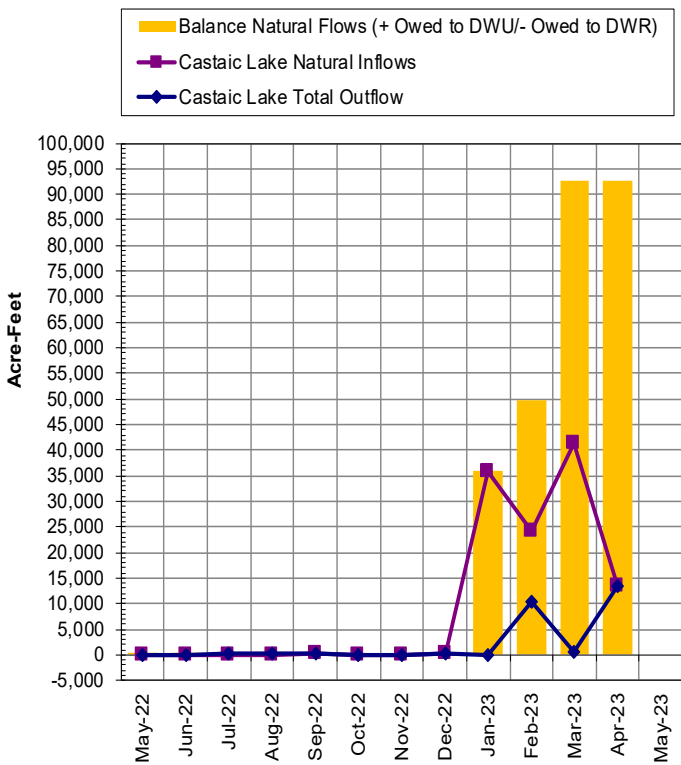


District-wide percent of normal precipitation = 205%

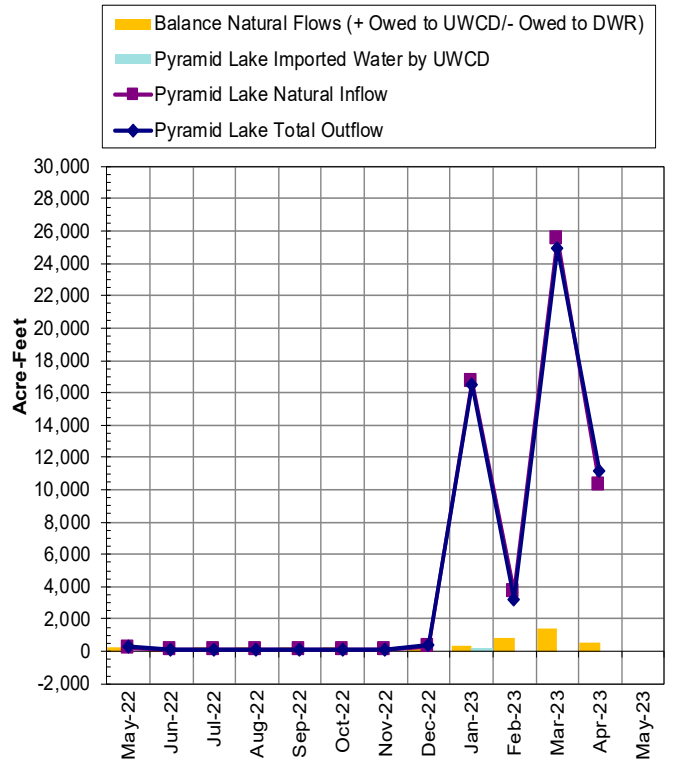


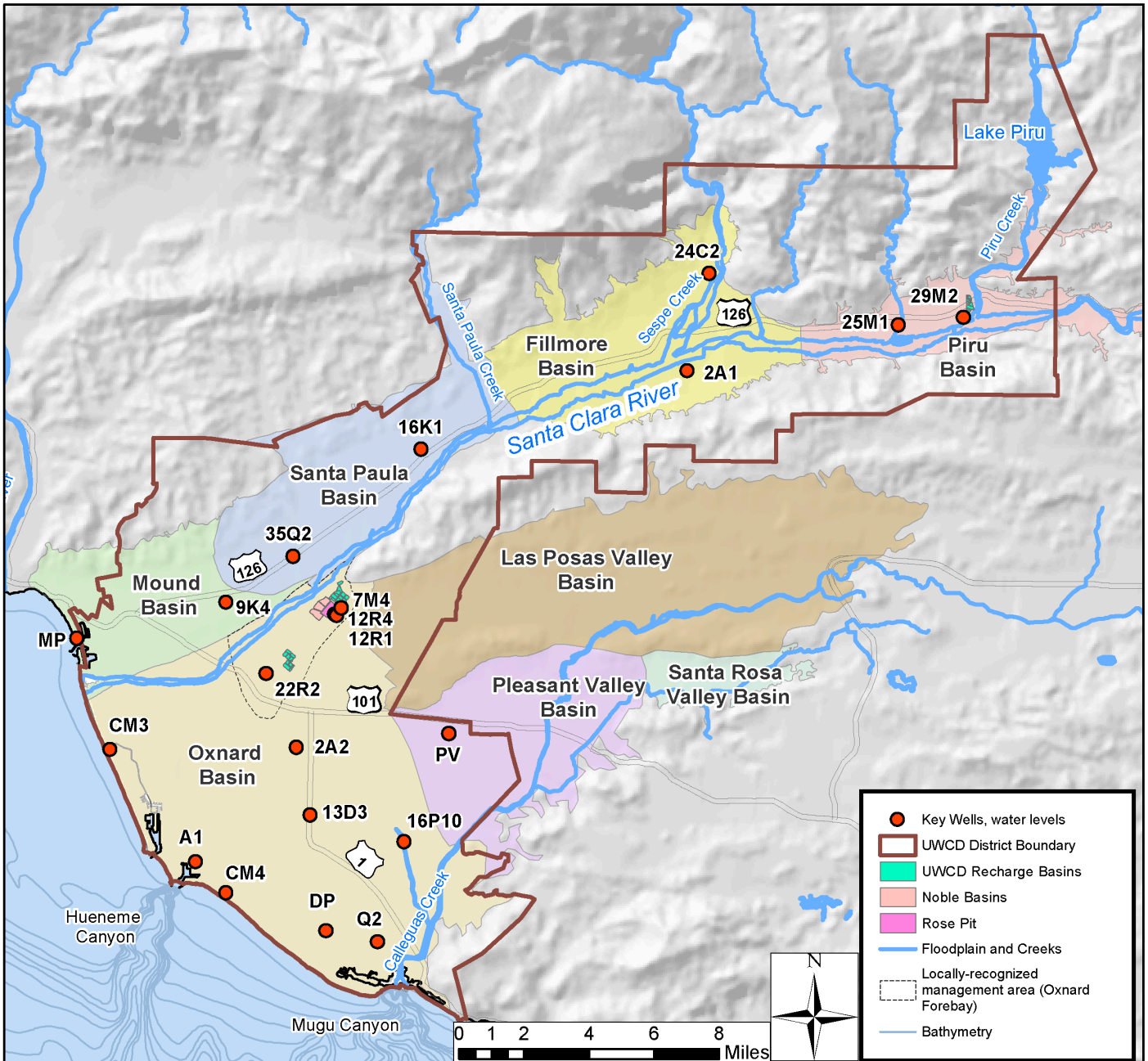
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Hydro Plant Outflow (Acre-Feet)	0	0	0	0	0	0	0	0				
Cumulative Hydro Plant Outflow (A-F)	0	0	0	0	0	0	0	0				

### Castaic Lake releases to downstream water users (DWU)



### Pyramid Lake releases to UWCD

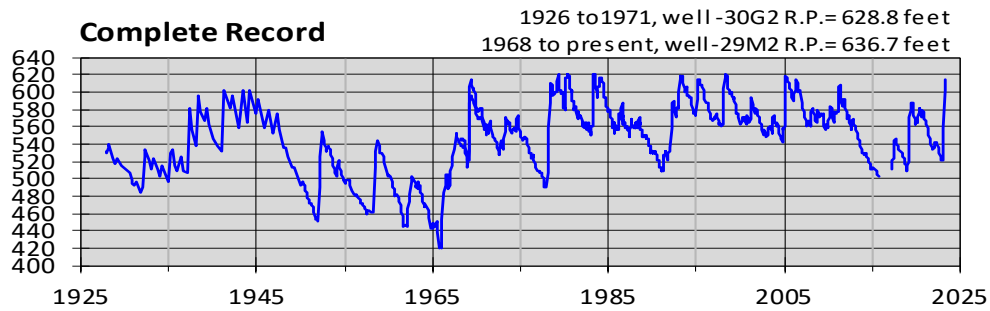
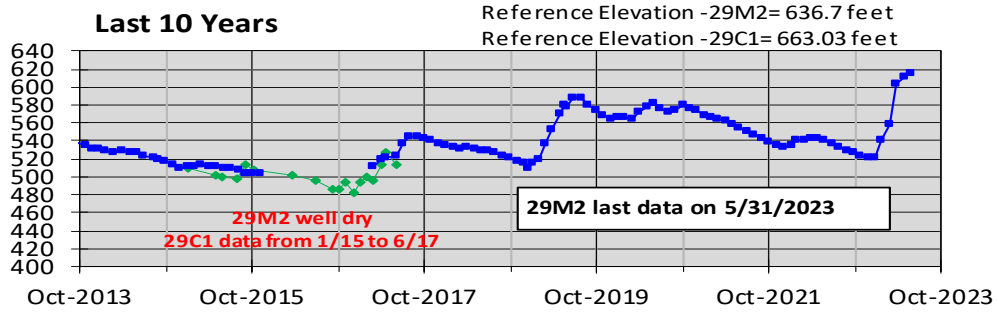




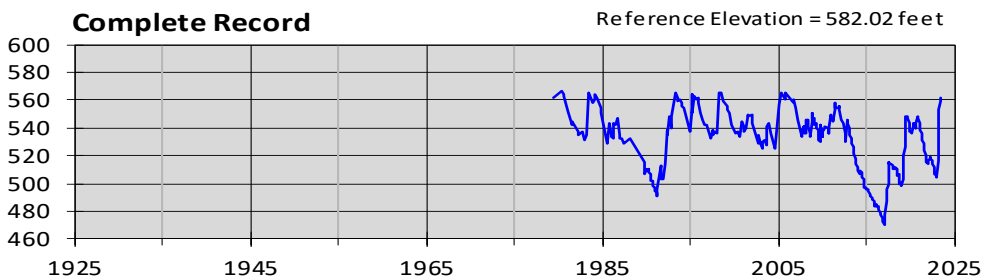
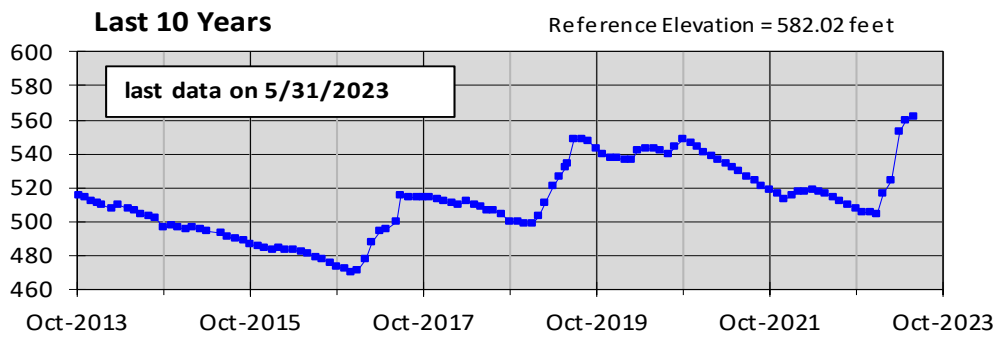
# Locations of Key Wells, Monthly Groundwater Elevation Monitoring

# Groundwater Elevation Records – Piru Basin

Well 04N18W29M02S (29M2)



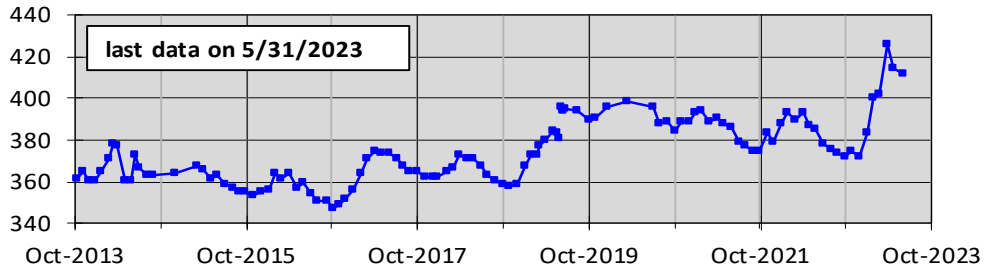
Well 04N19W25M01S (25M1)



# Groundwater Elevation Records – Fillmore Basin

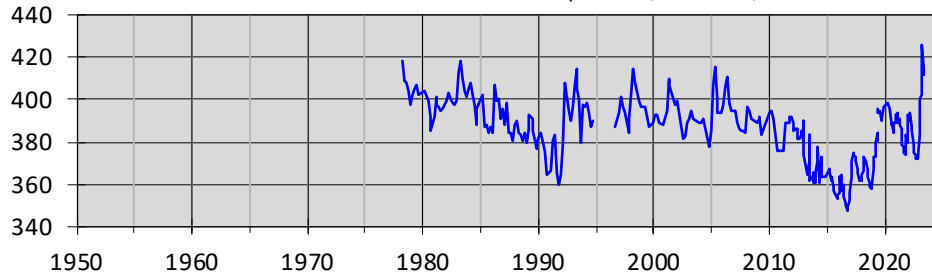
Well 04N20W24C02S (24C2)

**Last 10 Years**



**Complete Record**

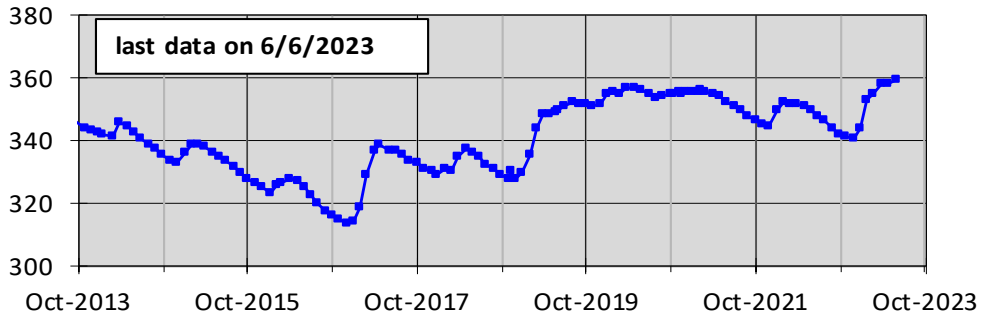
1978 to 2014, well 23Q2, R.P. = 513.99 feet  
 2015 to 2019, well 23N1, R.P. = 559.00 feet  
 2019 to present, well 24C2, R.P. = 497.02 feet



Well 03N20W02A01S (2A1)

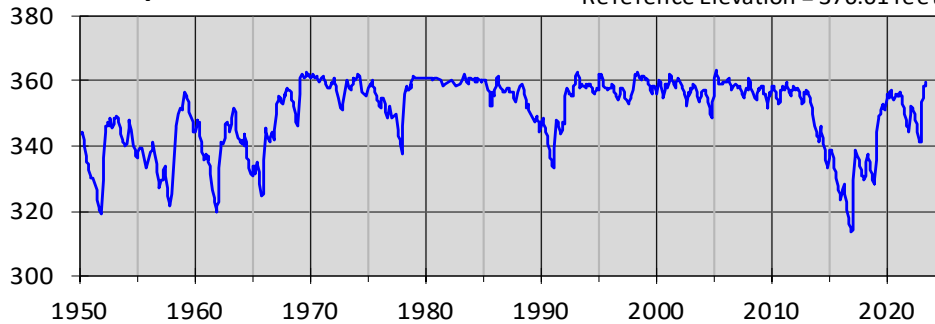
**Last 10 Years**

Reference Elevation = 376.61 feet

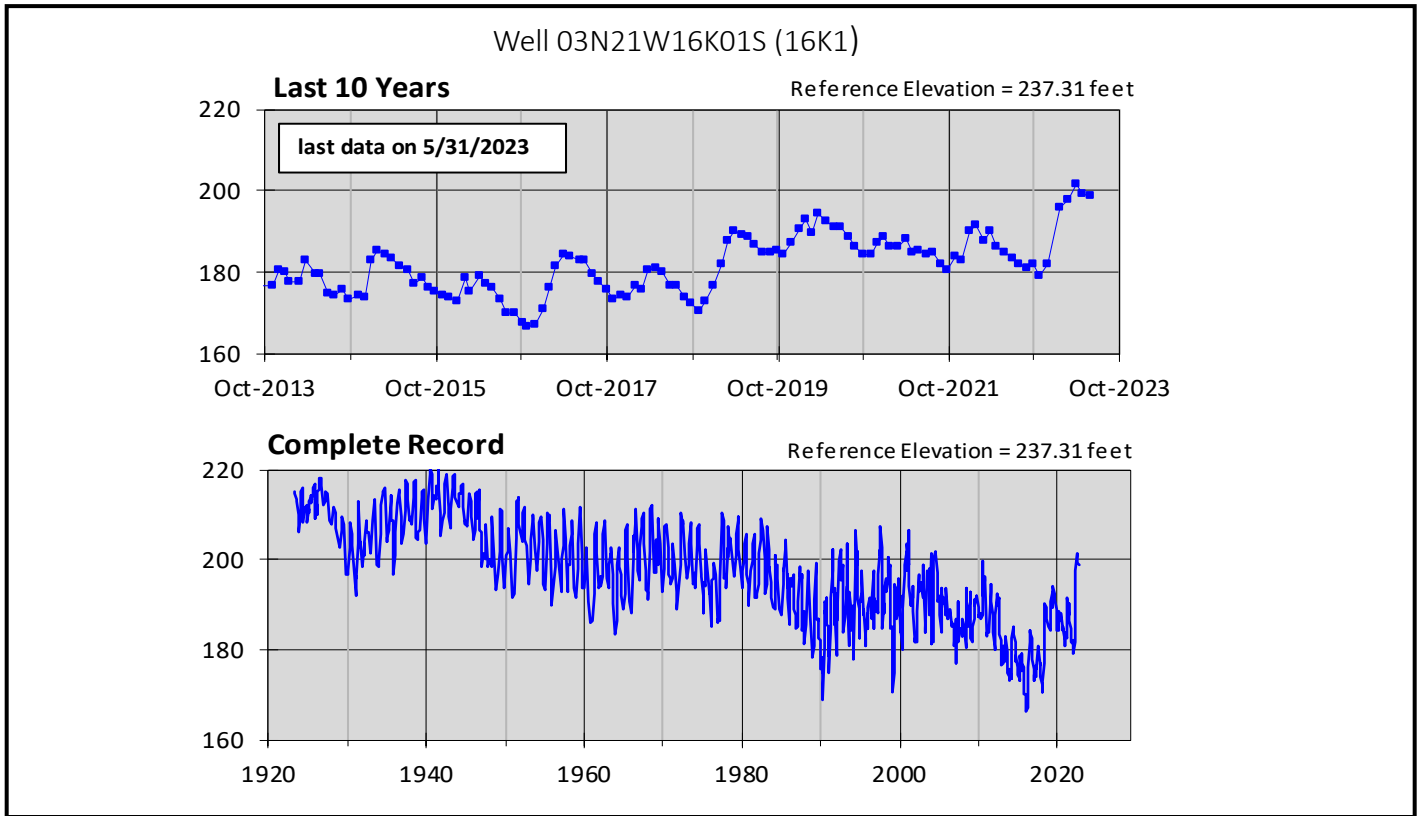


**Complete Record**

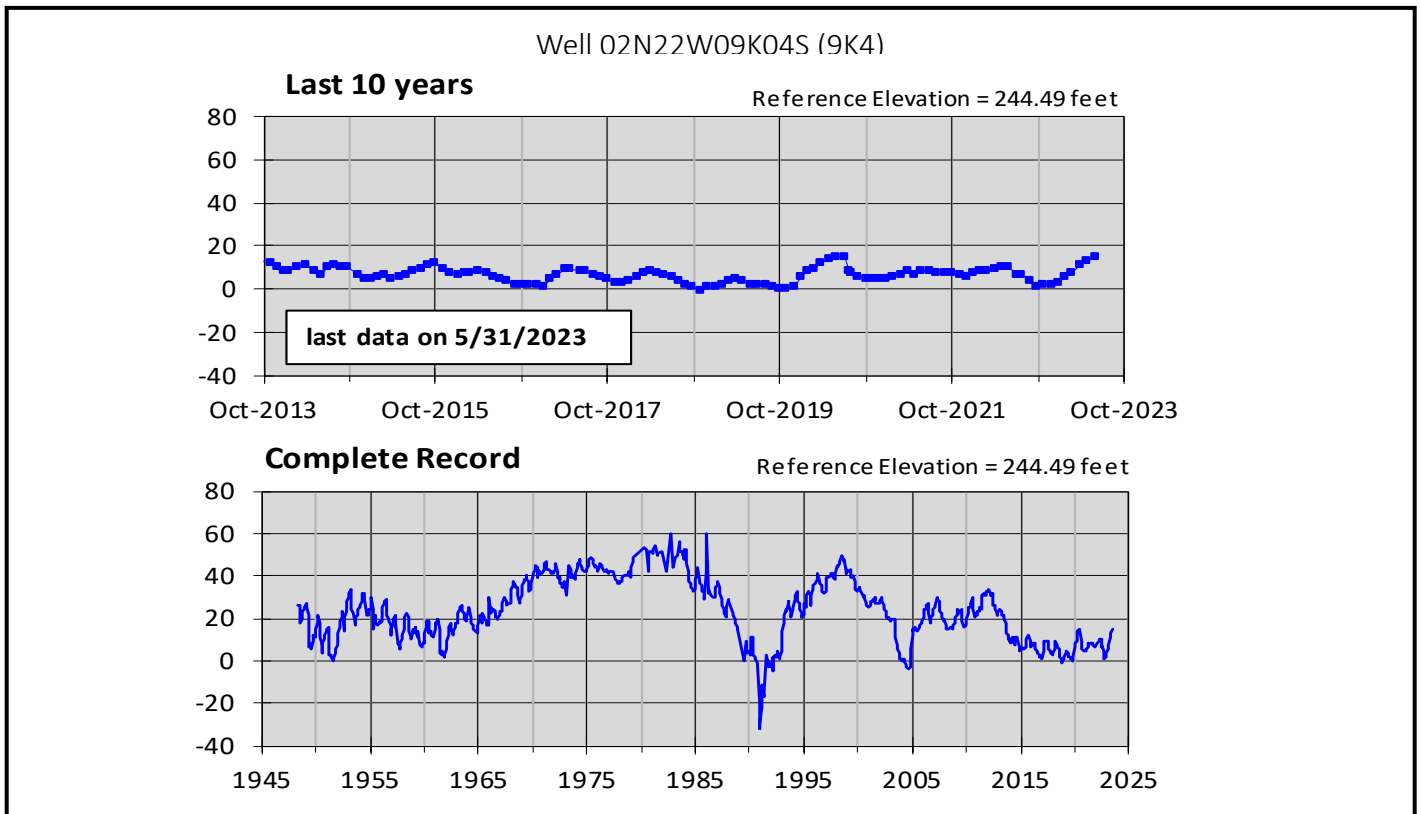
Reference Elevation = 376.61 feet



# Groundwater Elevation Records – Santa Paula Basin



# Groundwater Elevation Records – Mound Basin



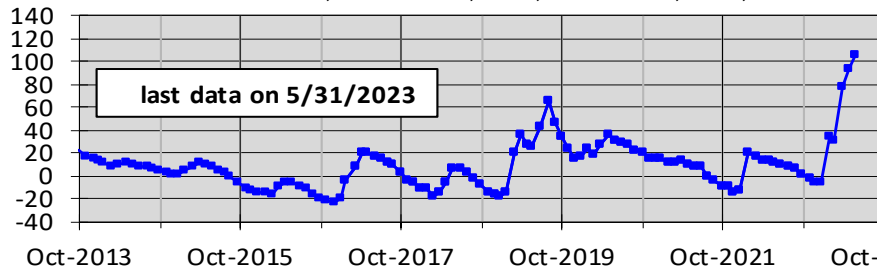


# Groundwater Elevation Records – Oxnard Basin, Forebay

Wells 02N22W12R01S (12R1), 02N22W12R04S (12R4), and 02N21W07M04S (7M4)

## Last 10 Years

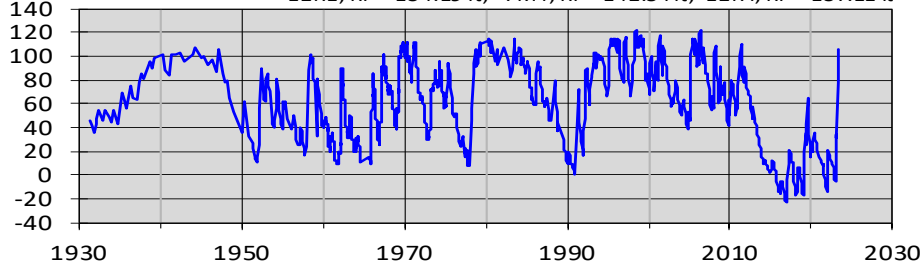
-12R1; RP = 134.19 ft; -7M4; RP = 142.84 ft; -12R4; RP = 137.11 ft



Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

## Complete Record

-12R1; RP = 134.19 ft; -7M4; RP = 142.84 ft; -12R4; RP = 137.11 ft

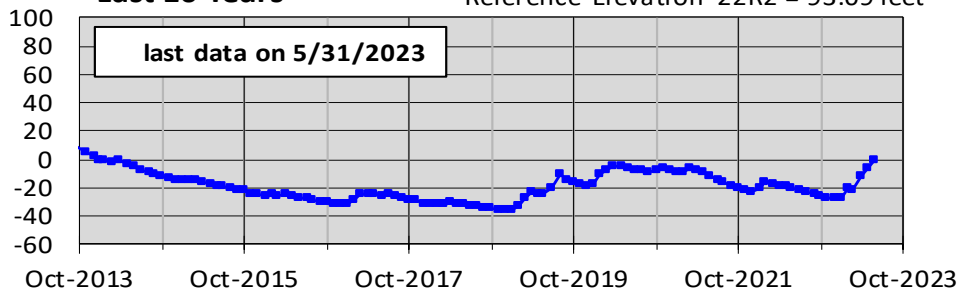


Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

Well 02N22W22R02S (22R2)

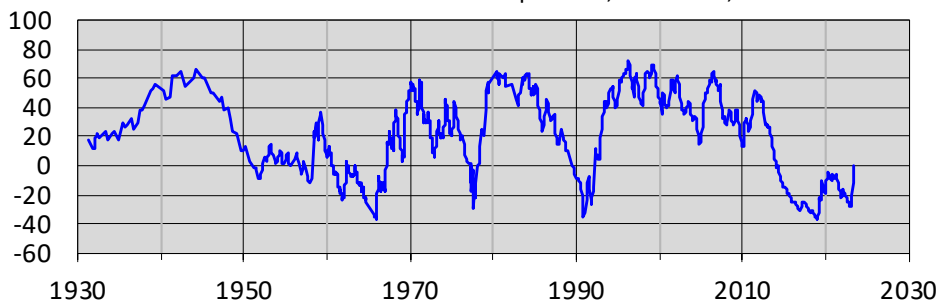
## Last 10 Years

Reference Elevation -22R2 = 93.09 feet

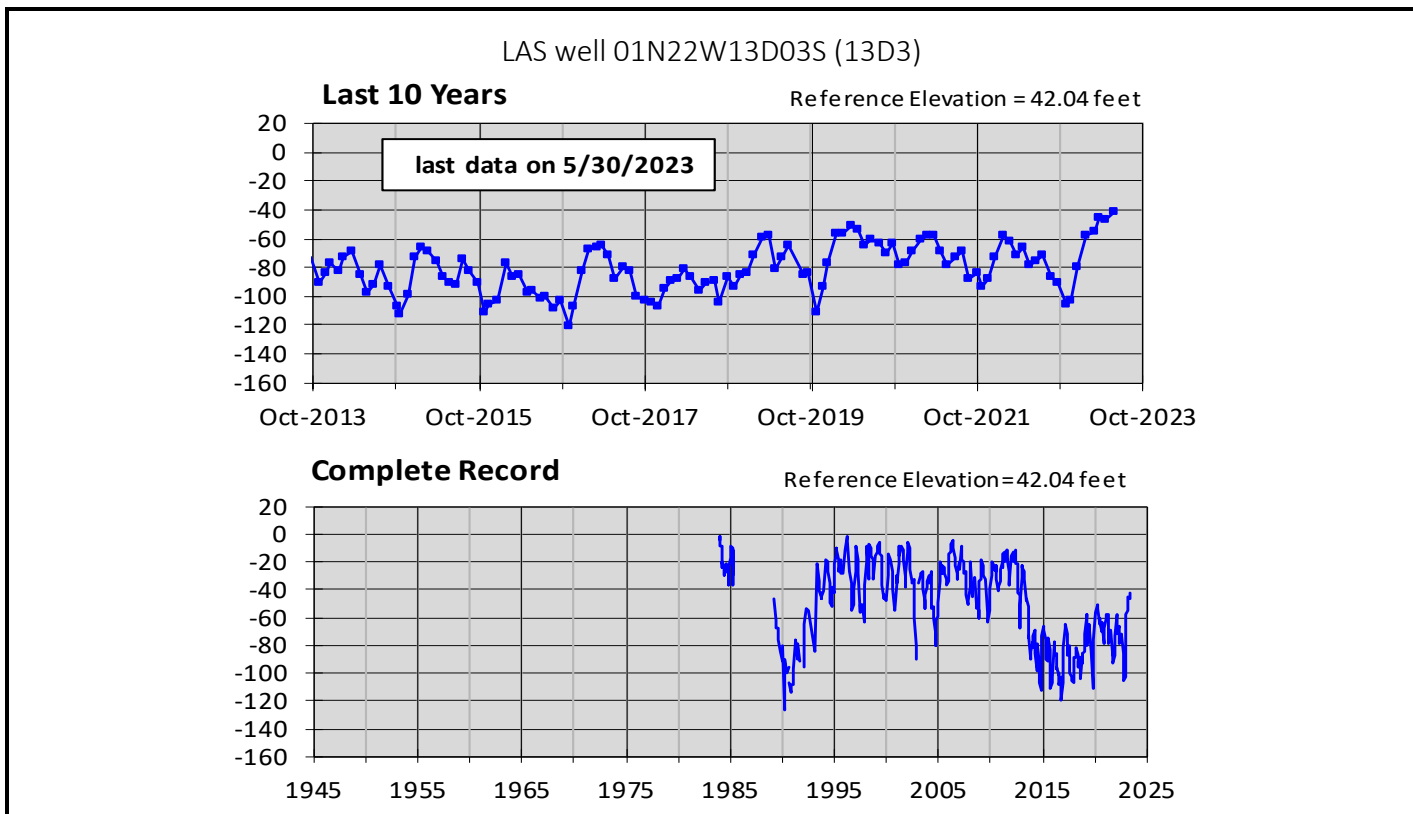
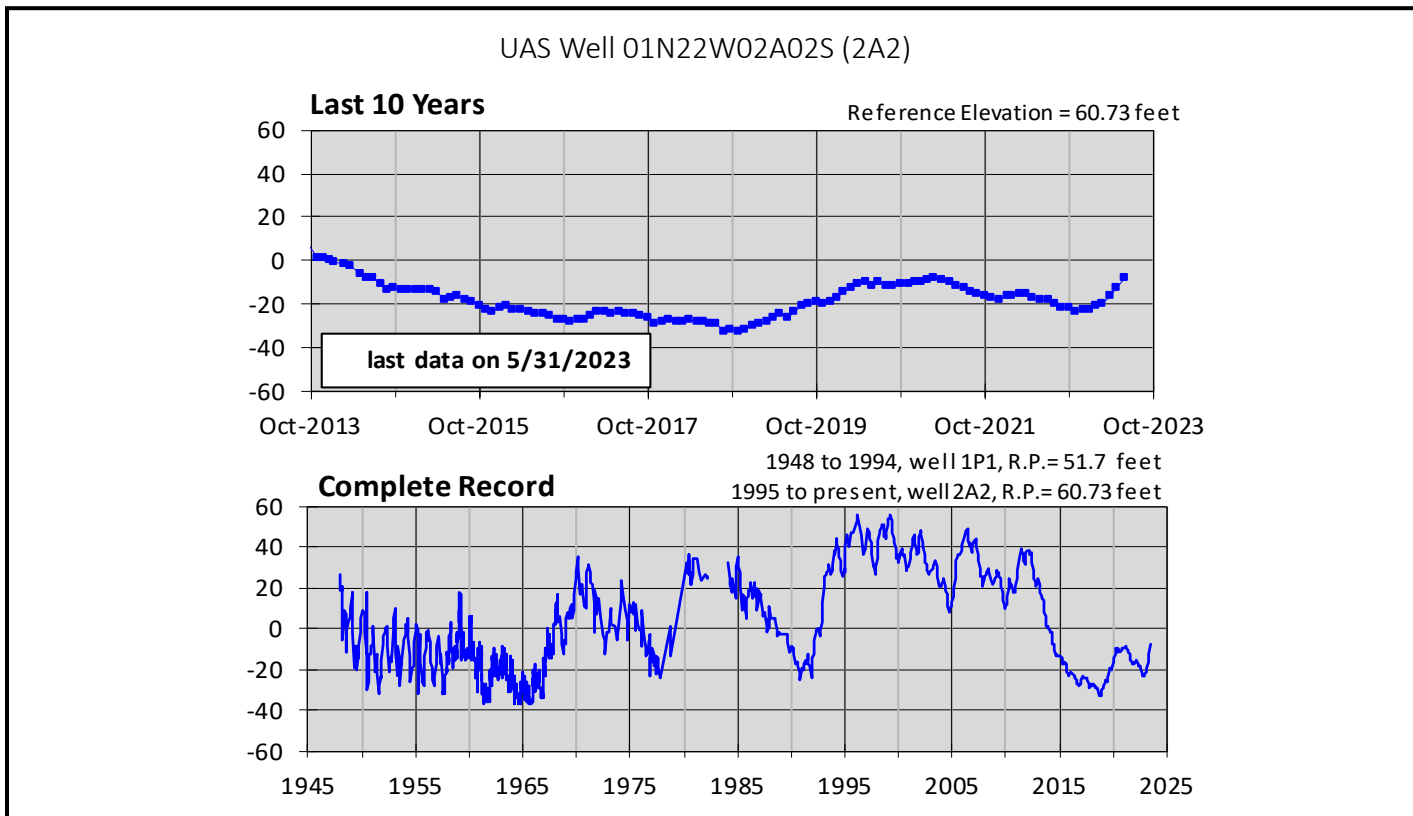


## Complete Record

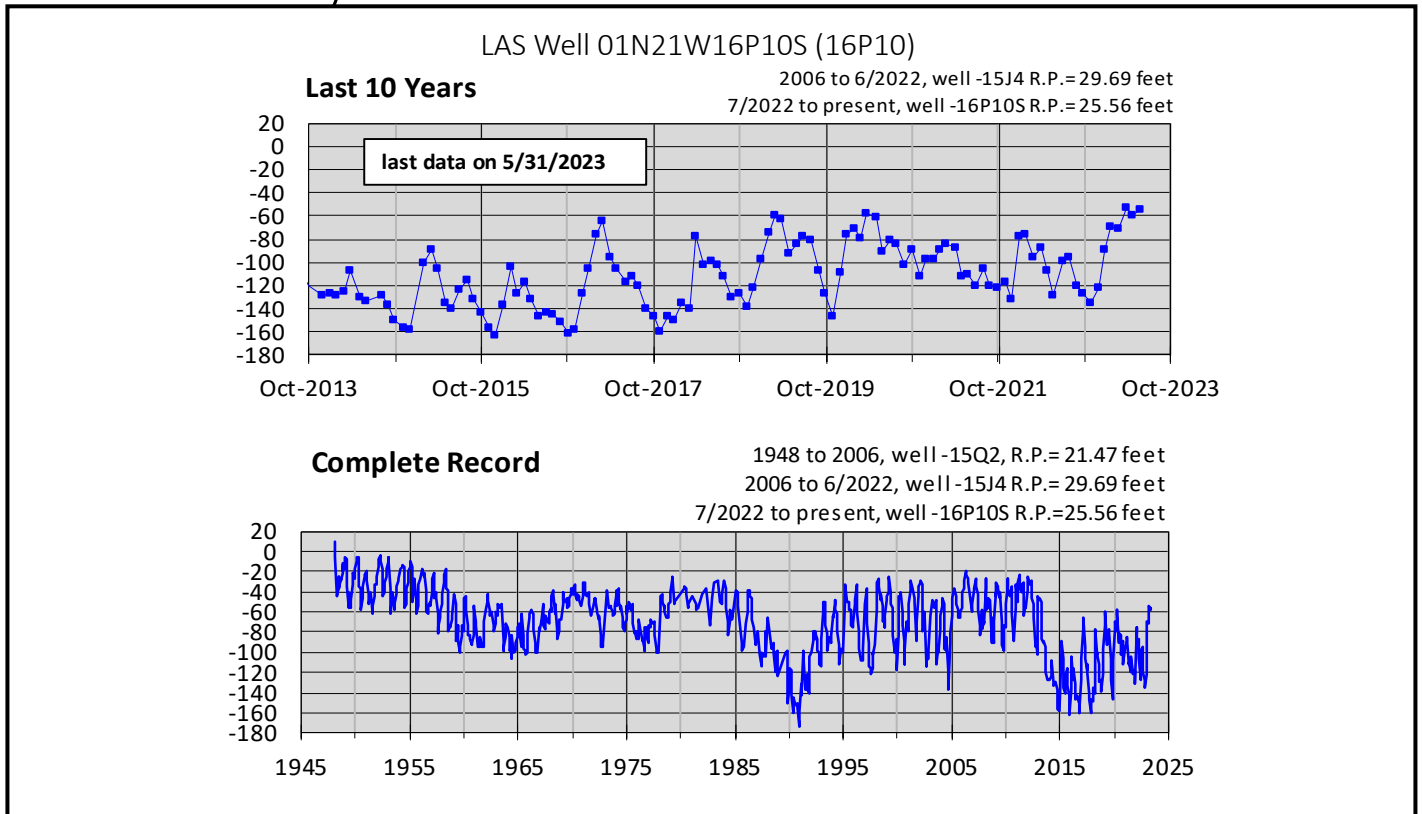
1931 to 2004, well -22R1, RP = 93.6 feet  
2004 to present, well -22R2, RP = 93.09 feet



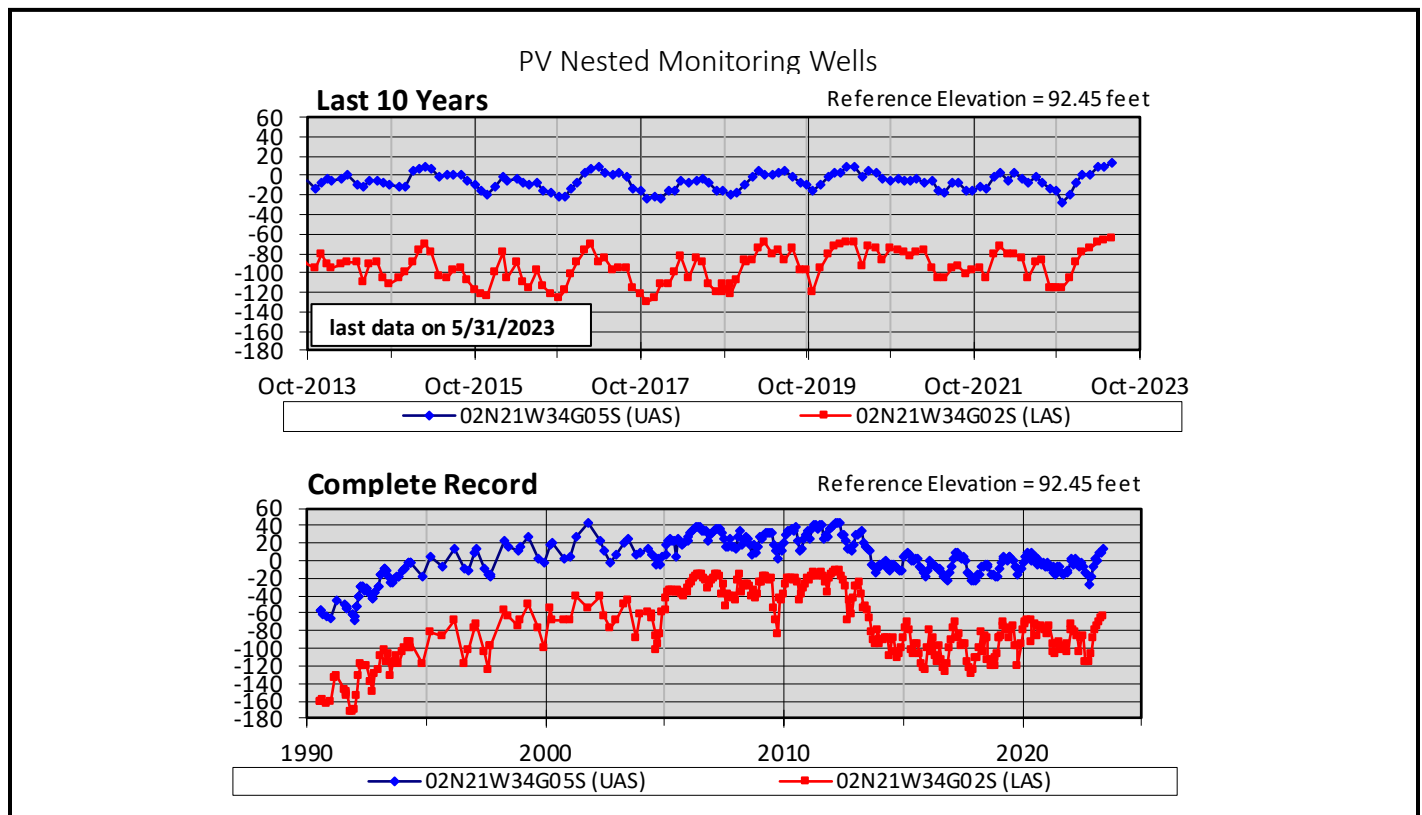
# Groundwater Elevation Records – Oxnard Basin



# Groundwater Elevation Records – eastern Oxnard/Pleasant Valley Basin Boundary Area

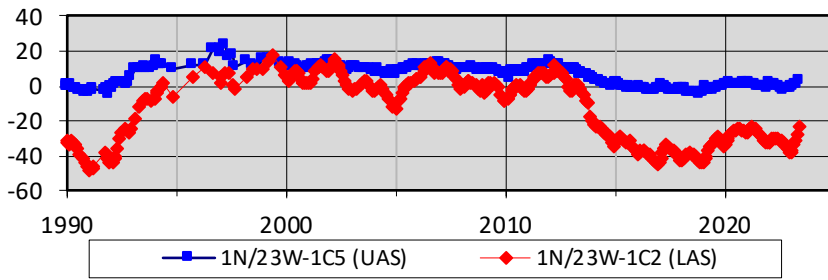


# Groundwater Elevation Records – Pleasant Valley Basin

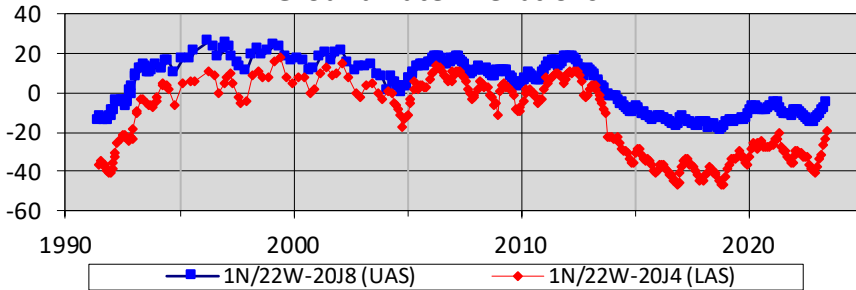


# Groundwater Elevation Records – Coastal Nested Monitoring Wells

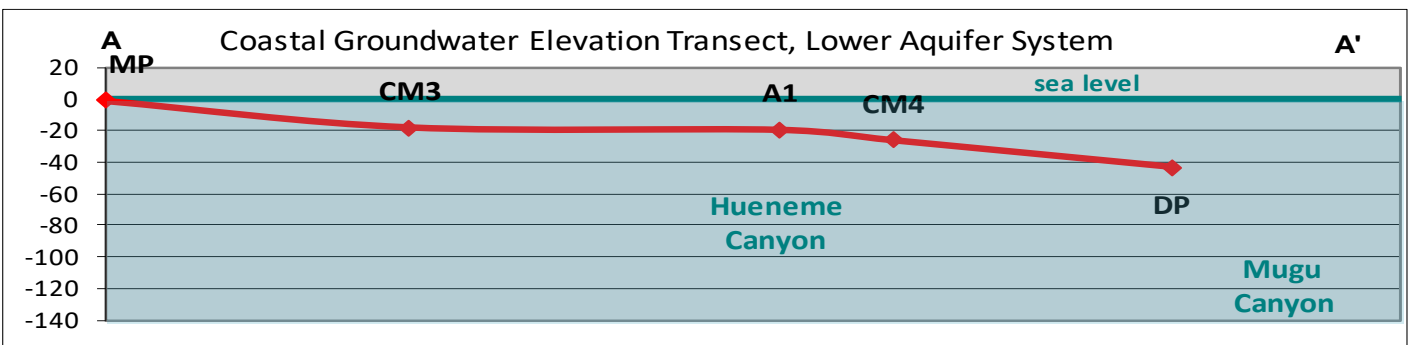
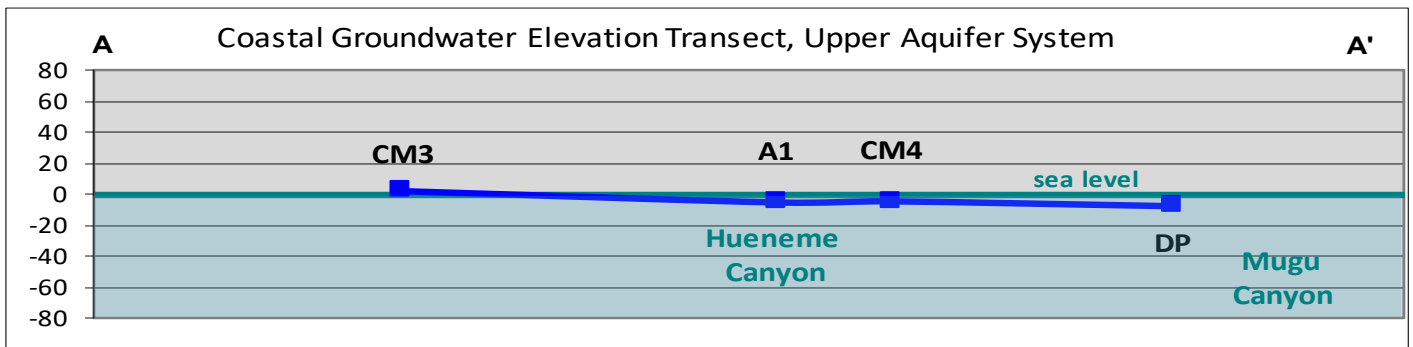
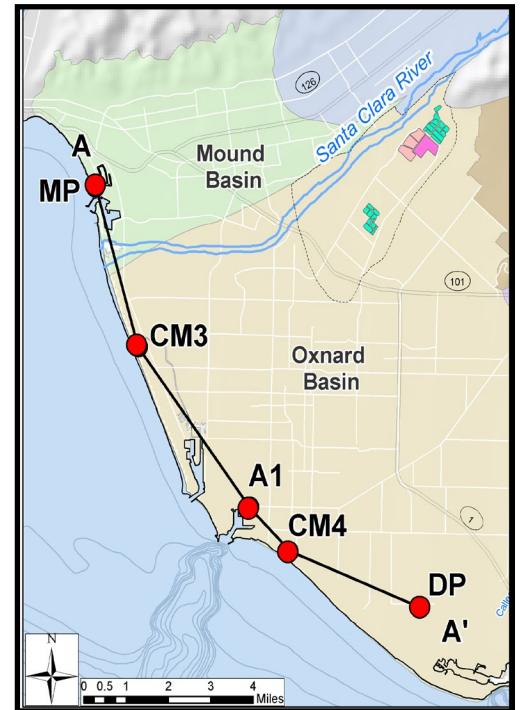
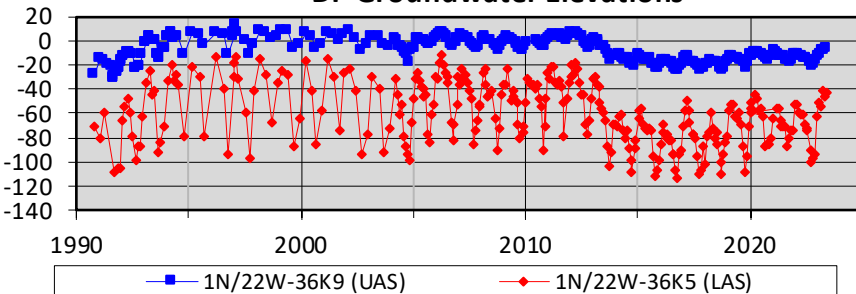
## CM3 Groundwater Elevations



## A1 Groundwater Elevations



## DP Groundwater Elevations



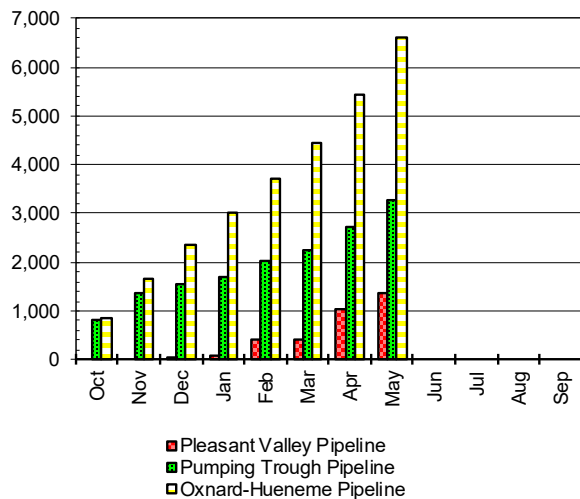
## Monthly Water Deliveries, acre-feet (Water Year 2022/23)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
PV Pipeline (surface water)	0.0	0.0	7.9	84.3	312.8	18.9	598.8	330.0				
PV Pipeline (Saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
<b>Total to Pleasant Valley Pipeline</b>	<b>0.0</b>	<b>0.0</b>	<b>7.9</b>	<b>84.3</b>	<b>312.8</b>	<b>18.9</b>	<b>598.8</b>	<b>330.0</b>				
PTP (surface water)	0.0	0.0	64.5	143.7	207.7	186.7	507.1	538.9				
PTP (PTP 1-5)	706.9	500.4	145.6	0.0	117.3	9.1	2.2	0.3				
PTP (OH-12/13)	116.5	32.1	0.0	0.0	0.0	0.0	0.0	0.0				
PTP (Saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
<b>Total PTP</b>	<b>823.4</b>	<b>532.5</b>	<b>210.1</b>	<b>143.7</b>	<b>325.0</b>	<b>195.8</b>	<b>509.3</b>	<b>539.2</b>				
C-customers (surface water)	0	0	0	0	0	0	0	0				
Saticoy Well Field (groundwater)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
O-H Pipeline (groundwater)	835.8	818.2	713.2	643.3	700.3	730.8	986.3	1,175.4				
<b>Total Surface Water Delivery (PTP, PV, c-cust)</b>	<b>0.0</b>	<b>0.0</b>	<b>72.4</b>	<b>228.0</b>	<b>520.5</b>	<b>205.6</b>	<b>1,105.9</b>	<b>868.9</b>				
<b>Total Groundwater Delivery (PTP, OH, Sat)</b>	<b>1,659.2</b>	<b>1,350.7</b>	<b>858.8</b>	<b>643.3</b>	<b>817.6</b>	<b>739.9</b>	<b>988.5</b>	<b>1,175.7</b>				
<b>Total Delivery (surface water, groundwater)</b>	<b>1,659.2</b>	<b>1,350.7</b>	<b>931.2</b>	<b>871.3</b>	<b>1,338.1</b>	<b>945.5</b>	<b>2,094.4</b>	<b>2,044.6</b>				

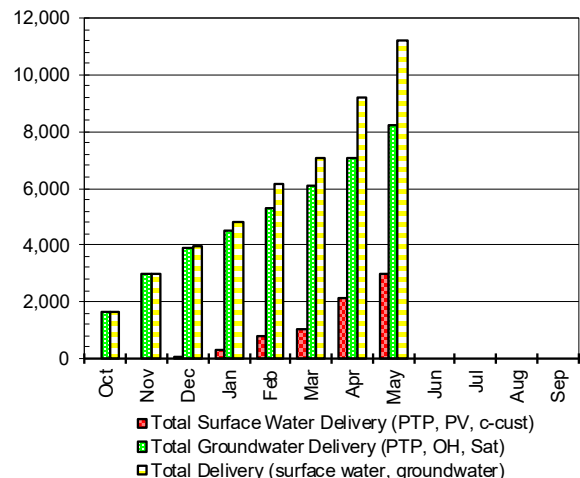
## Cumulative Water Deliveries, acre-feet (Water Year 2022/23)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
PV Pipeline (surface water)	0.0	0.0	7.9	92.2	405.0	423.9	1,022.7	1,352.7				
PV Pipeline (saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
<b>Total to Pleasant Valley Pipeline</b>	<b>0.0</b>	<b>0.0</b>	<b>7.9</b>	<b>92.2</b>	<b>405.0</b>	<b>423.9</b>	<b>1,022.7</b>	<b>1,352.7</b>				
PTP (surface water)	0.0	0.0	64.5	208.2	415.9	602.6	1,109.7	1,648.6				
PTP (PTP 1-5)	706.9	1,207.3	1,352.9	1,352.9	1,470.2	1,479.3	1,481.5	1,481.8				
PTP (OH-12/13)	116.5	148.6	148.6	148.6	148.6	148.6	148.6	148.6				
PTP (Saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
<b>Total PTP</b>	<b>823.4</b>	<b>1,355.9</b>	<b>1,566.0</b>	<b>1,709.7</b>	<b>2,034.7</b>	<b>2,230.5</b>	<b>2,739.8</b>	<b>3,279.0</b>				
C-customers (surface water)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Saticoy Well Field (groundwater)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
O-H Pipeline (groundwater)	835.8	1,654.0	2,367.2	3,010.5	3,710.8	4,441.6	5,427.9	6,603.3				
<b>Total Surface Water Delivery (PTP, PV, c-cust)</b>	<b>0.0</b>	<b>0.0</b>	<b>72.4</b>	<b>300.4</b>	<b>820.9</b>	<b>1,026.5</b>	<b>2,132.4</b>	<b>3,001.3</b>				
<b>Total Groundwater Delivery (PTP, OH, Sat)</b>	<b>1,659.2</b>	<b>3,009.9</b>	<b>3,868.7</b>	<b>4,512.0</b>	<b>5,329.6</b>	<b>6,069.5</b>	<b>7,058.0</b>	<b>8,233.7</b>				
<b>Total Delivery (surface water, groundwater)</b>	<b>1,659.2</b>	<b>3,009.9</b>	<b>3,941.1</b>	<b>4,812.4</b>	<b>6,150.5</b>	<b>7,096.0</b>	<b>9,190.4</b>	<b>11,235.0</b>				

**Cumulative deliveries by system**



**Cumulative deliveries by source/type**

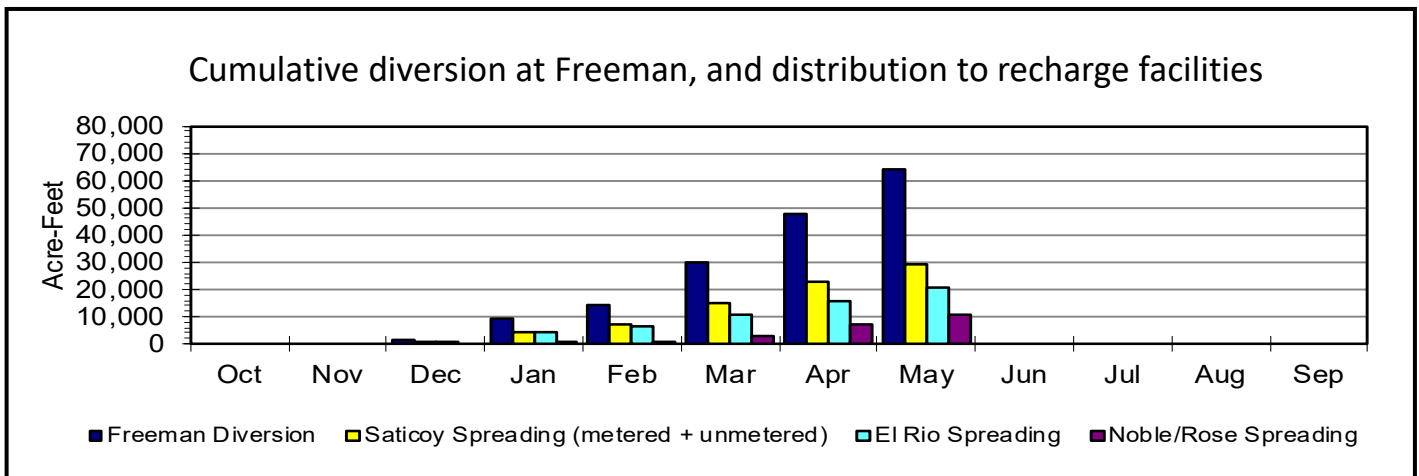


### Monthly diversion and recharge totals by facility, 2022/23, in acre-feet

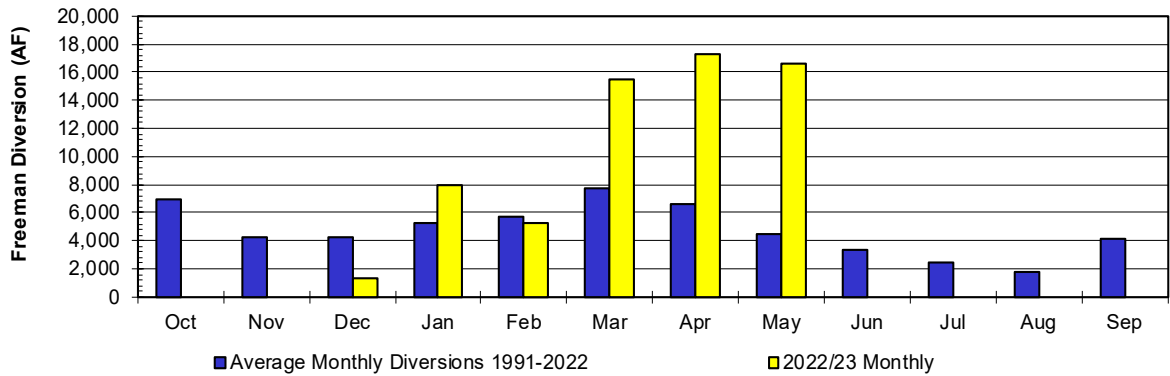
Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble/Rose Spreading	LBMWC Water Use
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	1,360	900	387	0	1
Jan	0	7,937	3,775	3,751	183	0
Feb	0	5,268	2,347	2,127	274	15
Mar	0	15,517	7,754	4,751	2,806	3
Apr	0	17,306	7,870	4,522	3,791	17
May	0	16,604	6,878	5,434	3,423	NA
Jun						
Jul						
Aug						
Sep						

### Cumulative diversion and recharge totals by facility, 2022/23, in acre-feet

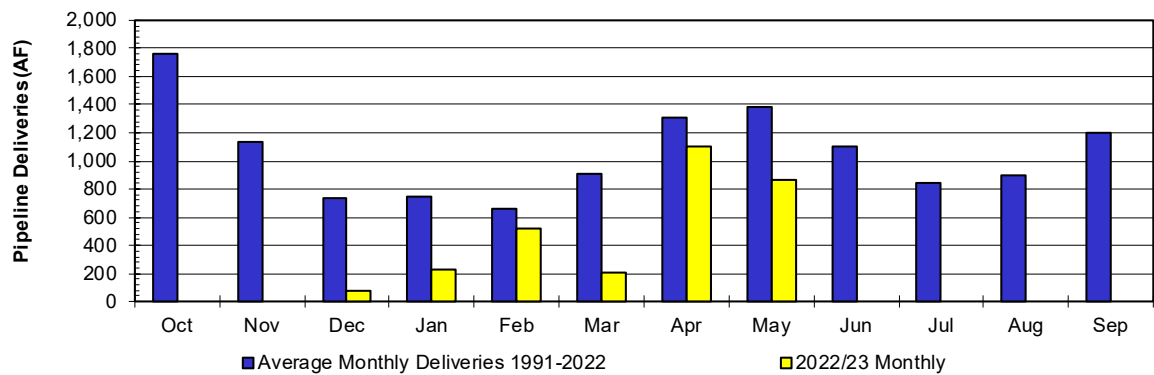
Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble/Rose Spreading	LBMWC Water Use
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	1,360	900	387	0	1
Jan	0	9,297	4,675	4,138	183	1
Feb	0	14,565	7,022	6,265	457	16
Mar	0	30,082	14,776	11,016	3,263	19
Apr	0	47,388	22,646	15,538	7,054	36
May	0	63,992	29,524	20,972	10,477	NA
Jun						
Jul						
Aug						
Sep						



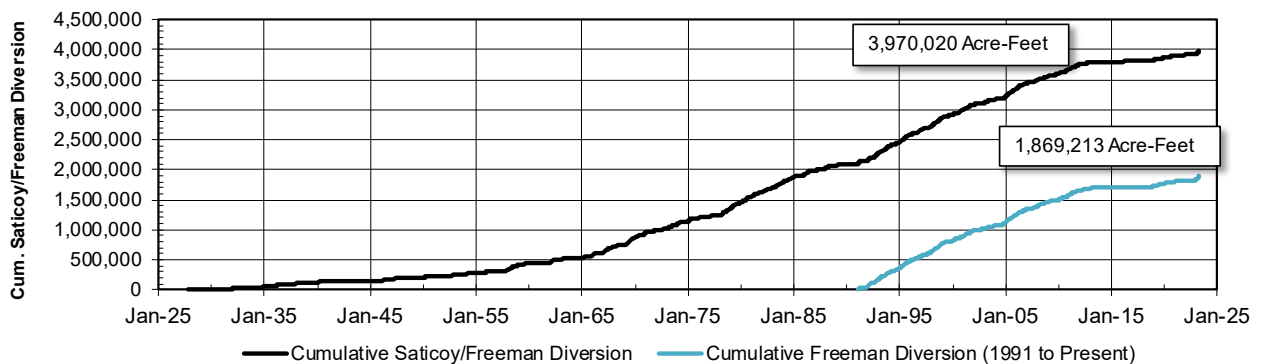
### Monthly 2022/23 diversion at Freeman, compared to average monthly diversions (1991-2022)



### Monthly 2022/23 pipeline deliveries (surface water deliveries), compared to average monthly pipeline deliveries (1991-2022)

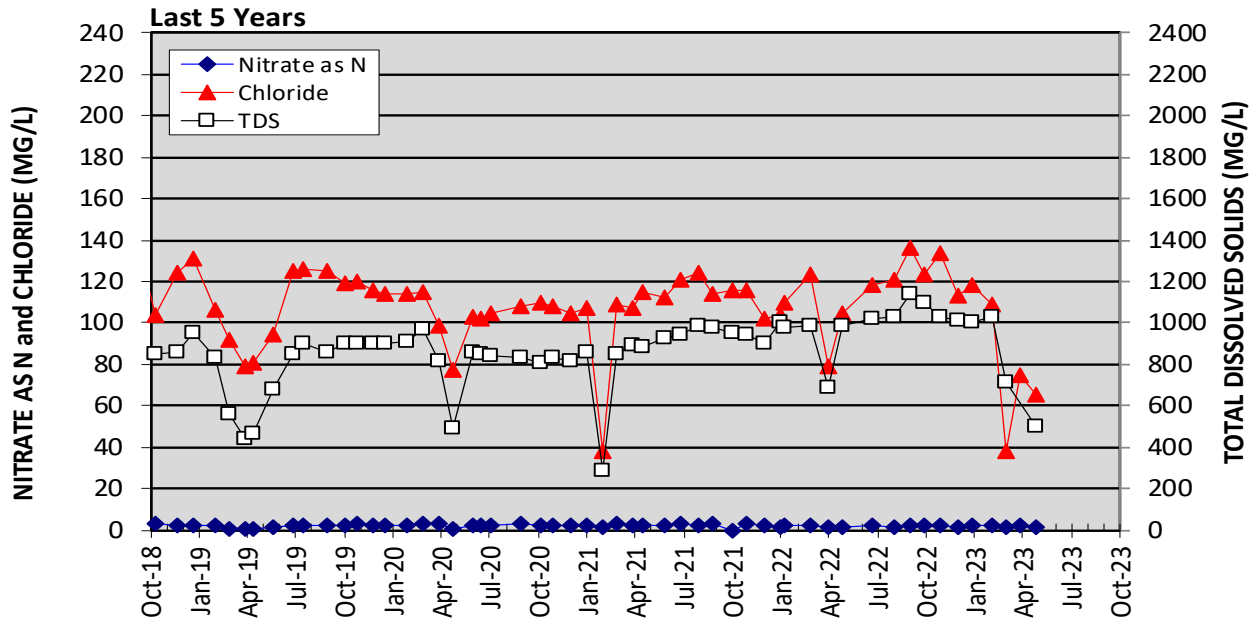


### Cumulative diversion at Saticoy and Freeman Diversion, in acre-feet

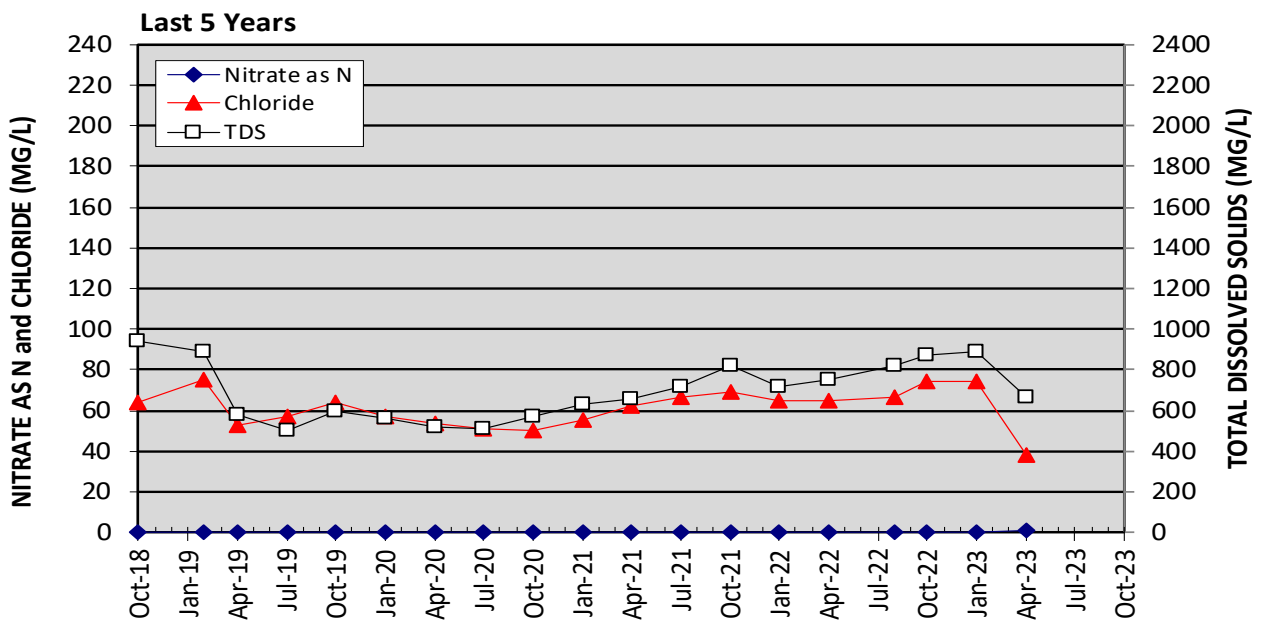


# Water Quality

Santa Clara River water quality near Los Angeles/Ventura County line

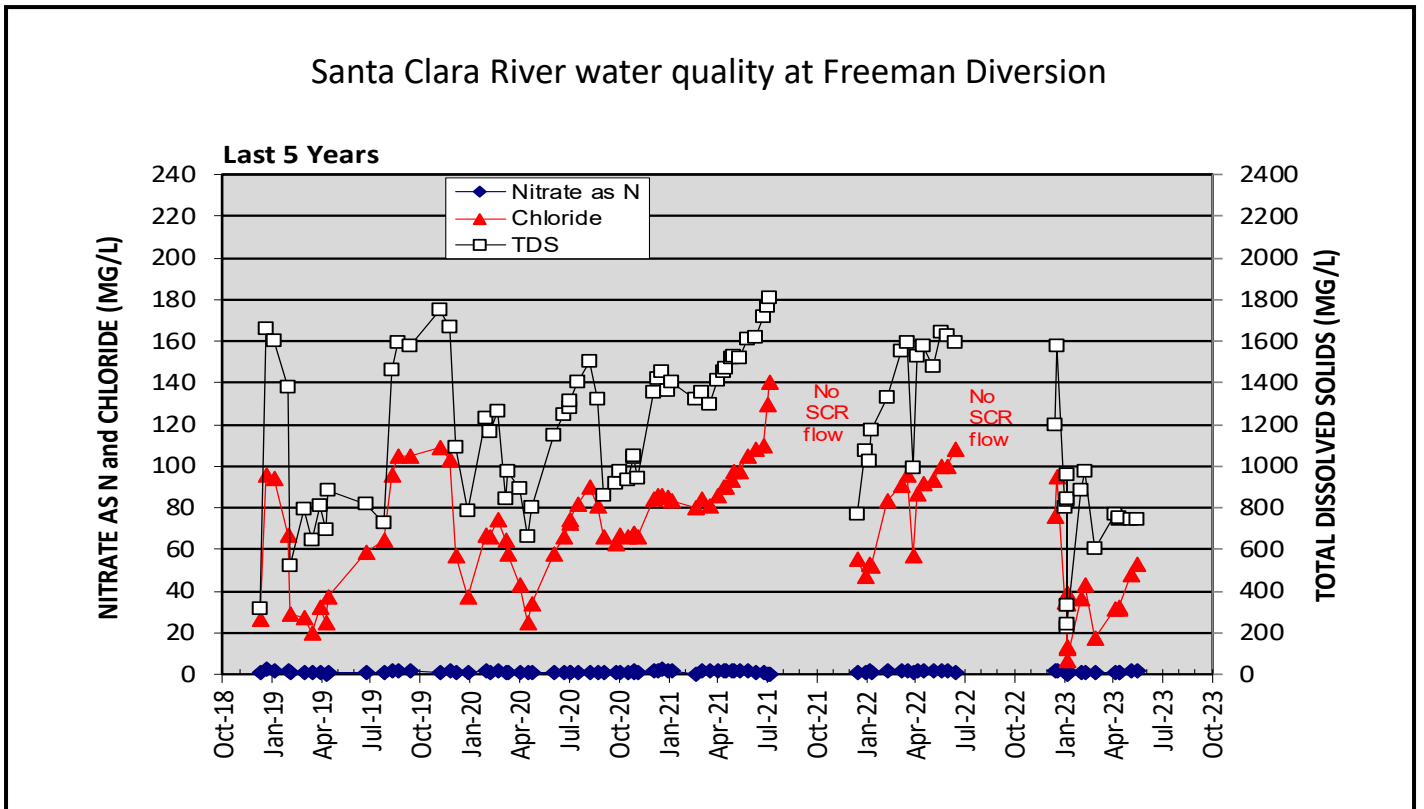
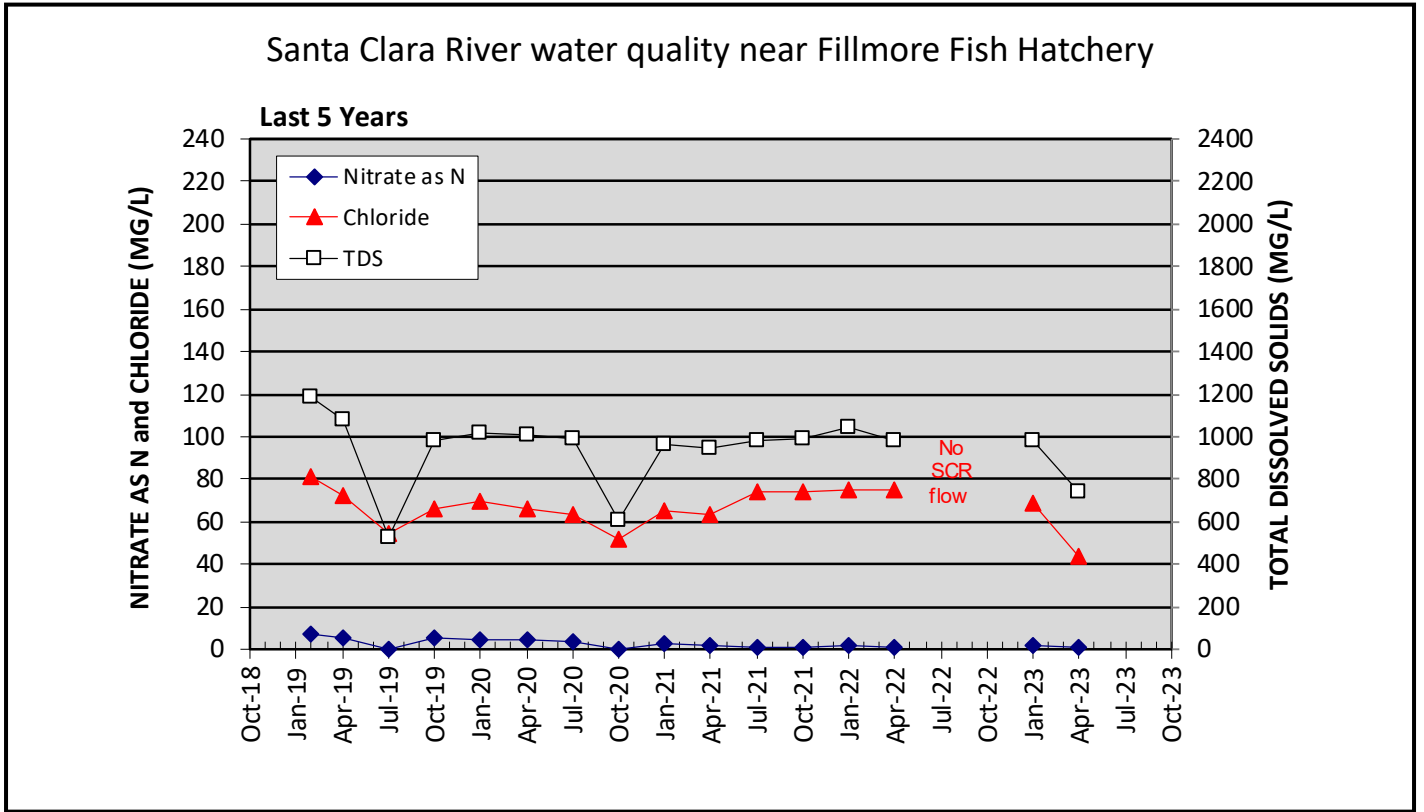


Piru Creek water quality below Santa Felicia Dam

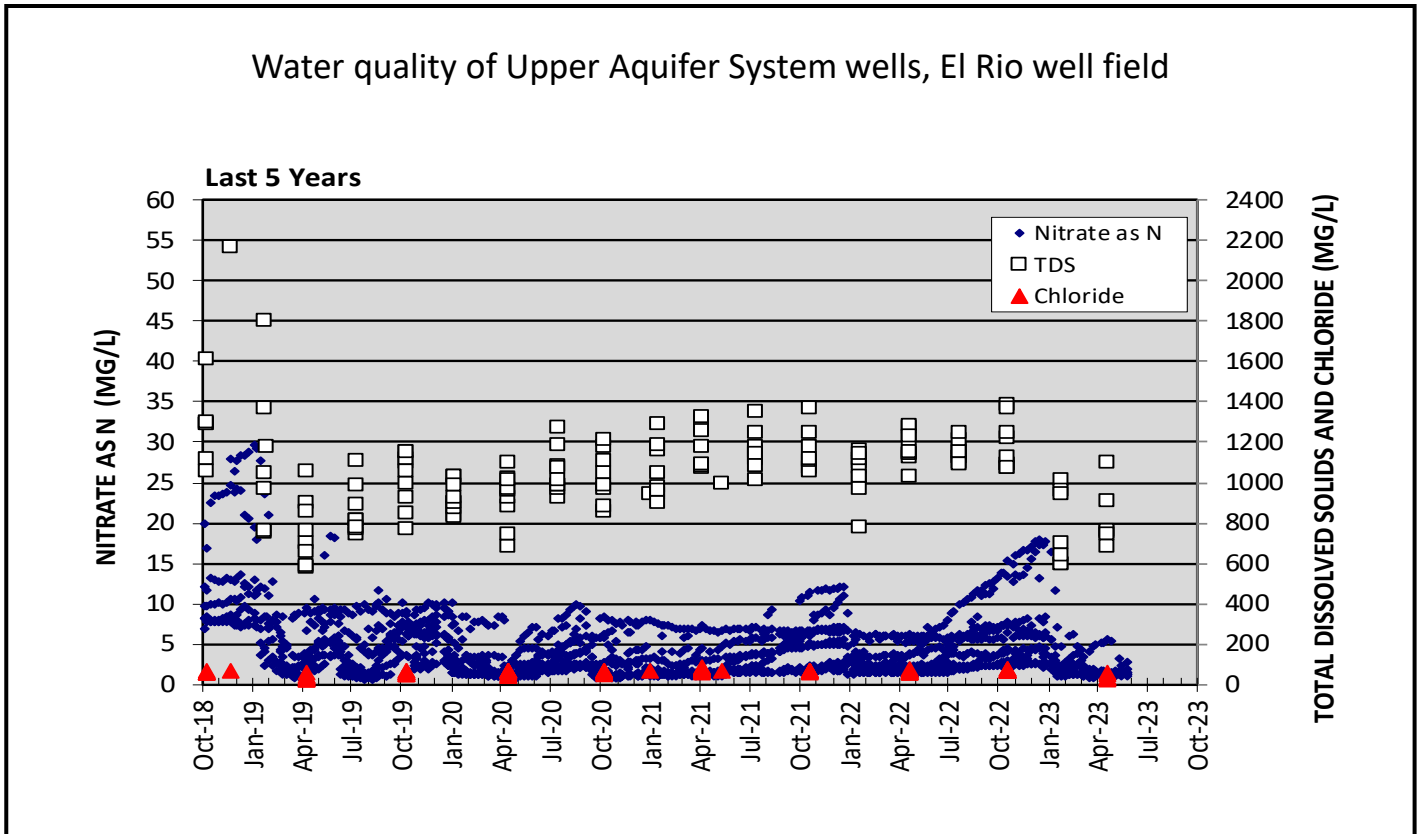


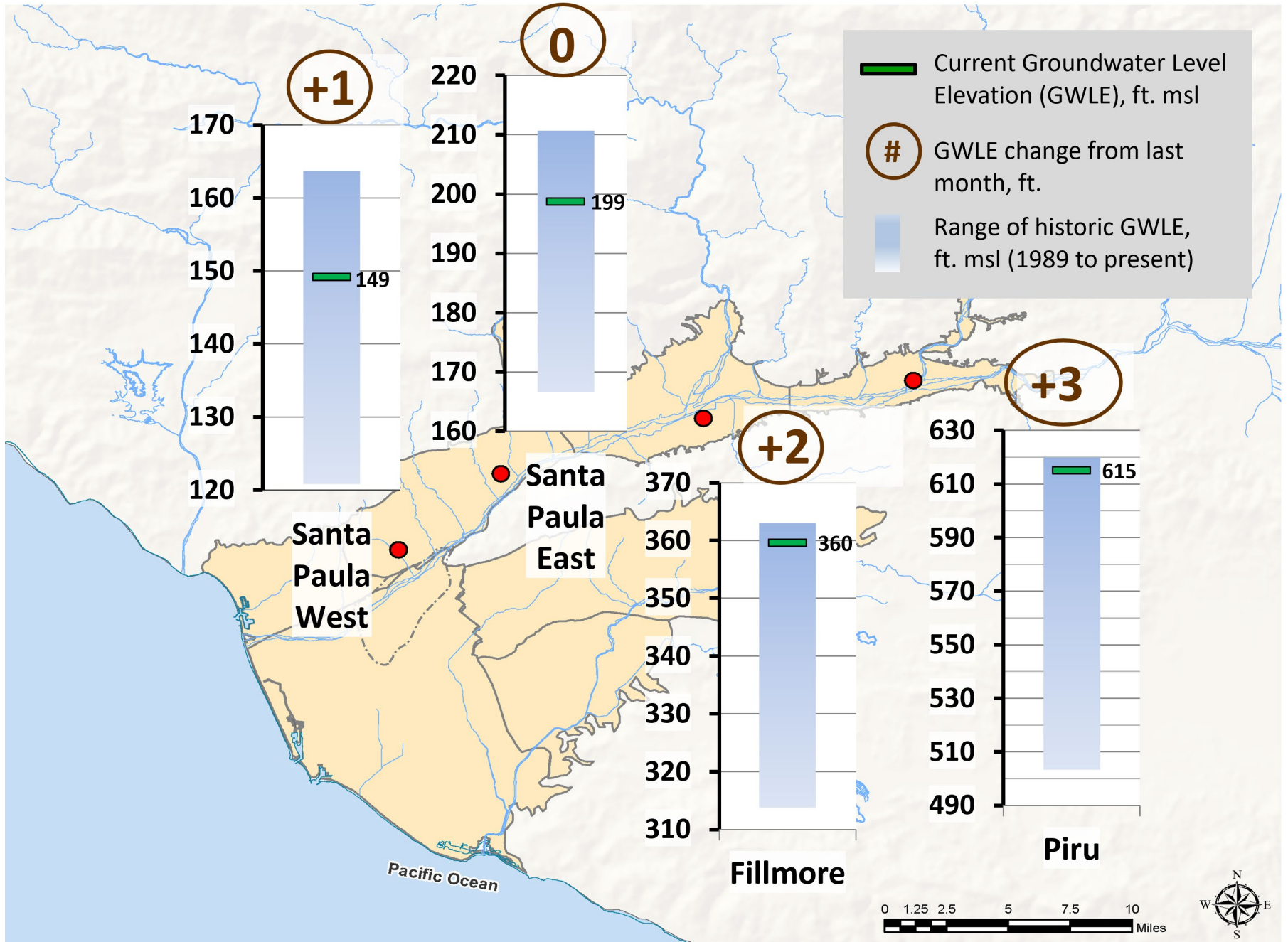


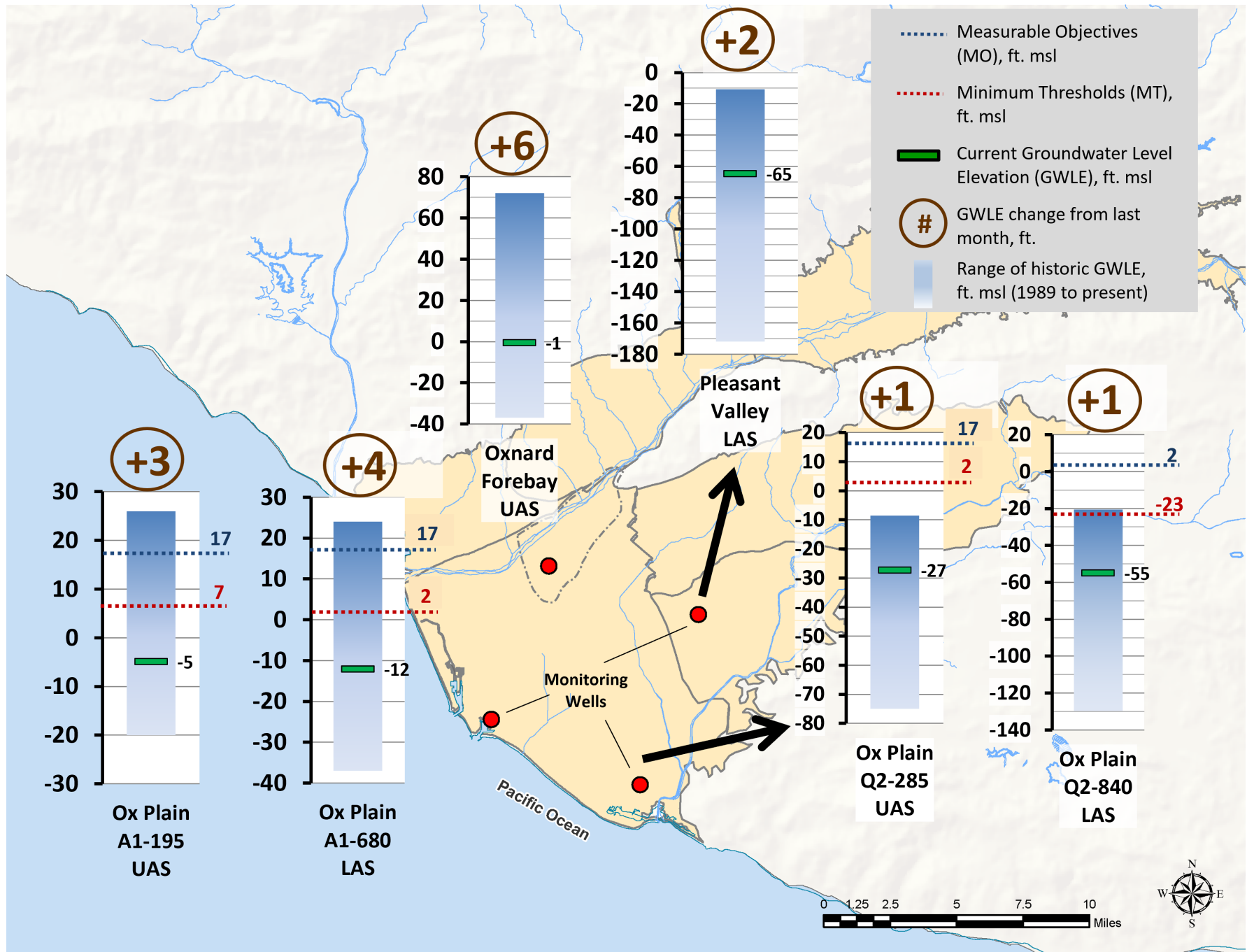
# Water Quality



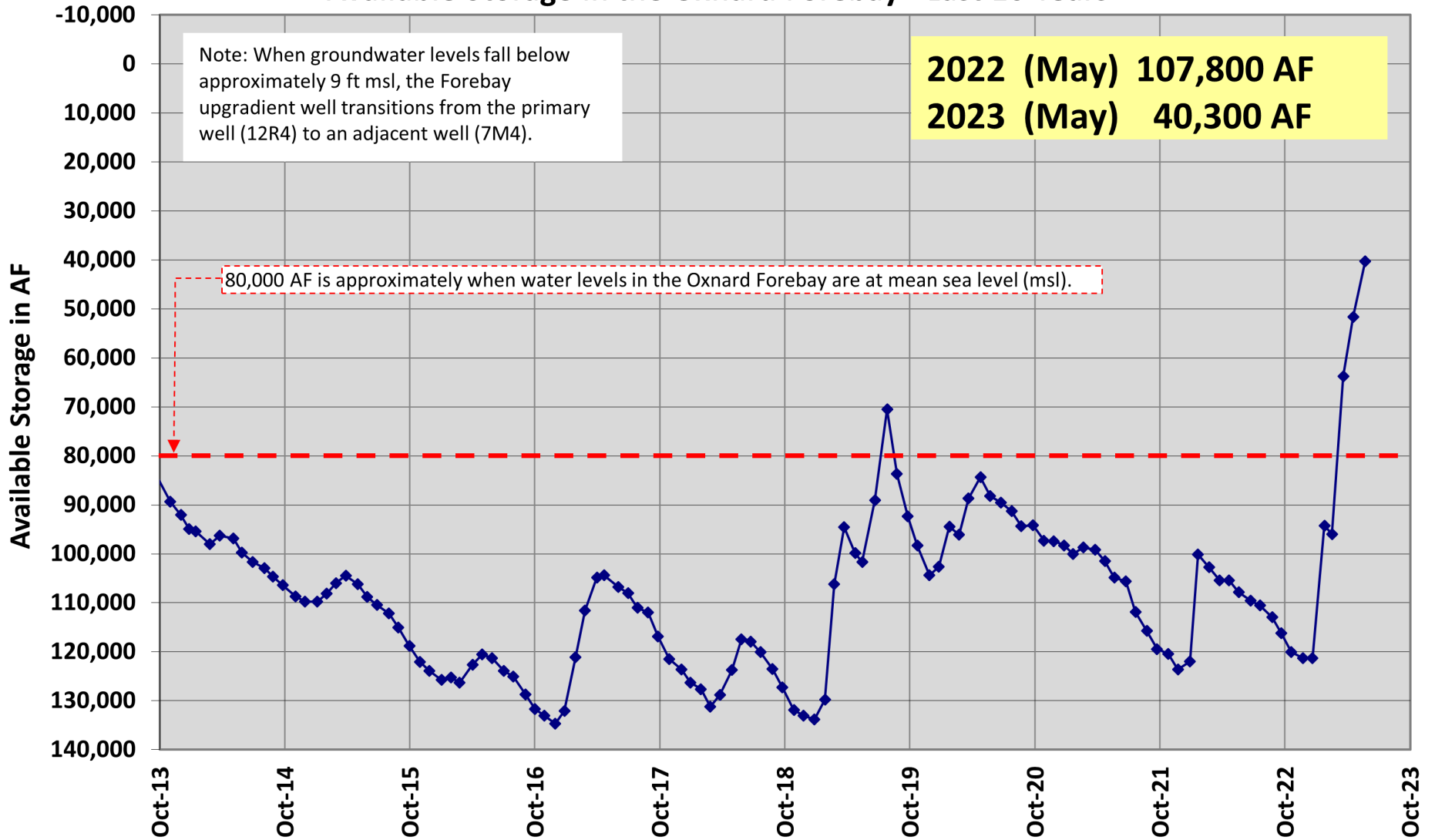
# Water Quality

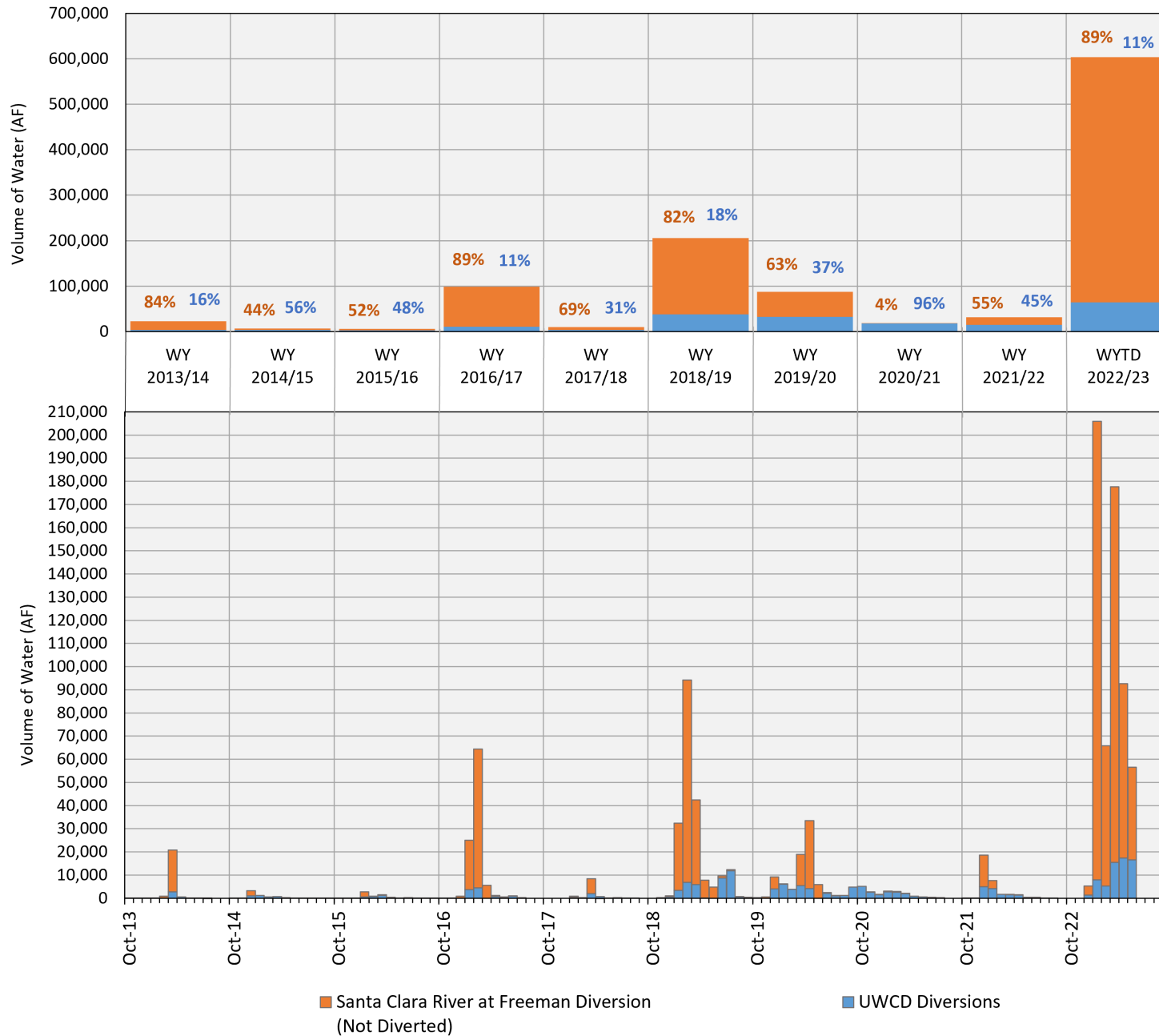






## Available Storage in the Oxnard Forebay - Last 10 Years





Water Year (WY) = October 1 to September 30; WYTD = Water Year To Date