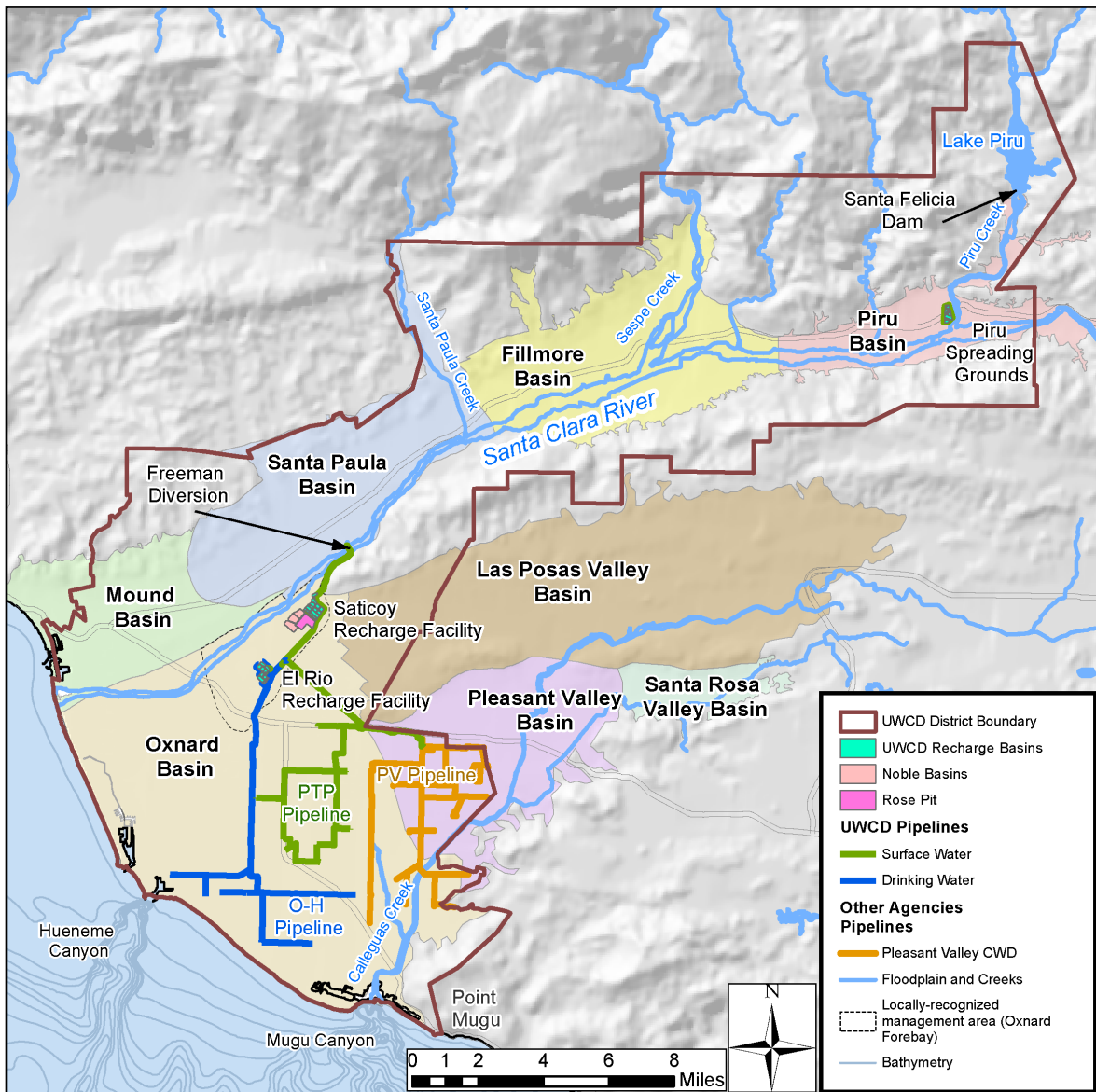




United Water CONSERVATION DISTRICT

February 2023 Hydrologic Conditions Report 2022/23 Water Year

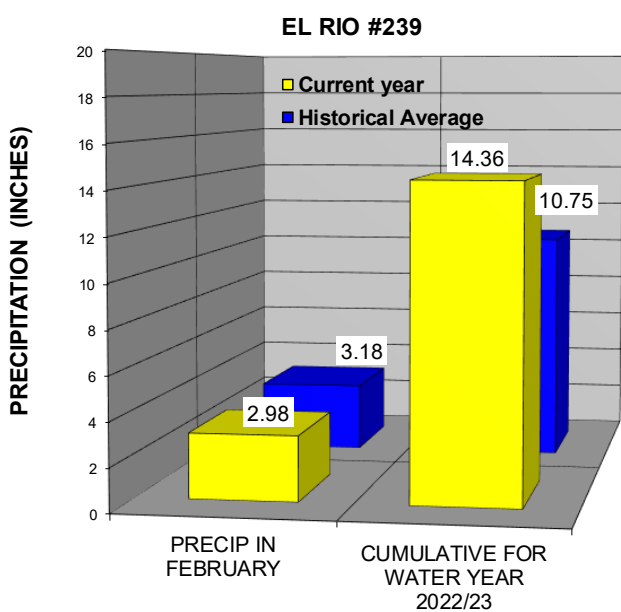
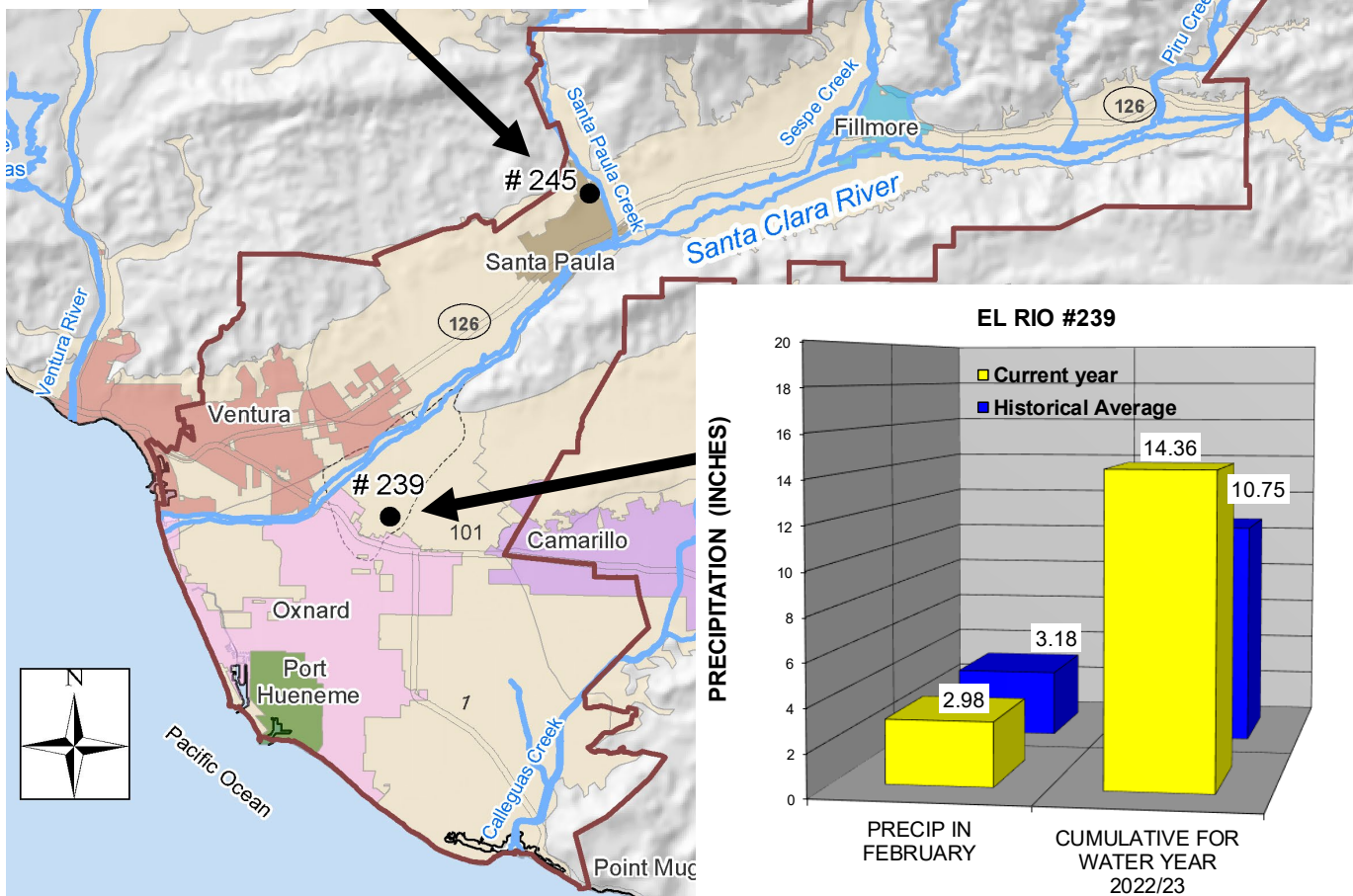
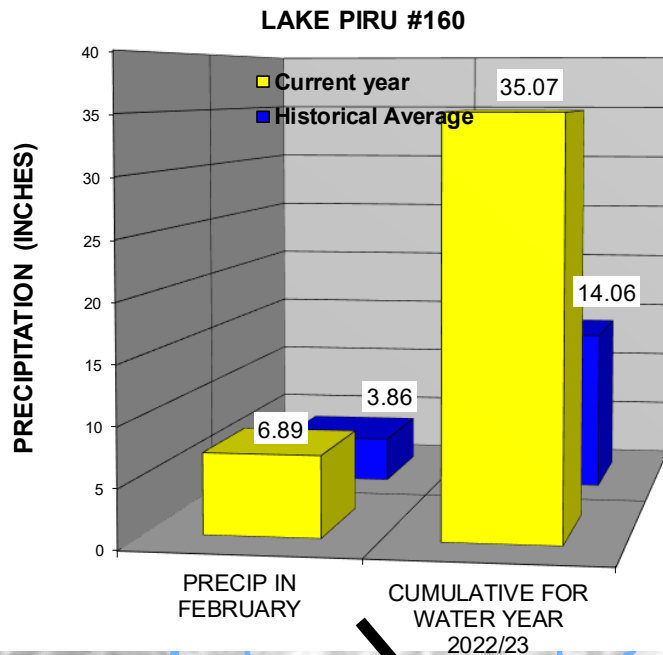
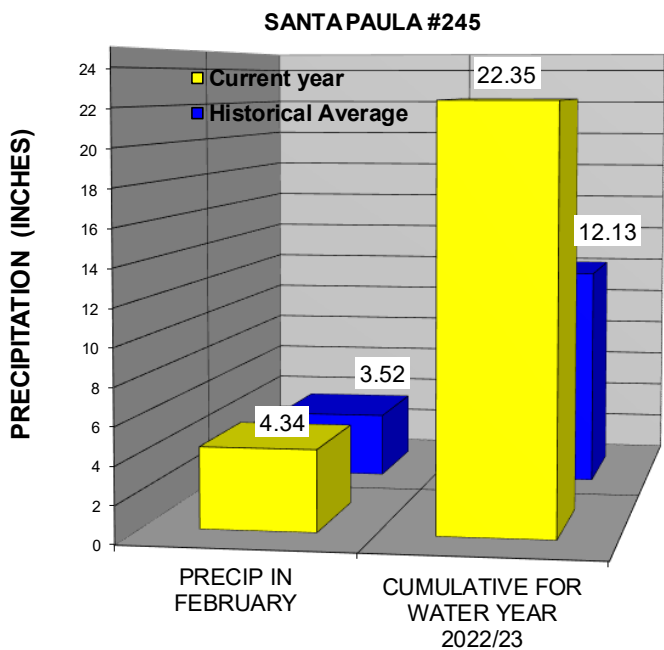
March 1, 2023



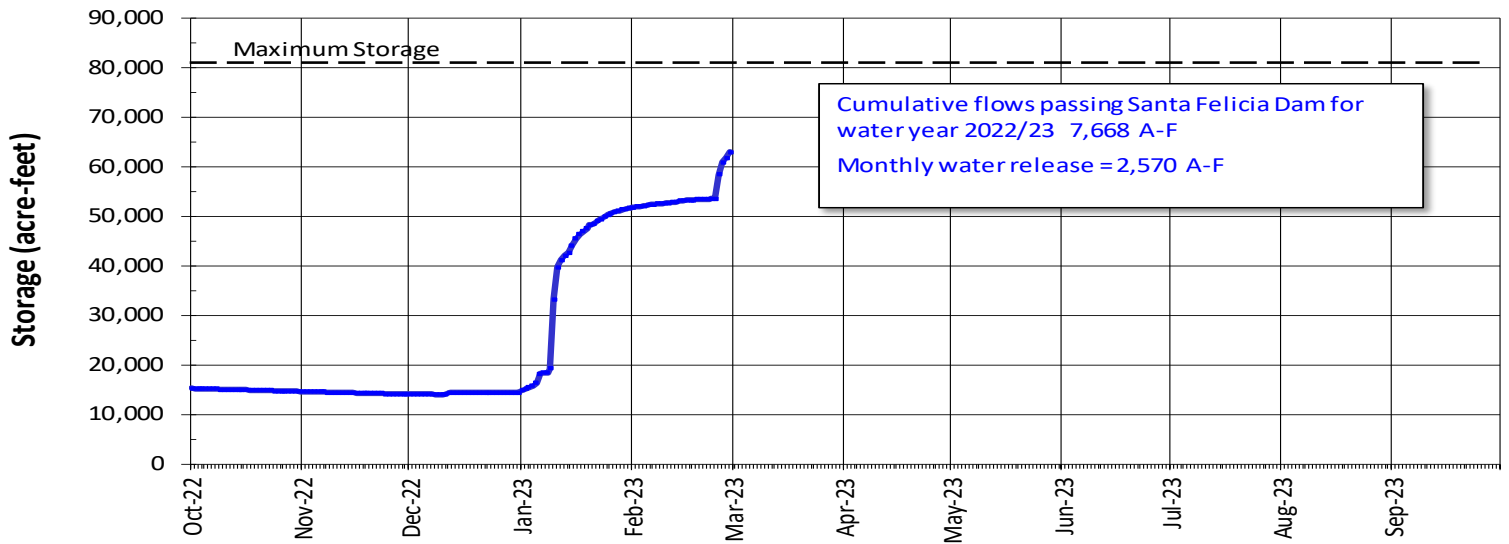
Note: This report may contain provisional data until final review at the end of the water year.

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Precipitation

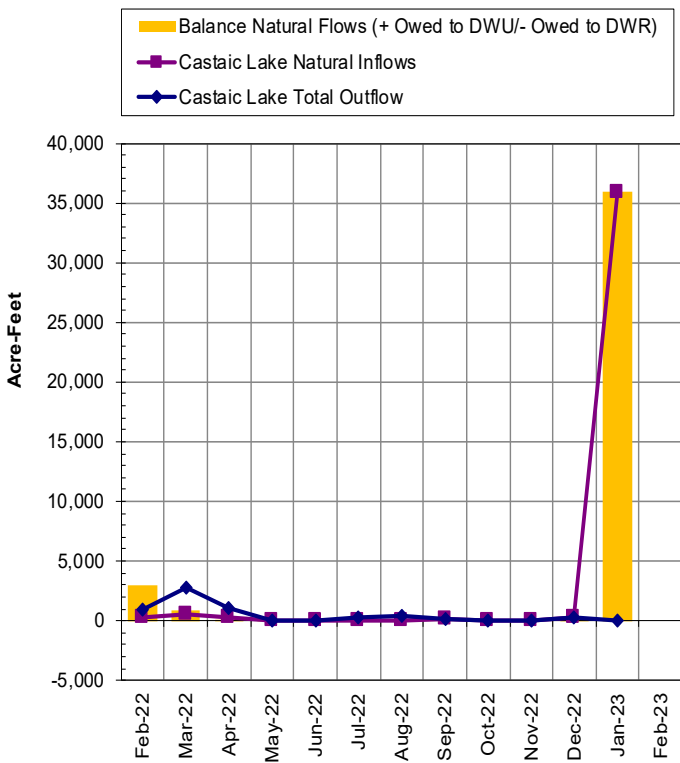


District-wide percent of normal precipitation = 194%

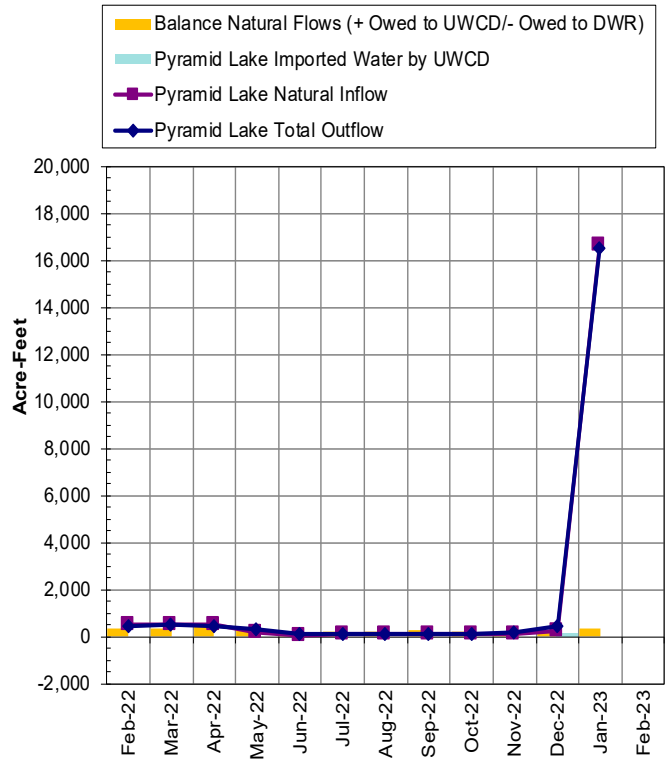


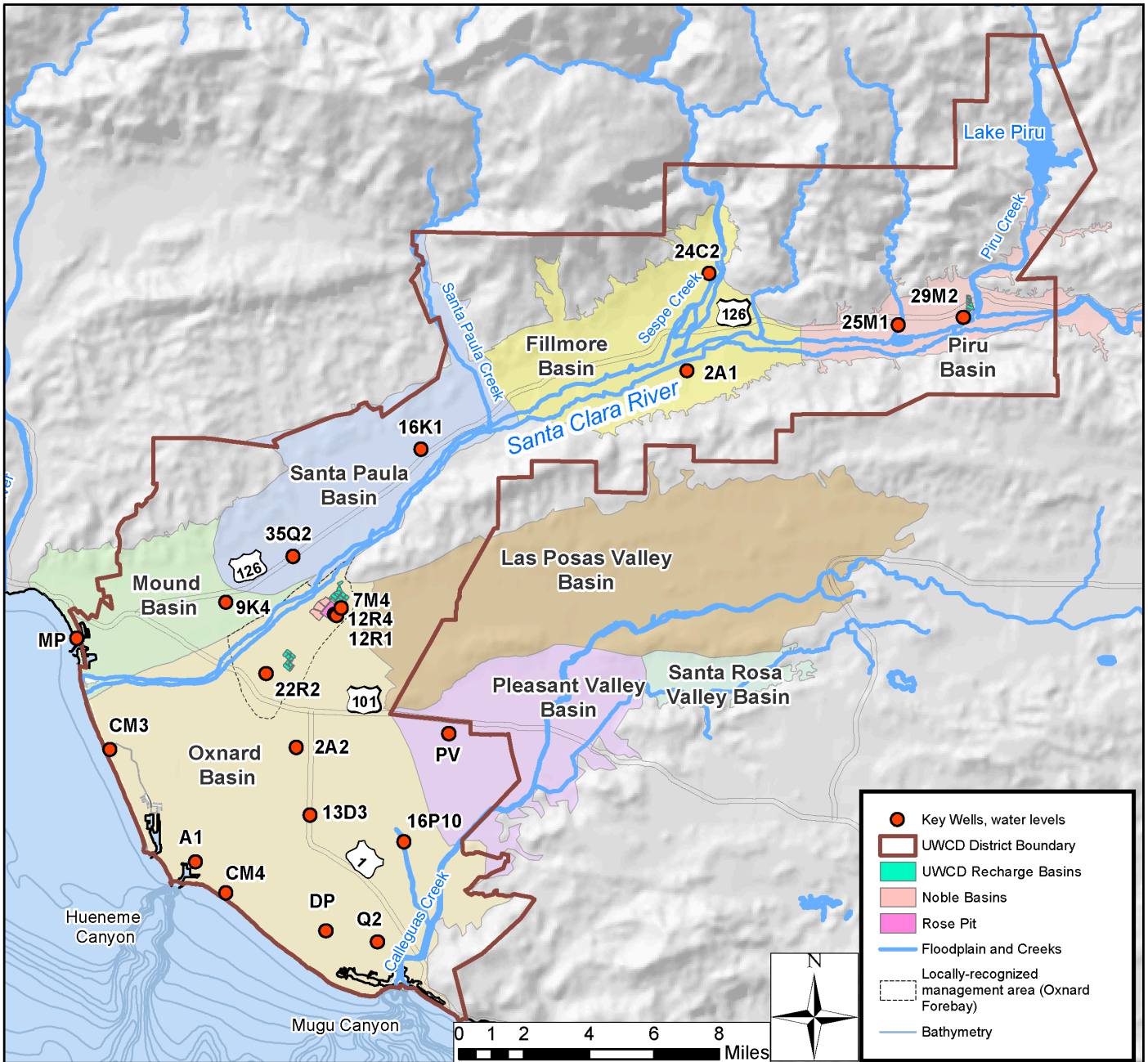
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Hydro Plant Outflow (Acre-Feet) | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Cumulative Hydro Plant Outflow (A-F) | 0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

Castaic Lake releases to downstream water users (DWU)



Pyramid Lake releases to UWCD

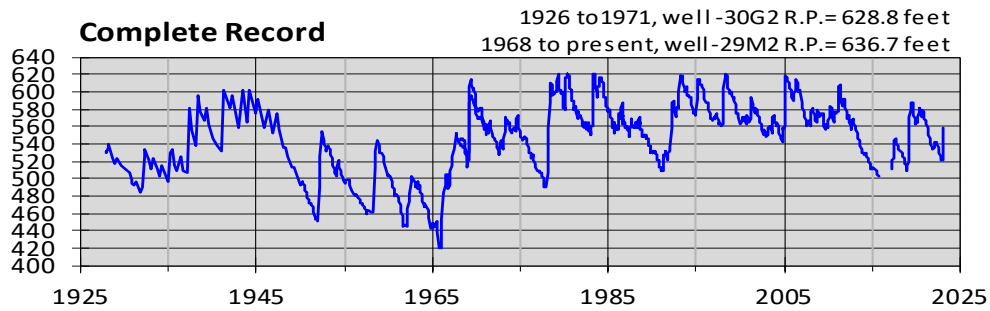
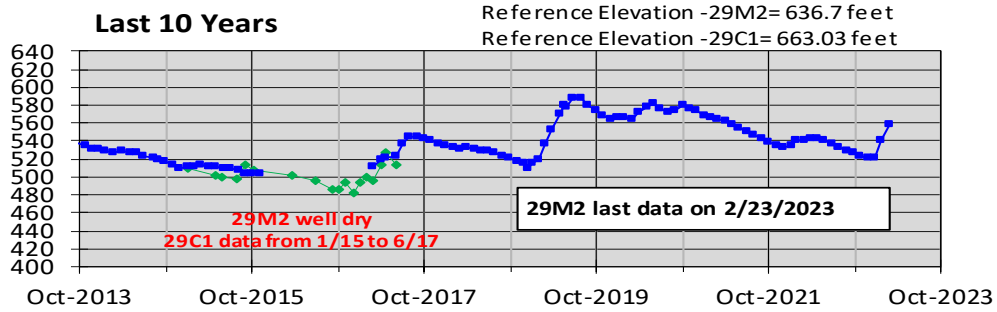




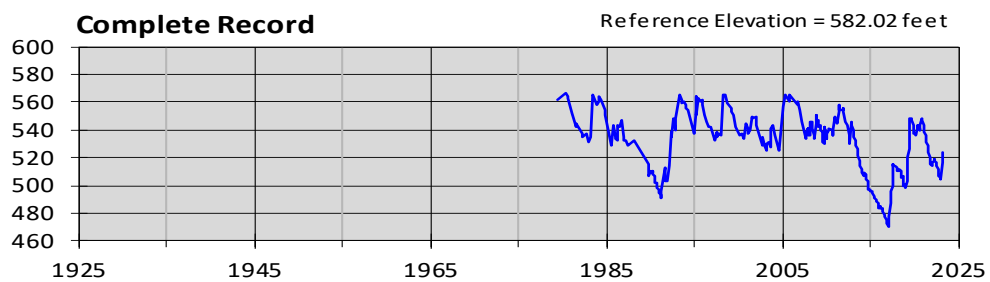
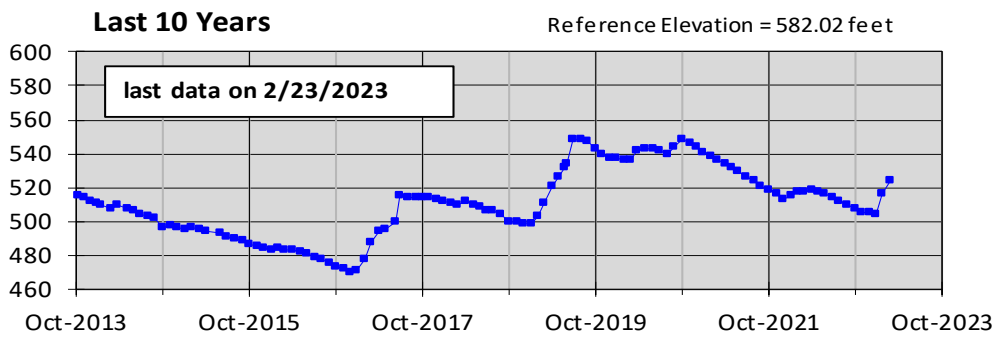
Locations of Key Wells, Monthly Groundwater Elevation Monitoring

Groundwater Elevation Records – Piru Basin

Well 04N18W29M02S (29M2)



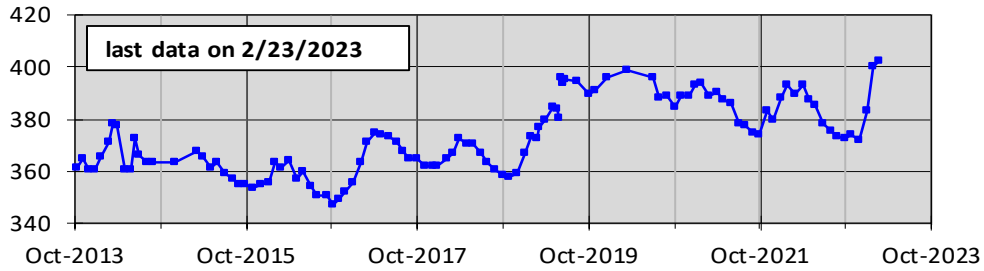
Well 04N19W25M01S (25M1)



Groundwater Elevation Records – Fillmore Basin

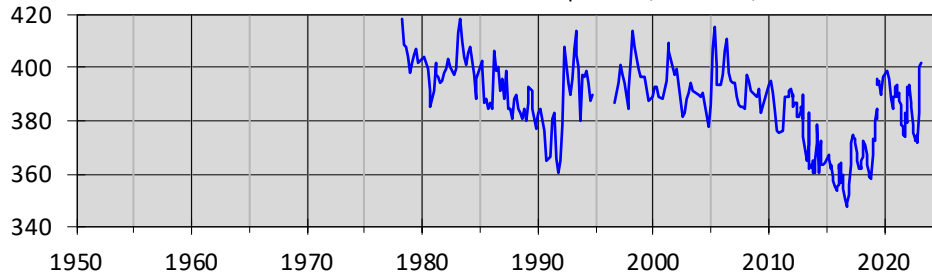
Well 04N20W24C02S (24C2)

Last 10 Years



Complete Record

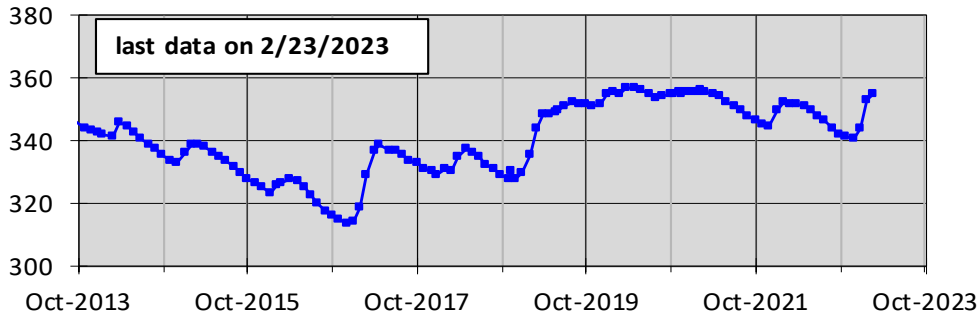
1978 to 2014, well 23Q2, R.P. = 513.99 feet
 2015 to 2019, well 23N1, R.P. = 559.00 feet
 2019 to present, well 24C2, R.P. = 497.02 feet



Well 03N20W02A01S (2A1)

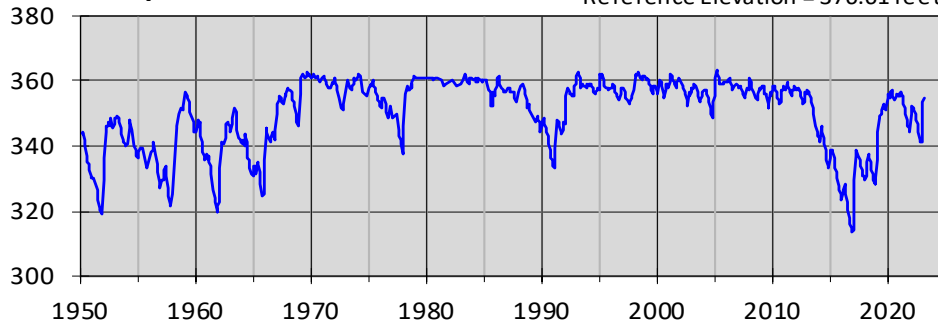
Last 10 Years

Reference Elevation = 376.61 feet

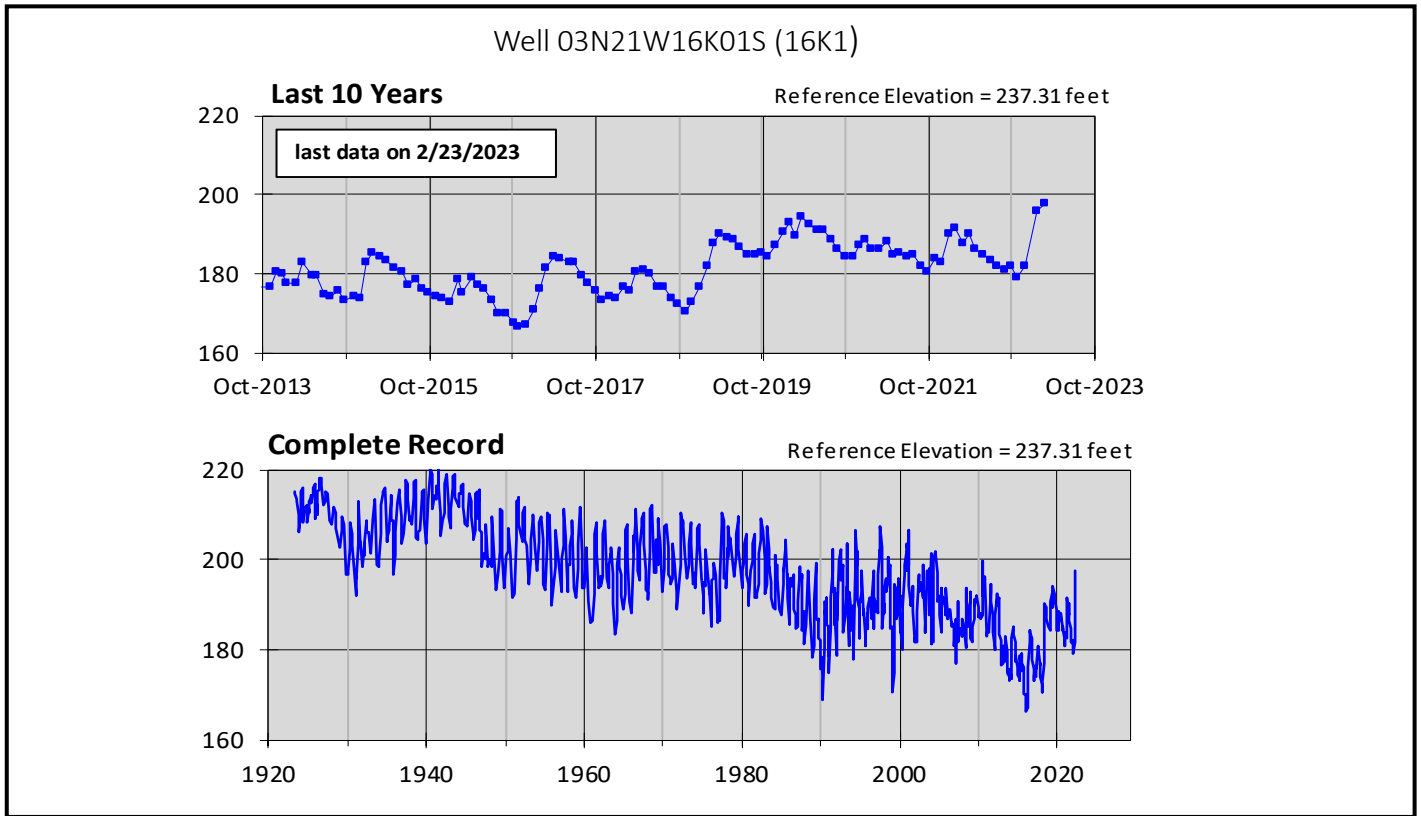


Complete Record

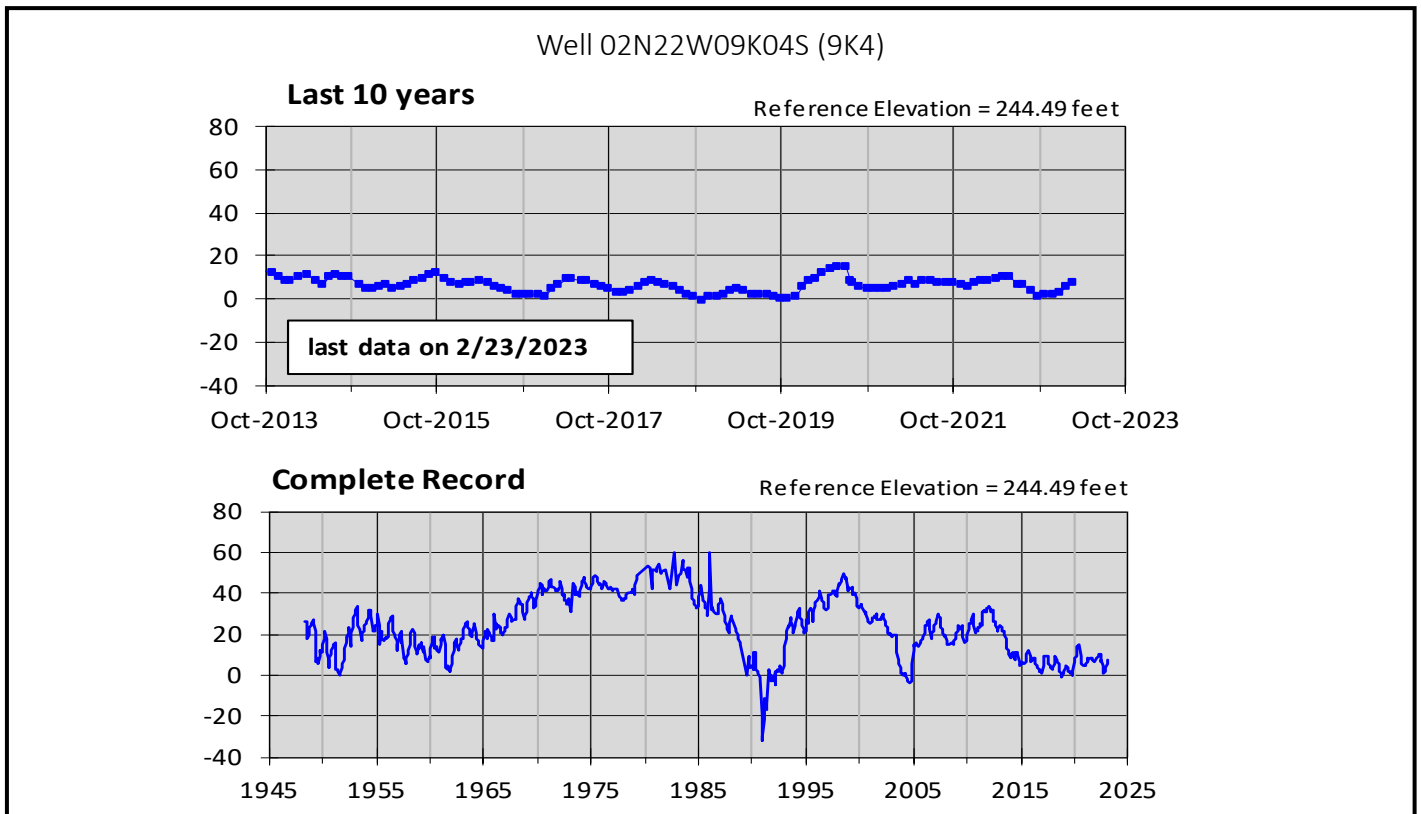
Reference Elevation = 376.61 feet



Groundwater Elevation Records – Santa Paula Basin



Groundwater Elevation Records – Mound Basin

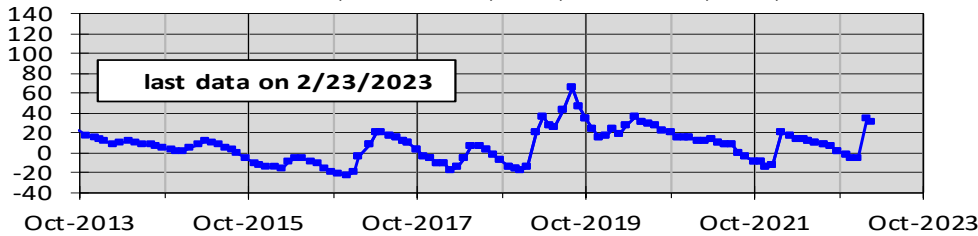


Groundwater Elevation Records – Oxnard Basin, Forebay

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

Last 10 Years

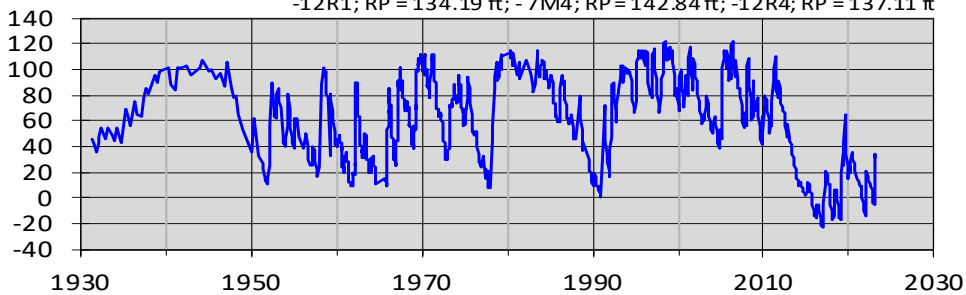
-12R1; RP = 134.19 ft; -7M4; RP = 142.84 ft; -12R4; RP = 137.11 ft



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

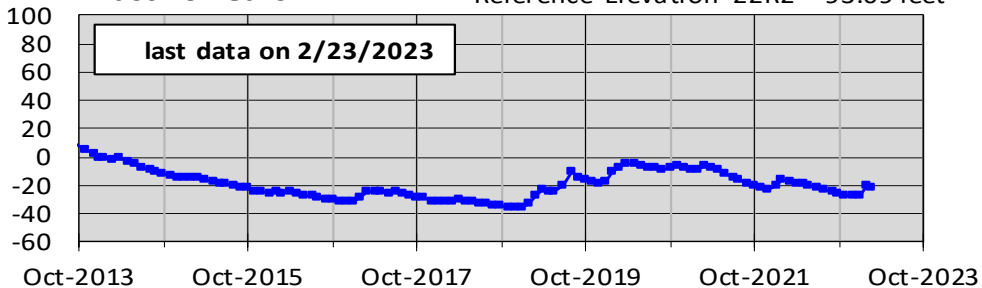


Note: Well 12R1 was destroyed in 2014 and replaced with well 12R4. When well 12R4 goes dry at approximately 9 ft msl, well 7M4 is used to measure groundwater level.

Well 02N22W22R02S (22R2)

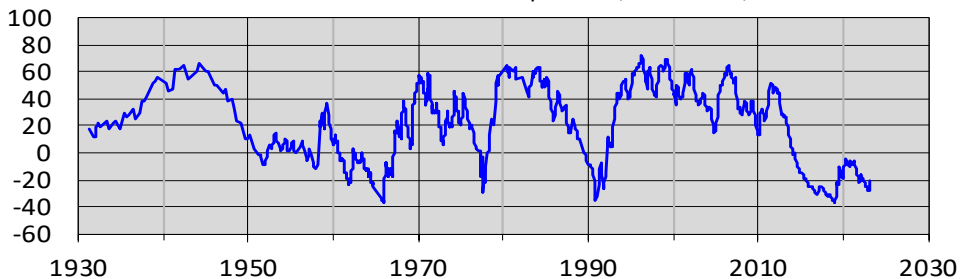
Last 10 Years

Reference Elevation -22R2 = 93.09 feet

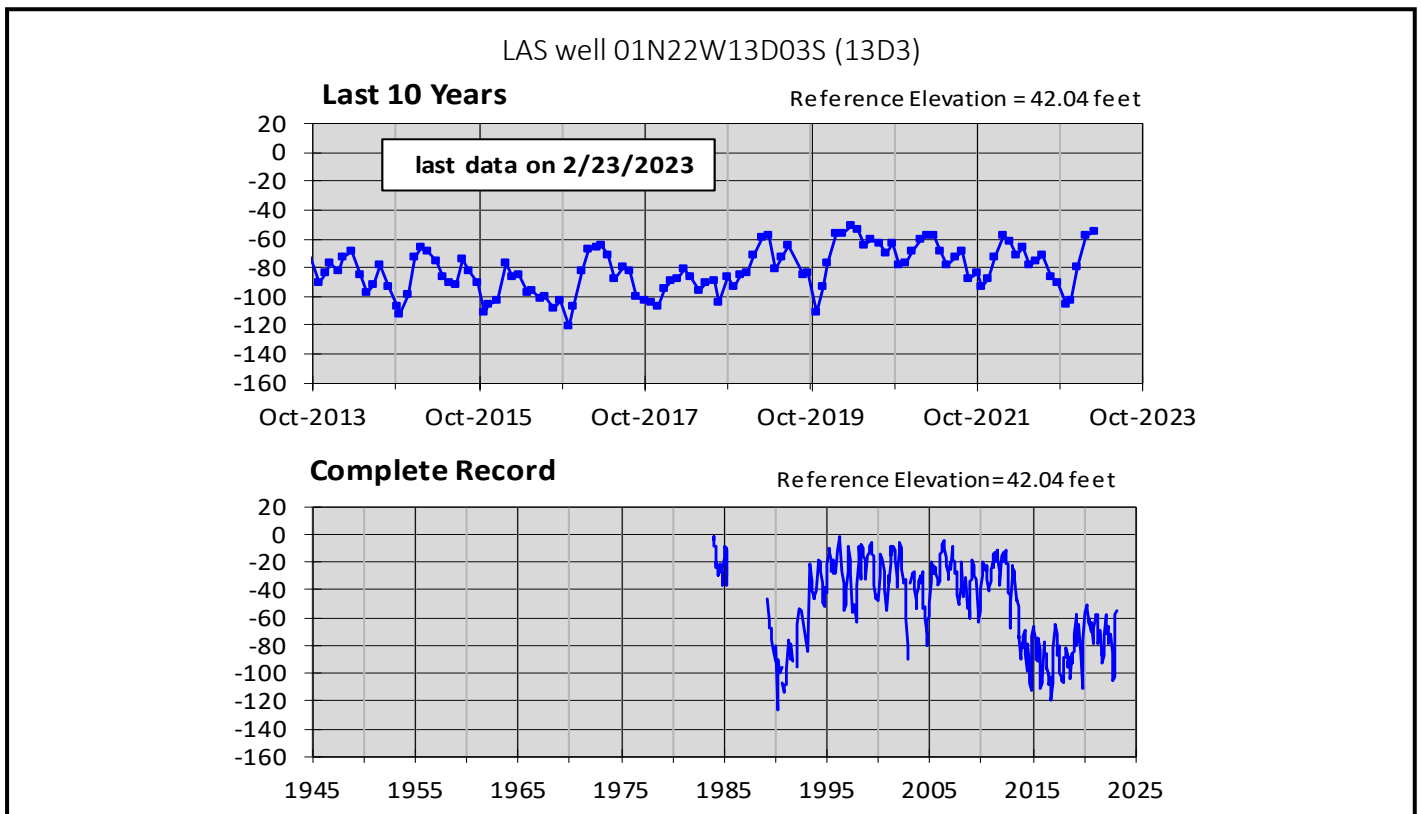
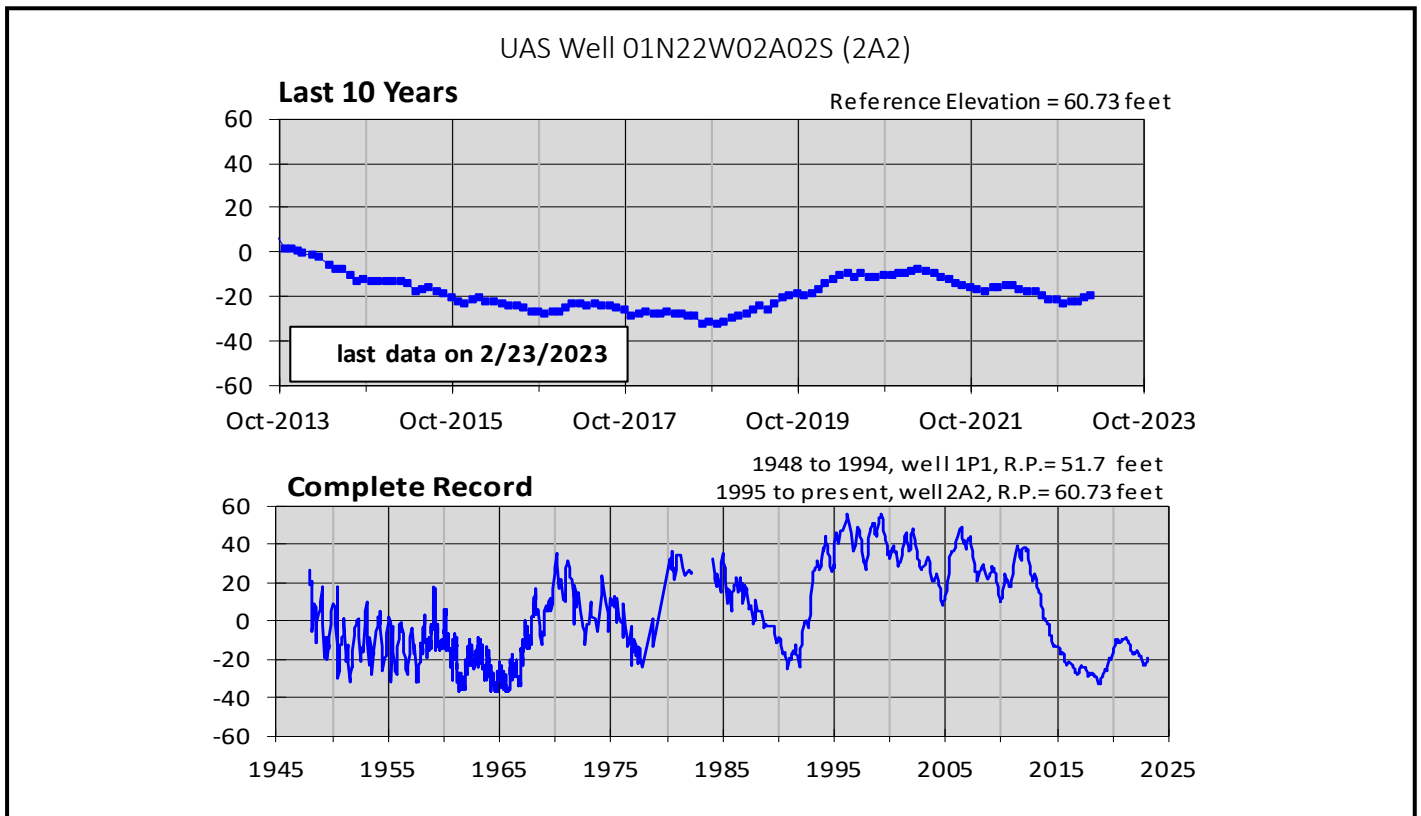


Complete Record

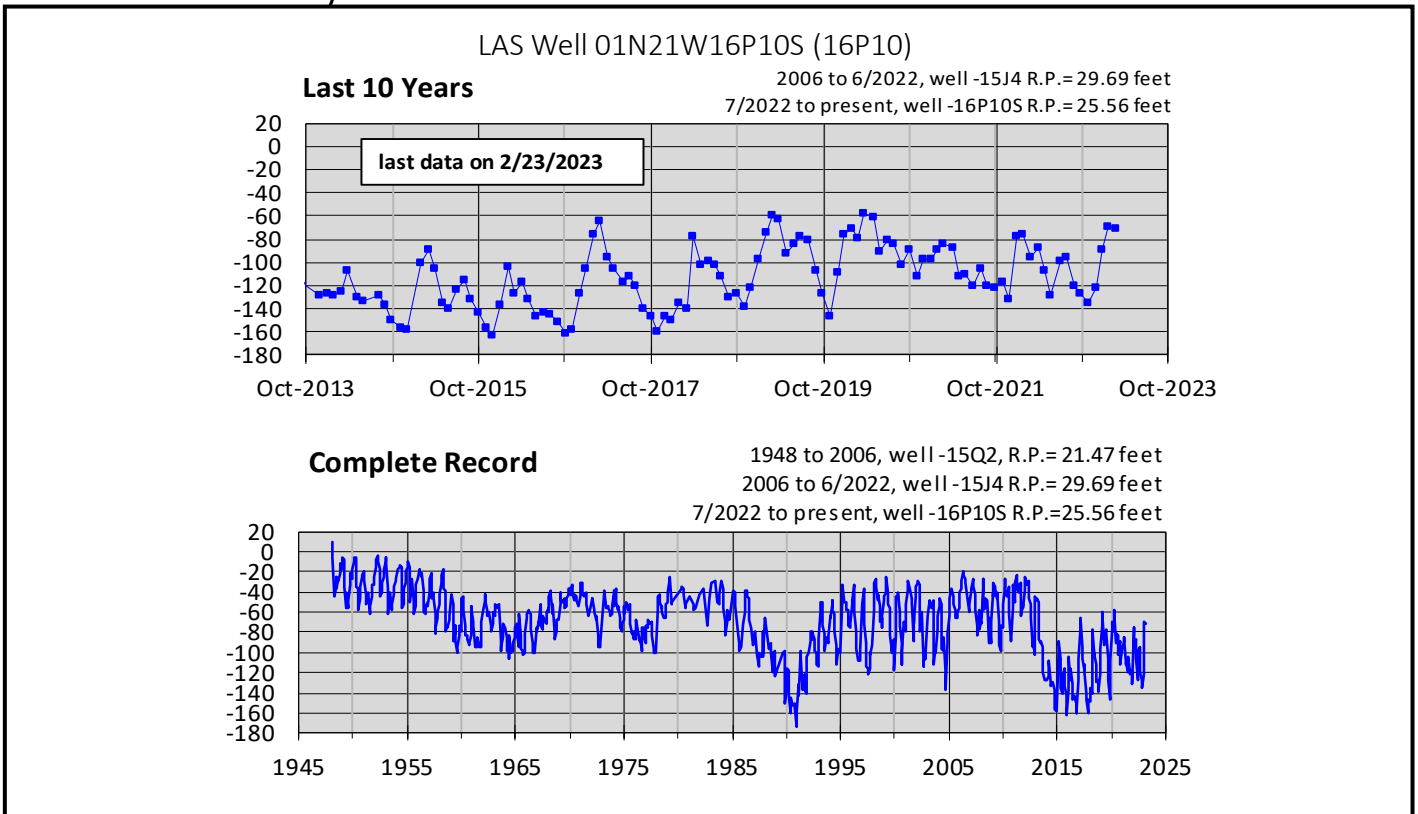
1931 to 2004, well -22R1, RP = 93.6 feet
2004 to present, well -22R2, RP = 93.09 feet



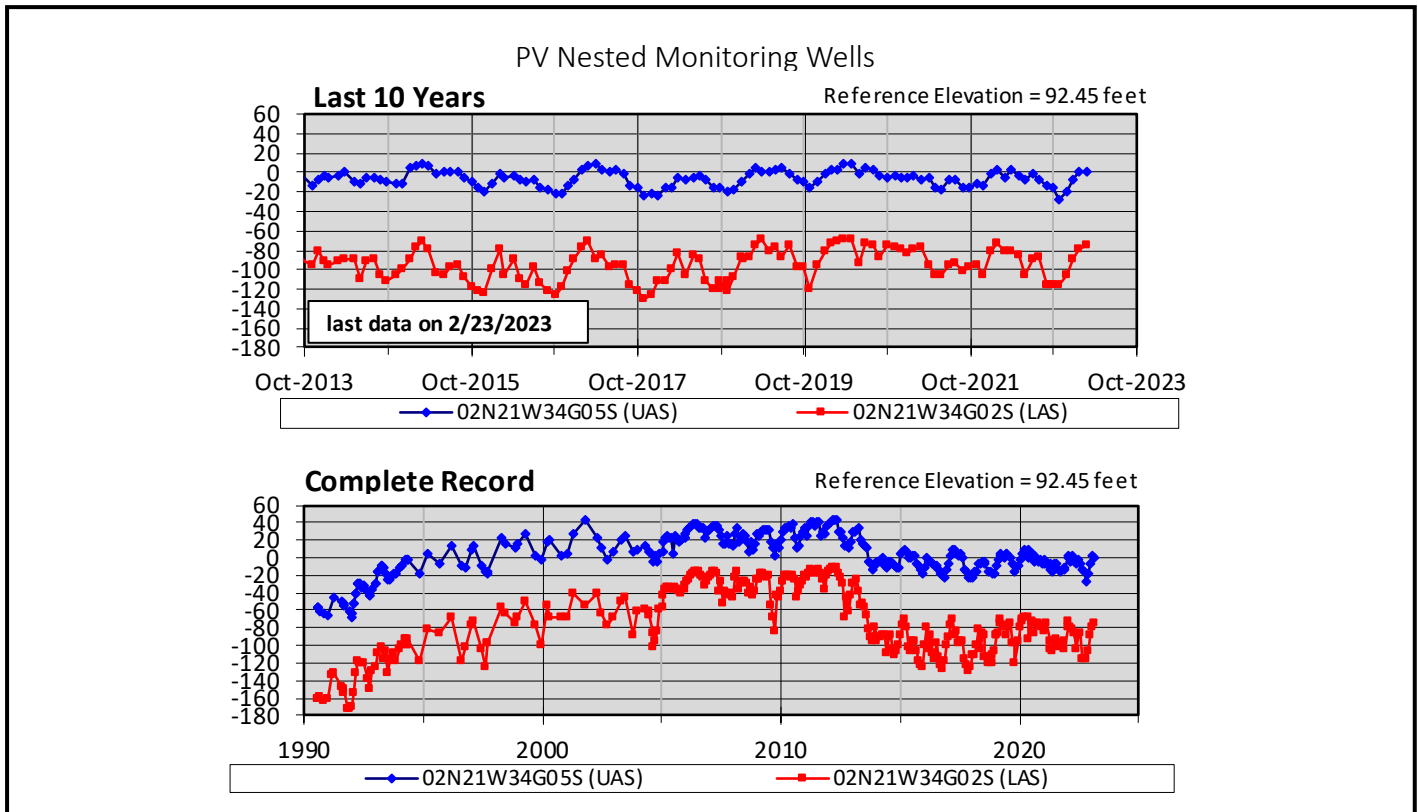
Groundwater Elevation Records – Oxnard Basin



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

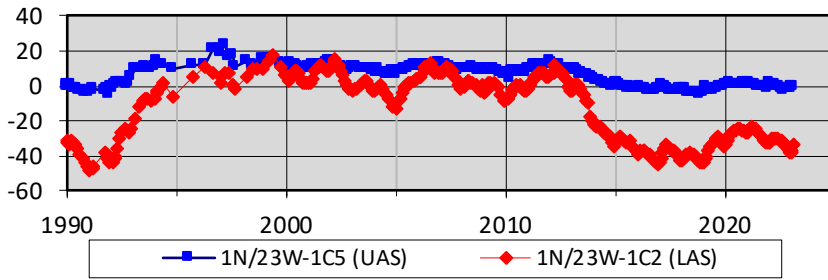


Groundwater Elevation Records – Pleasant Valley Basin

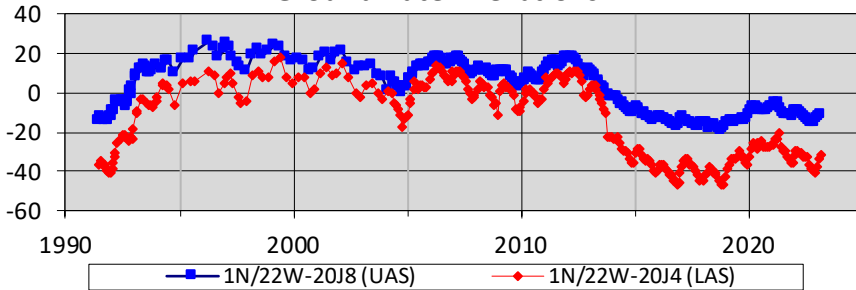


Groundwater Elevation Records – Coastal Nested Monitoring Wells

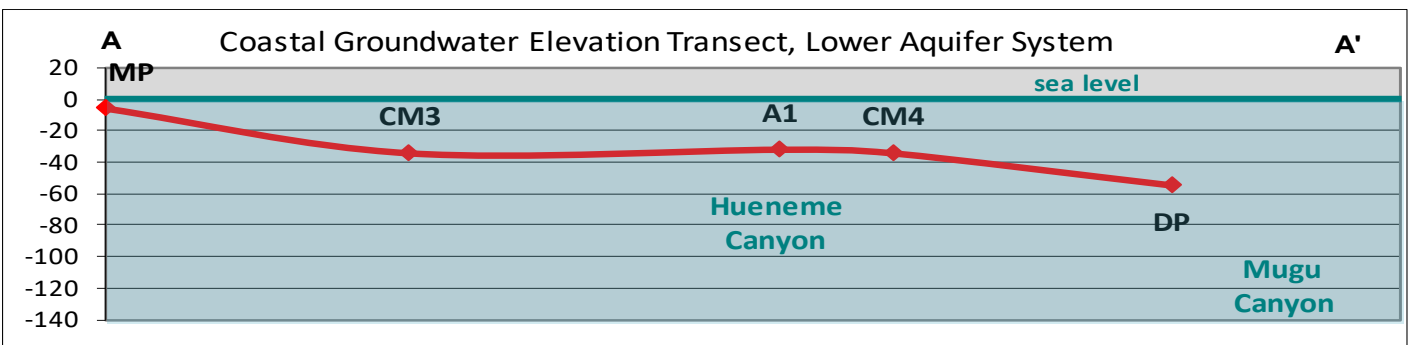
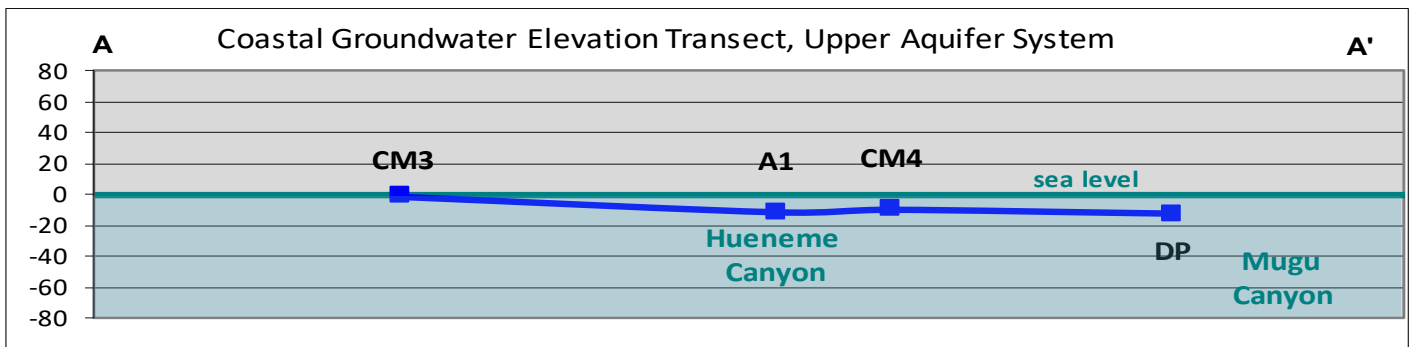
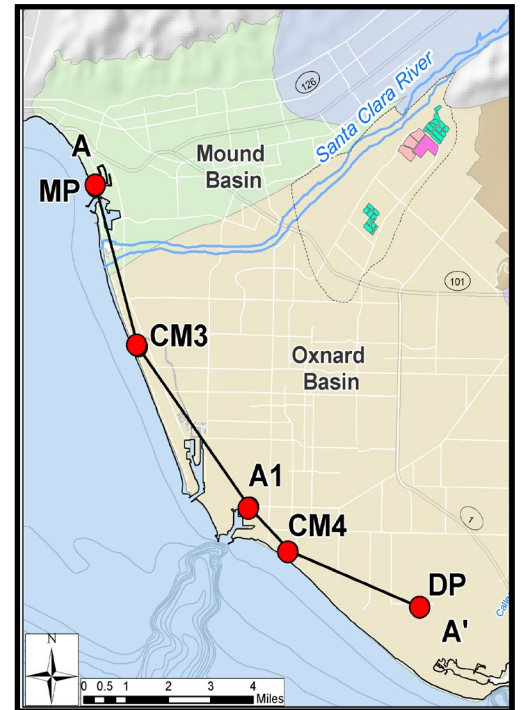
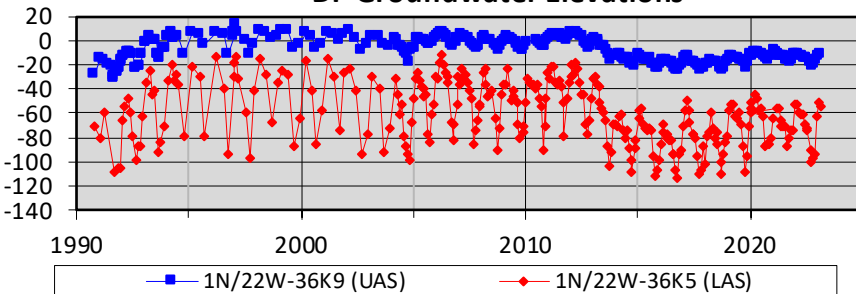
CM3 Groundwater Elevations



A1 Groundwater Elevations



DP Groundwater Elevations



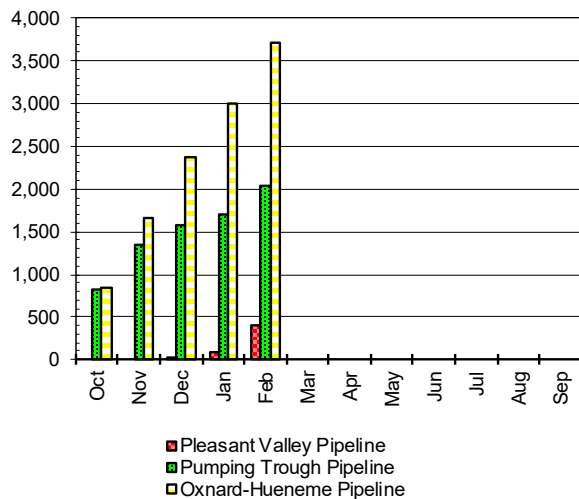
Monthly Water Deliveries, acre-feet (Water Year 2022/23)

| | 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 | | | | | | | |
| PV Pipeline (Saticoy well field) | 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 | | | | | | | |
| PTP (surface water) | 0.0 | 0.0 | 64.5 | 143.7 | 207.7 | | | | | | | |
| PTP (PTP 1-5) | 706.9 | 500.4 | 145.6 | 0.0 | 117.3 | | | | | | | |
| PTP (OH-12/13) | 116.5 | 32.1 | 0.0 | 0.0 | 0.0 | | | | | | | |
| PTP (Saticoy well field) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Total PTP | 823.4 | 532.5 | 210.1 | 143.7 | 325.0 | | | | | | | |
| C-customers (surface water) | 0 | 0 | 0 | 0 | 0 | | | | | | | |
| Saticoy Well Field (groundwater) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| O-H Pipeline (groundwater) | 835.8 | 818.2 | 713.2 | 643.3 | 700.3 | | | | | | | |
| Total Surface Water Delivery (PTP, PV, c-cust) | 0.0 | 0.0 | 72.4 | 228.0 | 520.5 | | | | | | | |
| Total Groundwater Delivery (PTP, OH, Sat) | 1,659.2 | 1,350.7 | 858.8 | 643.3 | 817.6 | | | | | | | |
| Total Delivery (surface water, groundwater) | 1,659.2 | 1,350.7 | 931.2 | 871.3 | 1,338.1 | | | | | | | |

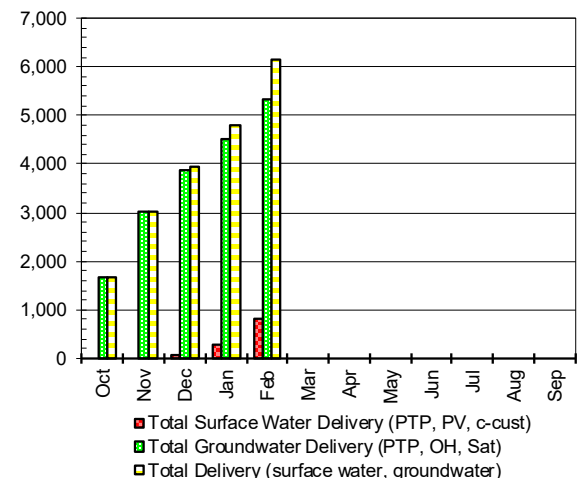
Cumulative Water Deliveries, acre-feet (Water Year 2022/23)

| | 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 | | | | | | | |
| PV Pipeline (saticoy well field) | 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 | | | | | | | |
| PTP (surface water) | 0.0 | 0.0 | 64.5 | 208.2 | 415.9 | | | | | | | |
| PTP (PTP 1-5) | 706.9 | 1,207.3 | 1,352.9 | 1,352.9 | 1,470.2 | | | | | | | |
| PTP (OH-12/13) | 116.5 | 148.6 | 148.6 | 148.6 | 148.6 | | | | | | | |
| PTP (Saticoy well field) | 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 | | | | | | | |
| C-customers (surface water) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | |
| Saticoy Well Field (groundwater) | 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 | | | | | | | |
| Total Surface Water Delivery (PTP, PV, c-cust) | 0.0 | 0.0 | 72.4 | 300.4 | 820.9 | | | | | | | |
| Total Groundwater Delivery (PTP, OH, Sat) | 1,659.2 | 3,009.9 | 3,868.7 | 4,512.0 | 5,329.6 | | | | | | | |
| Total Delivery (surface water, groundwater) | 1,659.2 | 3,009.9 | 3,941.1 | 4,812.4 | 6,150.5 | | | | | | | |

Cumulative deliveries by system



Cumulative deliveries by source/type

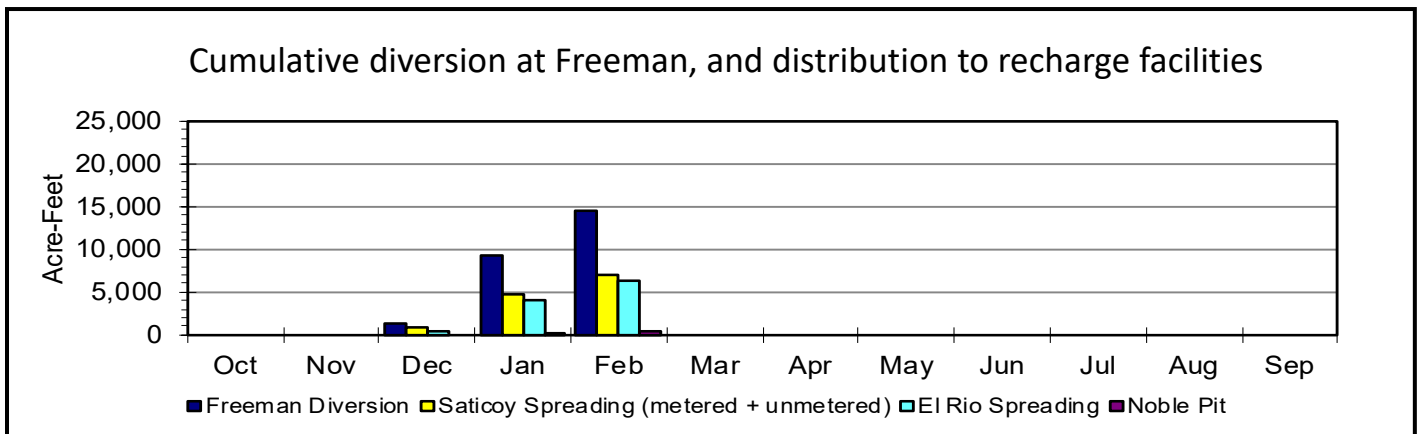


Monthly diversion and recharge totals by facility, 2022/23, in acre-feet

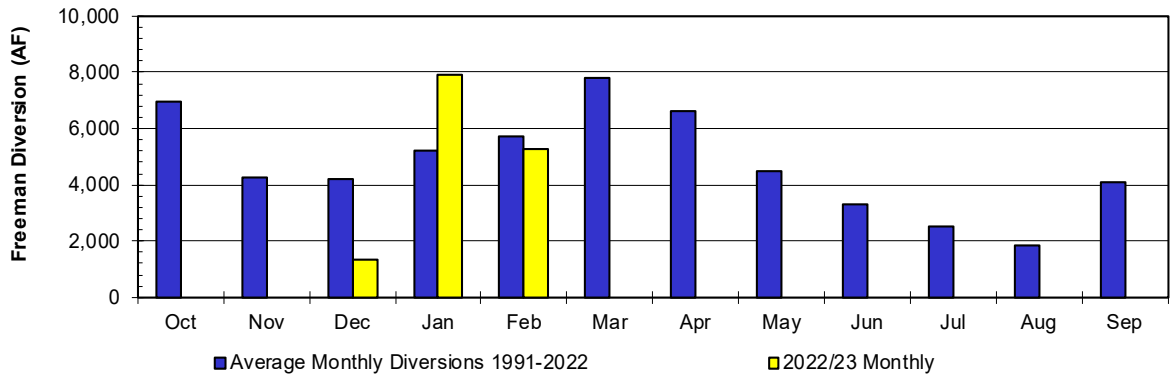
| Month | Piru Spreading | Freeman Diversion | Saticoy Spreading (metered + unmetered) | El Rio Spreading | Noble Pit | LBMWC Water Use |
|-------|----------------|-------------------|---|------------------|-----------|-----------------|
| Oct | 0 | 0 | 0 | 0 | 0 | 0 |
| Nov | 0 | 0 | 0 | 0 | 0 | 0 |
| Dec | 0 | 1,360 | 900 | 387 | 0 | 1 |
| Jan | 0 | 7,937 | 3,775 | 3,751 | 183 | NA |
| Feb | 0 | 5,268 | 2,347 | 2,127 | 274 | NA |
| Mar | | | | | | |
| Apr | | | | | | |
| May | | | | | | |
| Jun | | | | | | |
| Jul | | | | | | |
| Aug | | | | | | |
| Sep | | | | | | |

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

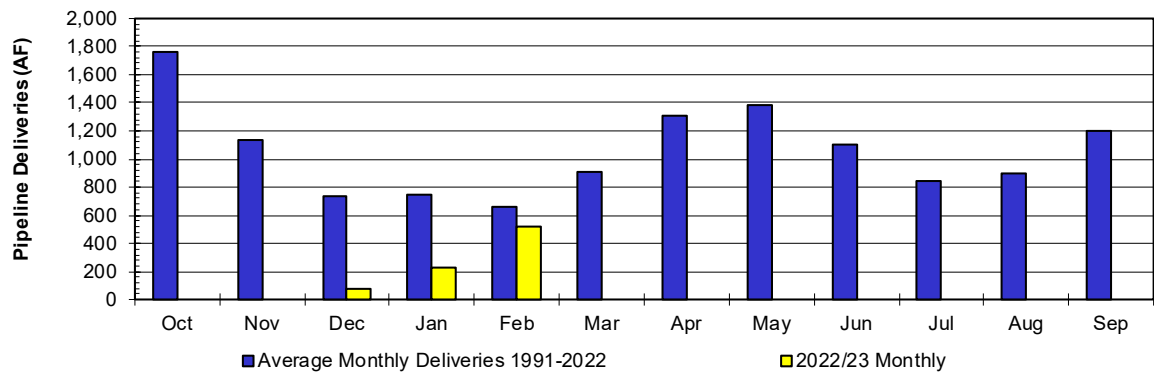
| Month | Piru Spreading | Freeman Diversion | Saticoy Spreading (metered + unmetered) | El Rio Spreading | Noble Pit | LBMWC Water Use |
|-------|----------------|-------------------|---|------------------|-----------|-----------------|
| Oct | 0 | 0 | 0 | 0 | 0 | 0 |
| Nov | 0 | 0 | 0 | 0 | 0 | 0 |
| Dec | 0 | 1,360 | 900 | 387 | 0 | 1 |
| Jan | 0 | 9,297 | 4,675 | 4,138 | 183 | NA |
| Feb | 0 | 14,565 | 7,022 | 6,265 | 457 | NA |
| Mar | | | | | | |
| Apr | | | | | | |
| May | | | | | | |
| Jun | | | | | | |
| Jul | | | | | | |
| Aug | | | | | | |
| Sep | | | | | | |



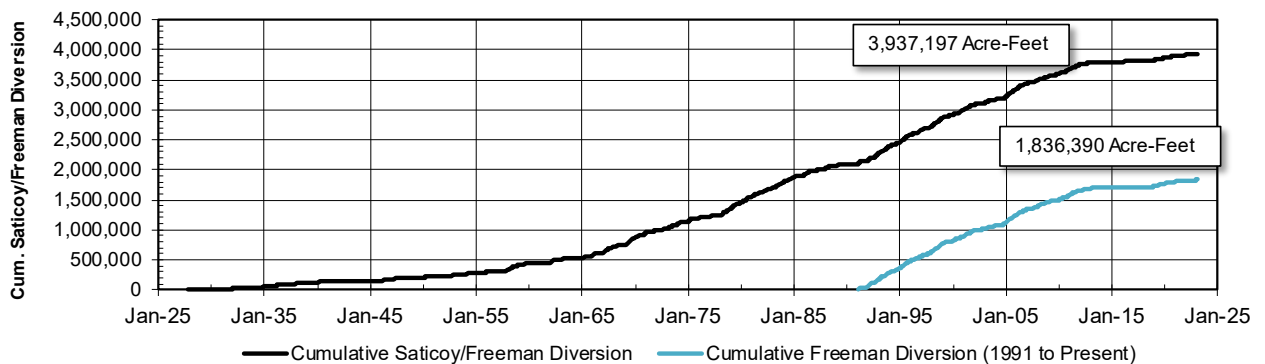
Monthly 2022/23 diversion at Freeman, compared to average monthly diversions (1991-2022)



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

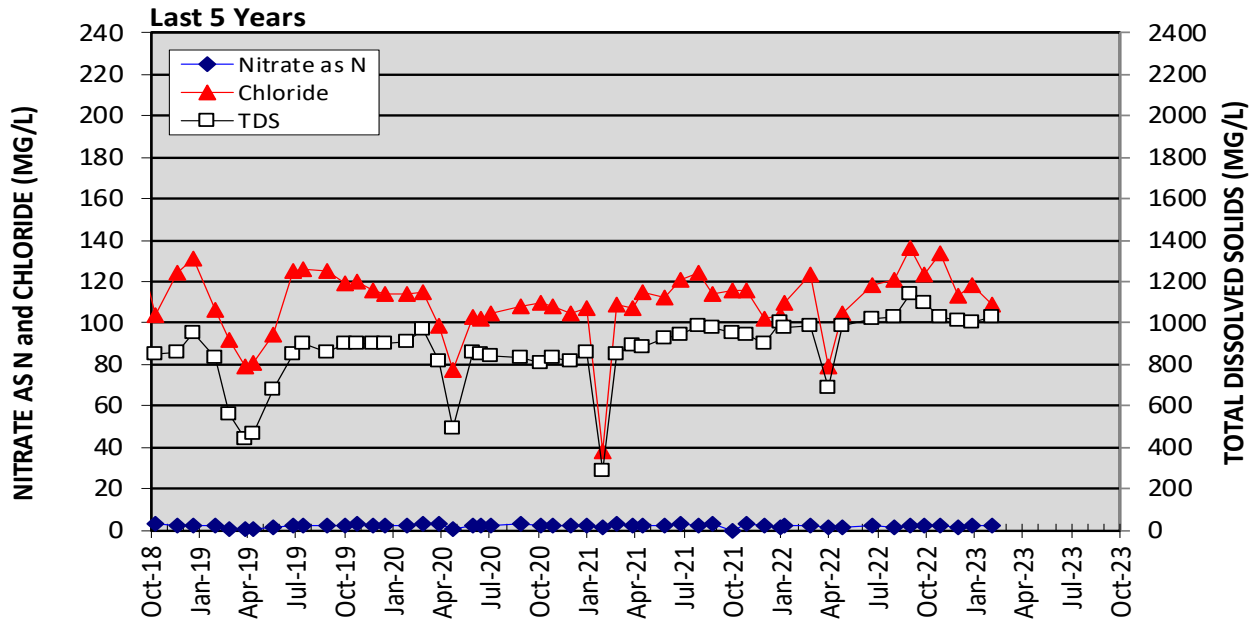


Cumulative diversion at Saticoy and Freeman Diversion, in acre-feet

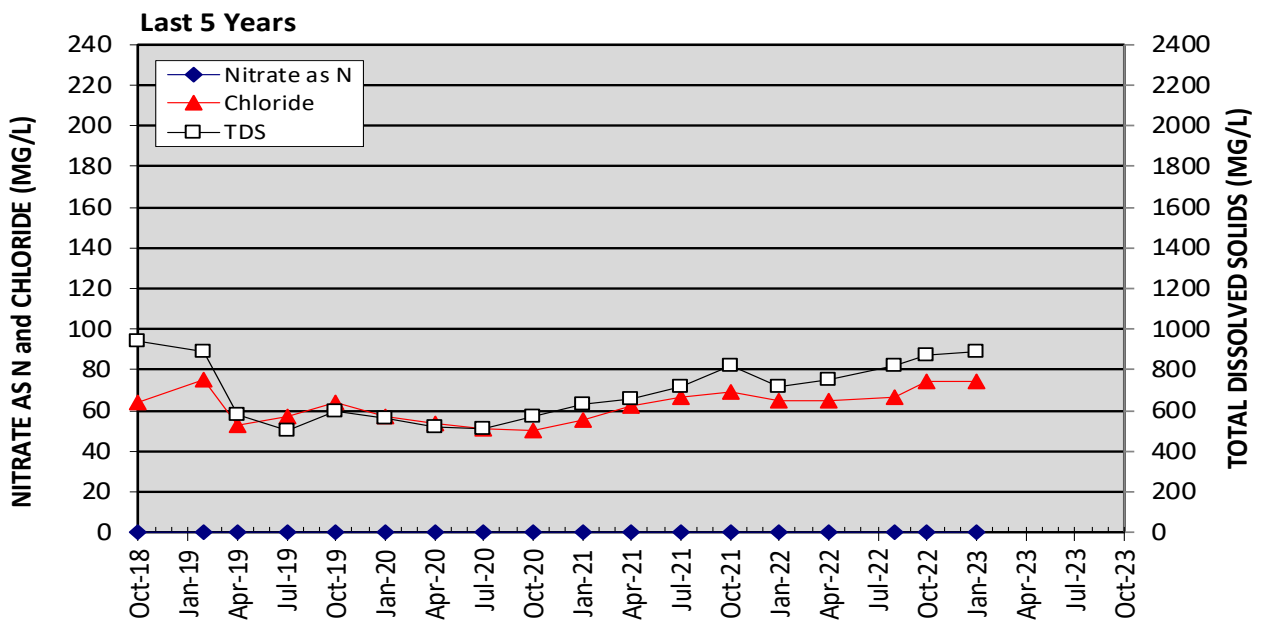


Water Quality

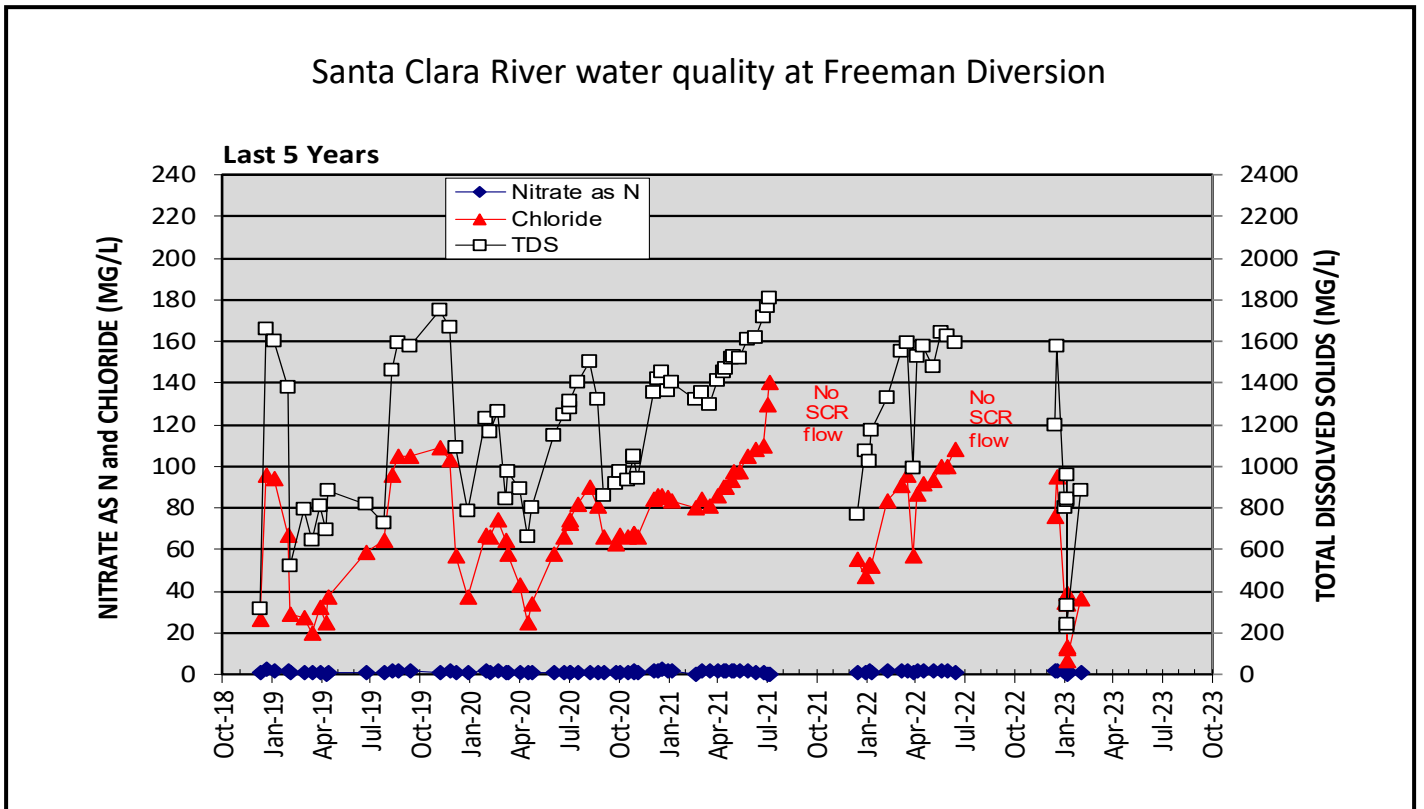
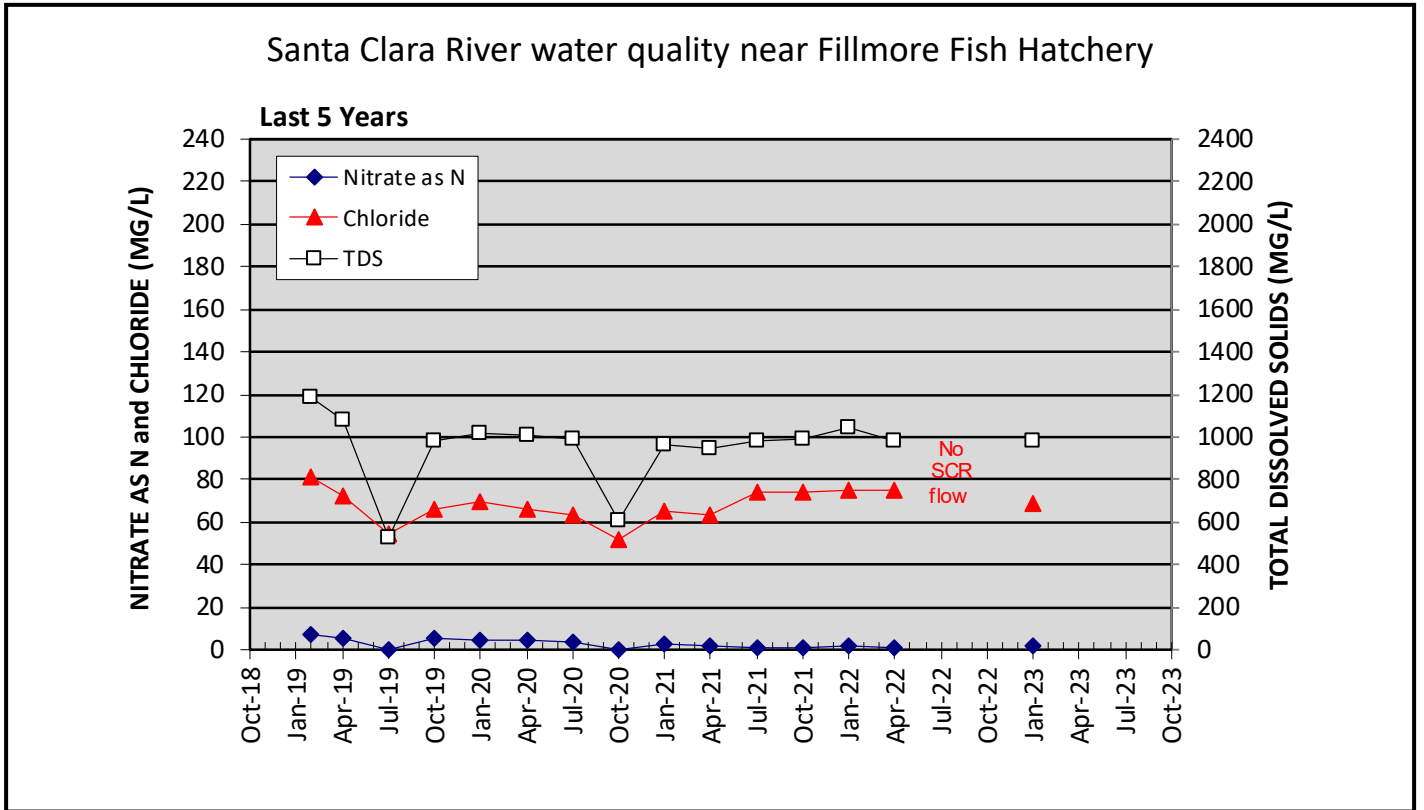
Santa Clara River water quality near Los Angeles/Ventura County line



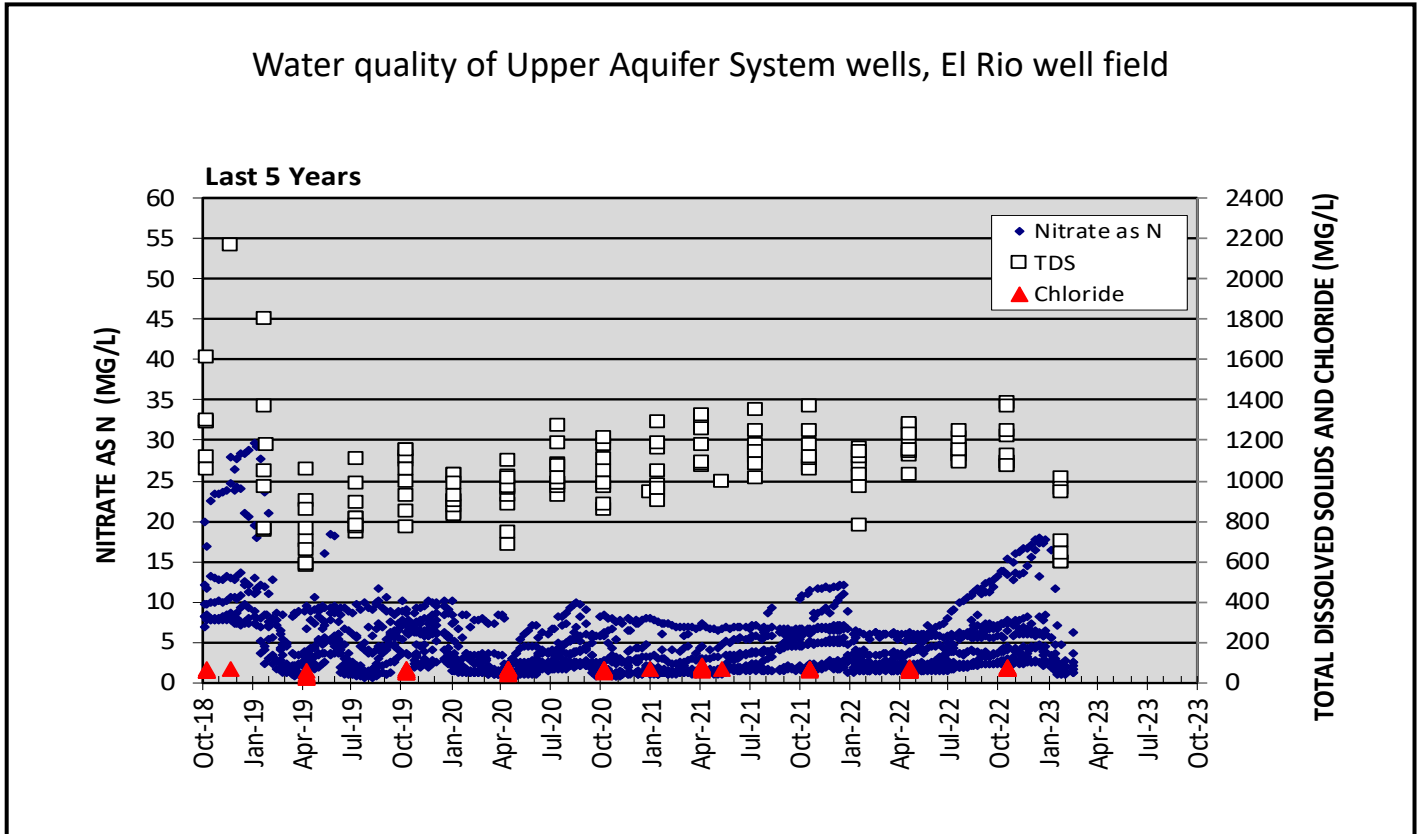
Piru Creek water quality below Santa Felicia Dam

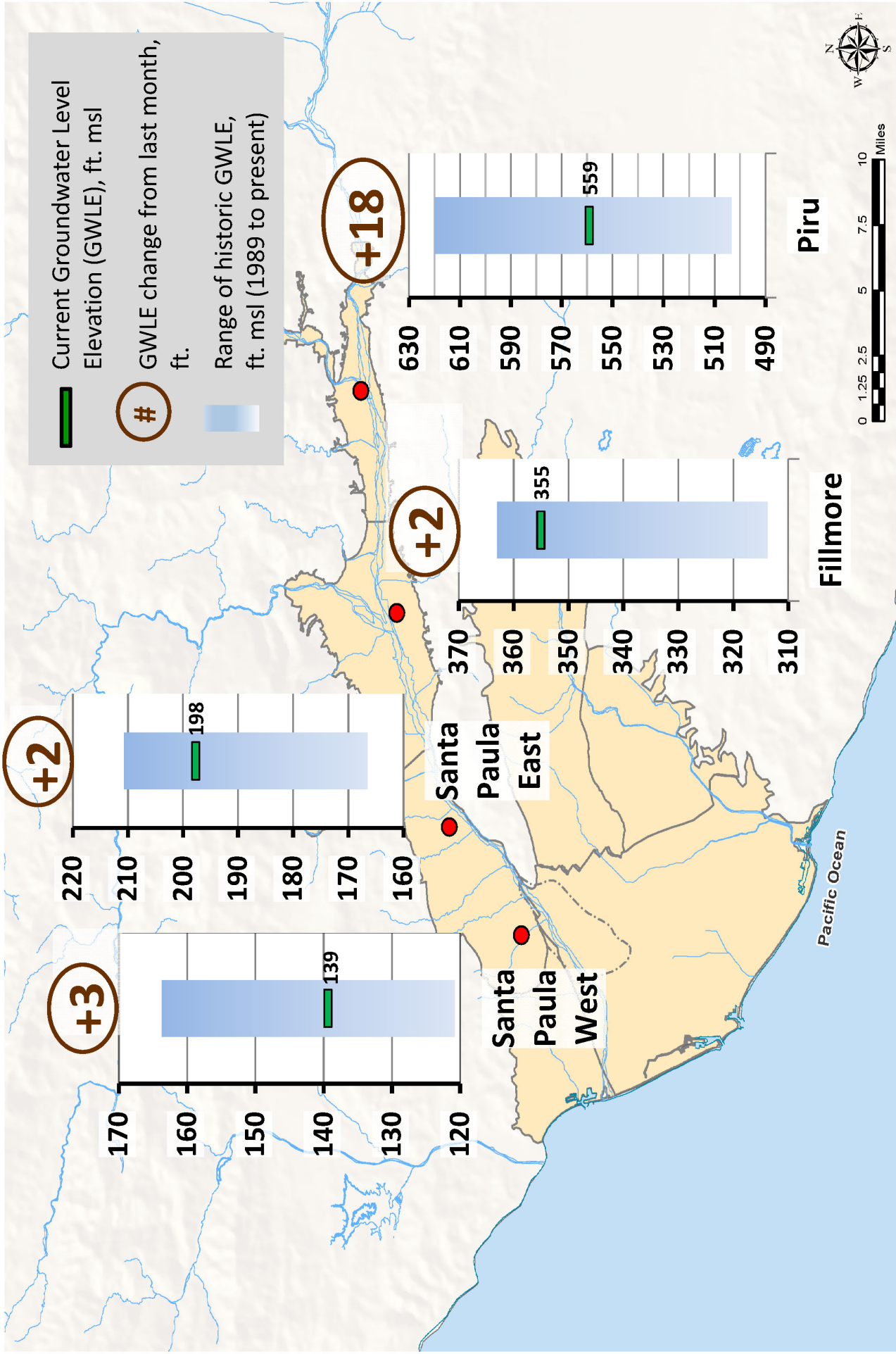


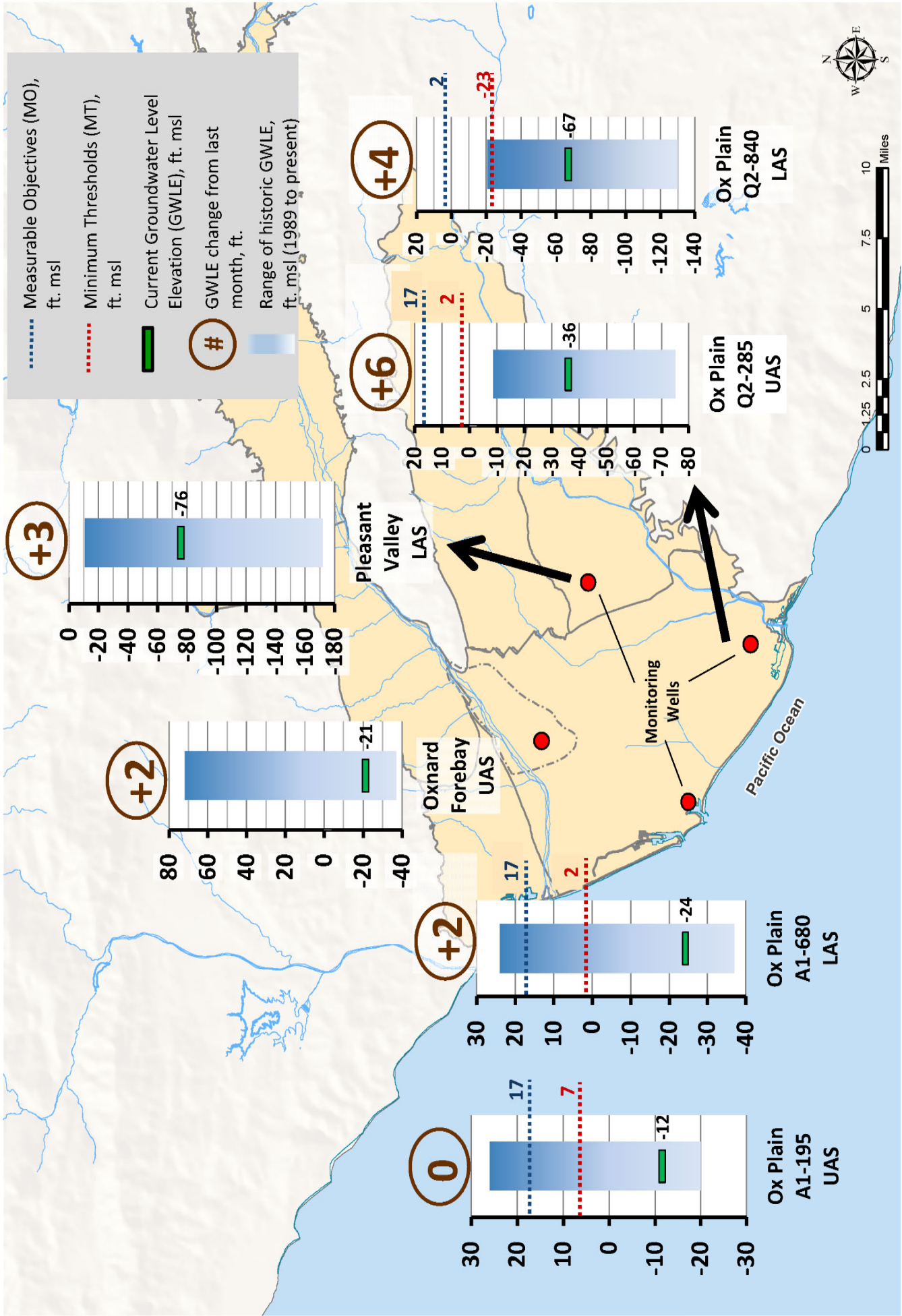
Water Quality



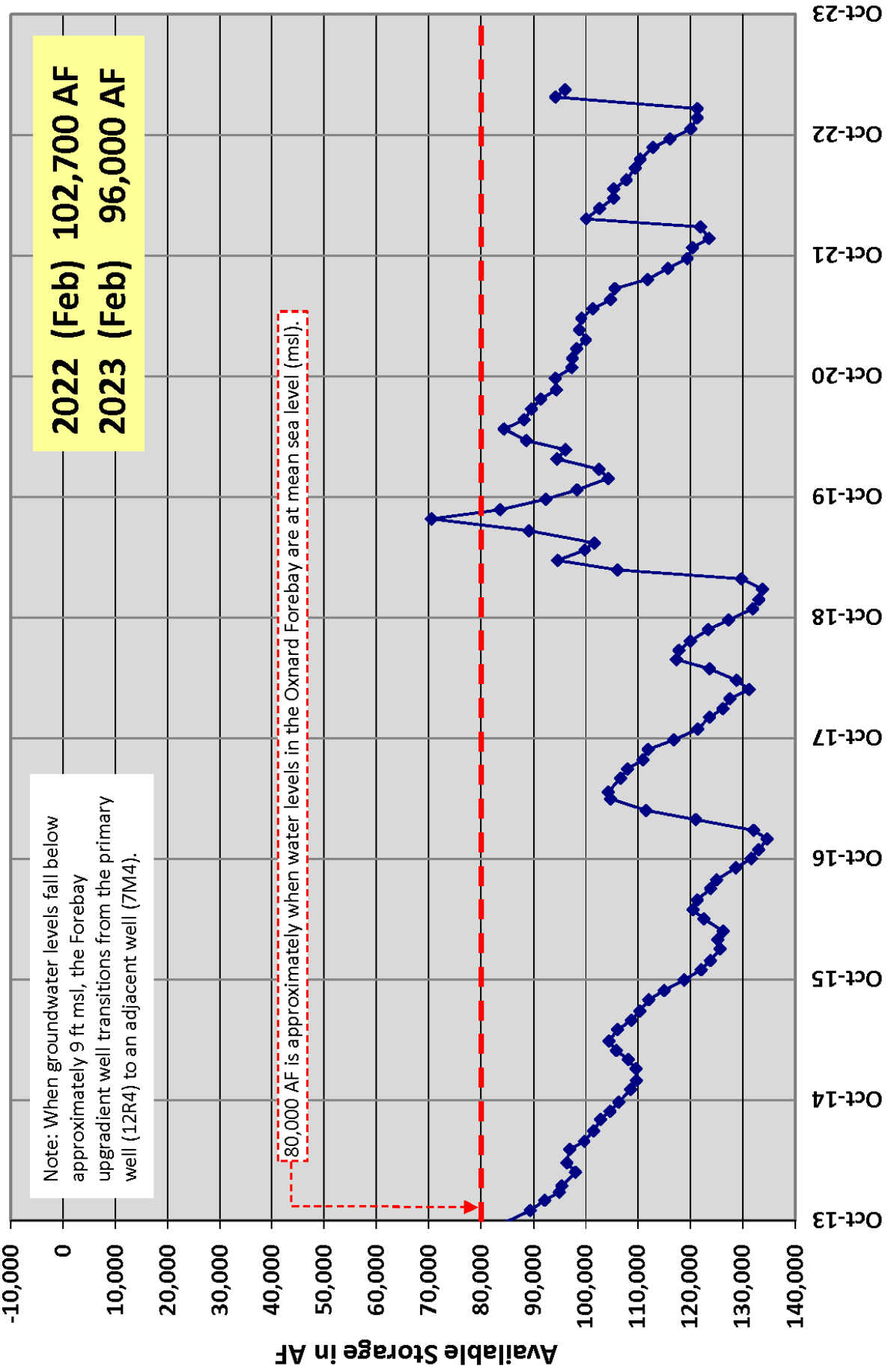
Water Quality

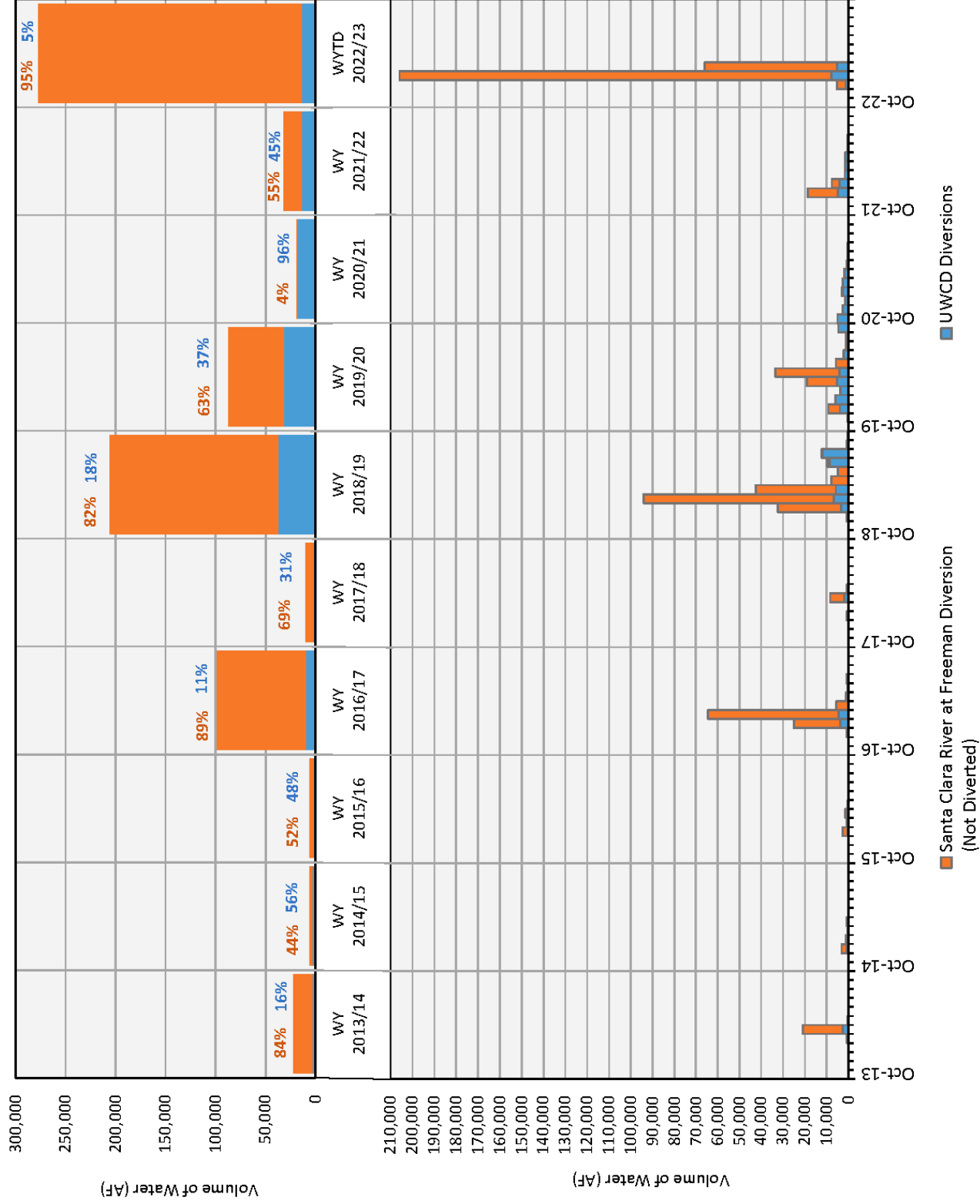






Available Storage in the Oxnard Forebay - Last 10 Years





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