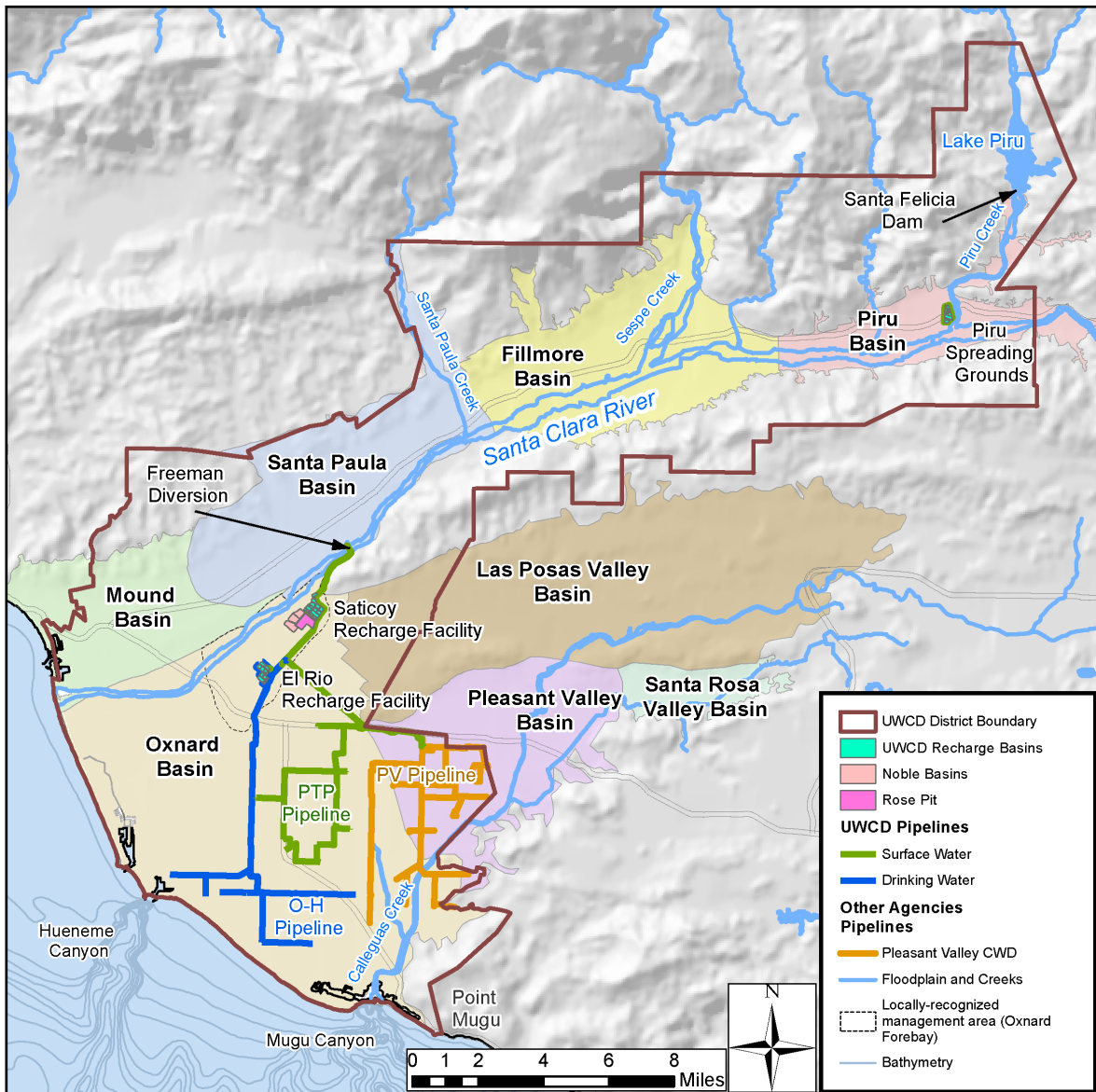




United Water CONSERVATION DISTRICT

September 2023 Hydrologic Conditions Report 2022/23 Water Year

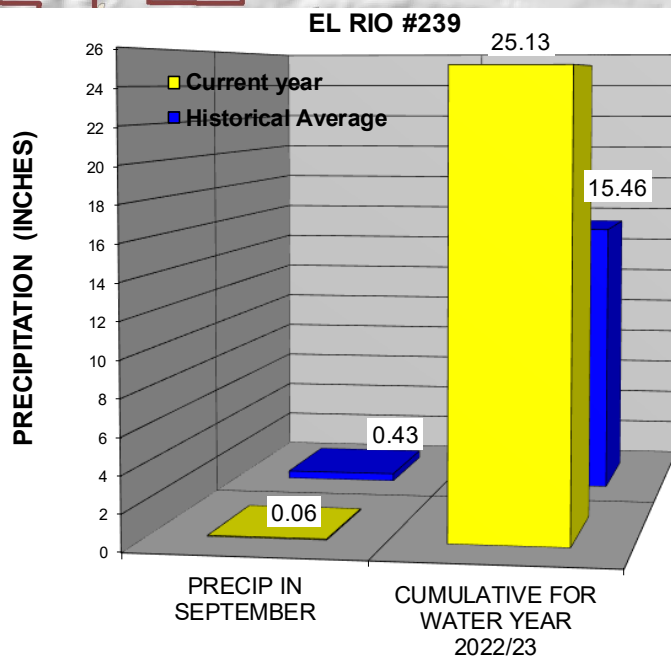
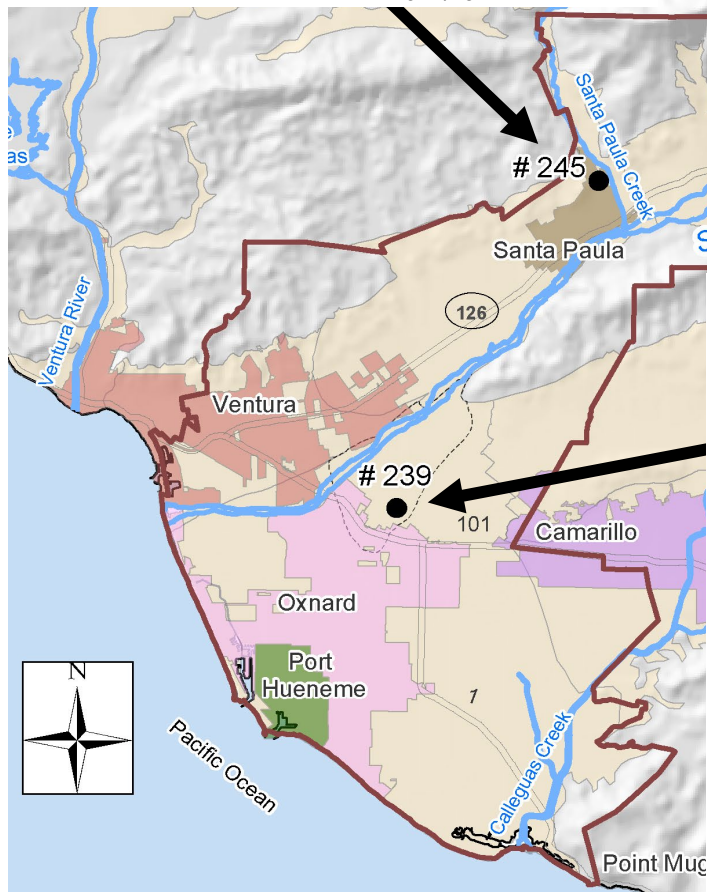
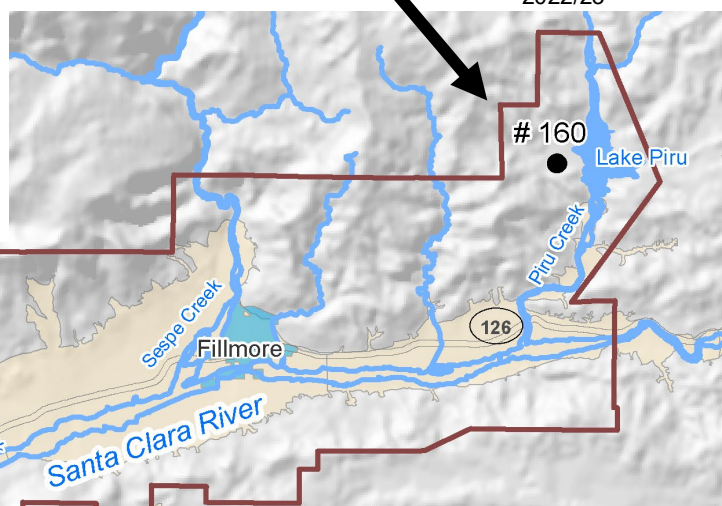
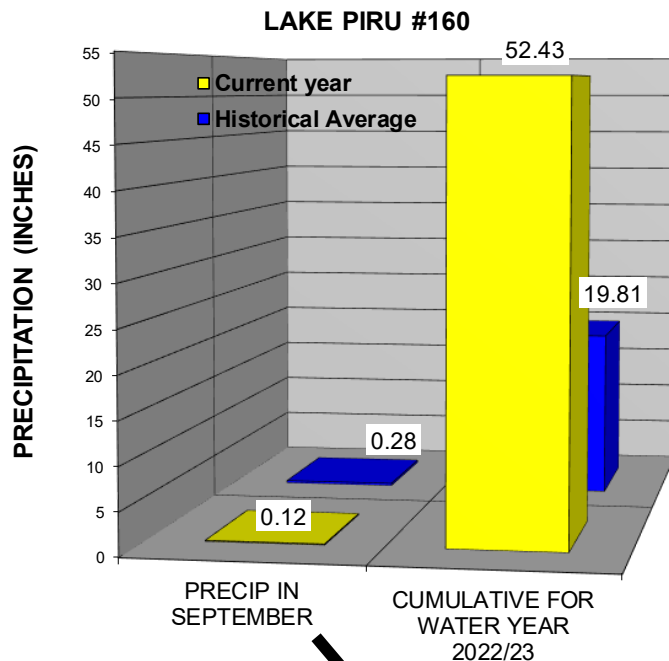
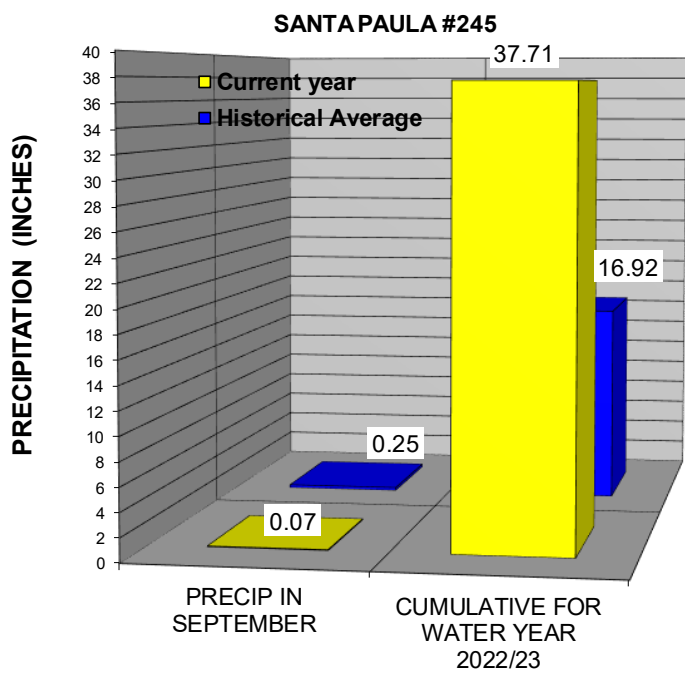
October 3, 2023



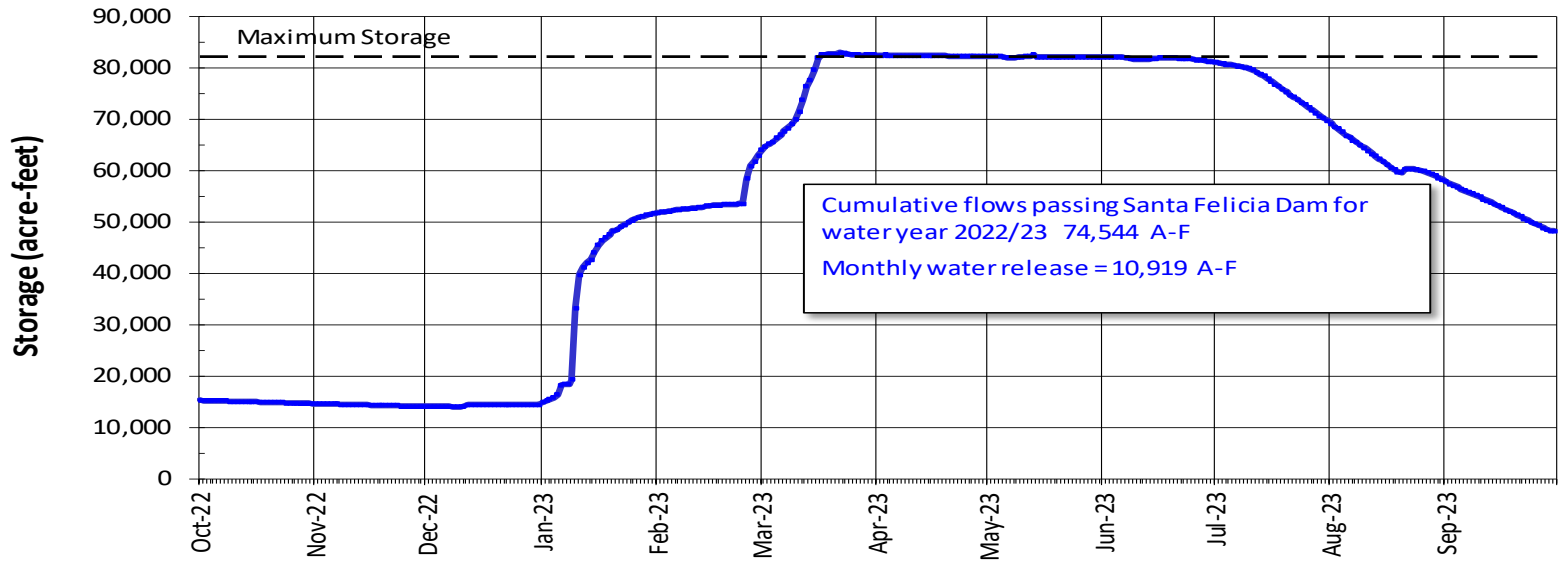
Note: This report may contain provisional data until final review at the end of the water year.

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Precipitation

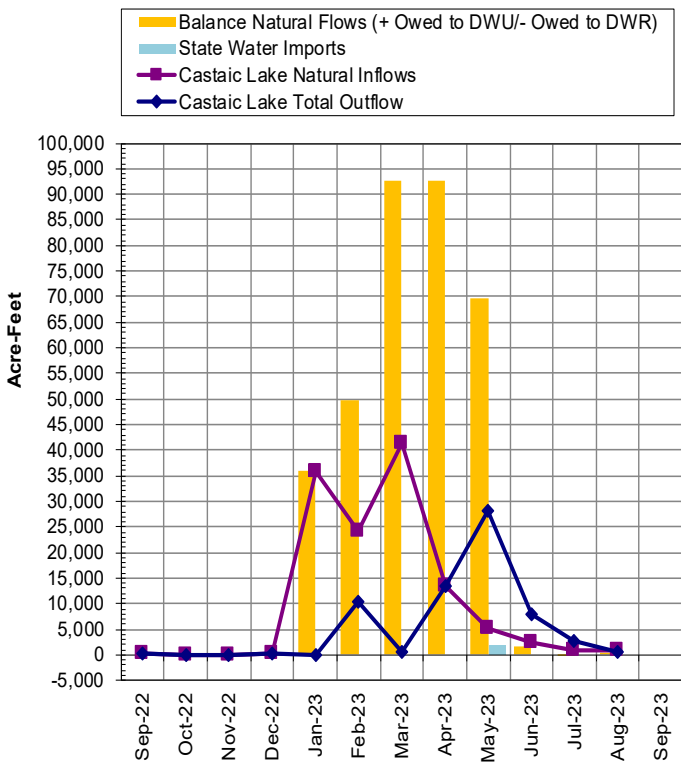


District-wide percent of normal precipitation = 221%

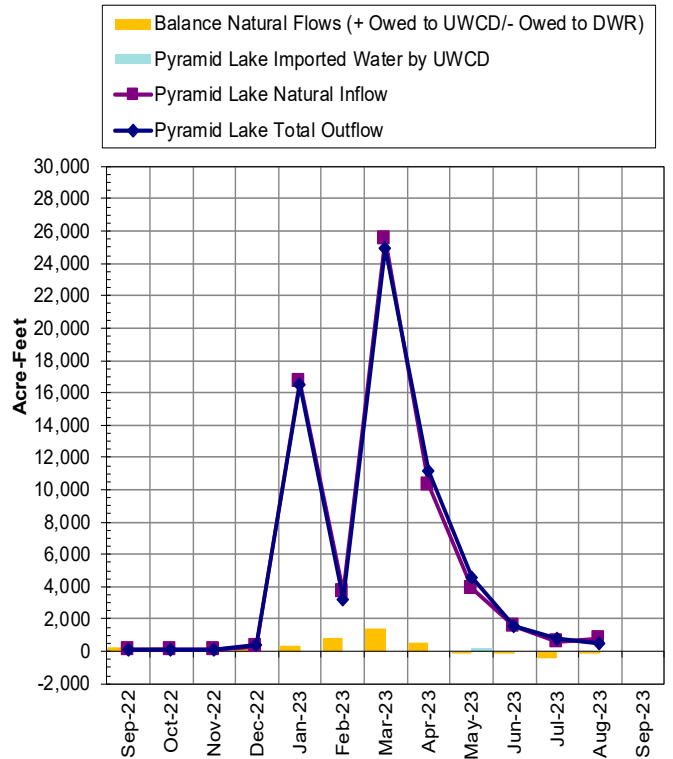


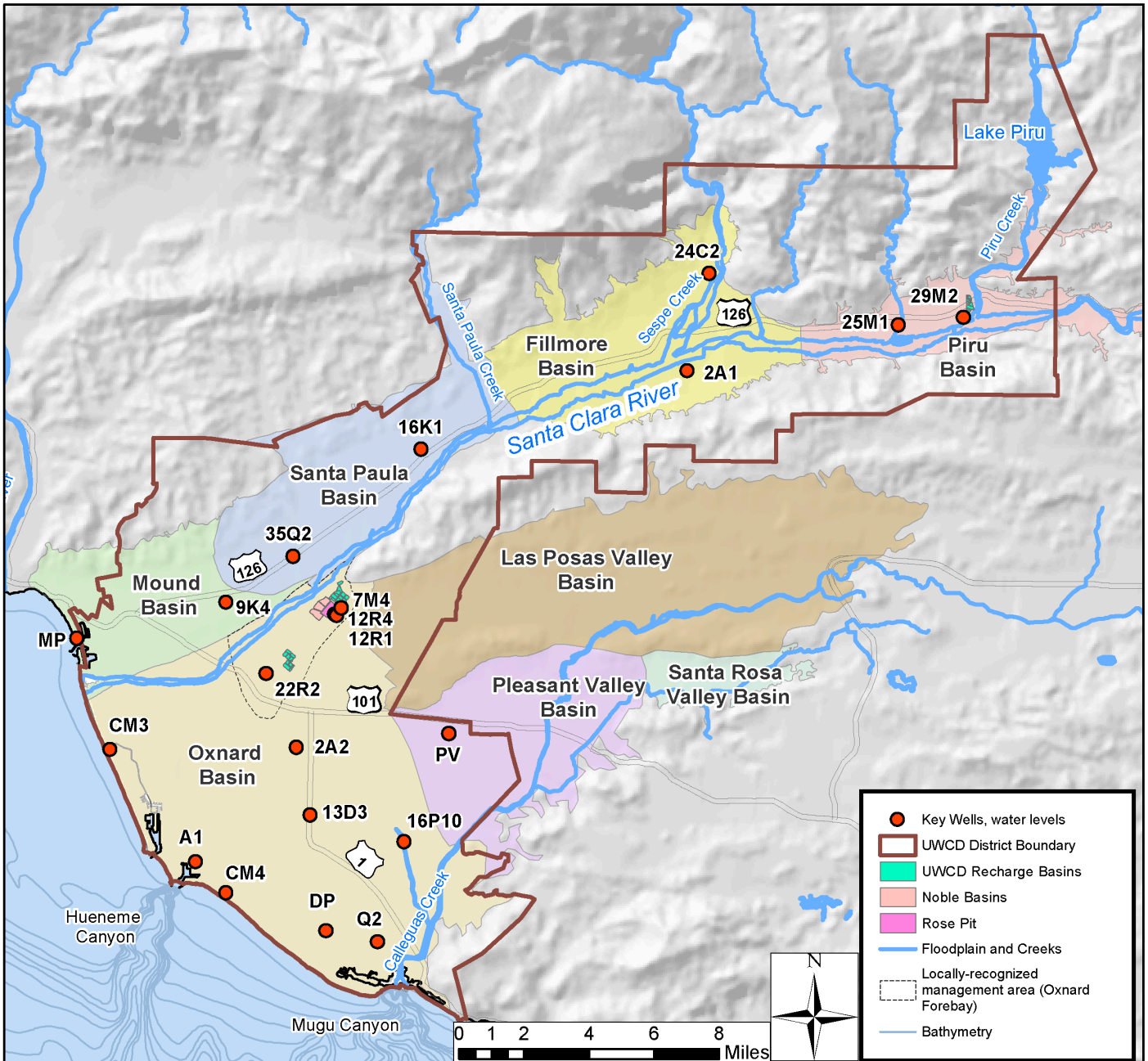
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Hydro Plant Outflow (Acre-Feet)	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative Hydro Plant Outflow (A-F)	0	0	0	0	0	0	0	0	0	0	0	0

Castaic Lake releases to downstream water users (DWU)



Pyramid Lake releases to UWCD

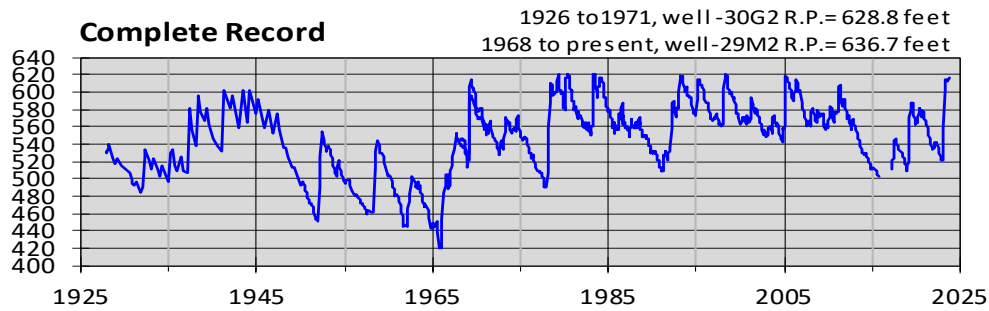
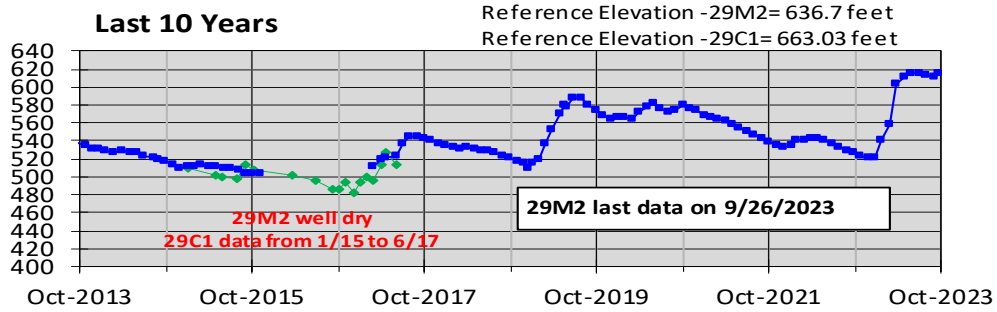




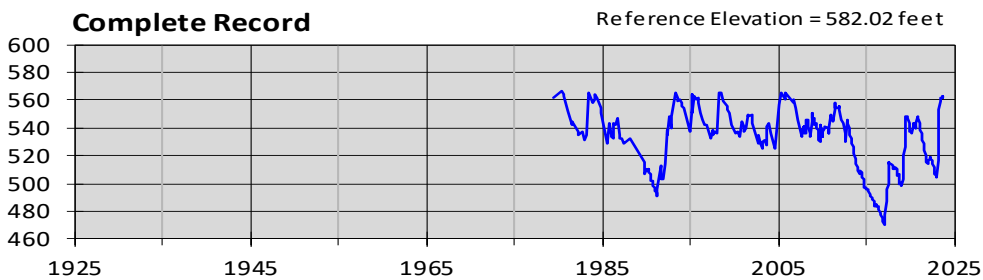
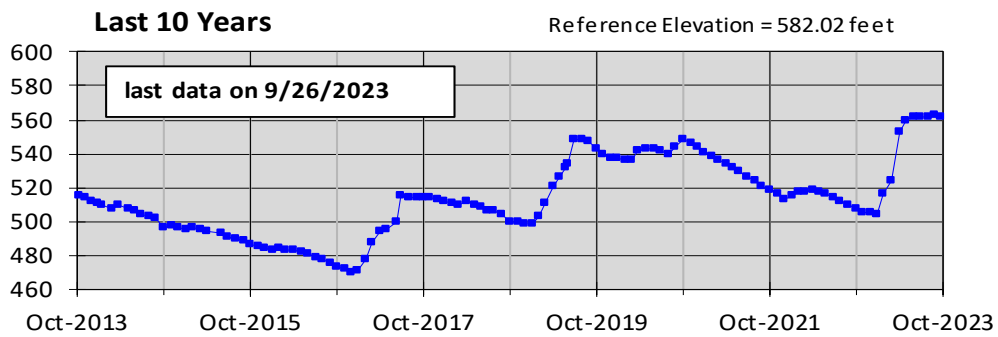
Locations of Key Wells, Monthly Groundwater Elevation Monitoring

Groundwater Elevation Records – Piru Basin

Well 04N18W29M02S (29M2)



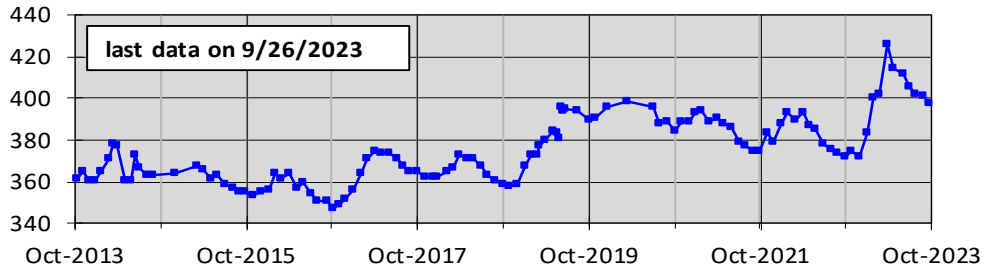
Well 04N19W25M01S (25M1)



Groundwater Elevation Records – Fillmore Basin

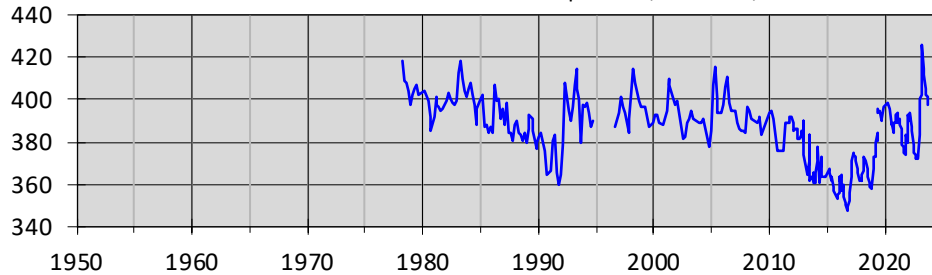
Well 04N20W24C02S (24C2)

Last 10 Years



Complete Record

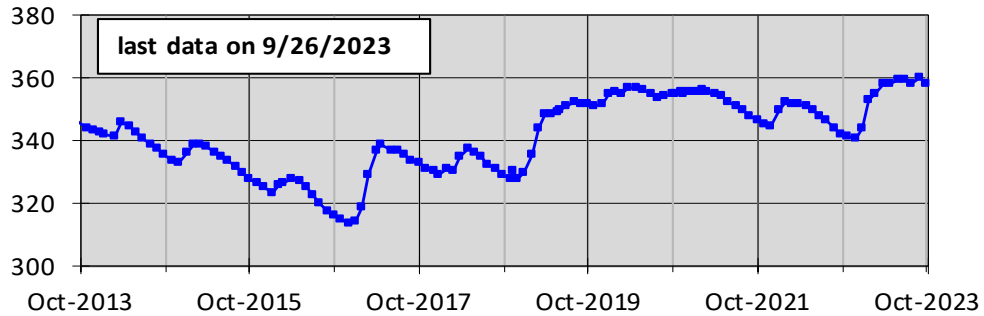
1978 to 2014, well 23Q2, R.P. = 513.99 feet
 2015 to 2019, well 23N1, R.P. = 559.00 feet
 2019 to present, well 24C2, R.P. = 497.02 feet



Well 03N20W02A01S (2A1)

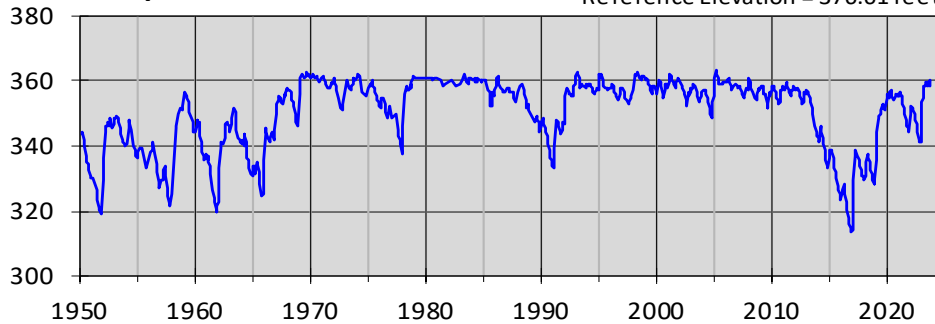
Last 10 Years

Reference Elevation = 376.61 feet

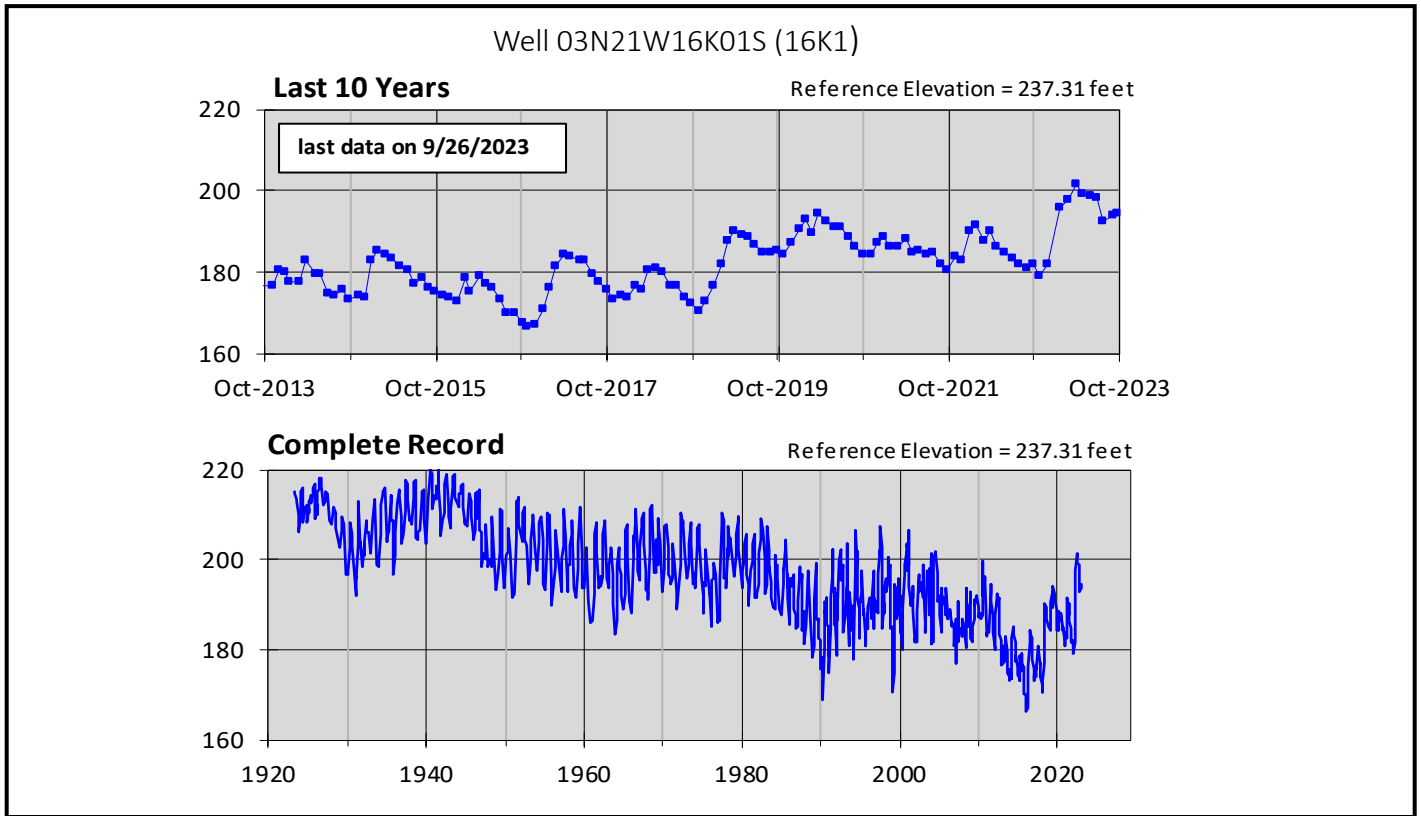


Complete Record

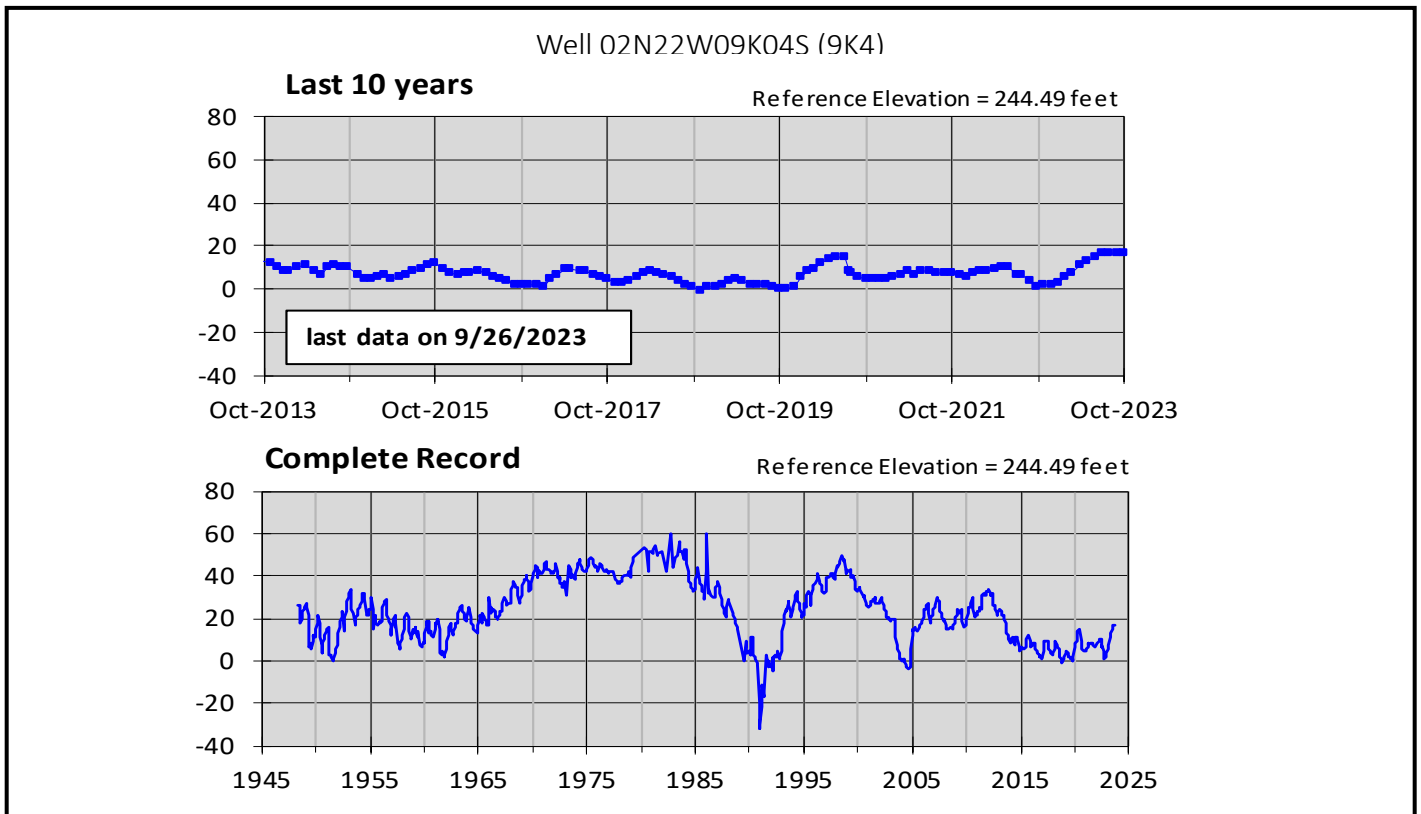
Reference Elevation = 376.61 feet



Groundwater Elevation Records – Santa Paula Basin



Groundwater Elevation Records – Mound Basin

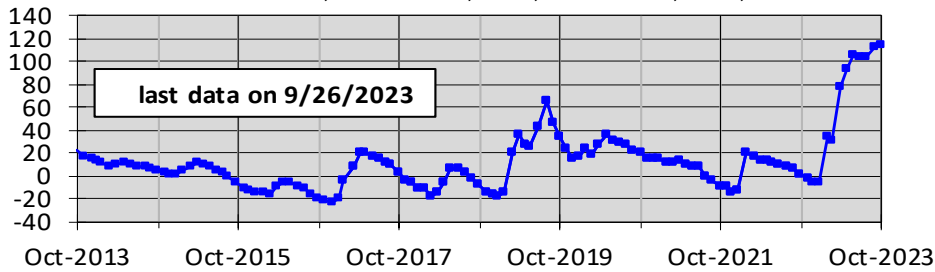


Groundwater Elevation Records – Oxnard Basin, Forebay

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

Last 10 Years

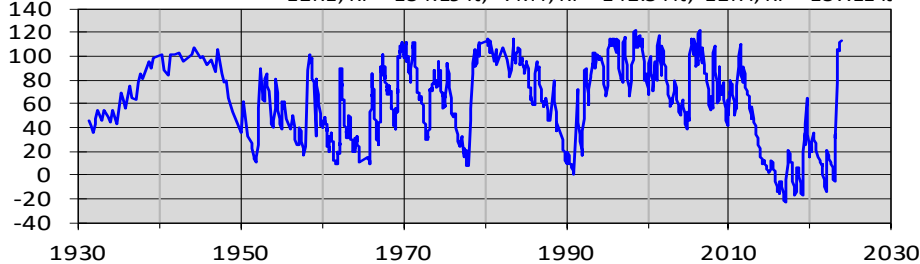
-12R1; RP = 134.19 ft; -7M4; RP = 142.84 ft; -12R4; RP = 137.11 ft



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

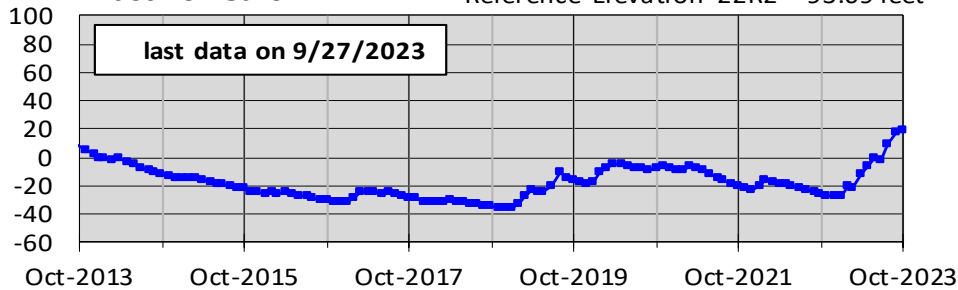


Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

Well 02N22W22R02S (22R2)

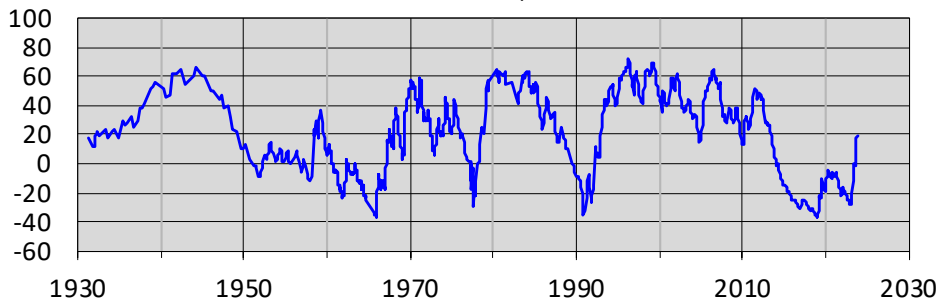
Last 10 Years

Reference Elevation -22R2 = 93.09 feet

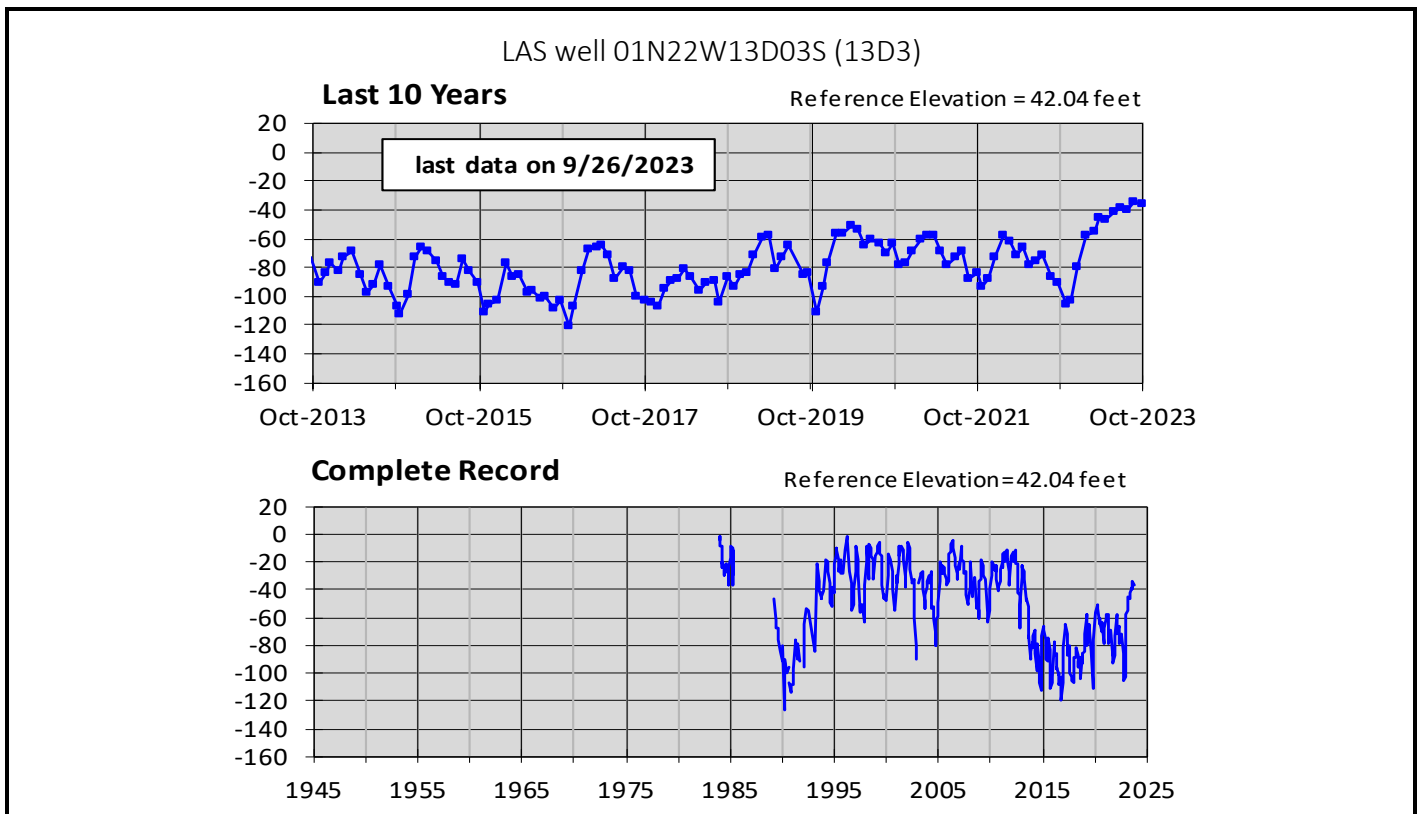
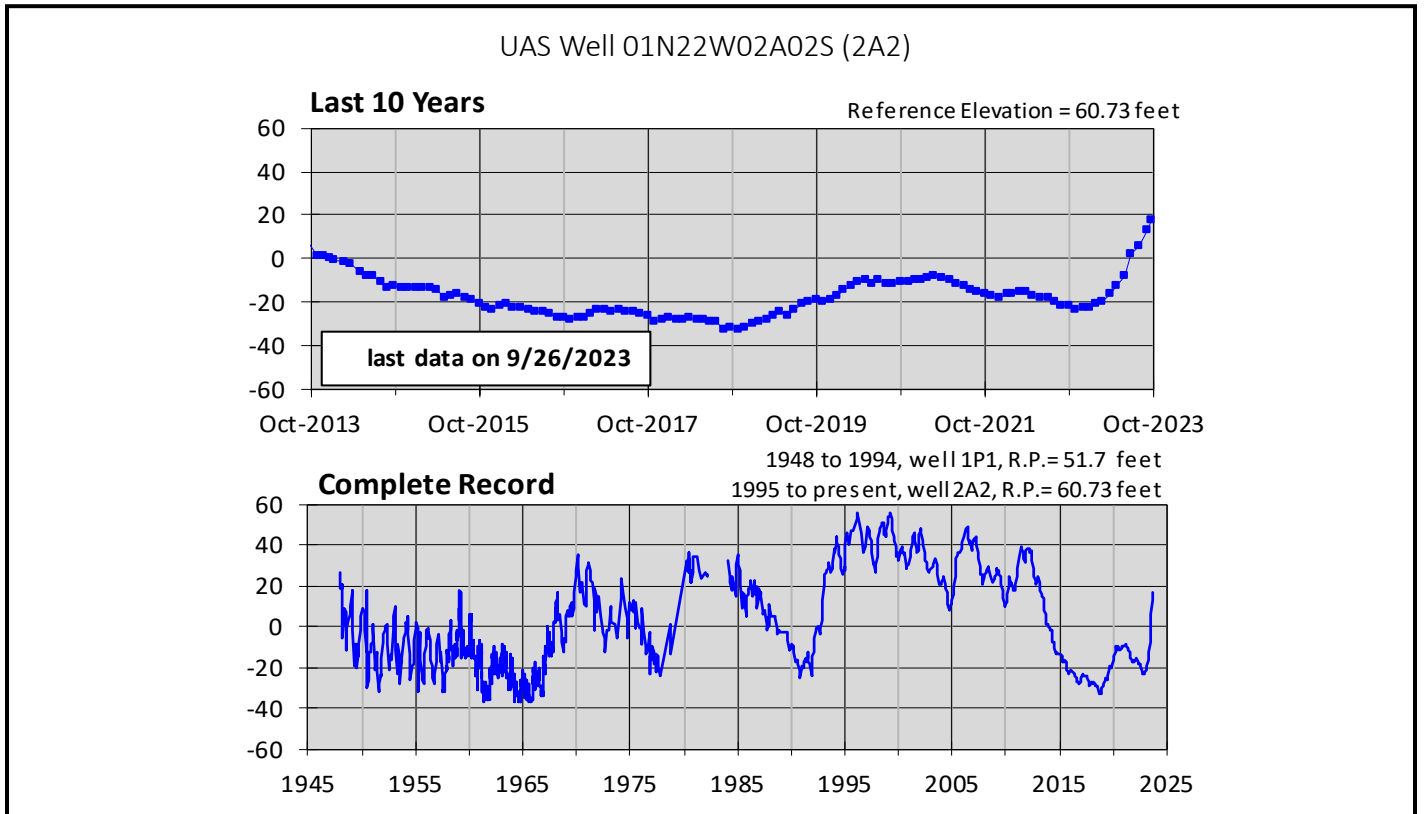


Complete Record

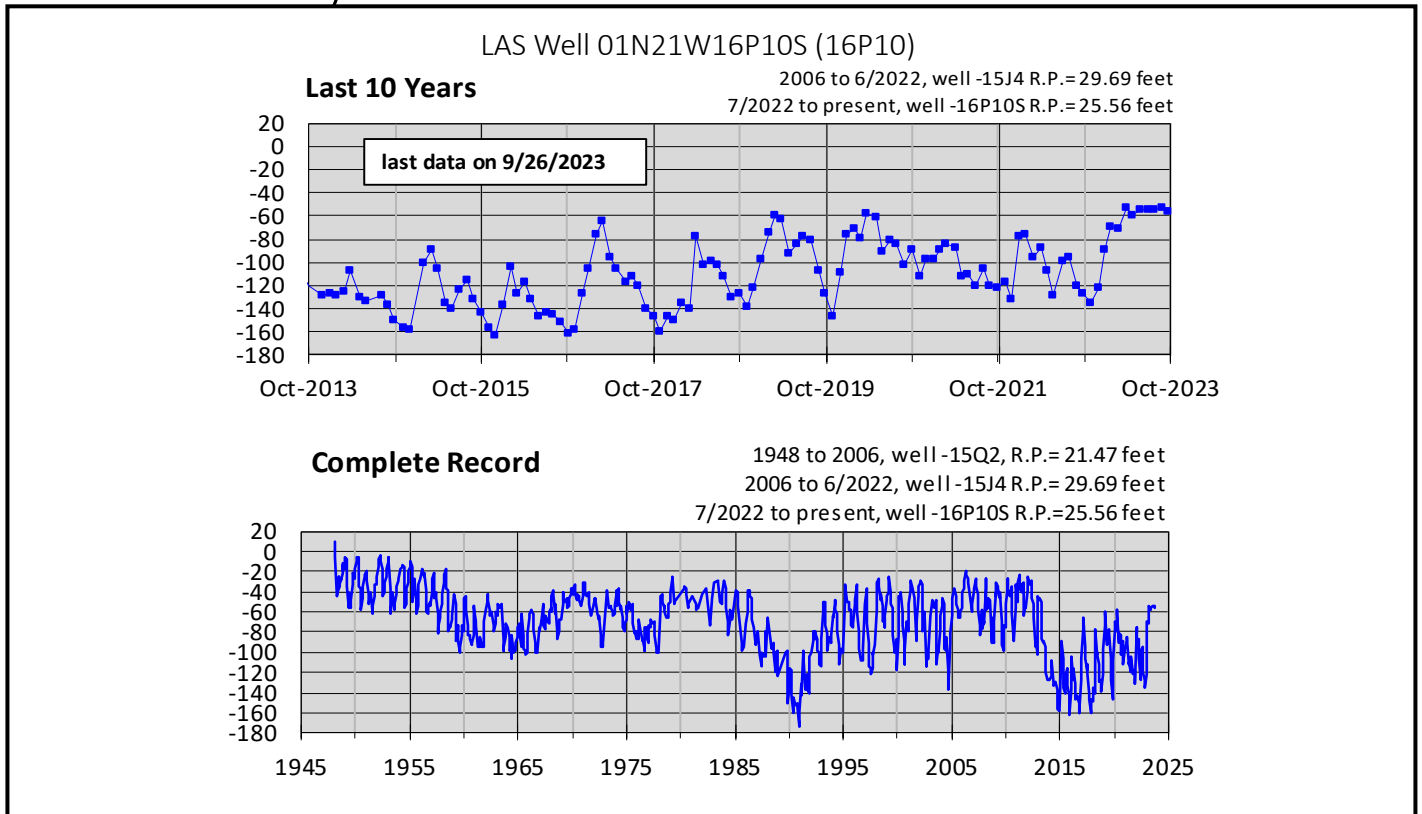
1931 to 2004, well -22R1, RP = 93.6 feet
2004 to present, well -22R2, RP = 93.09 feet



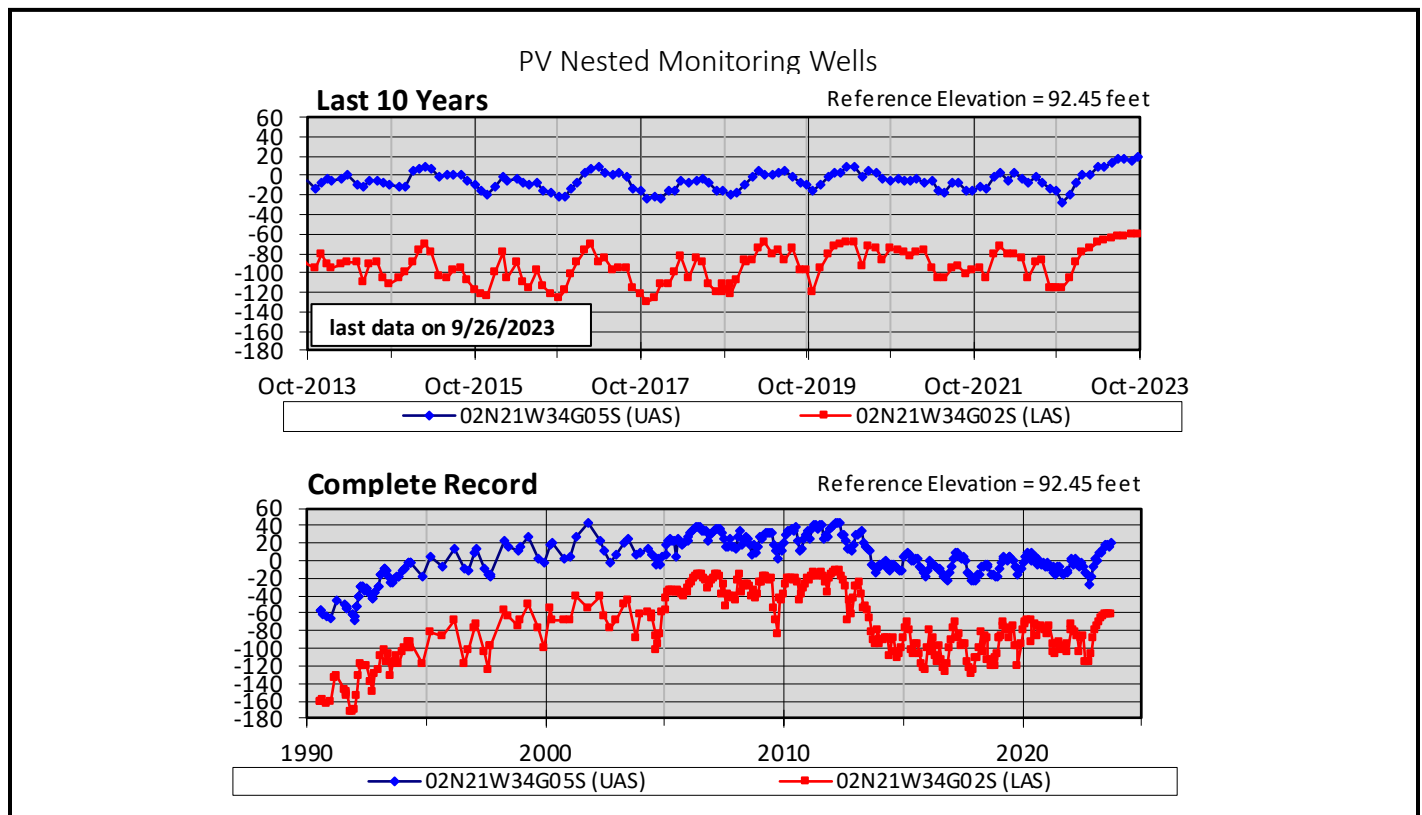
Groundwater Elevation Records – Oxnard Basin



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

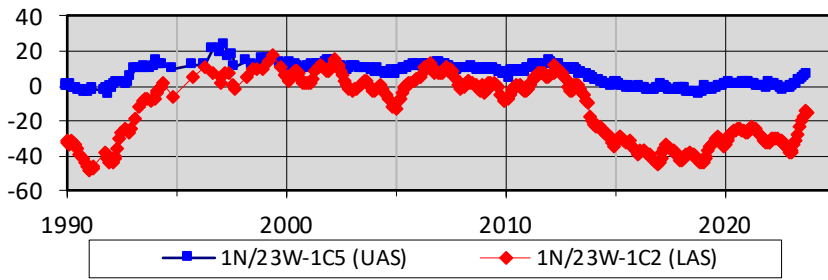


Groundwater Elevation Records – Pleasant Valley Basin

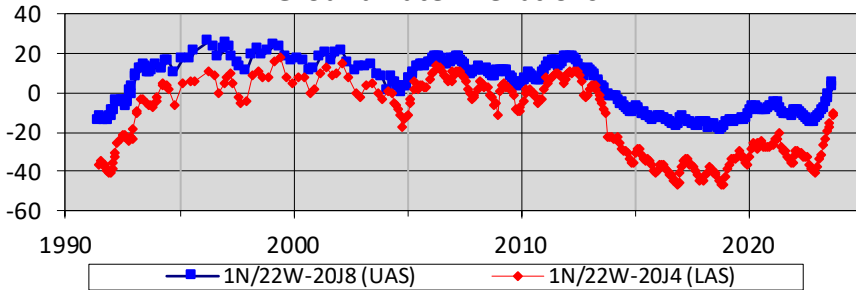


Groundwater Elevation Records – Coastal Nested Monitoring Wells

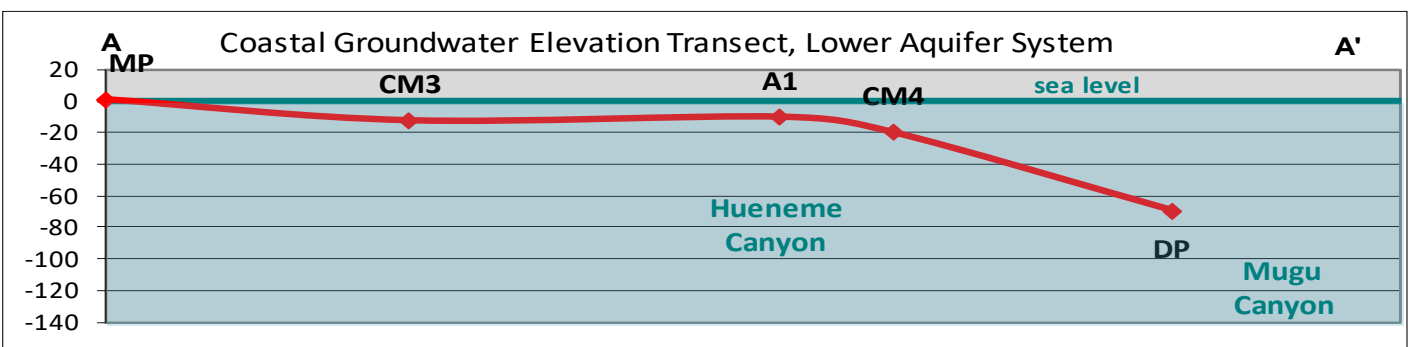
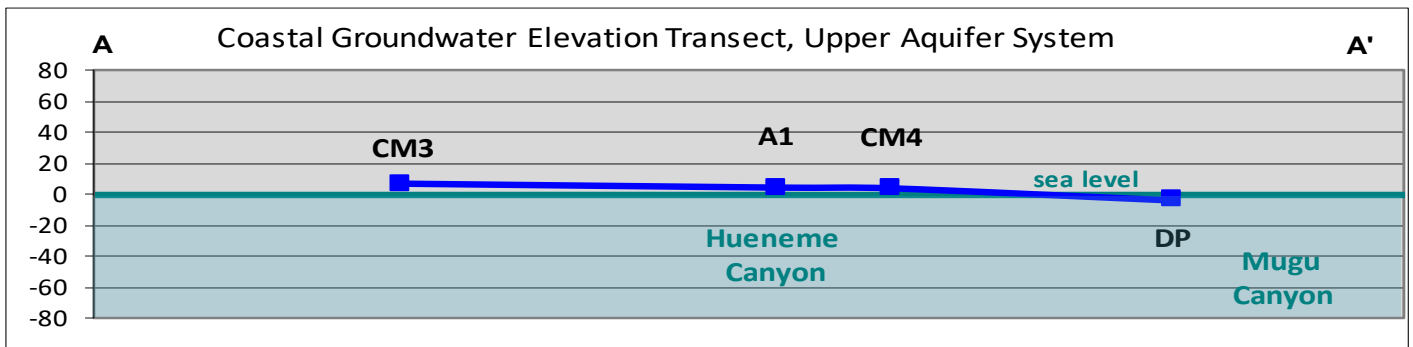
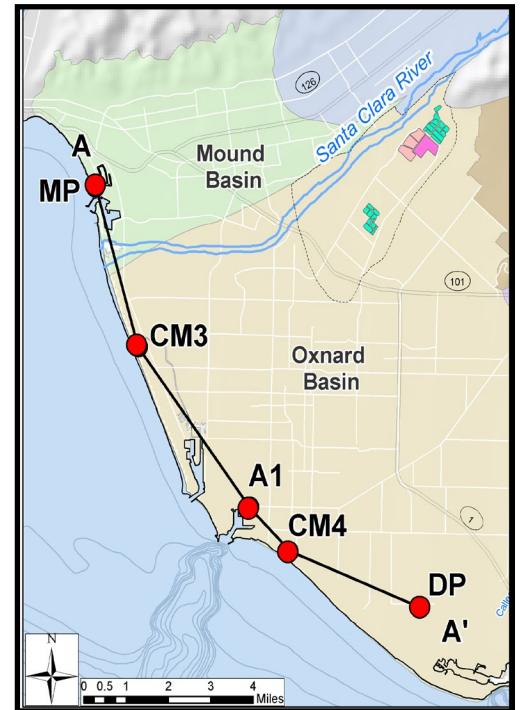
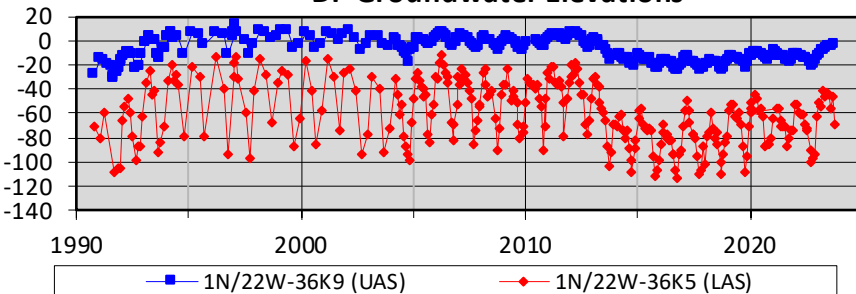
CM3 Groundwater Elevations



A1 Groundwater Elevations



DP Groundwater Elevations

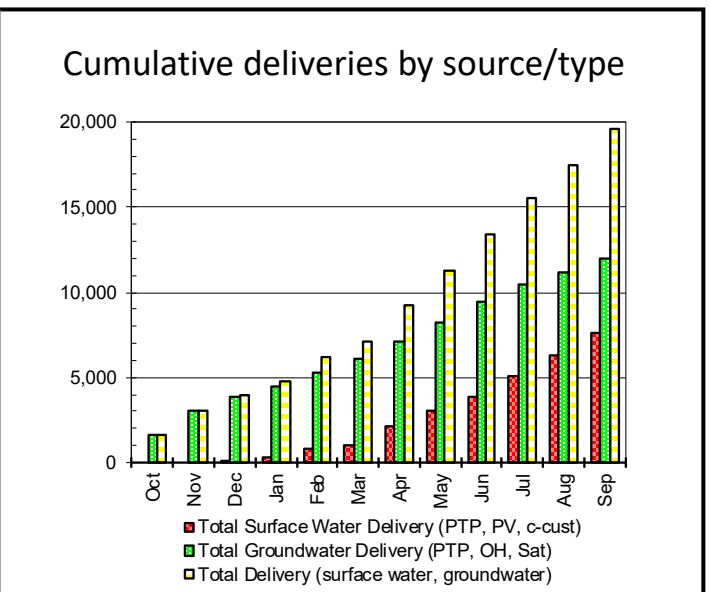
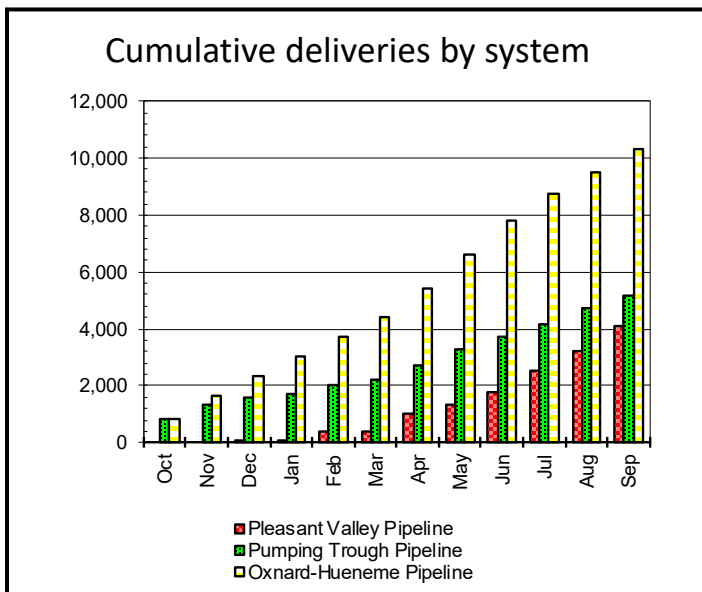


Monthly Water Deliveries, acre-feet (Water Year 2022/23)

	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	425.1	766.1	691.1	845.6
PV Pipeline (Saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total to Pleasant Valley Pipeline	0.0	0.0	7.9	84.3	312.8	18.9	598.8	330.0	425.1	766.1	691.1	845.6
PTP (surface water)	0.0	0.0	64.5	143.7	207.7	186.7	507.1	538.9	461.6	414.0	541.0	492.8
PTP (PTP 1-5)	706.9	500.4	145.6	0.0	117.3	9.1	2.2	0.3	6.5	0.0	0.0	0.0
PTP (OH-12/13)	116.5	32.1	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
Total PTP	823.4	532.5	210.1	143.7	325.0	195.8	509.3	539.2	468.1	414.0	541.0	492.8
C-customers (surface water)	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	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	1,233.1	942.7	728.4	817.8
Total Surface Water Delivery (PTP, PV, c-cust)	0.0	0.0	72.4	228.0	520.5	205.6	1,105.9	868.9	886.7	1,180.1	1,232.1	1,338.4
Total Groundwater Delivery (PTP, OH, Sat)	1,659.2	1,350.7	858.8	643.3	817.6	739.9	988.5	1,175.7	1,239.6	942.7	728.4	817.8
Total Delivery (surface water, groundwater)	1,659.2	1,350.7	931.2	871.3	1,338.1	945.5	2,094.4	2,044.6	2,126.3	2,122.8	1,960.5	2,156.2

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	1,777.8	2,543.9	3,235.0	4,080.6
PV Pipeline (saticoy well field)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total to Pleasant Valley Pipeline	0.0	0.0	7.9	92.2	405.0	423.9	1,022.7	1,352.7	1,777.8	2,543.9	3,235.0	4,080.6
PTP (surface water)	0.0	0.0	64.5	208.2	415.9	602.6	1,109.7	1,648.6	2,110.2	2,524.2	3,065.2	3,558.0
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	1,488.3	1,488.3	1,488.3	1,488.3
PTP (OH-12/13)	116.5	148.6	148.6	148.6	148.6	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	0.0	0.0	0.0	0.0
Total PTP	823.4	1,355.9	1,566.0	1,709.7	2,034.7	2,230.5	2,739.8	3,279.0	3,747.1	4,161.1	4,702.1	5,194.9
C-customers (surface water)	0.0	0.0	0.0	0.0	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	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	7,836.4	8,779.1	9,507.5	10,325.3
Total Surface Water Delivery (PTP, PV, c-cust)	0.0	0.0	72.4	300.4	820.9	1,026.5	2,132.4	3,001.3	3,888.0	5,068.1	6,300.2	7,638.6
Total Groundwater Delivery (PTP, OH, Sat)	1,659.2	3,009.9	3,868.7	4,512.0	5,329.6	6,069.5	7,058.0	8,233.7	9,473.3	10,416.0	11,144.4	11,962.2
Total Delivery (surface water, groundwater)	1,659.2	3,009.9	3,941.1	4,812.4	6,150.5	7,096.0	9,190.4	11,235.0	13,361.3	15,484.1	17,444.6	19,600.8

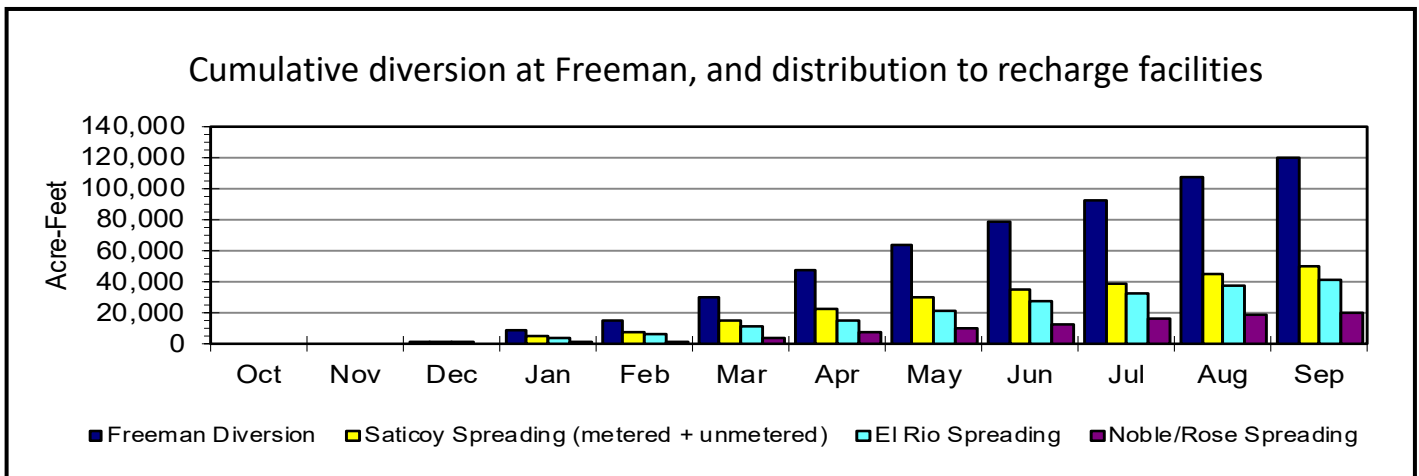


Monthly diversion and recharge totals by facility, 2022/23, in acre-feet

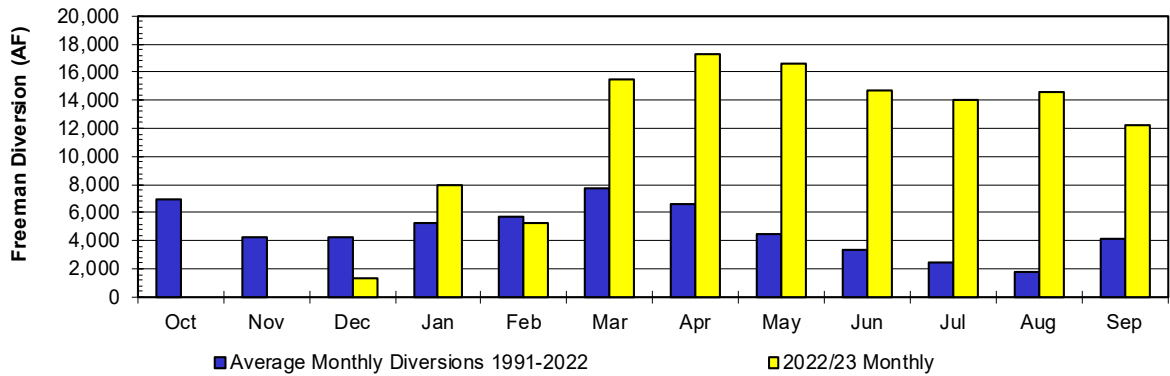
Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble/Rose Spreading	LBMWC Water Use
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	1,360	900	387	0	1
Jan	0	7,937	3,775	3,751	183	0
Feb	0	5,268	2,347	2,127	274	15
Mar	0	15,517	7,754	4,751	2,806	3
Apr	0	17,306	7,870	4,522	3,791	17
May	0	16,604	6,861	5,434	3,423	18
Jun	0	14,656	5,158	6,114	2,480	27
Jul	0	14,048	3,890	5,986	2,954	38
Aug	0	14,552	6,182	4,387	2,712	39
Sep	0	12,252	5,725	3,242	1,947	NA

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

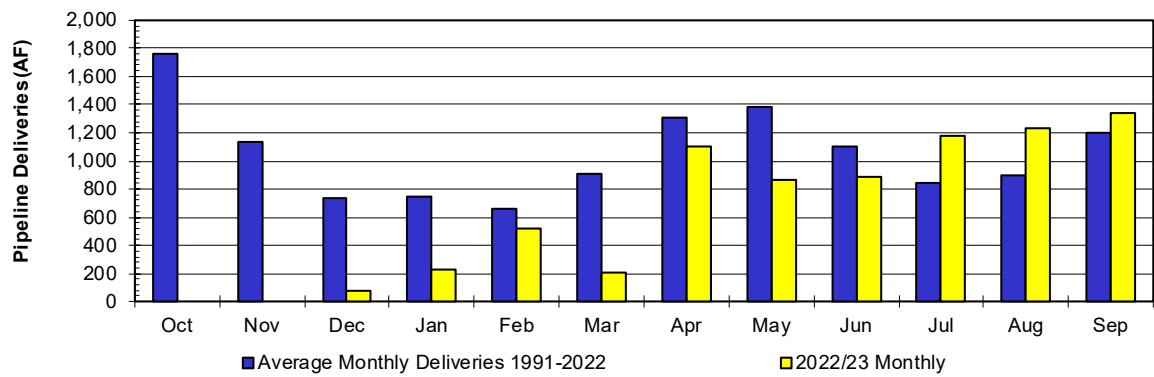
Month	Piru Spreading	Freeman Diversion	Saticoy Spreading (metered + unmetered)	El Rio Spreading	Noble/Rose Spreading	LBMWC Water Use
Oct	0	0	0	0	0	0
Nov	0	0	0	0	0	0
Dec	0	1,360	900	387	0	1
Jan	0	9,297	4,675	4,138	183	1
Feb	0	14,565	7,022	6,265	457	16
Mar	0	30,082	14,776	11,016	3,263	19
Apr	0	47,388	22,646	15,538	7,054	36
May	0	63,992	29,506	20,972	10,477	53
Jun	0	78,648	34,665	27,086	12,957	80
Jul	0	92,696	38,554	33,072	15,911	119
Aug	0	107,248	44,736	37,459	18,623	158
Sep	0	119,500	50,461	40,701	20,570	NA



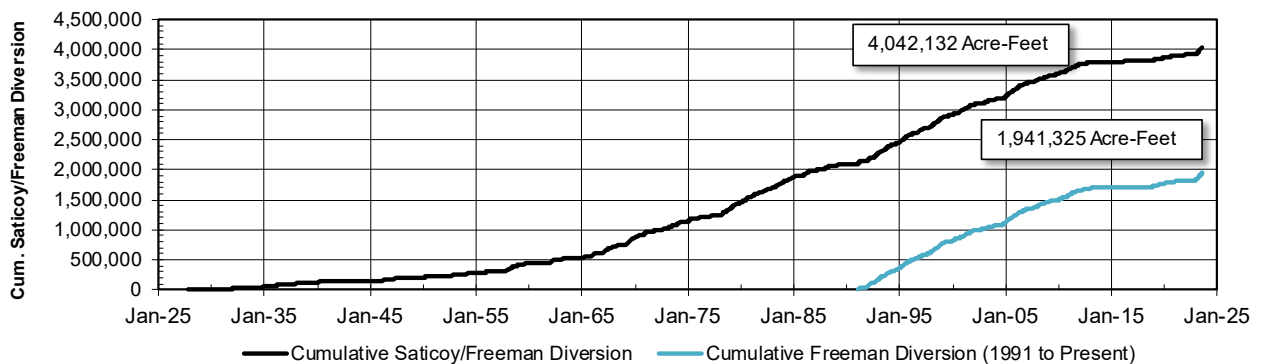
Monthly 2022/23 diversion at Freeman, compared to average monthly diversions (1991-2022)



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

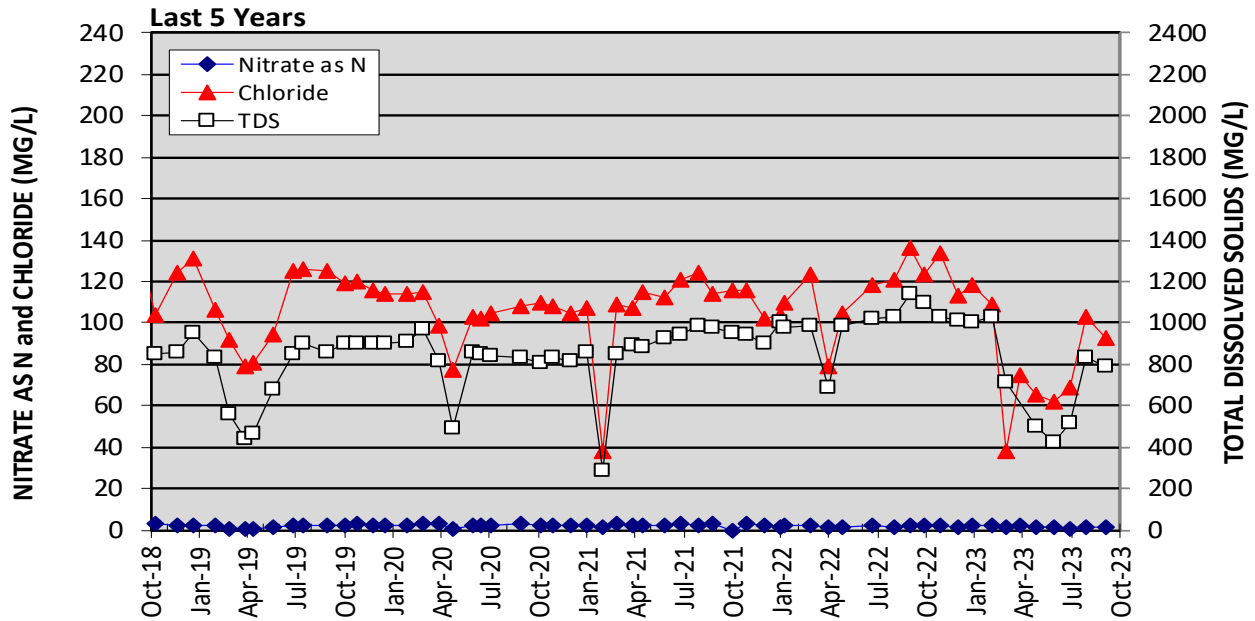


Cumulative diversion at Saticoy and Freeman Diversion, in acre-feet

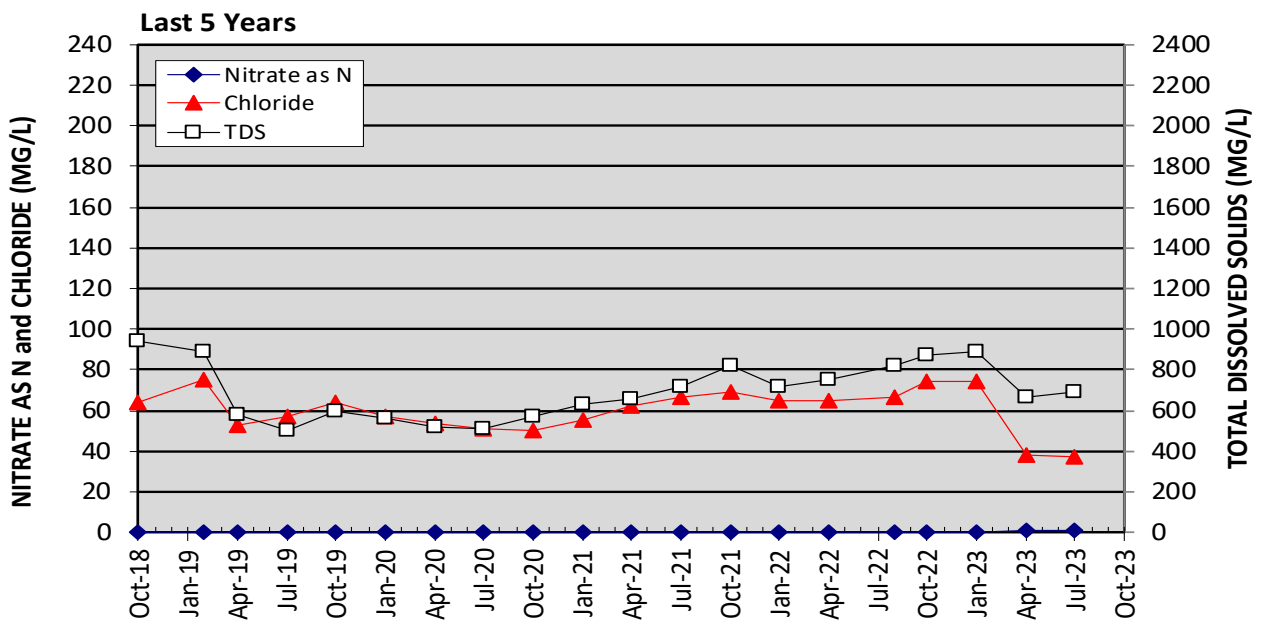


Water Quality

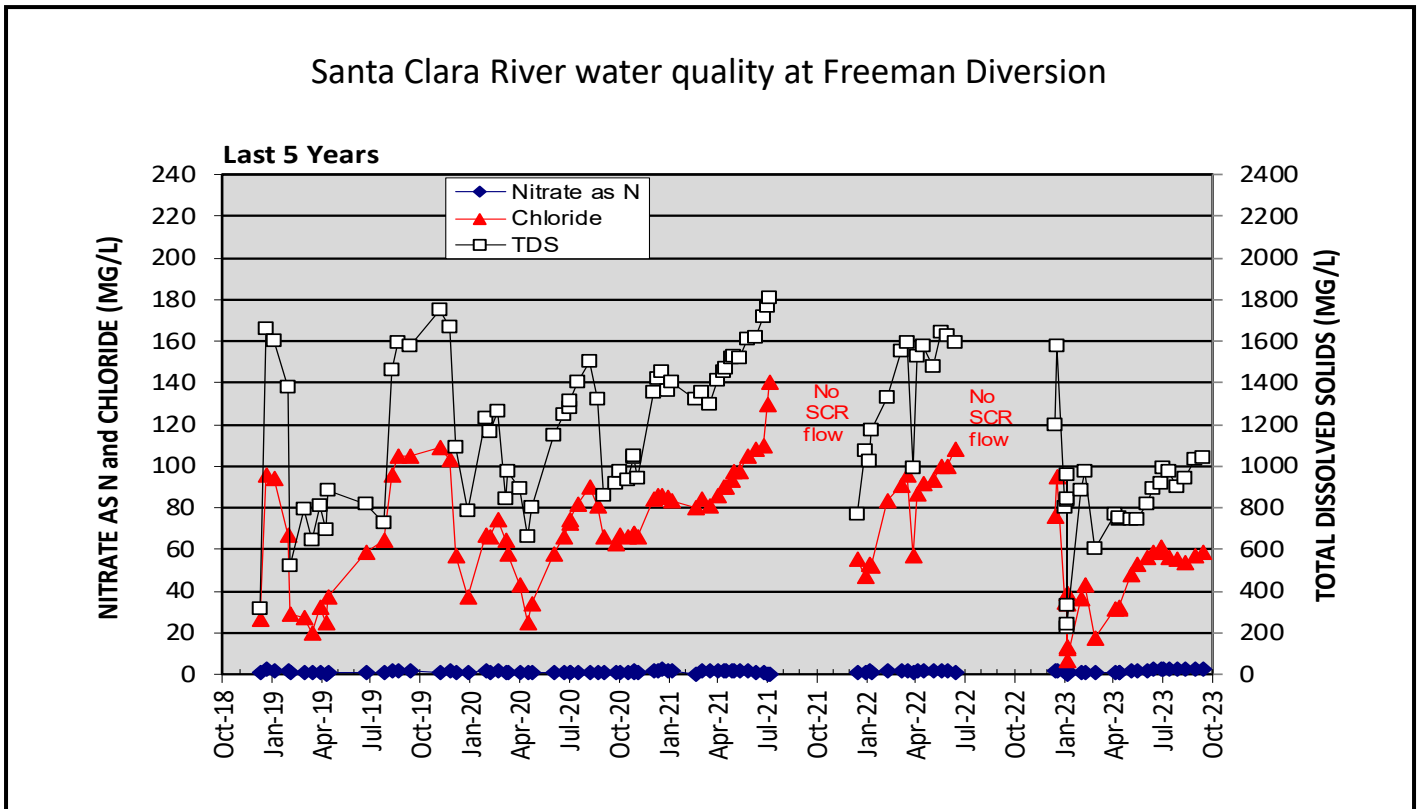
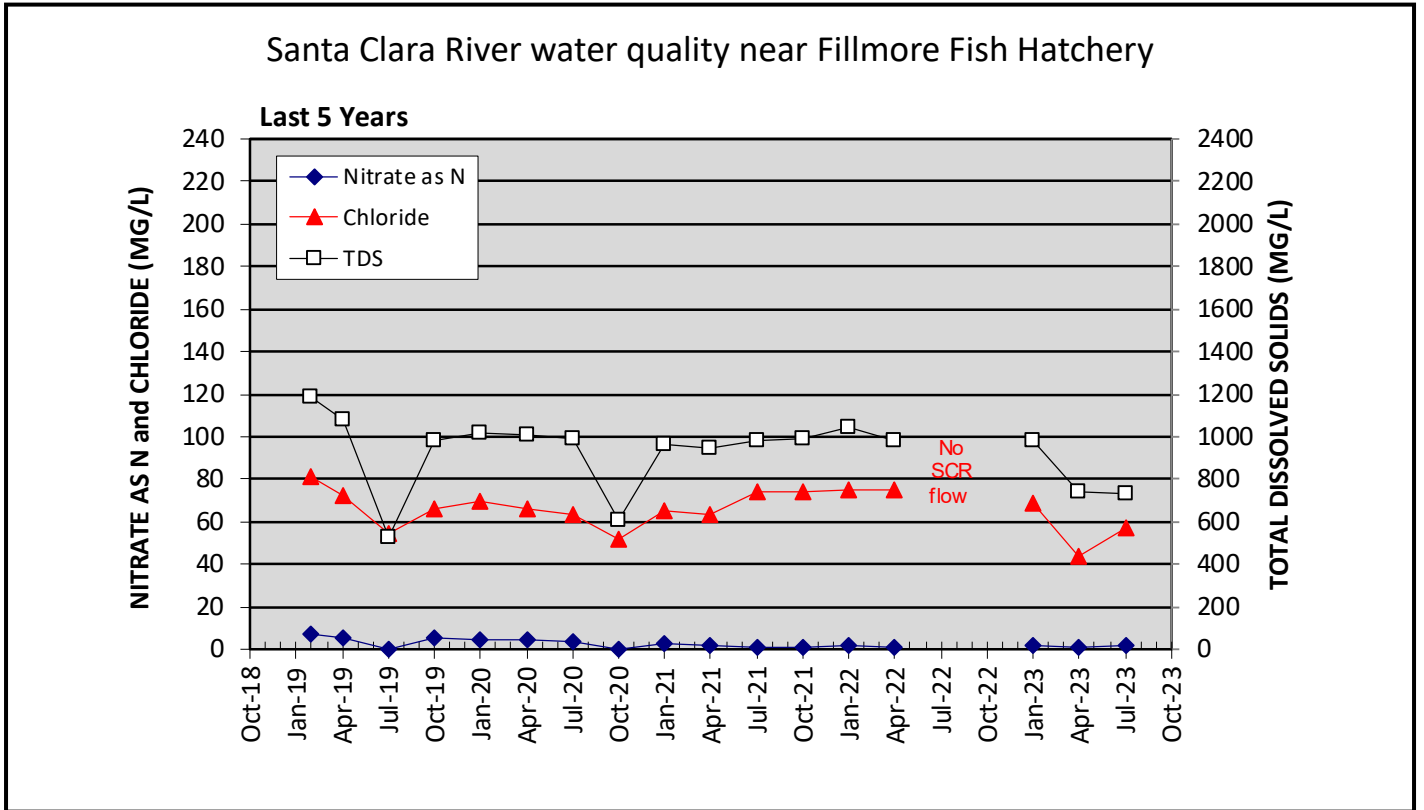
Santa Clara River water quality near Los Angeles/Ventura County line



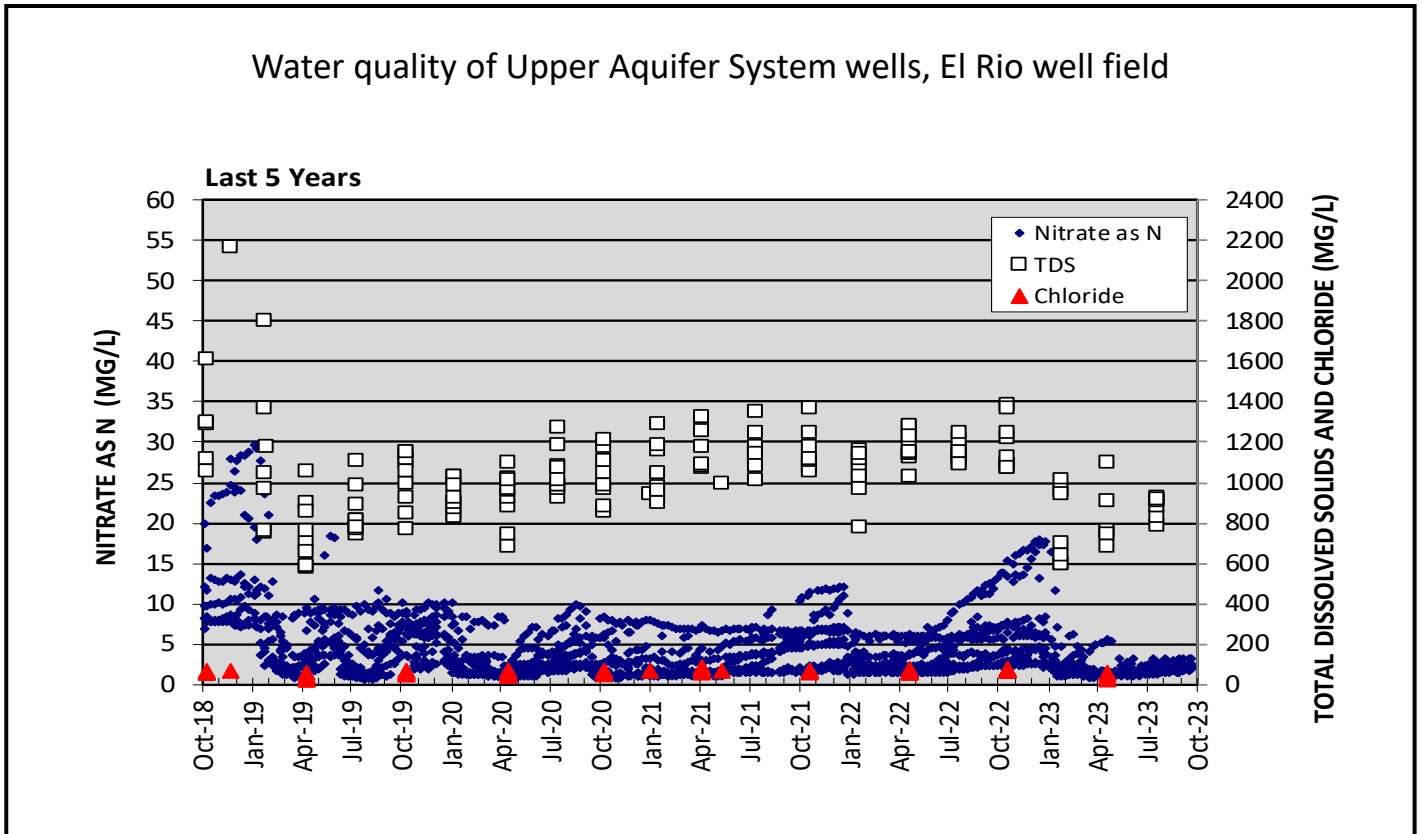
Piru Creek water quality below Santa Felicia Dam

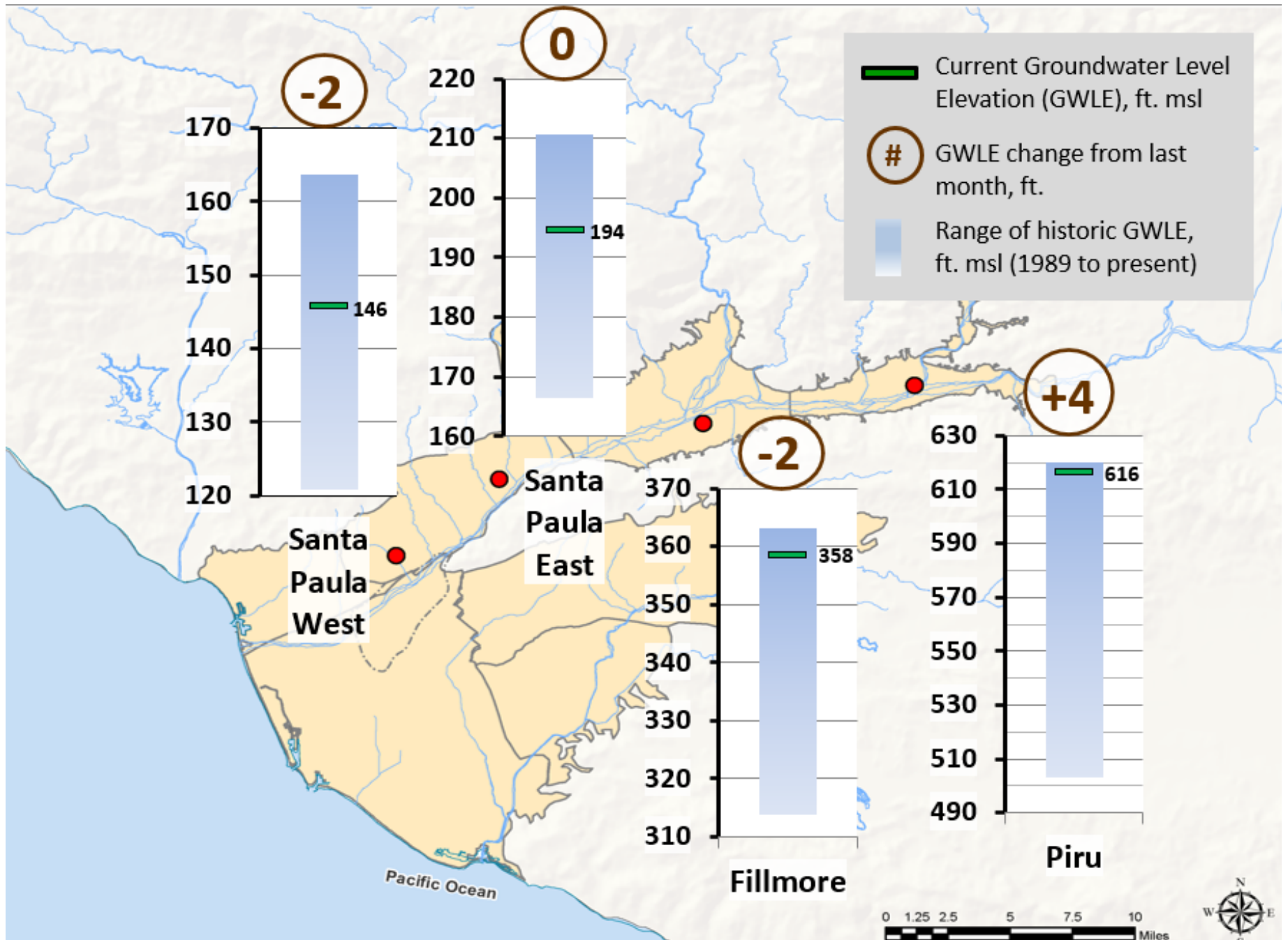


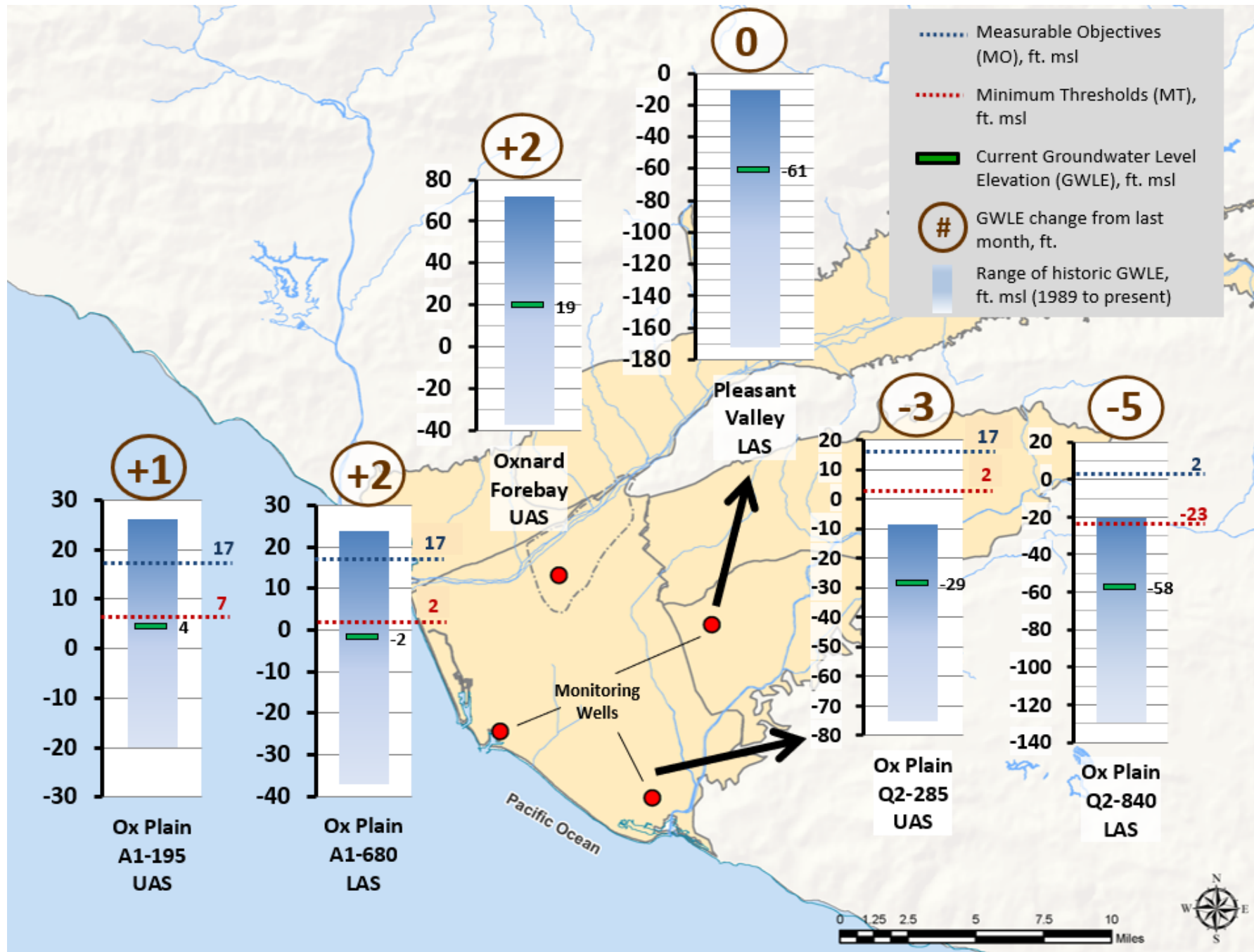
Water Quality



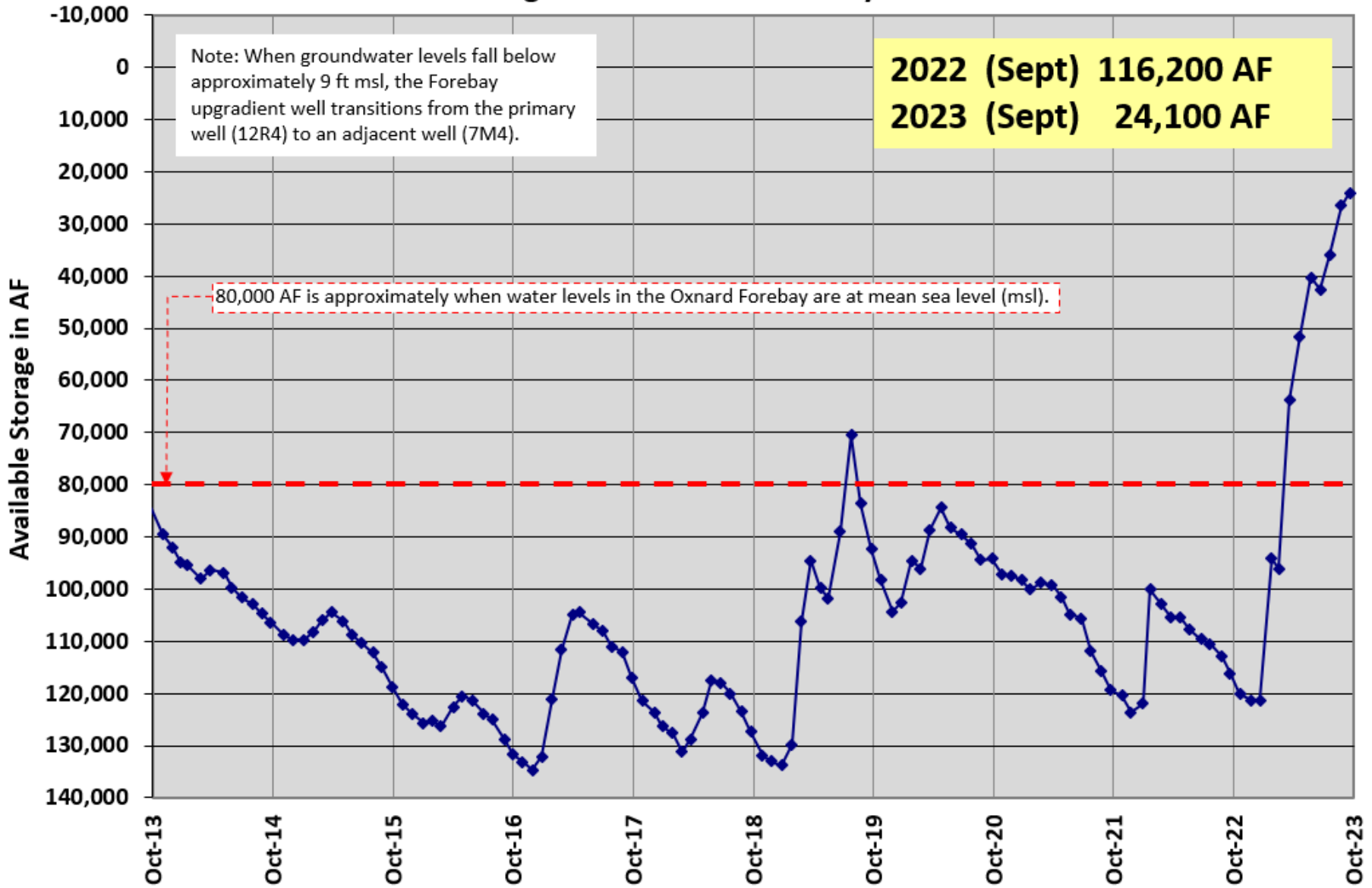
Water Quality

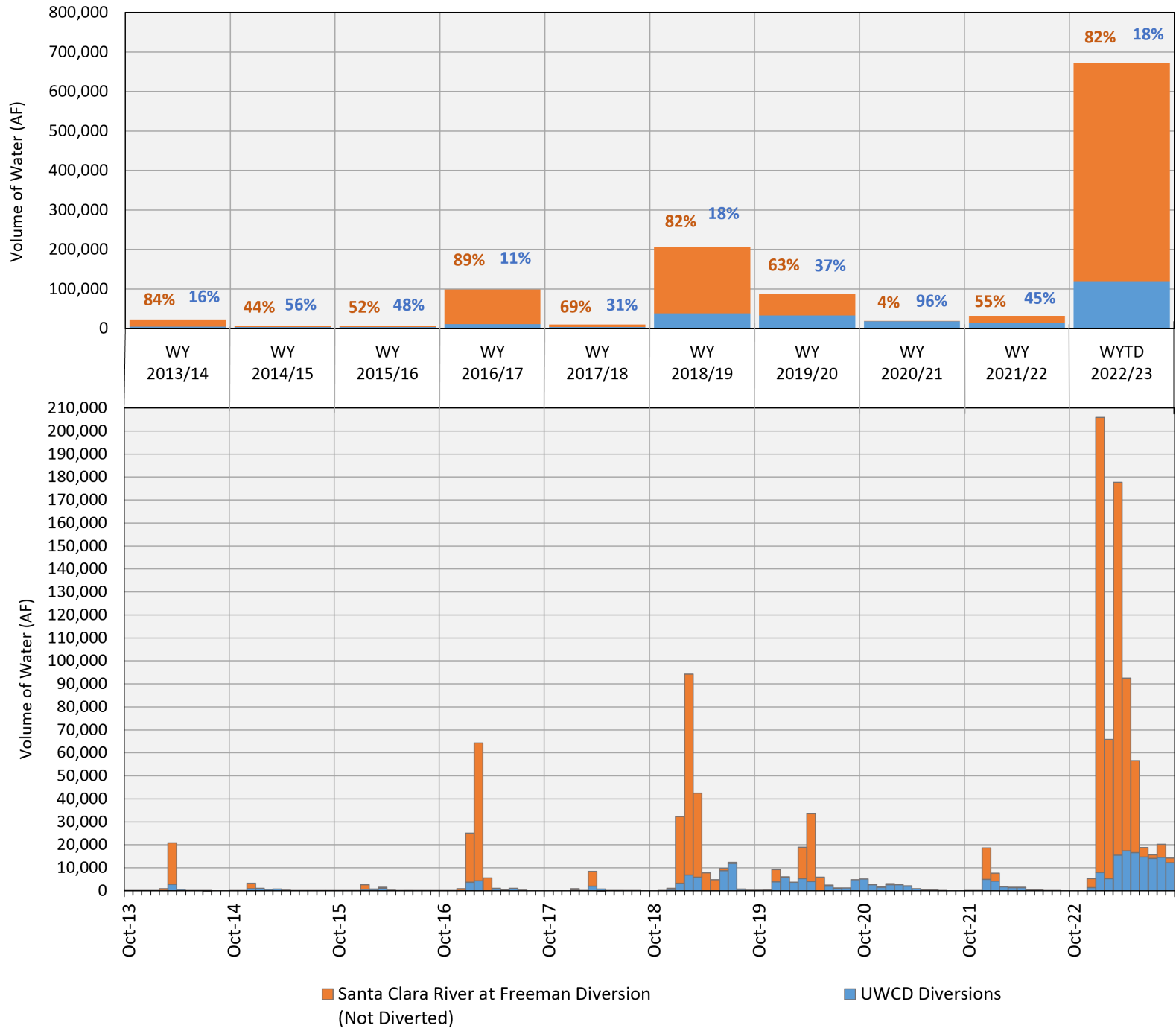






Available Storage in the Oxnard Forebay - Last 10 Years





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