

STEPHANIE OSLER HASTINGS (SBN 186716)
JESSICA L. DIAZ (SBN 302999)
BROWNSTEIN HYATT FARBER SCHRECK, LLP
1021 Anacapa Street, Second Floor
Santa Barbara, CA 93101
Telephone: (805) 963-7000
Fax: (805) 965-4333

Attorneys for
SANTA PAULA BASIN PUMPERS ASSOCIATION

SUPERIOR COURT OF THE STATE OF CALIFORNIA
FOR THE COUNTY OF VENTURA

UNITED WATER CONSERVATION
DISTRICT,

Plaintiff,

v.

CITY OF SAN BUENAVENTURA and
DOES 1 through 1,000, inclusive,

Defendant.

LIMONEIRA COMPANY, ALTA
MUTUAL WATER COMPANY, et al.,

Intervenors.

CITY OF SAN BUENAVENTURA,

Cross-Complainant,

v.

LIMONEIRA COMPANY, ALTA
MUTUAL WATER COMPANY, et al.,

Cross-Defendants.

Case No. CIV115611

Assigned for All Purposes to the
Honorable Mark Borrell

Dept.: 40

**NOTICE OF SUBMISSION OF THE
SANTA PAULA BASIN 2023 ANNUAL
REPORT**

Pursuant to the Court's May 11, 2004 order and its continuing jurisdiction over the management of the Santa Paula Groundwater Basin ("Basin"), as set forth in Section 18 of the judgment issued in this case, as amended on August 24, 2010 ("Judgment"), the Santa Paula Basin Pumpers Association ("Association"), on behalf of the Santa Paula Basin Technical Advisory Committee ("TAC"), hereby submits the 2023 Santa Paula Basin Annual Report ("2023 Annual Report"). A true and correct copy of the 2023 Annual Report is attached to the Declaration of Jessica Diaz, filed concurrently herewith.

The TAC, which was established pursuant to Section 3 of the Judgment, is comprised of representatives from United Water Conservation District, the City of Buenaventura, and the Association. The TAC is responsible for monitoring and studying conditions in the Basin.

As part of its monitoring responsibilities, the TAC periodically performs studies on the Basin's hydrogeologic conditions and other management matters and prepares an annual report for submission to the Court. The TAC's 2023 Annual Report sets forth the technical data concerning the Basin for Calendar Year 2023 and Water Year 2023.

The TAC is available to answer any questions posed by the Court with respect to the 2023 Annual Report or to attend a case management conference, if instructed to do so by the Court.

Dated: April 1, 2025

BROWNSTEIN HYATT FARBER SCHRECK, LLP

By:


STEPHANIE OSLER HASTINGS
JESSICA L. DIAZ
Attorneys for
SANTA PAULA BASIN PUMPERS
ASSOCIATION

DECLARATION OF JESSICA L. DIAZ

I, Jessica Diaz, hereby declare as follows:

1. I am an attorney licensed to practice law before the courts of the state of California. I am a shareholder with Brownstein Hyatt Farber Schreck LLP, counsel of record for the Santa Paula Basin Pumpers Association. I have personal knowledge of the following, and, if called as a witness, I would and could testify competently thereto:

2. A true and correct copy of the *2023 Santa Paula Basin Annual Report* ("Annual Report") is attached hereto as Exhibit "A."

3. The Annual Report was prepared by the United Water Conservation District on behalf of the Santa Paula Basin Technical Advisory Committee. By email dated March 28, 2025 Kathleen Kuepper of the United Water Conservation District transmitted the Annual Report to me.

4. The Annual Report is hereby filed with the Court in accordance with Section 4 of the August 24, 2010 Amended And Restated Judgment in Ventura County Superior Court Case No. 115611, and Paragraph 4 of the Court's preceding May 11, 2004 order therein.

I declare under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct. Executed on April 1, 2025 at Santa Barbara, California.


JESSICA L. DIAZ



2023 SANTA PAULA BASIN ANNUAL REPORT

United Water Conservation District
Professional Paper 2025-01
March 2025



PREPARED FOR:

SANTA PAULA BASIN TECHNICAL ADVISORY COMMITTEE

Cover photo: View of orchards near Telegraph Rd in Santa Paula basin (photo taken by Kathleen Kuepper 2025).

2023 SANTA PAULA BASIN ANNUAL REPORT

(UWCD PROFESSIONAL PAPER 2025-01)

FOREWORD

In March 1996, the Superior Court of the State of California for the County of Ventura entered a stipulated judgment to establish pumping allocations and establish a management plan for the Santa Paula groundwater basin (*United Water Conservation District vs. City of San Buenaventura*, original March 7, 1996, amended August 24, 2010 [hereinafter “Judgment”]). Members of the Santa Paula Basin Pumpers Association (SPBPA) and the City of San Buenaventura exercise rights to pump groundwater from the basin for reasonable and beneficial uses. United Water Conservation District (UWCD, or United) does not produce groundwater from the basin, but the basin is located within United’s service area and United is authorized to engage in groundwater management and replenishment activities and to commence actions to protect the water supplies which are of common benefit to the lands within the UWCD or its inhabitants.

The Judgment provides for the creation of a Santa Paula Basin Technical Advisory Committee (TAC) with equal representation from United, the SPBPA, and the City of San Buenaventura. The TAC is charged with establishing a program to “monitor conditions in the basin, including but not necessarily limited to verification of future pumping amounts, measurements of groundwater levels, estimates of inflow to and outflow from the basin, increases and decreases in groundwater storage, and analyses of groundwater quality.” The Judgment also allows for the development of a management plan for the operation of the basin and empowers the TAC to determine the safe yield of the basin.

The Judgment requires annual reports summarizing results of the monitoring program, and further specifically provides that “United Water Conservation District shall have the primary responsibility for collecting, collating, and verifying the data required under the monitoring program, and shall present the results thereof in annual reports to the Technical Advisory Committee.” United submits the draft annual reports to the TAC members for review, comment, and approval. The primary groundwater management objective in the Santa Paula basin is to ensure that production from the basin does not exceed the long-term safe yield of groundwater for current and anticipated future uses (i.e., municipal, domestic, agricultural, and industrial). The TAC’s specialty studies and annual reports provide data and analysis intended to support this objective.

In 2010 the Judgment was amended to join various pumpers that were not previously included as parties to the settlement, and to clarify certain provisions pertaining to shortage conditions, the responsibilities of the SPBPA and groundwater production by its members, and water-rights transfer procedures. Also in 2010, a Santa Paula Basin TAC Working Group was established consisting of

technical experts from United, the SPBPA, and the City of San Buenaventura. Since its formation, the Working Group has completed a series of specialty studies to better understand the factors that affect safe yield in the Santa Paula basin, including a revised safe-yield study in 2017. In addition, the Working Group will continue to conduct future studies to complement the 2017 Safe-Yield Study, as requested by the TAC. The Working Group prepared a preliminary evaluation of metrics (“triggers”) that was intended to assess whether and to what extent the basin might be negatively affected by future pumping and considered options to enhance safe yield of the basin. However, the analysis has been suspended as the group considers transitioning to using United’s model for further evaluation of basin conditions.

In 2014, legislation (AB 1739, SB 1168 and SB 1319) was enacted by the State of California requiring every groundwater basin in California to be managed sustainably by the year 2042. These three bills are collectively known as the Sustainable Groundwater Management Act (SGMA). Groundwater basins that have had their water rights adjudicated, such as the Santa Paula basin, are exempt from some SGMA requirements but do have new requirements to report basin conditions to the California Department of Water Resources (DWR) annually. The data presented in this Annual Report will be submitted to DWR (using their online reporting tool) as required to meet the SGMA requirements for adjudicated basins.

2023 SANTA PAULA BASIN ANNUAL REPORT

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2023 SANTA PAULA BASIN ANNUAL REPORT

(UWCD PROFESSIONAL PAPER 2025-01)

INTRODUCTION

This is the twenty-seventh annual report presenting key climatic, hydrologic, and hydrogeologic data to support management of groundwater resources in the Santa Paula basin. Relevant geographic features in and near the Santa Paula basin are shown on Figure 1. Data for calendar-year (CY) and water-year (WY) 2023 (the reporting period) are included in this report. This annual report provides the Santa Paula Basin Technical Advisory Committee (TAC)—which consists of representatives from United Water Conservation District (UWCD or United), the City of San Buenaventura (Ventura), and the Santa Paula Basin Pumpers Association (SPBPA)—with monitoring results and other data to be used for management of the basin in accordance with the 1996 Santa Paula basin stipulated judgment by the Superior Court of the State of California for the County of Ventura (*United Water Conservation District vs. City of San Buenaventura*, original March 7, 1996, amended August 24, 2010 [hereinafter “Judgment”]) and with requirements for adjudicated-basin reporting under the Sustainable Groundwater Management Act (SGMA). This report summarizes annual precipitation, streamflow, surface water quality, production well installations and destructions, groundwater extractions and pumping allocations, groundwater levels, change in groundwater storage, and groundwater quality data obtained for the Santa Paula basin during the reporting period. Sources of the monitoring data and methods of their collection are unchanged from those described in the 2020 Santa Paula Basin Annual Report (UWCD, 2022); refer to that document for details regarding data sources and methods.

DATA SUMMARY AND EVALUATION

Key hydrologic indicators for Santa Paula basin during the reporting period are summarized and compared to long-term averages in Table 1, below. More detailed information regarding conditions in Santa Paula basin during the reporting period are provided in the following subsections.

Table 1. Key Hydrologic Indicators in Santa Paula Basin

Hydrologic Indicator	2023	Average During Period of Record	Median During Period of Record	Period of Record
Water-Year ^a Precipitation at Santa Paula (Wilson Ranch) ^b (inches)	38.19	17.18	14.89	1890 through 2023
Calendar-Year Precipitation at Santa Paula (Wilson Ranch) ^b (inches)	37.48	17.03	15.43	1890 through 2023
Water-Year Discharge in Santa Clara River at Freeman Diversion ^b (AF/yr)	672,892	203,753	109,326	1956 through 2023
Water-Year Discharge in Santa Paula Creek at Mupu Bridge ^b (AF/yr)	80,525	18,154	8,184	1928 through 2023
Reported Calendar-Year Groundwater Extractions in Santa Paula Basin (AF/yr)	16,324	24,940	25,595	1980 through 2023
Groundwater Level Index (ft msl)	185.60	180.46	181.61	1983 through 2023
Change in Groundwater Storage from Previous Year (AF)	140 to 1,400	Not applicable	Not applicable	spring 2022 to spring 2023
Notes: ^a A water year (WY) is defined as the period from October 1 of the previous year through September 30 of the year indicated. For example, WY 2023 includes the period from 10/1/2022 through 9/30/2023. ^b Locations and identification numbers for rain and stream gages are indicated on Figure 1.				

PRECIPITATION

Annual precipitation at Saticoy and Santa Paula throughout the period of record is shown on Figures 2 and 3; monthly precipitation at these locations during CY and WY 2023 is shown on Figure 4. Appendix A (Table A-1) includes a tabulation of monthly precipitation at Santa Paula during the period of record. The rain gauge used to report precipitation data for Santa Paula changed in March 2020. Precipitation was measured by UWCD at their offices in the City of Santa Paula from September 1960 through February 2020. UWCD moved out of their Santa Paula office at the end of February 2020 and starting in March 2020, the rainfall measured and recorded at the “Santa Paula - Wilson Ranch” rain gauge has been used to report rainfall in Santa Paula. Rainfall data for Saticoy was reported

from the Saticoy Fire Station rain gauge from 1957 to 2008 before changing to the Saticoy County Yard in 2009.

Precipitation at the Santa Paula-Wilson Ranch rain gauge during WY 2023 was 38.19 inches, which is more than double the average annual precipitation rate for WYs 1890 to 2023. Precipitation at the Santa Paula-Wilson Ranch rain gauge during CY 2023 was slightly lower, with 37.48 inches recorded. The majority of the precipitation was received between December 2022 and March 2023, accounting for approximately 85% of the annual WY precipitation (Figure 4). Tropical storm Hilary also brought notable rainfall to the region in August, with two to four inches of rain recorded in Saticoy and Santa Paula.

SURFACE WATER FLOWS

Annual discharge in the Santa Clara River (at Freeman Diversion) and Santa Paula Creek (near Santa Paula) throughout the period of record is shown on Figures 5 and 6; daily streamflow at these locations during CY and WY 2023 is shown on Figure 7. Appendix A (Tables A-2 and A-3) provides annual total discharge in the Santa Clara River and Santa Paula Creek during the period of record. Annual discharge during WY 2023 in the Santa Clara River at Freeman Diversion was over three times the long-term average volume, and discharge in Santa Paula Creek near Santa Paula was over four times the average.

SURFACE WATER QUALITY

Minimum, maximum, and average concentrations of selected major water quality constituents (chloride, nitrate, total dissolved solids [TDS], and sulfate) detected in surface water samples from the Santa Clara River at Freeman Diversion during CY 2023 are summarized in Table 2, below. Concentrations of these constituents detected throughout the period of record are shown on Figure 8. Table 2 indicates that average concentrations of constituents detected in the Santa Clara River during CY 2023 were less than the long-term average concentrations, except for nitrate. Lower concentrations of chloride, TDS, and sulfate in 2023 are consistent with historical patterns during high-rainfall years.

Table 2. Summary of Major Surface Water Quality Parameters in Santa Clara River at Freeman Diversion, CY 2023

Statistic	Concentration, milligrams per liter (mg/L)			
	Chloride	Nitrate ^a	TDS	Sulfate
CY 2023 Minimum	7	1.8	220	89
CY 2023 Maximum	73	15.5	1,200	508
CY 2023 Average	46	8.0	846	352
Long-Term Average ^b	65	6.0	1,141	528
Notes:				
^a As nitrate (NO ₃)				
^b Includes reported data in United's database from the entire period of record, beginning in CY 1925 for chloride, TDS, and sulfate; beginning in CY 1936 for nitrate.				

Minimum, maximum, and average concentrations of selected major water quality constituents (chloride, nitrate, TDS, and sulfate) detected in surface water samples from Santa Paula Creek near Santa Paula during CY 2023 are summarized in Table 3, below (location shown on Figure 1). Concentrations of these constituents detected throughout the period of record are shown on Figure 9. Table 3 indicates that average concentrations of chloride, nitrate, TDS, and sulfate detected in Santa Paula Creek during CY 2023 were lower than long-term average concentrations.

Table 3. Summary of Major Surface Water Quality Parameters in Santa Paula Creek near Santa Paula, CY 2023

Statistic	Concentration (mg/L)			
	Chloride	Nitrate ^a	TDS	Sulfate
CY 2023 Minimum	12	3.5	500	150
CY 2023 Maximum	34	5.6	780	298
CY 2023 Average	22	4.5	635	238
Long-Term Average ^b	46	10.5	862	377
Notes:				
^a As nitrate (NO ₃)				
^b Includes reported data in United's database from the entire period of record: CY 1980 to present for hardness, sulfate and chloride; CY 1981 to present for nitrate.				

PRODUCTION WELL INSTALLATIONS AND DESTRUCTIONS

One production well was destroyed and one new well drilled within the Santa Paula basin during CY 2023, as listed in Table 4, below.

Table 4. Production Well Installations and Destructions During CY 2023

Production Wells Destroyed	Production Wells Drilled
03N21W11H01S	03N21W02Q02S

GROUNDWATER EXTRACTIONS

Annual groundwater extractions (pumping) reported for Santa Paula basin wells throughout the period of record are summarized in Table 5, below, and illustrated on Figure 10. The total volume of reported groundwater extractions in 2023 (16,324 AF) was the lowest reported on record. Review of pumping data available in United's database for each half of the CY 2023 indicates that reported groundwater extractions in the first half of CY 2023, in particular, were below average. Rainfall in the first three months of the year was well above normal (Figure 4), which likely reduced irrigation demand during this period. The pumping rates reported during the last seven years remains below the long-term historical average (CYs 1980 through 2023) of 24,940 AF/yr.

Table 5. Historical Santa Paula Basin Groundwater Extractions

Calendar Year	Groundwater Extractions (AF)	Calendar Year	Groundwater Extractions (AF)	Calendar Year	Groundwater Extractions (AF)
1980	26,820	1996	26,008	2012	25,824
1981	27,545	1997	28,961	2013	26,485
1982	22,925	1998	21,622	2014	27,437
1983	16,710	1999	27,700	2015	25,856
1984	29,455	2000	26,798	2016	25,363
1985	26,533	2001	22,530	2017	21,889
1986	21,617	2002	27,259	2018	22,881
1987	24,852	2003	22,280	2019	17,238
1988	25,370	2004	27,306	2020	21,213
1989	29,362	2005	24,700	2021	21,993
1990	33,453	2006	24,830	2022	22,642
1991	27,056	2007	28,077	2023	16,324
1992	24,355	2008	26,686		
1993	26,998	2009	25,820		
1994	26,244	2010	23,115	Average	24,940
1995	25,042	2011	24,202	Median	25,595
Note: The groundwater extractions shown on this table are based on semi-annual groundwater production statements submitted to United's Finance Department.					

Reported groundwater extractions from the Santa Paula basin during CY 2023 by the City of San Buenaventura, members of the SPBPA, and other pumpers are summarized in Table 6, below. The Judgment governs groundwater production on a seven-year rolling average, which allows parties to produce more or less than their allocation in any particular year so long as their rolling seven-year average does not exceed their allocation. Appendix D summarizes groundwater extractions for the past seven years (CYs 2017 through 2023), as well as Individual Party Allocations (IPAs) for the SPBPA (with transfers, de minimis parties, non-parties) and the City of San Buenaventura.

Table 6. Summary of Groundwater Extractions During CY 2023

Pumper	Extractions (AF)
City of San Buenaventura ^a	2,388
SPBPA Pumpers with Individual Party Allocations (adjusted by SPBPA ^b / reported to United ^c)	13,909.5
Non-stipulated Parties ^b	14
De Minimis Pumpers ^b	12.5
Total extractions (adjusted by SPBPA ^b / reported to United ^c)	16,324
Notes: ^a Includes pumping from well 02N22W03E01S (Appendix D, Table D-5) ^b From Appendix D, compiled by SPBPA ^c From UWCD Finance Department records	

Reported groundwater extractions during CY 2023, together with estimated imports and exports, are summarized by use and source in Table 7 and graphically illustrated on Figure 11. The distribution of groundwater extractions across the basin during CY 2023 is shown on Figure 12.

Table 7. Summary of Groundwater Extractions, Imports, and Exports in Santa Paula Basin, CY 2023

Description	<u>Volume (AF)</u>
Reported groundwater extractions from wells in the Santa Paula basin stipulated area	16,324
Estimated groundwater imports from Fillmore basin (assume 100% of total pumpage from FICO #12 well)	+3,544
Estimated net groundwater imports from Oxnard Forebay basin via the Alta distribution system (reported by Alta)	+565
Estimated Santa Paula basin groundwater exported to Mound basin via the Alta distribution system (reported by Alta)	-40
Estimated Santa Paula basin groundwater exported to Mound basin via the FICO distribution system (reported by FICO)	-556
Estimated net groundwater use in Santa Paula basin (sum of extractions plus imports, less exports)	= 19,837*

** Does not include potential imports/exports by Ventura to/from other supply sources. Specific volumes of groundwater exported from Ventura's wells in Santa Paula basin, and imported from other sources to the Santa Paula basin, are variable and undetermined. However, the net import or export of water by Ventura to/from Santa Paula basin can be assumed to be relatively small compared to the overall water budget.*

GROUNDWATER LEVELS

Groundwater elevations were monitored during the reporting period at selected wells in and adjacent to the Santa Paula basin, shown on Figure 13. Groundwater elevation hydrographs for selected wells are provided in Appendix B. Two hydrographs are included for each well at different scales, as follows:

- The first hydrograph for each well is scaled with a consistent vertical axis range of -60 to 380 feet so that, for most wells, the relationships between static groundwater levels, top and bottom of well screens, and reference points (RPs) at different wells in the basin can be visually compared. The information provided in these hydrographs displays the relationship between the (static) water level variations and the production zones of wells in the basin.
- The second hydrograph for each well is scaled to allow easier comparison of the magnitude of the static groundwater level changes in the wells. The vertical axis range of 80 feet captures the range of water levels on an expanded scale for visual inspection of groundwater level trends and comparison between wells. These plots include annotations regarding the RP and

depth of the screen (which is indicated in parentheses to the right of the well number) at each well.

Groundwater elevation contours for spring and fall of CY 2023 in Santa Paula basin are shown on Figures 14¹ and 15². The contours were interpolated using groundwater elevation data obtained from wells in the Santa Paula basin and in the adjacent, hydraulically-connected Fillmore, Mound, and Oxnard Forebay basins. The contours represent lines of equal groundwater elevation (total hydraulic head), and generally define the water table (in unconfined portions of the aquifer) or potentiometric surface (in confined portions of the aquifer). Most of the groundwater elevations used for contouring were measured at long-screened wells with total depths greater than 100 feet. The screened interval contoured at United's cluster monitor well sites SP-1 and SP-2 are 370-390 feet below ground surface (bgs), and 290-310 feet bgs, respectively. Groundwater elevations measured at shallow versus deep wells are not contoured independently in this annual report.

Groundwater levels in most wells throughout the basin show a seasonal variation in the range of 10 to 20 feet. Longer-term groundwater level trends have been summarized in Santa Paula basin through the use of a "groundwater level index" (GLI). The GLI is calculated as the average of spring-high groundwater elevations measured each year at nine key wells selected for their relatively long record and their geographic distribution across the basin. These data are included in Appendix B. The GLIs for CYs 1983 through 2023 are shown on Figure 16, together with the cumulative departure from average precipitation over the same period at Santa Paula. The CY 2023 GLI is 185.60 feet above mean sea level (ft msl), which is above the previous year's GLI (176.11 ft. msl). The average GLI since 1983, when it was first calculated, is 180.46 ft msl, which is over 5 feet below the 2023 GLI. It can be concluded that water levels rose in 2023.

Calculation of the GLI has been affected since one of the index wells, well 03N22W34R01S, was destroyed in 2017. Due to its location in the western part of Santa Paula basin, well 03N22W34R01S typically had lower groundwater elevations than most of the other index wells. Therefore, the average groundwater elevation for the remaining wells is higher than the average when well 03N22W34R01S was included. This artifact likely accounted for approximately 5 feet of the apparent increase in GLI between 2016 and 2017 (Figure 16). Another key well 02N22W02C01S was destroyed in 2020 and replaced with adjacent well 03N22W35Q01S as a key index well. Wells 2C1 and 35Q1 had similar groundwater levels, therefore the replacement is not thought to cause a significant change in the calculation of the GLI. In 2023, well 03N21W12E04S was replaced with adjacent well 03N21W12E08S because well 12E8 is measured more regularly by United staff. Again, both wells had similar groundwater levels and not thought to cause a significant change in the calculation of the GLI.

¹ Water levels considered impacted by pumping were not used to create contours.

² Water levels considered impacted by pumping were not used to create contours.

CHANGE IN GROUNDWATER STORAGE

Geostatistical analysis of year-over-year changes in spring-high groundwater elevations within the Santa Paula basin indicates that, on average, groundwater levels rose by 10.89 ft across the basin from spring 2022 (see UWCD, 2023) to spring 2023 (Figure 17; Appendix C). This increase is slightly larger than the calculated increase in GLI over the same period (2022-2023) of 9.49 ft. More data points are used for the geostatistical analysis than for the GLI calculation; therefore, the geostatistical analysis likely is more representative of basin wide groundwater-elevation and storage changes from year to year.

The magnitude of the geostatistically-calculated change in storage was based solely on data from wells where groundwater levels were measured both during spring 2022 and spring 2023 in and adjacent to Santa Paula basin. The Kriging method was used to interpolate the estimated groundwater elevation changes across the area of the unconsolidated alluvial deposits in and adjacent to Santa Paula basin. Areas outside of the basin were then “blanked,” removing them from the calculation of average groundwater level change. The area of the unconsolidated alluvial deposits within Santa Paula basin is approximately 13,000 acres, and the average storage coefficient for the aquifer, which is mostly confined, is estimated to be in the range from 0.001 to 0.01. Based on these known data and estimated parameters, the calculated change in groundwater storage within the area of the unconsolidated alluvial deposits between spring 2022 and spring 2023 is an increase of approximately 140 to 1,400 AF, which may be within the margin of error for the method of analysis.

GROUNDWATER QUALITY

Concentrations of selected water-quality constituents (nitrate, chloride, sulfate, and TDS) detected in groundwater samples obtained during CY 2023 and reported to United are summarized in Table 8, below, together with California primary maximum contaminant levels (MCLs), secondary MCL ranges (MCLRs), and water quality objectives specified by the California Regional Water Quality Control Board, Los Angeles region (1994). Maps showing the maximum reported concentrations of these constituents during CY 2023 are provided on Figures 18 through 21. As noted in past annual reports, concentrations of chloride, TDS, and sulfate generally increase from east to west in the basin.

Table 8. Summary of Chloride, Nitrate, TDS, and Sulfate in Groundwater in Santa Paula Basin, CY 2023

Statistic	Concentration (mg/L)			
	Chloride	Nitrate ^a	TDS	Sulfate
CY 2023 Minimum	45	ND	890	351
CY 2023 Maximum	190	41	2,850	1,420
CY 2023 Average	75	7	1,351	602
Long-Term Average ^b	70	10	1,311	545
Primary MCL	none	45	none	none
Secondary MCLR-“Recommended”	250	none	500	250
Secondary MCLR-“Upper”	500	none	1,000	500
Water Quality Objectives East/West of Peck Rd.	100/110	45/45	1,200/2,000	600/800
Notes: ND = not detected MCL = Maximum Contaminant Level MCLR = Maximum Contaminant Level Range ^a As nitrate (NO ₃) ^b Includes reported data in United's database from the entire period of record: CY 1903 to present for chloride, TDS, and sulfate; CY 1923 to present for nitrate.				

Reported concentrations of hardness, alkalinity, iron, and manganese for groundwater samples obtained during CY 2023 are summarized in Table 9, together with the secondary MCLs for iron and manganese, and the micro-irrigation plugging hazard criteria developed by Pitts and Peterson

(undated) and the University of California (2015). Iron and manganese occur naturally in groundwater, and any elevated concentrations detected in the Santa Paula basin are thought to be a result of local geochemical conditions rather than man-made sources (e.g. mining or industrial discharges).

Table 9. Summary of Hardness, Alkalinity, Iron, and Manganese in Groundwater in Santa Paula Basin, CY 2023

Statistic		Concentration (mg/L)			
		Hardness ^a	Alkalinity ^a	Iron	Manganese
CY 2023 Minimum		459	230	ND	ND
CY 2023 Maximum		1,210	370	0.83	0.72
CY 2023 Average		697	285	0.08	0.24
Long-Term Average ^b		649	270	0.15	0.24
Secondary MCL		NA	NA	0.3	0.05
Pitts and Peterson Plugging Hazard Potential	Moderate	150-300	100-200	0.1 - 1.0	0.1 - 1.0
	Severe	>300	>200	>1.0	>1.0
Univ. of Calif. Clogging Potential	Moderate	NA	100	0.2 - 1.5	0.1 - 1.5
	Severe	NA	NA	>1.5	>1.5
Notes: ND = not detected NA = not applicable or not reported > = greater than the value shown ^a As calcium carbonate (CaCO₃). ^b Includes reported data in United's database from the entire period of record: CY 1929 to present for hardness and alkalinity; CY 1937 to present for iron and manganese.					

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- California Regional Water Quality Control Board, Los Angeles Region, 1994, Water Quality Control Plan, Los Angeles Region: Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties.
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- UWCD (United Water Conservation District), 2022, 2020 Santa Paula Basin Annual Report, United Water Conservation District Professional Paper 2022-01, February.
- UWCD (United Water Conservation District), 2023, 2022 Santa Paula Basin Annual Report, United Water Conservation District Professional Paper 2023-01, November.
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(http://micromaintain.ucanr.edu/Prediction/Source/Groundwater/Assessing_Water_Quality_II-50a/)

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FIGURES

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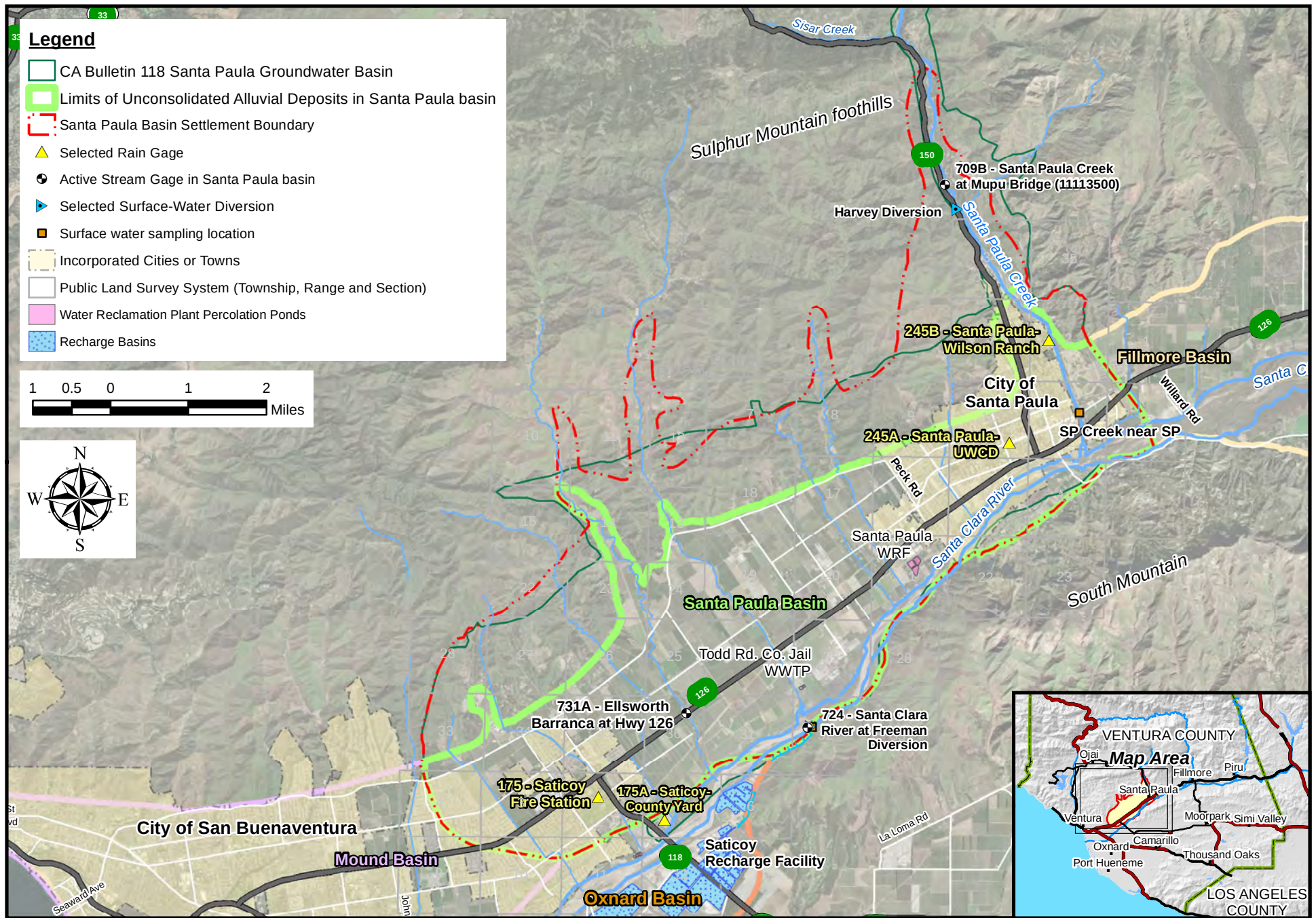


Figure 1. Santa Paula Basin Location Map

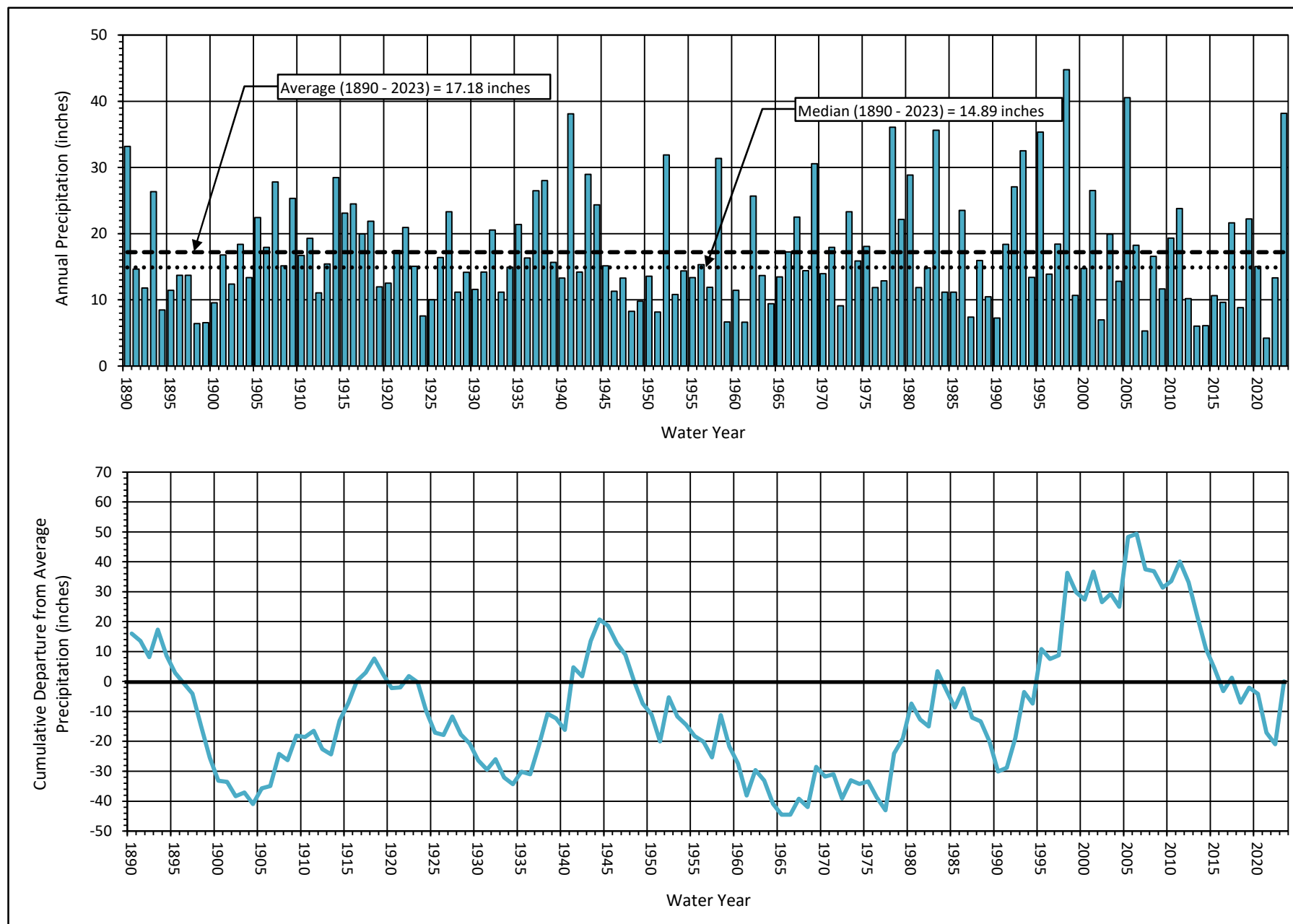


Figure 2. Annual Precipitation at Santa Paula and Cumulative Departure from Average, WYs 1890 through 2023

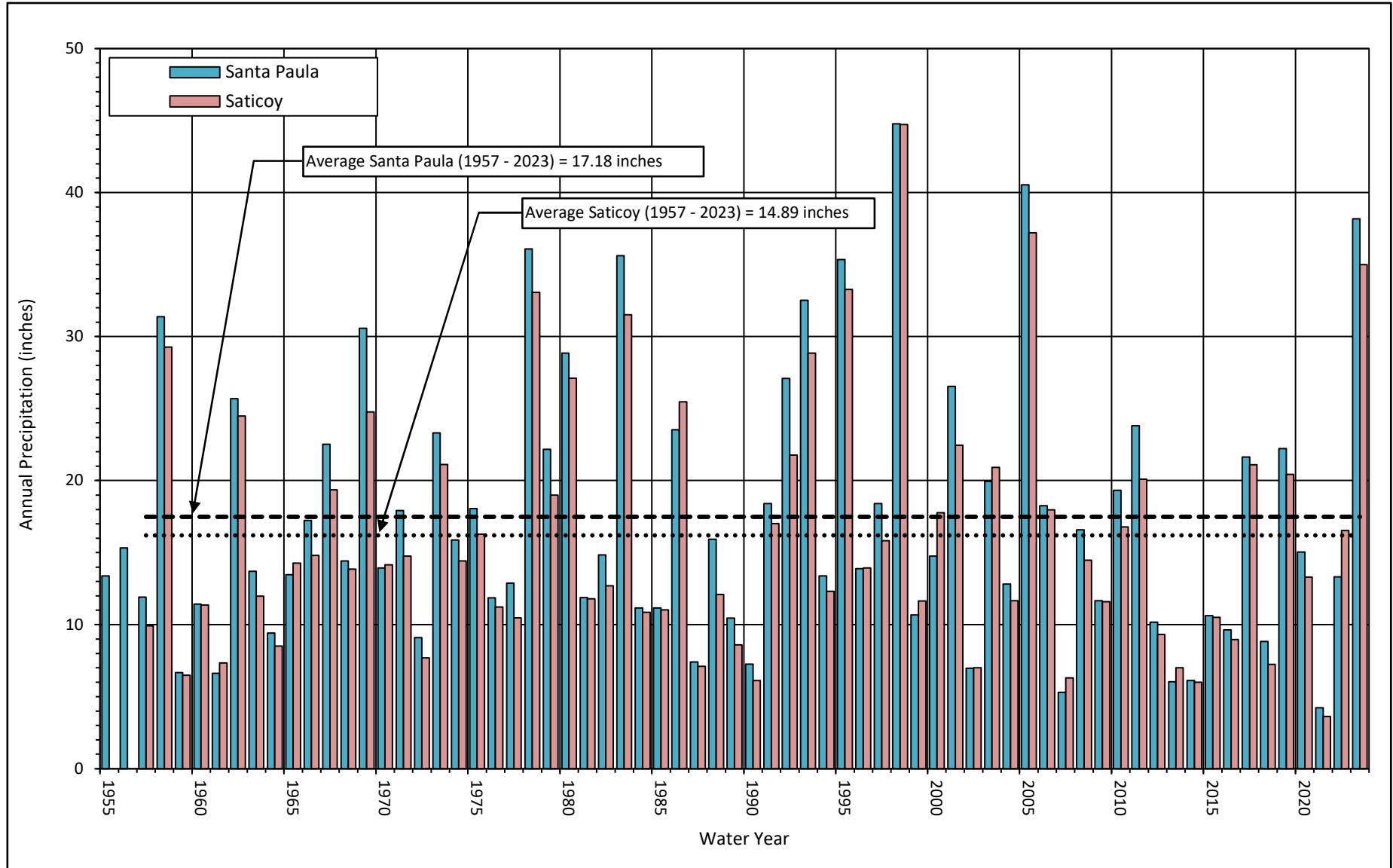


Figure 3. Annual Precipitation at Saticoy and Santa Paula, WYs 1955 through 2023

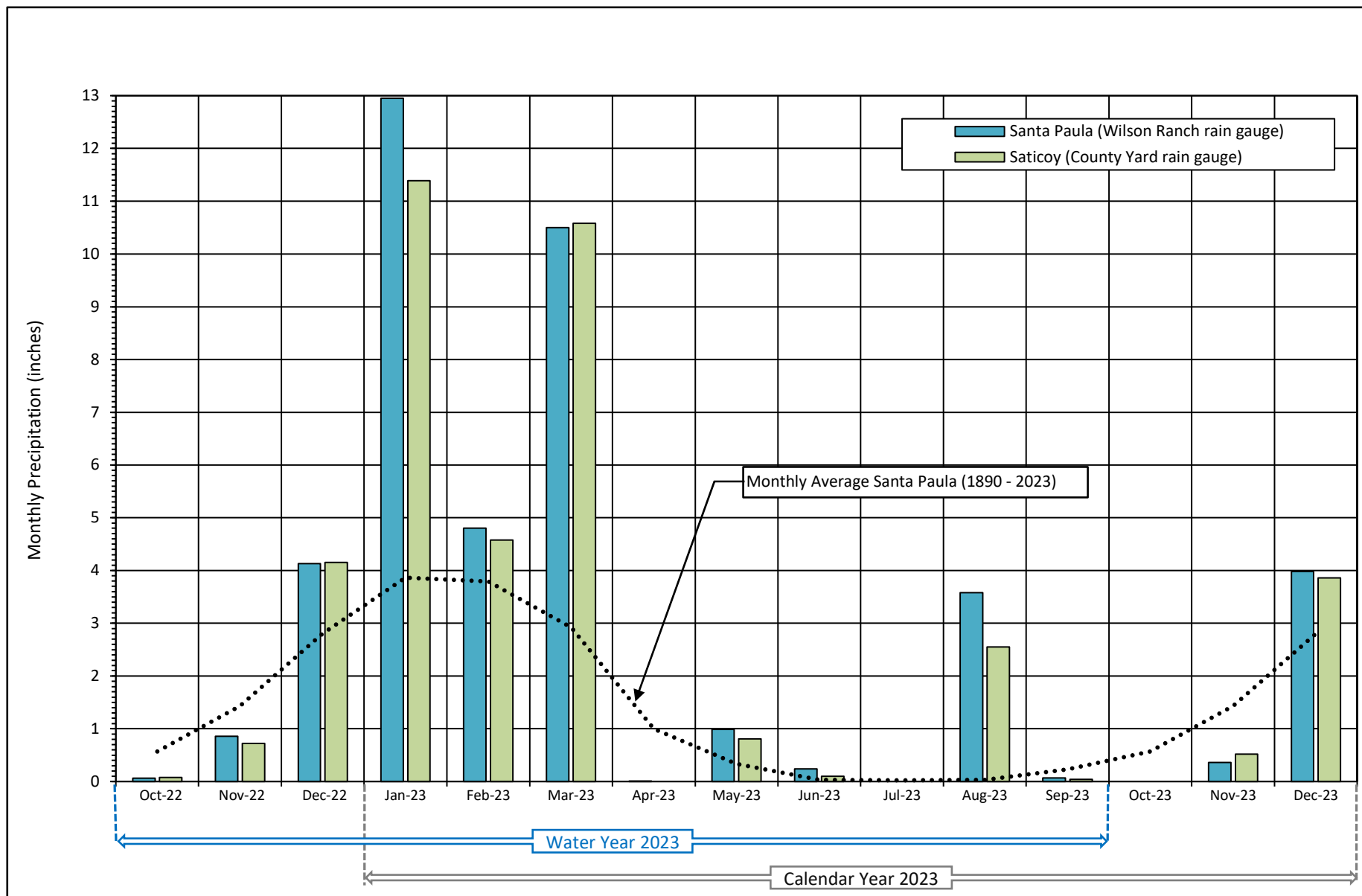


Figure 4. Monthly Precipitation in Santa Paula Basin, WY and CY 2023

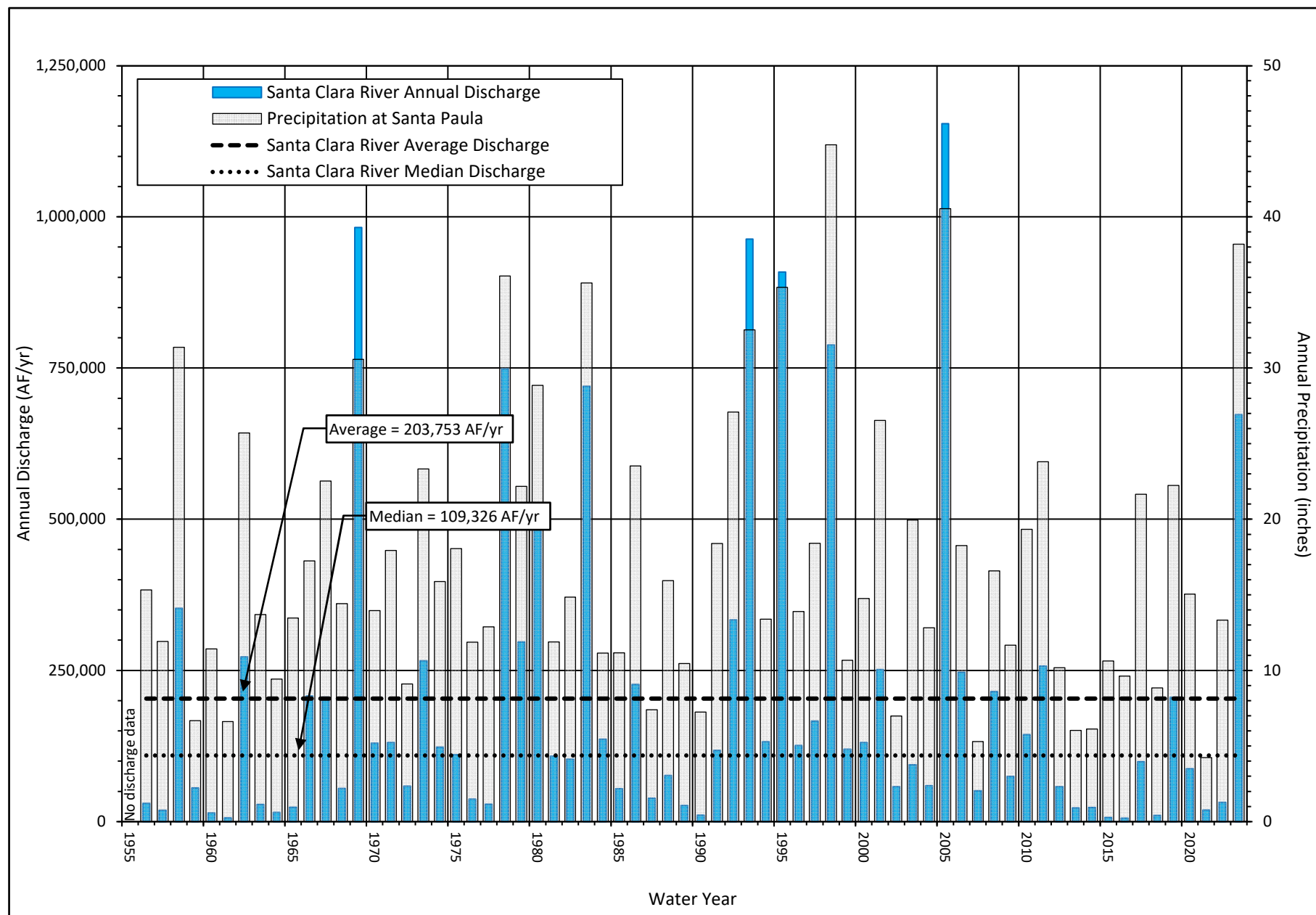


Figure 5. Annual Discharge of Santa Clara River at the Freeman Diversion, WYs 1956 through 2023

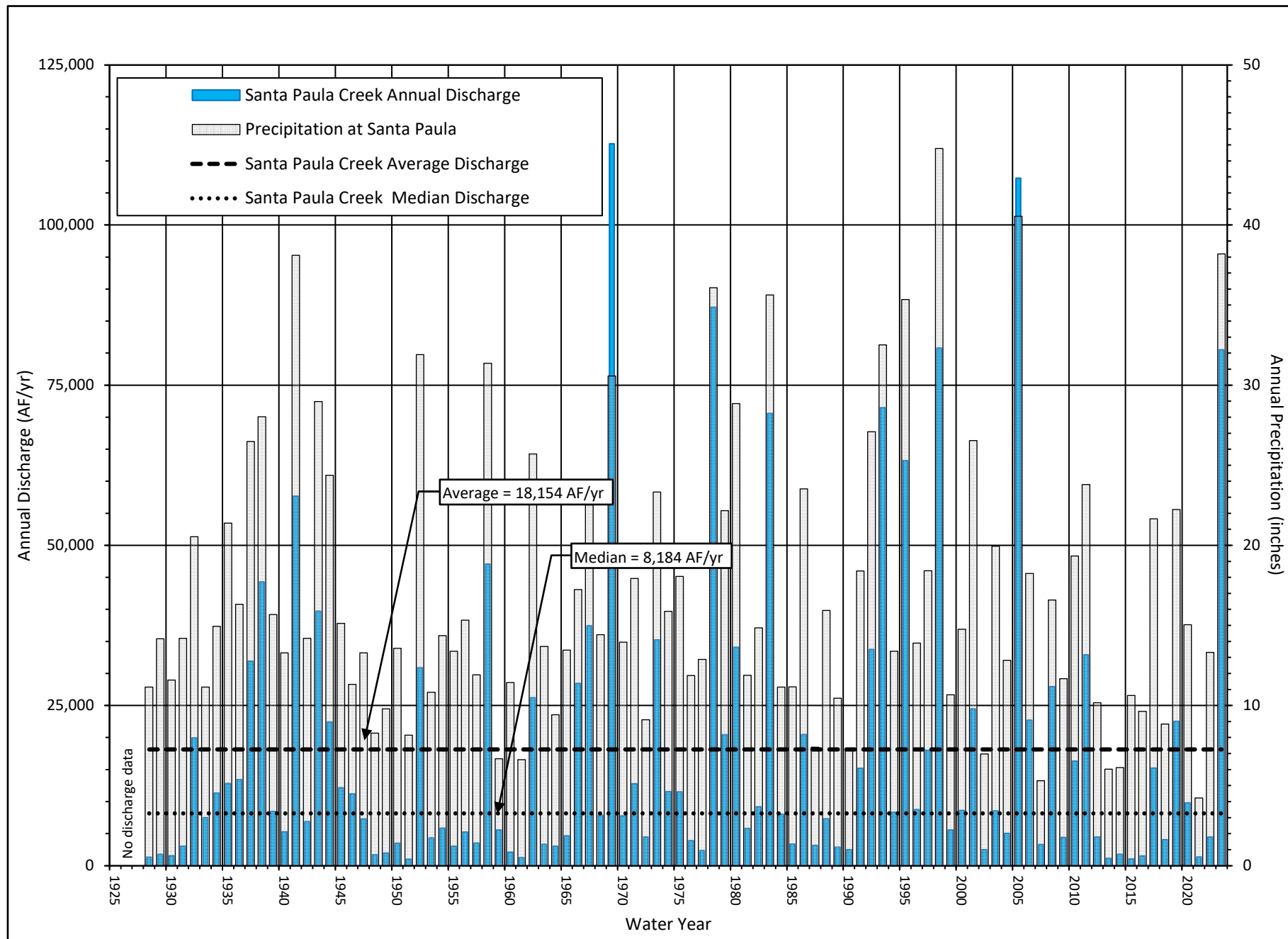


Figure 6. Annual Discharge of Santa Paula Creek Near Santa Paula, WYs 1928 through 2023

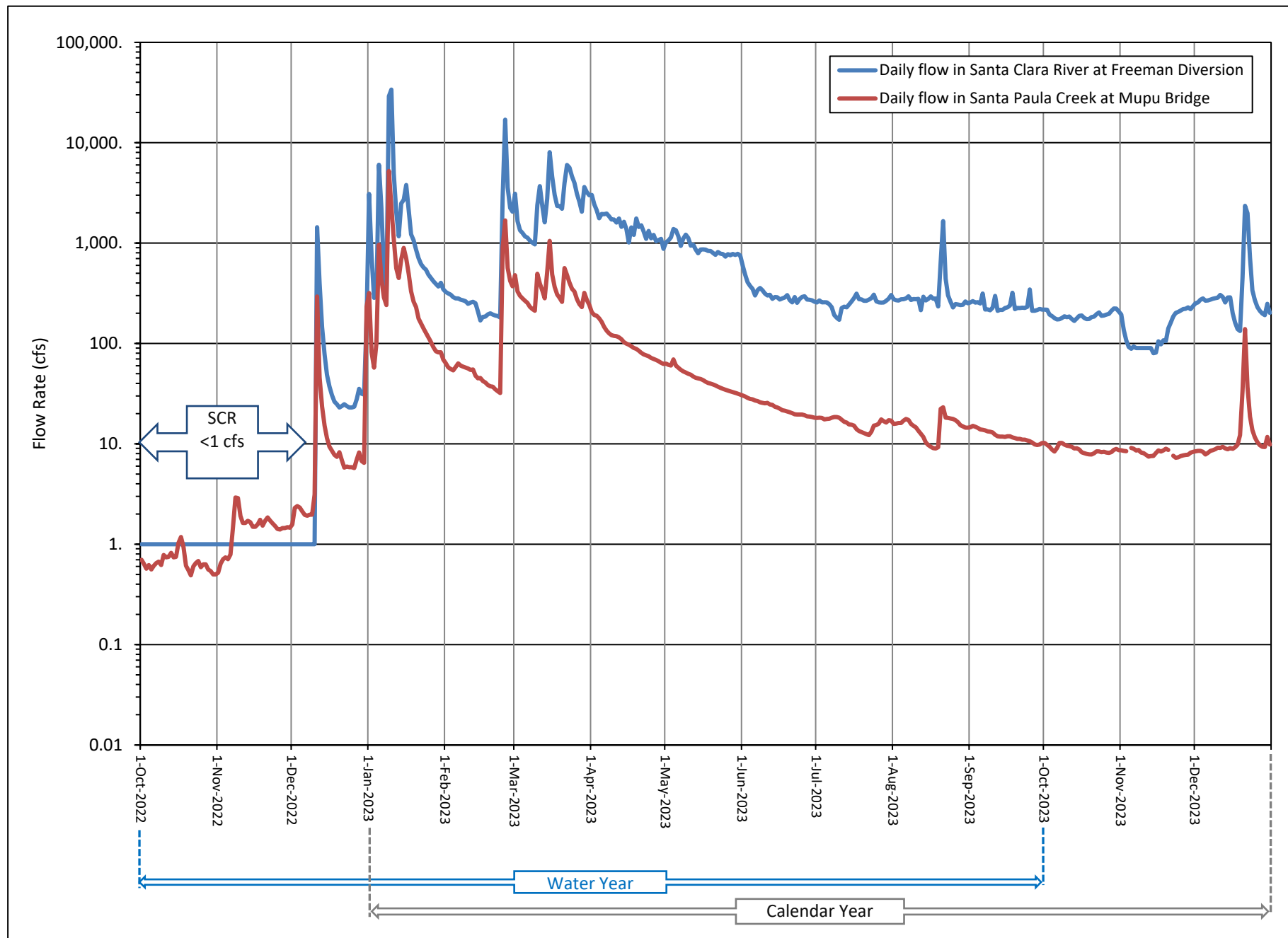


Figure 7. Daily Streamflow in Santa Paula Creek and Santa Clara River, WY and CY 2023

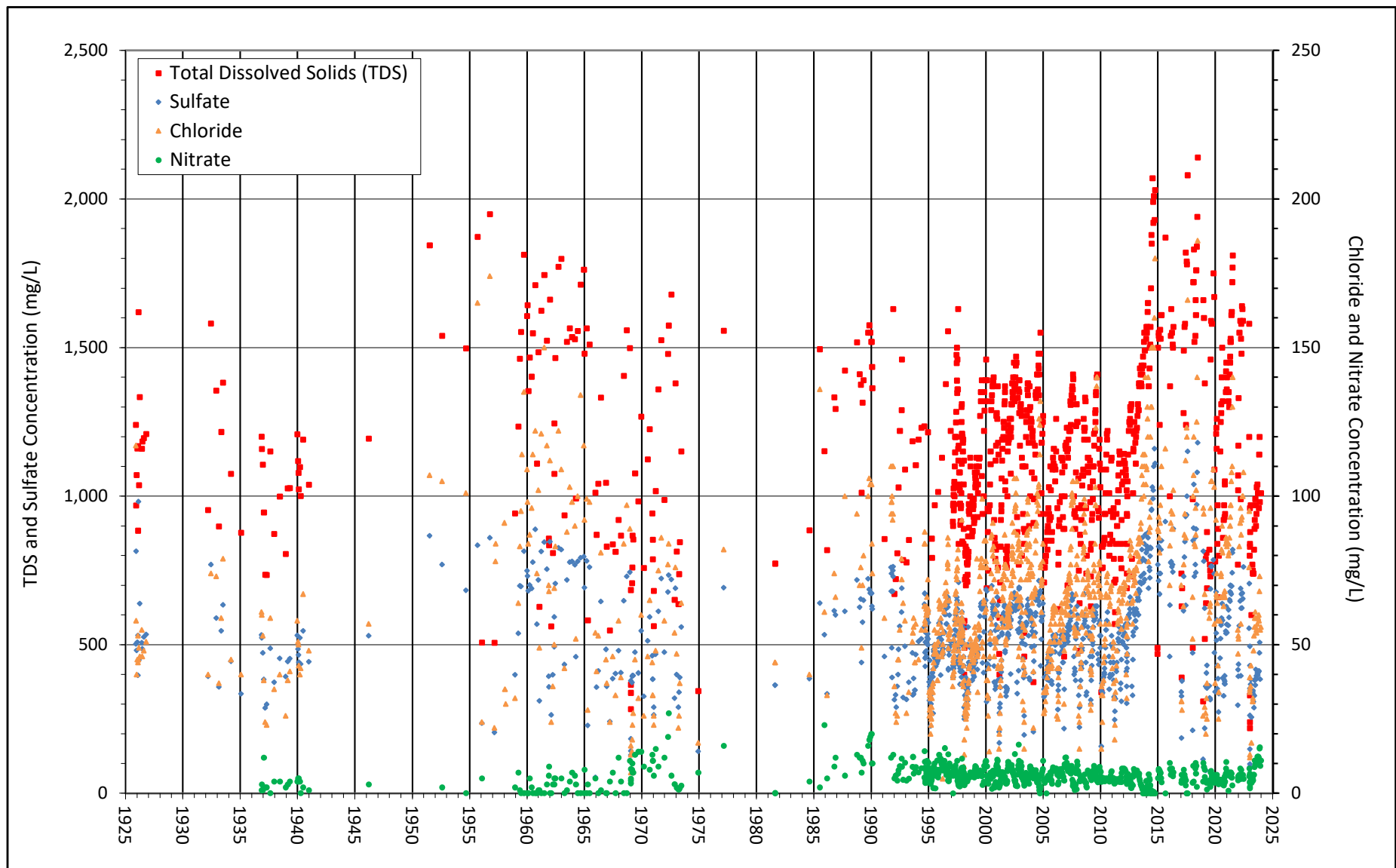


Figure 8. Concentrations of Selected Major Surface Water Quality Parameters in the Santa Clara River at Freeman Diversion, CYs 1925 through 2023

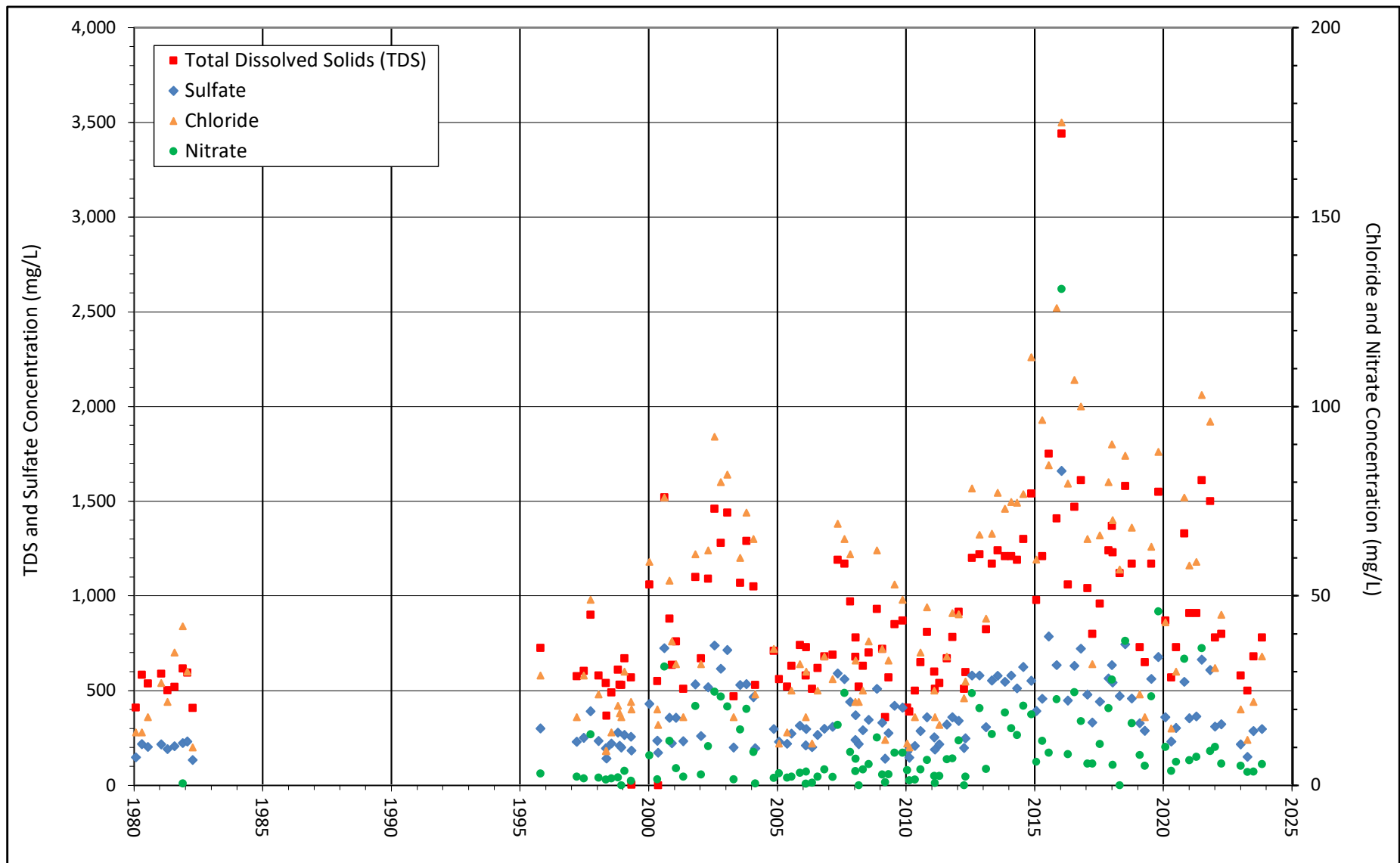


Figure 9. Concentrations of Selected Major Surface Water Quality Parameters in Santa Paula Creek Near Santa Paula, CYs 1980 through 2023

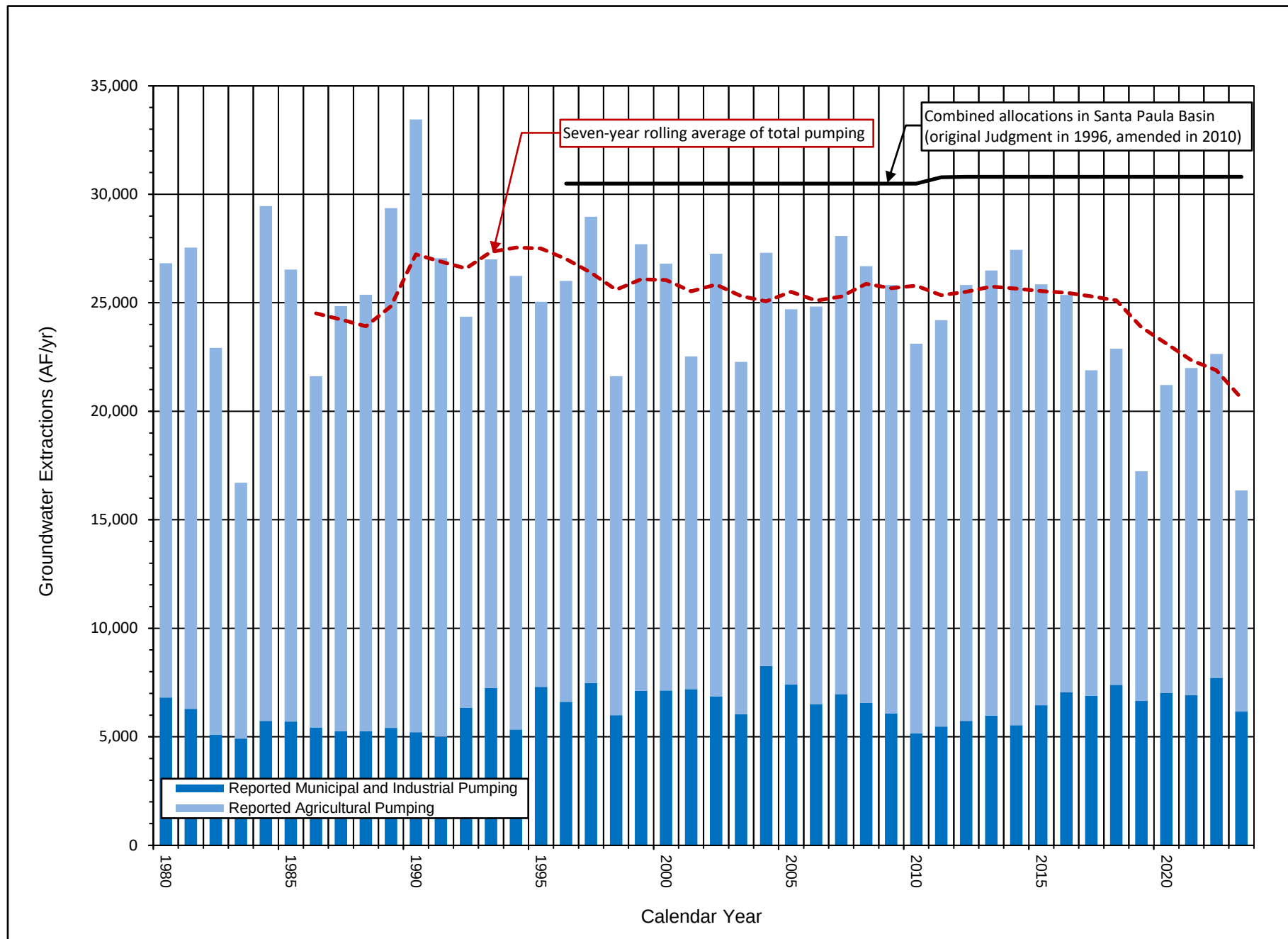
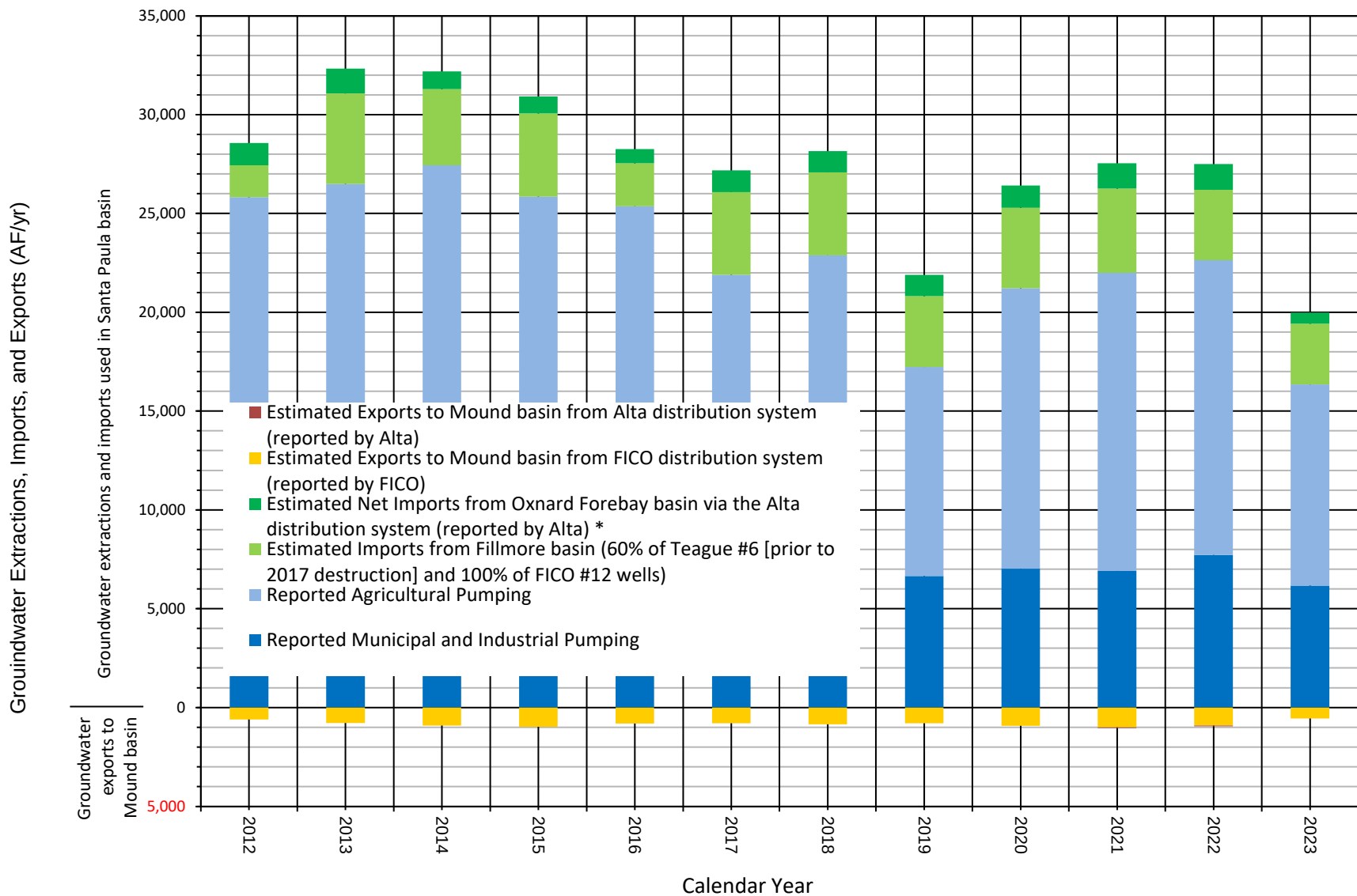


Figure 10. Historical Annual Groundwater Extractions from Santa Paula Basin, CYs 1980 through 2023



* Prior to 2021 reporting, estimated imports from Oxnard Forebay basin via the Alta distribution system was assumed 67% of pumpage from Alta #3, Alta #13 and Alta #11 wells. Alta #3 well was destroyed and replaced with Alta #13 well in 2017. Starting in 2021, data was reported from Alta Mutual Water Company.

Figure 11. Annual Groundwater Extractions, Imports, and Exports from Santa Paula Basin, CYs 2012 through 2023

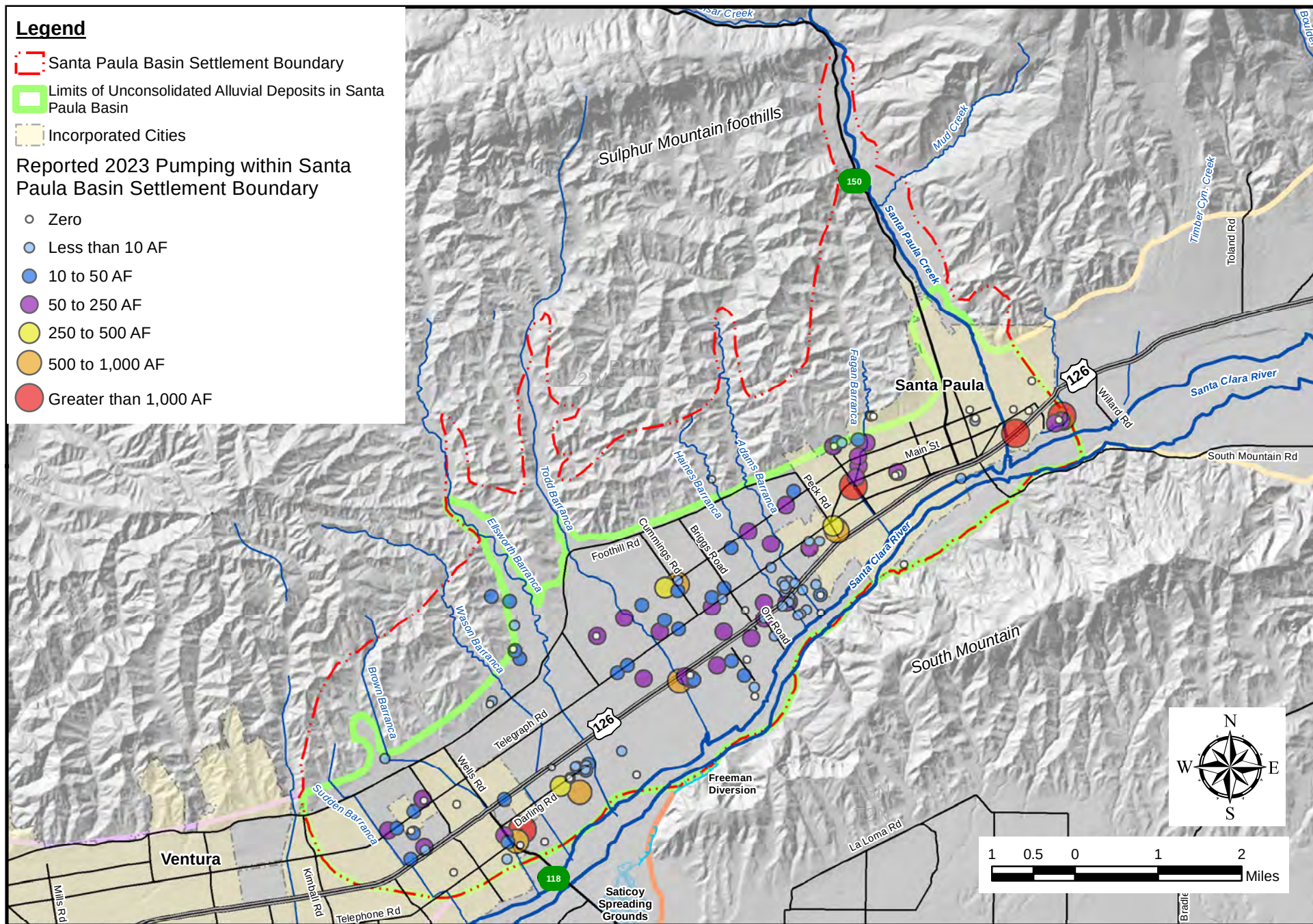


Figure 12. Santa Paula Basin Groundwater Extractions by Well, CY 2023

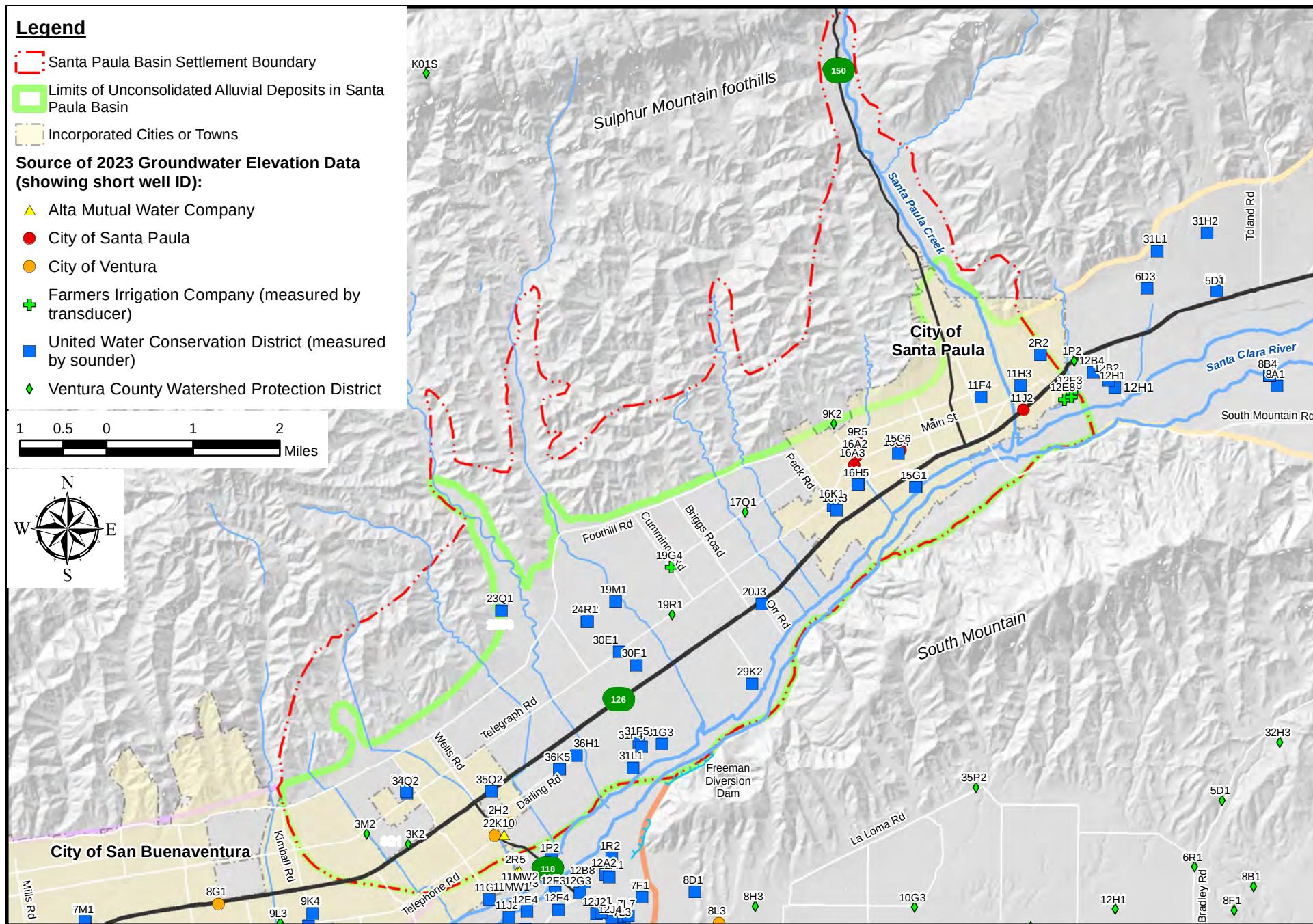


Figure 13. Locations of Wells used to Monitor Groundwater Levels in and Adjacent to Santa Paula Basin

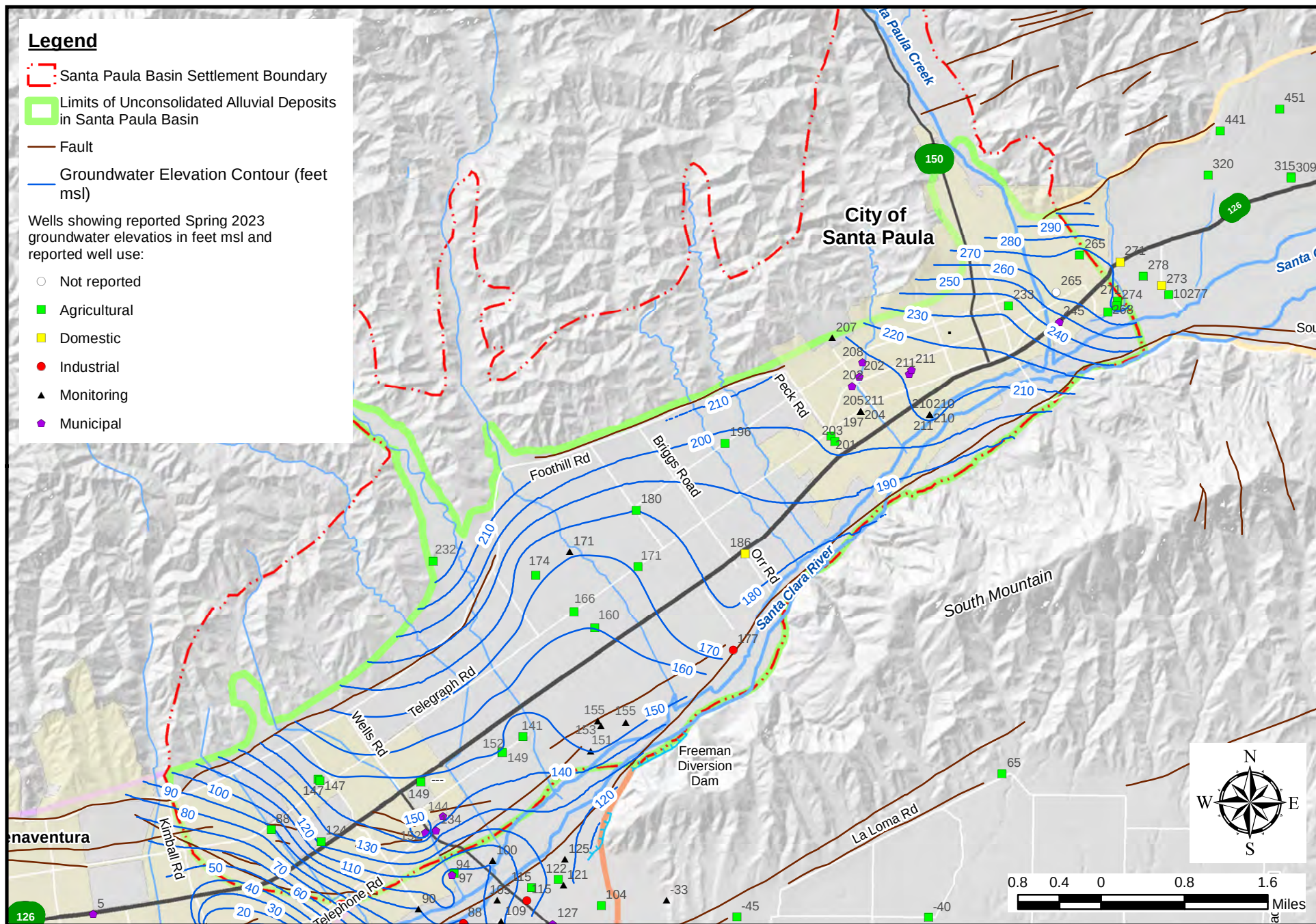


Figure 14. Santa Paula Basin Groundwater Elevation Contours, Spring 2023

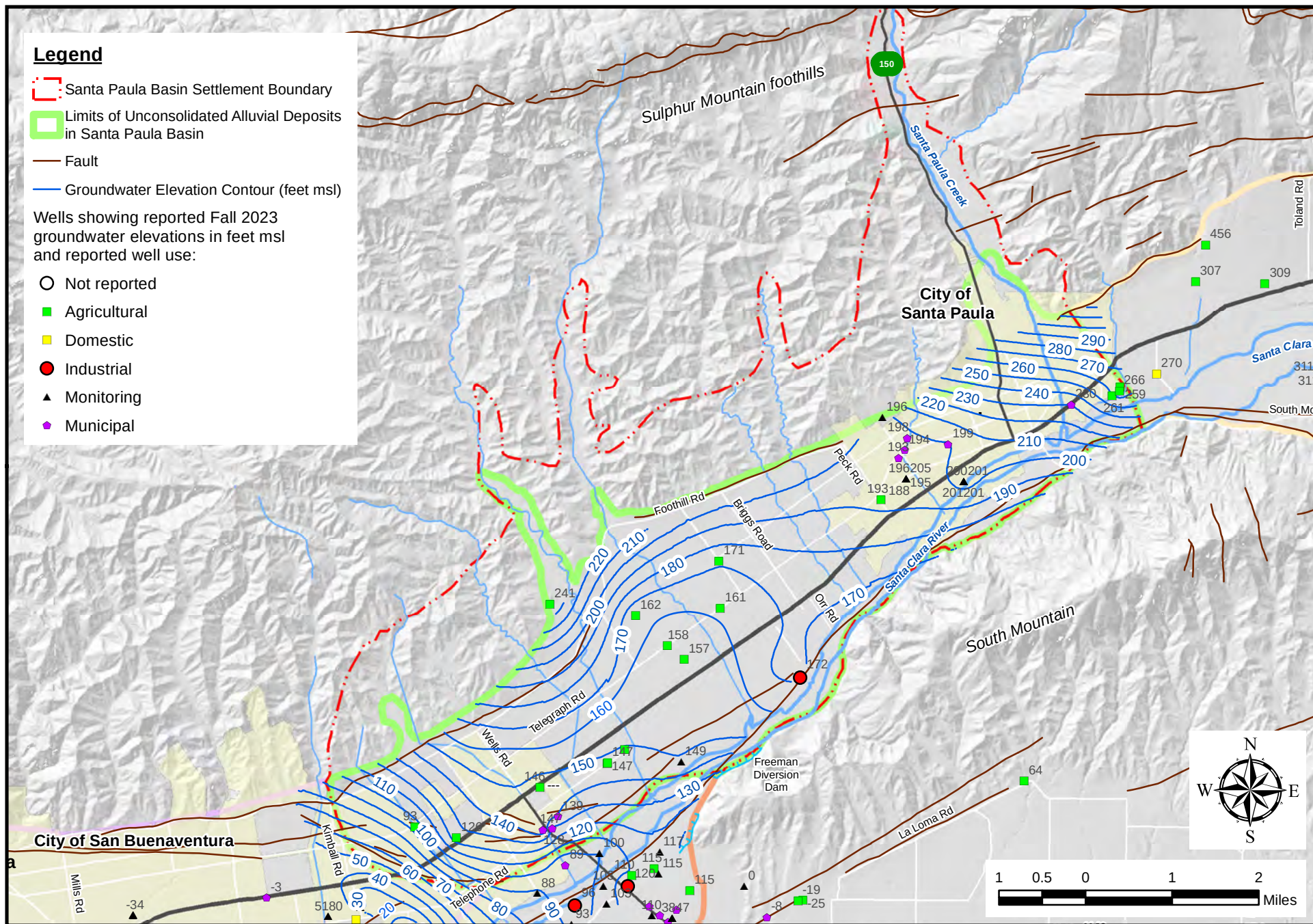


Figure 15. Santa Paula Basin Groundwater Elevation Contours, Fall 2023

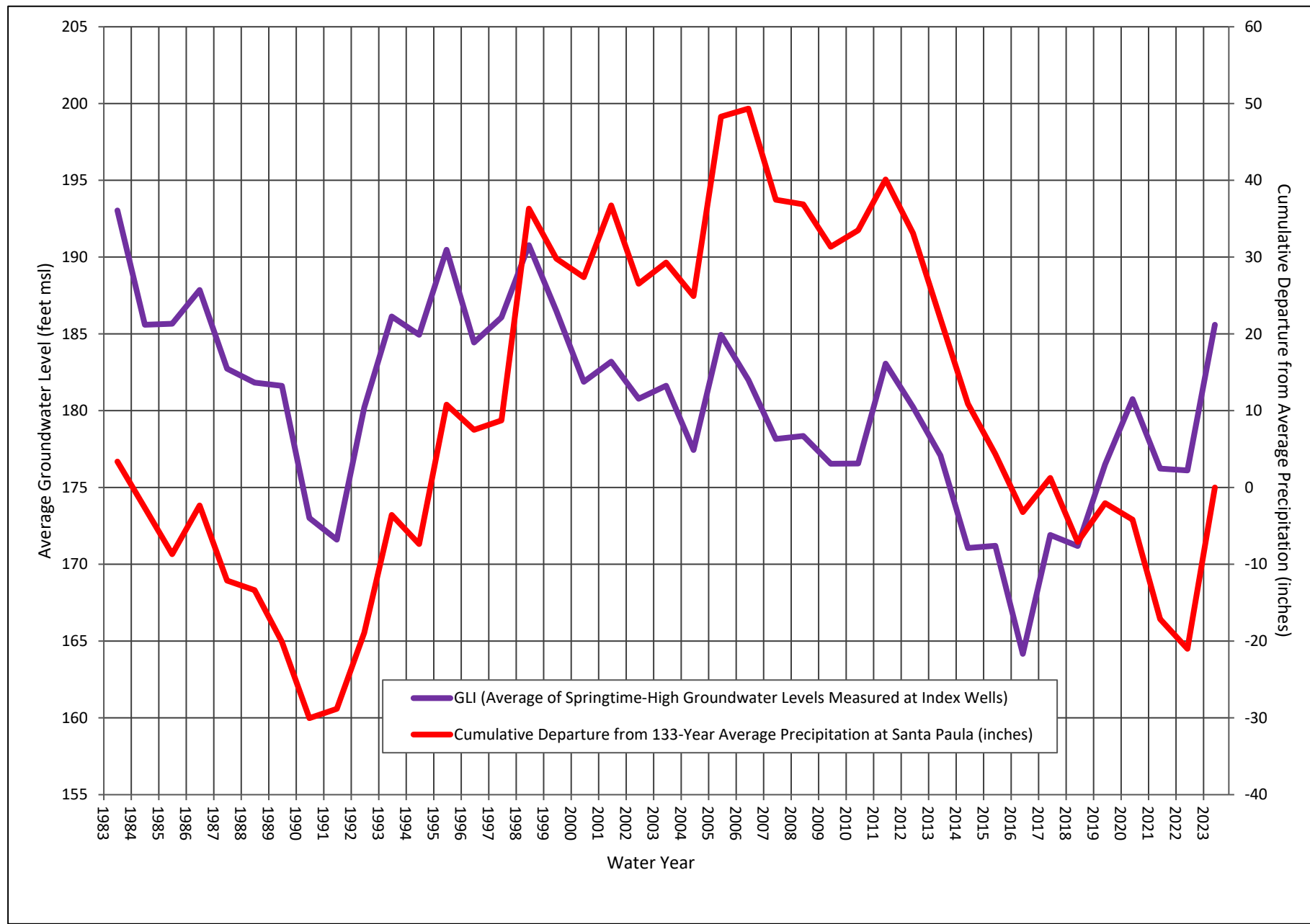


Figure 16. Groundwater Level Index and Cumulative Departure from Average Precipitation in Santa Paula Basin, WYs 1983 through 2023

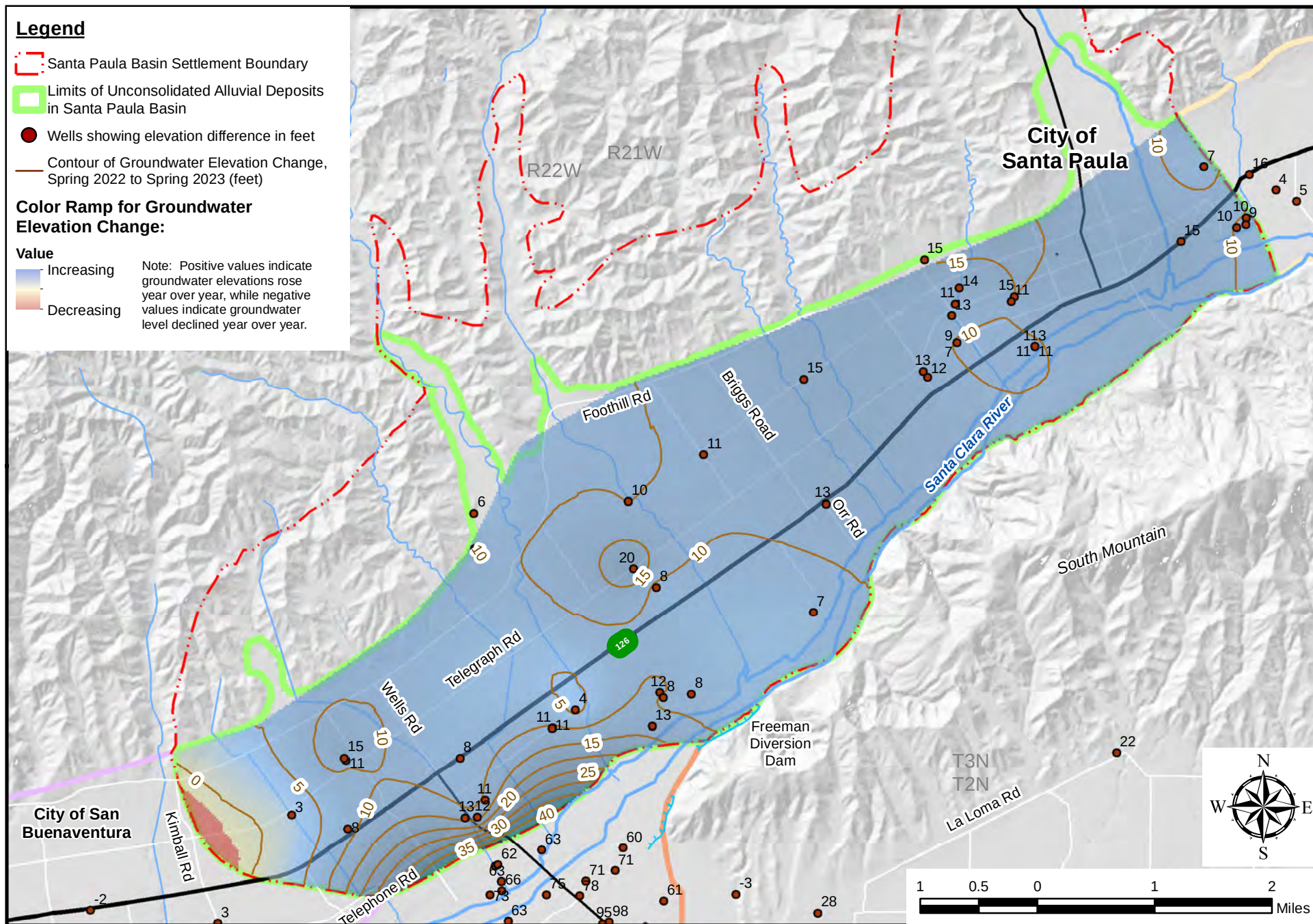


Figure 17. Change in Groundwater Elevation in Unconsolidated Alluvial Deposits of Santa Paula Basin, Spring 2022 to Spring 2023

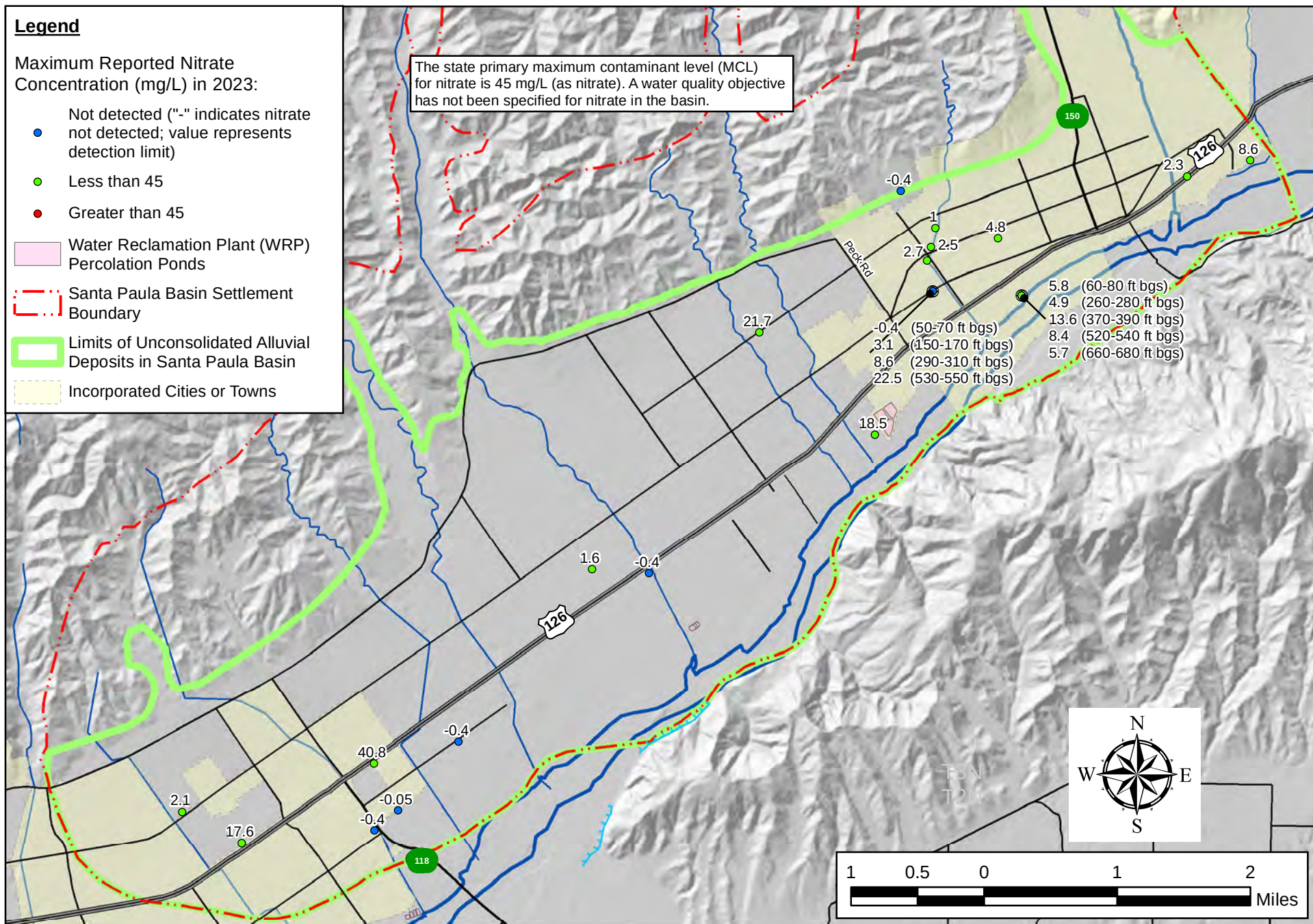


Figure 18. Maximum Reported Nitrate Concentrations in Groundwater, CY 2023

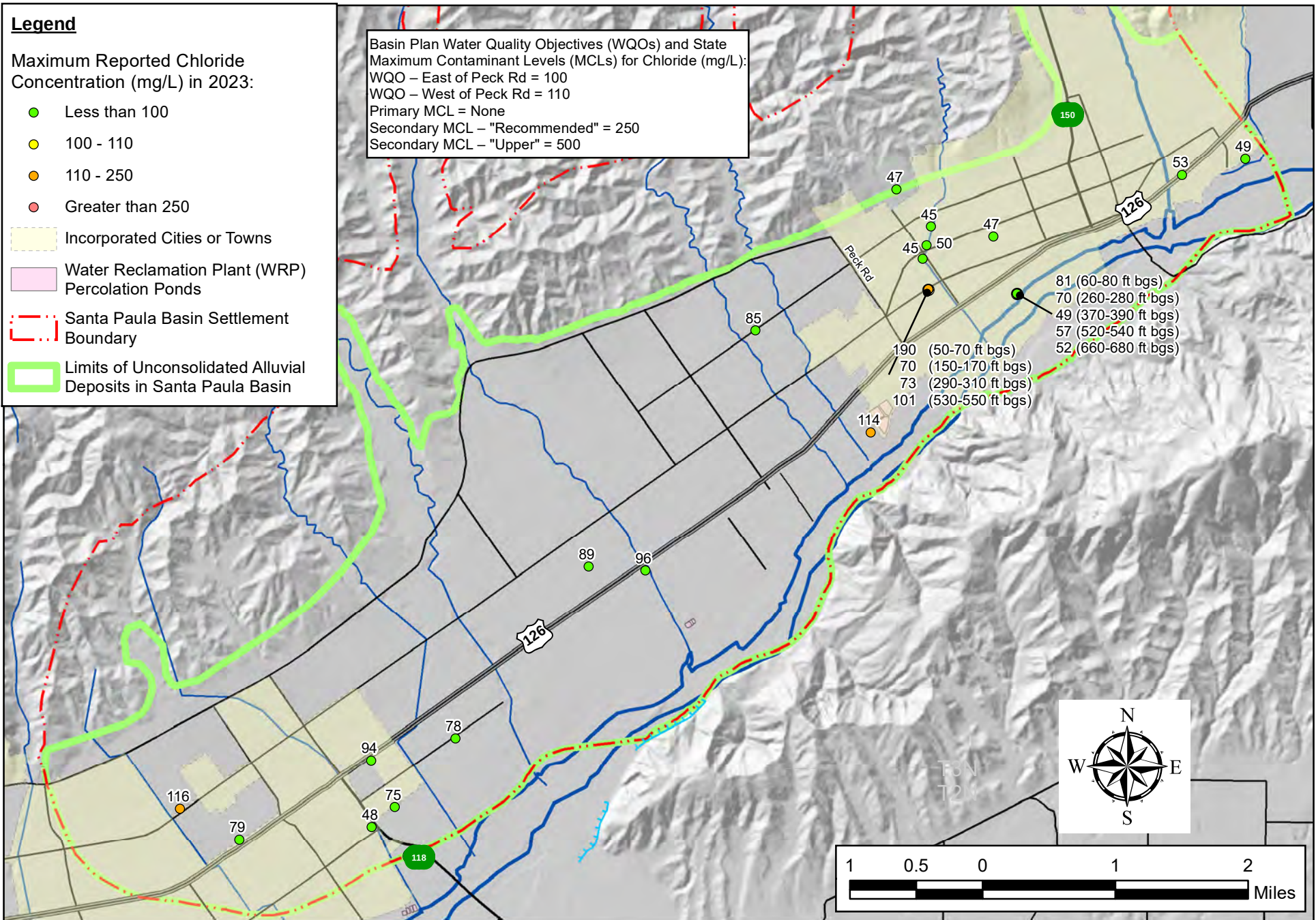


Figure 19. Maximum Reported Chloride Concentrations in Groundwater, CY 2023

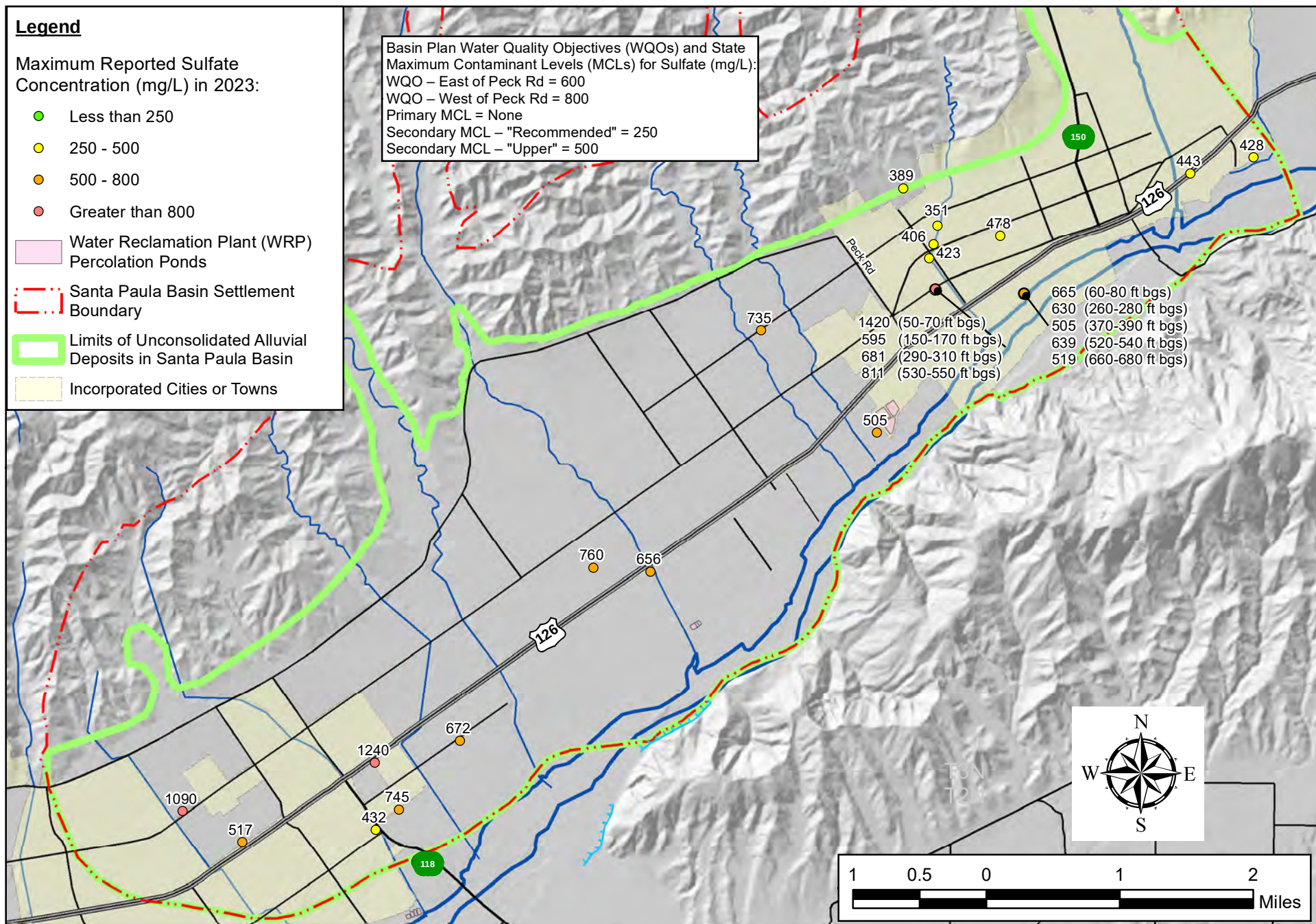


Figure 20. Maximum Reported Sulfate Concentrations in Groundwater, CY 2023

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APPENDIX A - Historical Precipitation and Streamflow Tables

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APPENDIX A - Table A-1. Santa Paula Historical Precipitation

WATER YEAR (WY)	MONTHLY PRECIPITATION (inches)												WATER YEAR PRECIPITATION (inches)	WY CUMULATIVE DEPARTURE (inches)	CALENDAR YEAR PRECIPITATION (inches)
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1890	6.30	1.81	16.55	5.40	2.00	0.47	0.05	0.00	0.00	0.00	0.00	0.62	33.20	16.02	11.46
1891	0.00	0.34	2.58	0.48	8.73	1.40	0.82	0.13	0.00	0.00	0.00	0.19	14.67	13.50	13.27
1892	0.00	0.00	1.52	0.70	3.99	3.24	0.54	1.80	0.00	0.00	0.00	0.00	11.79	8.11	24.31
1893	0.56	7.30	6.18	2.30	2.81	6.81	0.40	0.00	0.00	0.00	0.00	0.00	26.36	17.29	17.03
1894	0.87	0.20	3.64	1.04	0.55	0.42	0.23	0.46	0.00	0.10	0.00	0.98	8.49	8.59	5.05
1895	0.14	0.18	0.95	5.42	0.00	4.77	0.00	0.00	0.00	0.00	0.00	0.00	11.46	2.87	10.19
1896	0.00	0.00	0.00	5.03	4.98	3.24	0.00	0.00	0.00	0.00	0.00	0.45	13.70	-0.61	13.70
1897	0.00	0.00	0.00	5.03	4.98	3.24	0.00	0.00	0.00	0.00	0.00	0.45	13.70	-4.09	14.87
1898	1.17	0.00	0.00	0.92	0.70	1.55	0.00	1.22	0.00	0.00	0.00	0.86	6.42	-14.86	5.59
1899	0.08	0.00	0.26	3.44	0.00	2.41	0.35	0.00	0.00	0.00	0.00	0.00	6.54	-25.50	10.87
1900	1.84	1.17	1.66	1.67	0.00	1.36	0.38	1.49	0.00	0.00	0.00	0.00	9.57	-33.11	9.61
1901	0.00	4.71	0.00	4.57	4.34	0.42	0.91	1.14	0.00	0.00	0.00	0.71	16.80	-33.50	14.87
1902	2.24	0.54	0.00	1.30	4.49	3.31	0.50	0.00	0.00	0.00	0.00	0.00	12.38	-38.30	15.38
1903	0.00	4.75	1.03	1.66	1.98	6.23	2.65	0.10	0.00	0.00	0.00	0.00	18.40	-37.08	12.62
1904	0.00	0.00	0.00	0.31	3.83	5.94	1.46	0.00	0.00	0.00	0.00	1.82	13.36	-40.91	15.92
1905	0.38	0.00	2.18	2.54	8.02	5.50	0.67	3.15	0.00	0.00	0.00	0.00	22.44	-35.65	21.38
1906	0.00	1.50	0.00	3.35	3.60	9.03	0.40	0.05	0.00	0.00	0.00	0.00	17.93	-34.90	22.68
1907	0.00	0.00	6.25	13.23	1.95	6.22	0.18	0.00	0.00	0.00	0.00	0.00	27.83	-24.26	24.88
1908	2.72	0.00	0.58	5.73	4.56	0.05	0.94	0.00	0.00	0.00	0.00	0.55	15.13	-26.31	15.48
1909	0.15	2.40	1.10	10.88	5.94	4.88	0.00	0.00	0.00	0.00	0.00	0.00	25.35	-18.14	30.46
1910	0.13	1.36	7.27	2.82	0.00	2.36	0.00	0.00	0.00	0.00	0.00	2.78	16.72	-18.61	9.23
1911	0.62	0.33	0.32	9.54	2.88	5.53	0.00	0.00	0.00	0.00	0.00	0.07	19.29	-16.50	19.23
1912	0.00	0.00	1.21	0.18	0.00	7.17	1.67	0.84	0.00	0.00	0.00	0.00	11.07	-22.61	10.53
1913	0.56	0.11	0.00	3.79	9.51	0.00	0.47	0.00	0.47	0.00	0.50	0.00	15.41	-24.38	20.16
1914	0.00	3.09	2.33	12.73	8.40	0.66	0.76	0.51	0.00	0.00	0.00	0.00	28.48	-13.09	27.67
1915	0.15	0.13	4.33	5.38	9.30	0.98	1.16	1.69	0.00	0.00	0.00	0.00	23.12	-7.15	21.79
1916	0.00	0.68	2.60	18.17	1.07	0.53	0.00	0.00	0.00	0.00	0.00	1.44	24.49	0.16	30.00
1917	2.36	0.00	6.43	3.24	7.24	0.12	0.37	0.19	0.00	0.00	0.00	0.00	19.95	2.92	11.46
1918	0.00	0.30	0.00	0.26	13.00	6.28	0.00	0.00	0.00	0.26	0.00	1.78	21.88	7.62	25.76
1919	0.00	3.01	1.17	1.33	1.89	2.65	0.00	0.22	0.00	0.00	0.00	1.71	11.98	2.42	10.43
1920	0.33	0.12	2.18	0.41	2.93	5.74	0.82	0.00	0.00	0.00	0.00	0.00	12.53	-2.24	13.39
1921	0.30	1.86	1.33	6.60	1.02	1.99	0.23	3.95	0.00	0.00	0.00	0.17	17.45	-1.97	24.96
1922	0.34	0.00	10.66	4.55	3.43	1.49	0.00	0.46	0.00	0.00	0.00	0.00	20.93	1.78	19.00
1923	0.43	1.63	7.01	1.86	1.03	0.00	2.97	0.00	0.00	0.00	0.00	0.14	15.07	-0.34	6.76
1924	0.72	0.00	0.04	1.94	0.18	3.46	1.23	0.00	0.00	0.00	0.00	0.00	7.57	-9.95	10.03
1925	1.02	1.12	1.08	0.31	1.25	2.25	2.02	0.88	0.08	0.00	0.00	0.00	10.01	-17.12	10.72
1926	0.81	0.89	2.23	2.04	4.42	0.12	5.72	0.16	0.02	0.00	0.00	0.00	16.41	-17.89	19.38
1927	0.13	5.49	1.28	1.89	10.66	2.34	1.53	0.00	0.00	0.00	0.00	0.00	23.32	-11.76	22.17
1928	1.84	1.27	2.64	0.00	2.27	2.25	0.29	0.59	0.00	0.00	0.00	0.00	11.15	-17.79	10.79
1929	0.06	2.04	3.29	2.47	2.10	1.51	1.89	0.00	0.12	0.00	0.00	0.69	14.17	-20.80	8.78
1930	0.00	0.00	0.00	6.58	0.92	3.14	0.17	0.76	0.00	0.00	0.00	0.02	11.59	-26.40	14.29
1931	0.02	2.68	0.00	3.94	4.09	0.00	2.00	1.25	0.00	0.00	0.21	0.00	14.19	-29.39	25.40
1932	0.05	3.13	10.73	5.78	0.09	0.54	0.02	0.05	0.00	0.00	0.00	0.15	20.54	-26.03	7.77
1933	0.24	0.00	0.90	8.84	0.00	0.23	0.32	0.13	0.40	0.00	0.09	0.00	11.15	-32.07	17.31
1934	0.44	0.00	6.86	3.19	3.85	0.00	0.00	0.00	0.00	0.52	0.00	0.08	14.94	-34.31	17.18
1935	1.62	3.16	4.76	3.97	0.82	3.31	3.50	0.00	0.00	0.00	0.25	0.00	21.39	-30.10	15.08
1936	0.37	1.12	1.74	0.17	10.32	1.91	0.69	0.00	0.00	0.00	0.00	0.00	16.32	-30.97	23.60
1937	4.16	0.00	6.35	3.24	7.93	4.48	0.12	0.21	0.00	0.00	0.00	0.00	26.49	-21.66	20.90
1938	0.00	0.00	4.92	0.87	9.49	11.17	1.23	0.09	0.00	0.00	0.00	0.25	28.02	-10.82	30.09
1939	0.00	0.00	6.99	2.95	1.33	2.29	0.53	0.00	0.00	0.00	0.00	1.59	15.68	-12.32	10.22
1940	0.00	0.31	1.22	3.57	5.24	0.73	2.22	0.00	0.00	0.00	0.00	0.00	13.29	-16.22	21.02
1941	1.80	0.15	7.31	5.97	10.52	8.70	3.66	0.00	0.00	0.00	0.00	0.00	38.11	4.71	36.80
1942	1.01	0.44	6.50	0.47	0.54	1.91	3.32	0.00	0.00	0.00	0.00	0.00	14.19	1.72	8.50
1943	1.07	0.19	1.00	16.53	2.96	6.42	0.81	0.00	0.00	0.00	0.00	0.00	28.98	13.51	34.96
1944	0.14	0.20	7.90	1.44	10.02	3.49	1.18	0.00	0.00	0.00	0.00	0.00	24.37	20.70	20.28
1945	0.00	3.13	1.02	0.02	5.69	5.27	0.00	0.00	0.00	0.00	0.00	0.00	15.13	18.65	16.79
1946	1.00	0.26	4.55	0.25	1.45	3.59	0.22	0.00	0.00	0.00	0.00	0.00	11.32	12.78	16.83

APPENDIX A - Table A-1. Santa Paula Historical Precipitation

WATER YEAR (WY)	MONTHLY PRECIPITATION (inches)												WATER YEAR PRECIPITATION (inches)	WY CUMULATIVE DEPARTURE (inches)	CALENDAR YEAR PRECIPITATION (inches)
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1947	0.45	7.21	3.66	0.46	0.29	0.62	0.08	0.06	0.03	0.00	0.43	0.00	13.29	8.89	3.30
1948	0.05	0.00	1.28	0.00	1.22	3.83	1.79	0.06	0.04	0.00	0.00	0.00	8.27	-0.02	10.18
1949	0.00	0.00	3.24	2.39	1.43	1.54	0.07	1.06	0.06	0.00	0.00	0.00	9.79	-7.42	12.06
1950	0.00	1.18	4.33	3.17	2.59	0.93	1.11	0.00	0.00	0.02	0.00	0.24	13.57	-11.03	9.61
1951	0.45	0.94	0.16	2.53	1.32	0.86	1.89	0.00	0.00	0.00	0.00	0.00	8.15	-20.06	14.92
1952	0.88	2.47	4.97	12.29	0.10	9.52	1.68	0.00	0.00	0.00	0.00	0.00	31.91	-5.34	31.27
1953	0.00	3.38	4.30	1.33	0.00	0.55	1.26	0.00	0.00	0.00	0.00	0.00	10.82	-11.70	5.34
1954	0.00	2.13	0.07	4.85	3.38	3.56	0.38	0.00	0.00	0.00	0.00	0.00	14.37	-14.51	14.21
1955	0.00	0.93	1.11	5.25	1.56	0.33	2.24	1.94	0.00	0.00	0.02	0.00	13.38	-18.31	15.84
1956	0.00	1.38	3.12	6.98	0.72	0.00	2.18	0.95	0.00	0.00	0.00	0.00	15.33	-20.17	11.09
1957	0.01	0.00	0.25	5.75	1.88	2.07	1.17	0.62	0.16	0.00	0.00	0.00	11.91	-25.44	19.05
1958	2.48	0.53	4.39	2.82	7.27	8.14	5.48	0.00	0.00	0.00	0.00	0.26	31.37	-11.25	24.09
1959	0.05	0.07	0.00	2.07	3.91	0.00	0.55	0.00	0.00	0.00	0.00	0.02	6.67	-21.77	8.03
1960	0.09	0.00	1.39	3.95	2.80	0.50	2.70	0.00	0.00	0.00	0.00	0.00	11.43	-27.52	14.75
1961	0.00	4.27	0.53	1.24	0.00	0.49	0.02	0.00	0.00	0.00	0.03	0.04	6.62	-38.08	6.45
1962	0.00	3.57	1.06	2.46	17.26	1.27	0.00	0.07	0.01	0.00	0.00	0.00	25.70	-29.57	21.42
1963	0.31	0.00	0.04	0.69	8.04	0.00	2.47	0.11	0.49	0.00	0.17	1.37	13.69	-33.06	17.18
1964	0.46	3.30	0.08	2.68	0.00	2.00	0.76	0.02	0.11	0.00	0.01	0.00	9.42	-40.82	12.09
1965	0.66	1.30	4.55	0.54	0.07	1.08	4.94	0.00	0.01	0.02	0.11	0.18	13.46	-44.55	21.51
1966	0.00	9.60	4.96	1.52	1.07	0.00	0.00	0.00	0.00	0.00	0.00	0.09	17.24	-44.49	12.76
1967	0.20	3.62	6.26	4.58	0.24	2.24	5.02	0.04	0.00	0.00	0.00	0.32	22.52	-39.15	20.04
1968	0.00	6.39	1.21	0.99	1.24	3.47	0.90	0.03	0.00	0.00	0.19	0.00	14.42	-41.91	9.78
1969	0.80	0.68	1.48	17.95	7.75	0.85	0.96	0.01	0.00	0.09	0.00	0.01	30.58	-28.52	29.49
1970	0.00	1.79	0.08	2.34	3.70	6.04	0.00	0.00	0.00	0.00	0.00	0.00	13.95	-31.75	26.49
1971	0.02	7.09	7.30	1.01	0.71	0.69	0.59	0.51	0.00	0.00	0.00	0.01	17.93	-31.00	12.09
1972	0.11	0.43	8.03	0.12	0.26	0.00	0.08	0.04	0.04	0.00	0.00	0.00	9.11	-39.08	6.35
1973	0.31	4.57	0.93	5.89	9.00	2.61	0.00	0.01	0.00	0.00	0.00	0.00	23.32	-32.94	20.81
1974	0.24	1.95	1.11	9.52	0.06	2.93	0.07	0.00	0.00	0.00	0.00	0.00	15.88	-34.24	20.67
1975	1.03	0.10	6.96	0.00	3.86	4.59	1.46	0.00	0.00	0.00	0.00	0.06	18.06	-33.37	10.22
1976	0.18	0.00	0.07	0.00	5.33	1.39	0.72	0.02	0.10	0.01	0.00	4.05	11.87	-38.68	12.49
1977	0.00	0.22	0.65	6.74	0.21	2.04	0.00	2.03	0.00	0.00	0.99	0.00	12.88	-42.98	16.72
1978	0.03	0.15	4.53	8.11	8.54	11.57	2.25	0.00	0.00	0.00	0.00	0.90	36.08	-24.09	35.90
1979	0.18	2.03	2.32	6.37	3.97	7.17	0.00	0.02	0.02	0.00	0.00	0.09	22.17	-19.10	20.74
1980	0.46	0.83	1.81	8.32	12.95	3.82	0.41	0.23	0.00	0.00	0.00	0.02	28.85	-7.43	27.02
1981	0.00	0.00	1.27	2.26	1.58	6.07	0.68	0.02	0.00	0.00	0.00	0.00	11.88	-12.73	13.87
1982	0.50	2.20	0.56	2.55	0.58	5.66	1.93	0.00	0.00	0.00	0.00	0.86	14.84	-15.08	19.22
1983	0.53	4.53	2.58	9.52	5.35	6.76	4.27	0.10	0.00	0.00	0.97	1.02	35.63	3.37	38.31
1984	2.96	3.36	4.00	0.00	0.00	0.37	0.09	0.00	0.00	0.00	0.04	0.33	11.15	-2.66	7.84
1985	0.22	2.86	3.93	1.84	1.06	1.18	0.00	0.01	0.00	0.02	0.00	0.04	11.16	-8.69	8.91
1986	0.43	3.62	0.71	3.60	8.72	4.59	1.21	0.00	0.00	0.00	0.00	0.65	23.53	-2.34	20.74
1987	0.03	1.64	0.30	1.85	1.02	2.16	0.21	0.02	0.05	0.09	0.00	0.03	7.40	-12.12	12.73
1988	1.48	1.18	4.64	2.63	2.07	0.67	3.22	0.00	0.04	0.00	0.00	0.00	15.93	-13.38	13.98
1989	0	1.08	4.27	0.49	3.50	0.80	0.04	0.22	0.00	0.00	0.00	0.05	10.45	-20.11	5.90
1990	0.27	0.43	0.10	2.74	2.49	0.00	0.44	0.74	0.00	0.00	0.04	0.00	7.25	-30.04	7.03
1991	0.00	0.52	0.06	1.18	2.87	13.64	0.04	0.00	0.03	0.00	0.01	0.05	18.40	-28.83	22.49
1992	0.40	0.17	4.10	2.48	12.51	7.02	0.04	0.01	0.00	0.36	0.00	0.00	27.09	-18.92	29.10
1993	1.65	0.00	5.03	10.62	10.66	3.77	0.00	0.14	0.65	0.00	0.00	0.00	32.52	-3.58	28.59
1994	0.28	0.79	1.68	0.60	6.29	2.98	0.31	0.35	0.00	0.00	0.00	0.11	13.39	-7.38	13.85
1995	0.98	1.05	1.18	19.87	1.34	9.02	0.47	1.04	0.37	0.02	0.00	0.00	35.34	10.78	34.32
1996	0.00	0.15	2.04	1.04	7.85	2.04	0.50	0.28	0.00	0.00	0.00	0.00	13.90	7.50	23.11
1997	2.47	2.57	6.36	6.67	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.12	18.41	8.73	16.10
1998	0.00	2.31	6.78	2.79	20.13	3.87	2.03	6.04	0.01	0.00	0.00	0.81	44.77	36.31	37.13
1999	0.00	0.83	0.62	2.44	1.02	2.65	2.56	0.00	0.38	0.00	0.00	0.17	10.67	29.80	9.98
2000	0.00	0.76	0	1.92	6.76	2.56	2.61	0.00	0.00	0.00	0.00	0.15	14.76	27.38	15.48
2001	1.47	0.00	0.01	7.02	9.21	7.10	1.73	0.00	0.00	0.00	0.00	0.00	26.54	36.73	30.06
2002	0.27	3.21	1.52	1.02	0.38	0.37	0.07	0.09	0.00	0.00	0.00	0.05	6.98	26.53	10.48
2003	0.00	5.22	3.28	0.00	4.75	3.53	1.77	1.30	0.09	0.00	0.00	0.00	19.94	29.28	16.02

APPENDIX A - Table A-1. Santa Paula Historical Precipitation

WATER YEAR (WY)	MONTHLY PRECIPITATION (inches)												WATER YEAR PRECIPITATION (inches)	WY CUMULATIVE DEPARTURE (inches)	CALENDAR YEAR PRECIPITATION (inches)
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
2004	0.00	2.73	1.85	0.64	6.78	0.49	0.33	0.00	0.00	0.00	0.00	0.00	12.82	24.92	18.63
2005	4.74	0.03	5.62	15.85	10.56	2.53	0.80	0.25	0.00	0.00	0.00	0.16	40.54	48.28	32.37
2006	1.00	0.70	0.52	3.41	3.58	4.00	3.87	1.17	0.00	0.00	0.00	0.00	18.25	49.34	17.29
2007	0.27	0.10	0.89	2.04	0.79	0.07	0.84	0.00	0.00	0.00	0.00	0.30	5.30	37.46	7.90
2008	0.26	0.15	3.45	10.78	1.85	0.00	0.05	0.04	0.00	0.00	0.00	0.00	16.58	36.86	17.43
2009	0.10	2.34	2.27	0.81	5.45	0.57	0.12	0.00	0.01	0.00	0.00	0.00	11.67	31.34	13.07
2010	2.66	0.00	3.45	7.29	3.51	0.41	1.87	0.13	0.00	0.01	0.00	0.00	19.33	33.49	26.01
2011	2.11	1.07	9.61	0.30	3.64	6.03	0.00	0.89	0.14	0.00	0.00	0.01	23.80	40.11	14.62
2012	1.58	1.87	0.16	1.35	0.03	2.93	2.20	0.00	0.00	0.00	0.05	0.01	10.18	33.10	10.22
2013	0.00	1.60	2.05	1.25	0.09	0.90	0.02	0.11	0.00	0.01	0.00	0.00	6.03	21.95	3.28
2014	0.02	0.56	0.32	0.00	3.32	1.83	0.03	0.03	0.00	0.00	0.01	0.00	6.12	10.89	9.83
2015	0.00	0.85	3.76	1.63	0.63	0.62	0.21	0.37	0.10	1.63	0.00	0.83	10.63	4.33	6.51
2016	0.04	0.02	0.43	5.43	0.45	2.93	0.22	0.11	0.00	0.00	0.00	0.00	9.63	-3.22	14.06
2017	0.73	0.62	3.57	7.69	8.40	0.37	0.13	0.11	0.00	0.00	0.00	0.03	21.65	1.25	16.73
2018	0.00	0.00	0.00	2.24	0.06	6.48	0.01	0.05	0.00	0.00	0.00	0.00	8.84	-7.09	12.66
2019	0.24	2.14	1.44	8.35	6.26	2.57	0.02	1.21	0.00	0.00	0.00	0.00	22.23	-2.05	26.02
2020	0.00	2.42	5.19	0.78	0.01	3.94	2.53	0.12	0.04	0.00	0.00	0.01	15.04	-4.19	8.78
2021	0.00	0.11	1.24	1.79	0.04	1.04	0.00	0.00	0.00	0.00	0.00	0.01	4.23	-17.14	13.16
2022	0.91	0.01	9.36	0.21	0.01	2.20	0.27	0.05	0.26	0.00	0.00	0.04	13.32	-21.01	8.09
2023	0.06	0.86	4.13	12.95	4.80	10.5	0.01	0.99	0.24	0.00	3.58	0.07	38.19	0.00	37.48
2024	0.00	0.36	3.98												
AVERAGE:	0.57	1.42	2.81	3.93	3.80	2.98	0.99	0.34	0.03	0.02	0.06	0.23	17.18	---	17.03
MEDIAN:	0.15	0.76	1.74	2.51	2.81	2.25	0.47	0.02	0.00	0.00	0.00	0.00	14.89	---	15.43

APPENDIX A - Table A-2. Santa Clara River at Freeman Diversion Historical Annual Streamflow

WATER YEAR	ACRE-FEET	WATER YEAR	ACRE-FEET	WATER YEAR	ACRE-FEET	WATER YEAR	ACRE-FEET
1956	30,140	1974	123,279	1992	333,441	2010	143,938
1957	18,668	1975	110,294	1993	963,059	2011	257,205
1958	352,671	1976	37,116	1994	131,823	2012	57,761
1959	55,462	1977	28,818	1995	908,663	2013	22,696
1960	14,557	1978	748,780	1996	125,982	2014	23,213
1961	6,209	1979	297,212	1997	166,052	2015	6,670
1962	272,542	1980	523,154	1998	788,007	2016	5,825
1963	28,495	1981	108,357	1999	119,559	2017	98,843
1964	15,345	1982	103,255	2000	130,933	2018	10,116
1965	23,696	1983	719,692	2001	251,235	2019	205,642
1966	207,602	1984	136,205	2002	58,072	2020	87,497
1967	205,577	1985	54,431	2003	93,844	2021	18,975
1968	54,656	1986	226,857	2004	59,397	2022	31,721
1969	982,425	1987	38,796	2005	1,153,883	2023	672,892
1970	129,540	1988	76,426	2006	246,950		
1971	130,717	1989	26,610	2007	51,065		
1972	58,807	1990	10,787	2008	214,847	AVERAGE	203,753
1973	265,962	1991	117,639	2009	74,645	MEDIAN	109,326

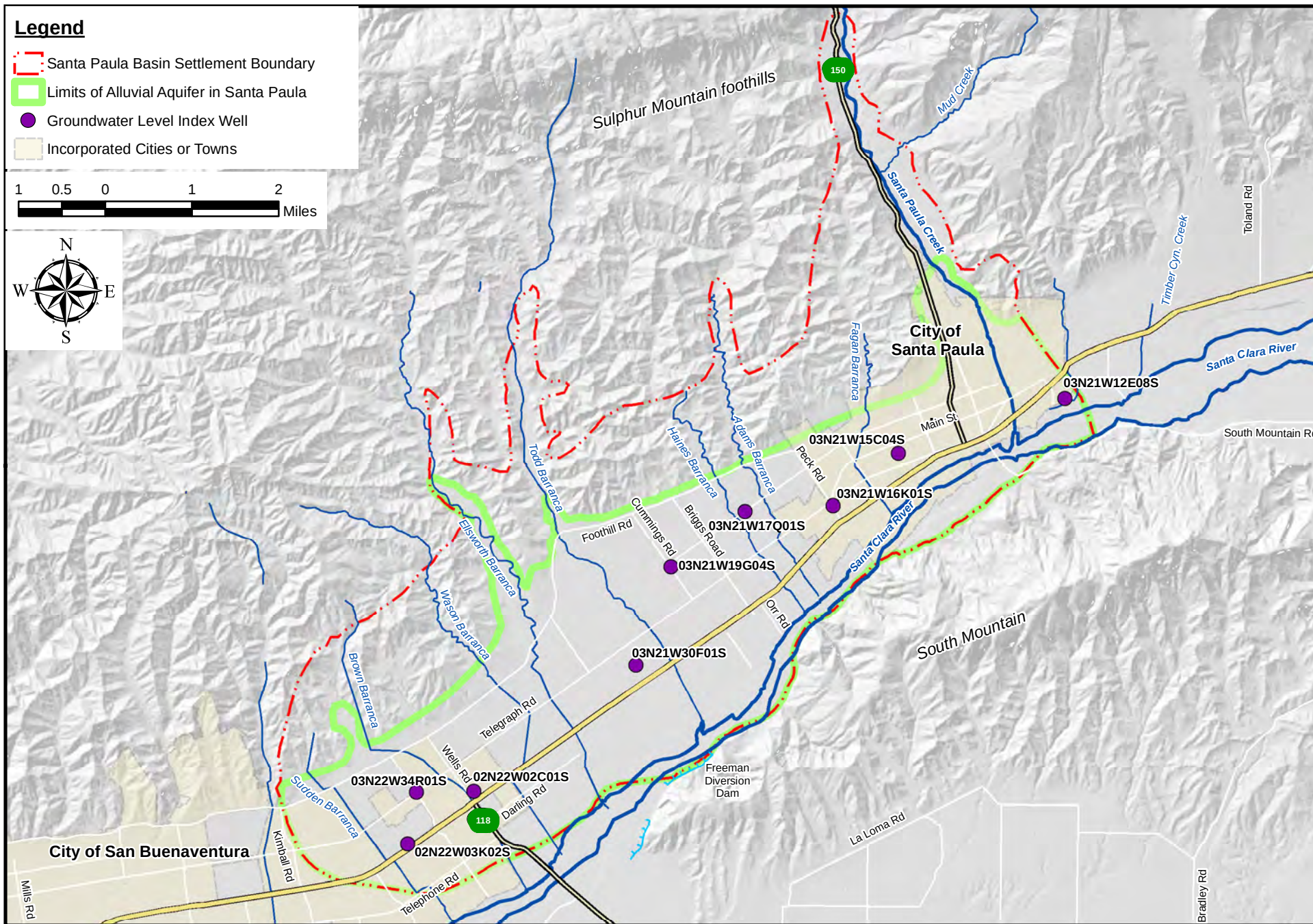
APPENDIX A - Table A-3. Santa Paula Creek Historical Annual Streamflow

WATER YEAR	ACRE-FEET	WATER YEAR	ACRE-FEET	WATER YEAR	ACRE-FEET	WATER YEAR	ACRE-FEET
1928	1,332	1953	4,340	1978	87,150	2003	8,563
1929	1,801	1954	5,861	1979	20,453	2004	5,054
1930	1,554	1955	3,012	1980	34,108	2005	107,309
1931	3,014	1956	5,257	1981	5,818	2006	22,708
1932	19,958	1957	3,527	1982	9,177	2007	3,305
1933	7,485	1958	47,074	1983	70,594	2008	27,945
1934	11,353	1959	5,593	1984	8,017	2009	4,393
1935	12,830	1960	2,123	1985	3,394	2010	16,342
1936	13,444	1961	1,254	1986	20,486	2011	32,887
1937	31,909	1962	26,203	1987	3,179	2012	4,465
1938	44,310	1963	3,340	1988	7,361	2013	1,168
1939	8,465	1964	3,026	1989	2,893	2014	1,788
1940	5,297	1965	4,665	1990	2,485	2015	1,028
1941	57,682	1966	28,458	1991	15,214	2016	1,502
1942	6,882	1967	37,423	1992	33,768	2017	15,226
1943	39,739	1968	7,866	1993	71,474	2018	4,063
1944	22,425	1969	112,696	1994	8,351	2019	22,518
1945	12,172	1970	7,779	1995	63,209	2020	9,826
1946	11,194	1971	12,795	1996	8,752	2021	1,361
1947	7,295	1972	4,492	1997	18,015	2022	4,475
1948	1,715	1973	35,236	1998	80,799	2023	80,525
1949	1,965	1974	11,552	1999	5,562		
1950	3,492	1975	11,506	2000	8,609		
1951	992	1976	3,906	2001	24,461	AVERAGE	18,154
1952	30,882	1977	2,361	2002	2,513	MEDIAN	8,184

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APPENDIX B - Groundwater Elevation Hydrographs and Map of Index Well Locations

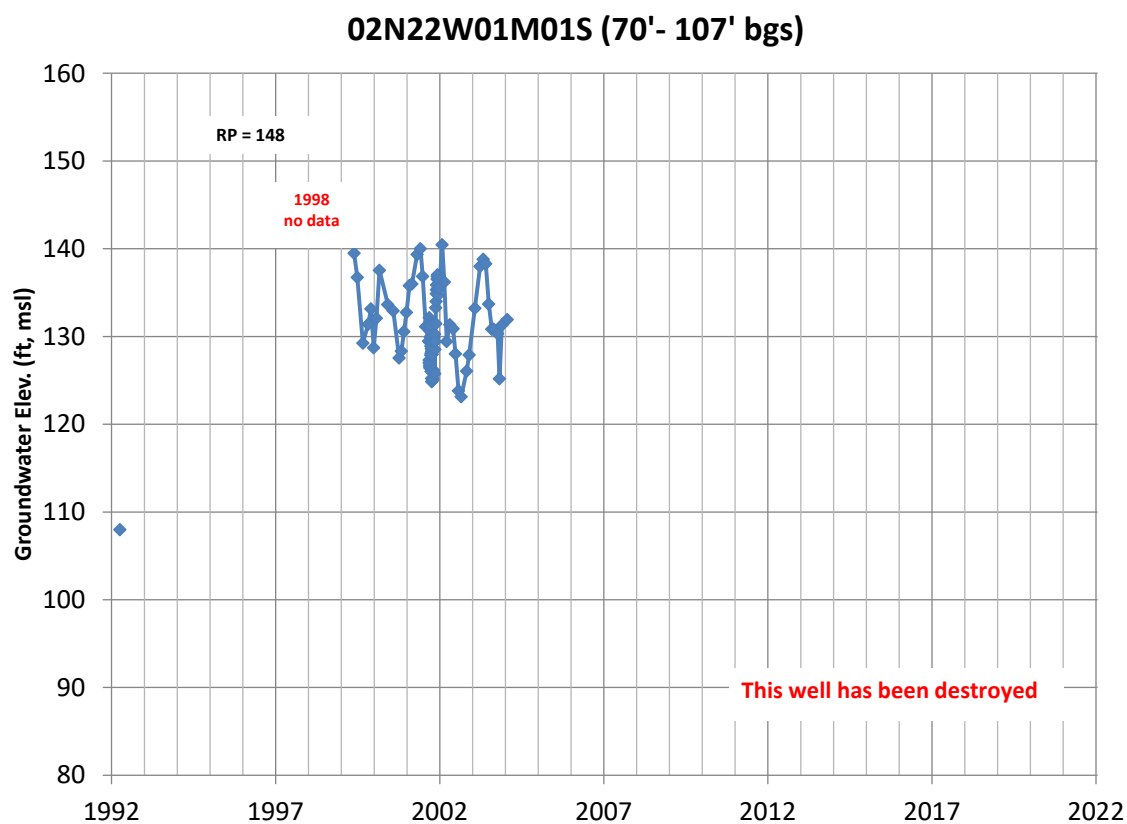
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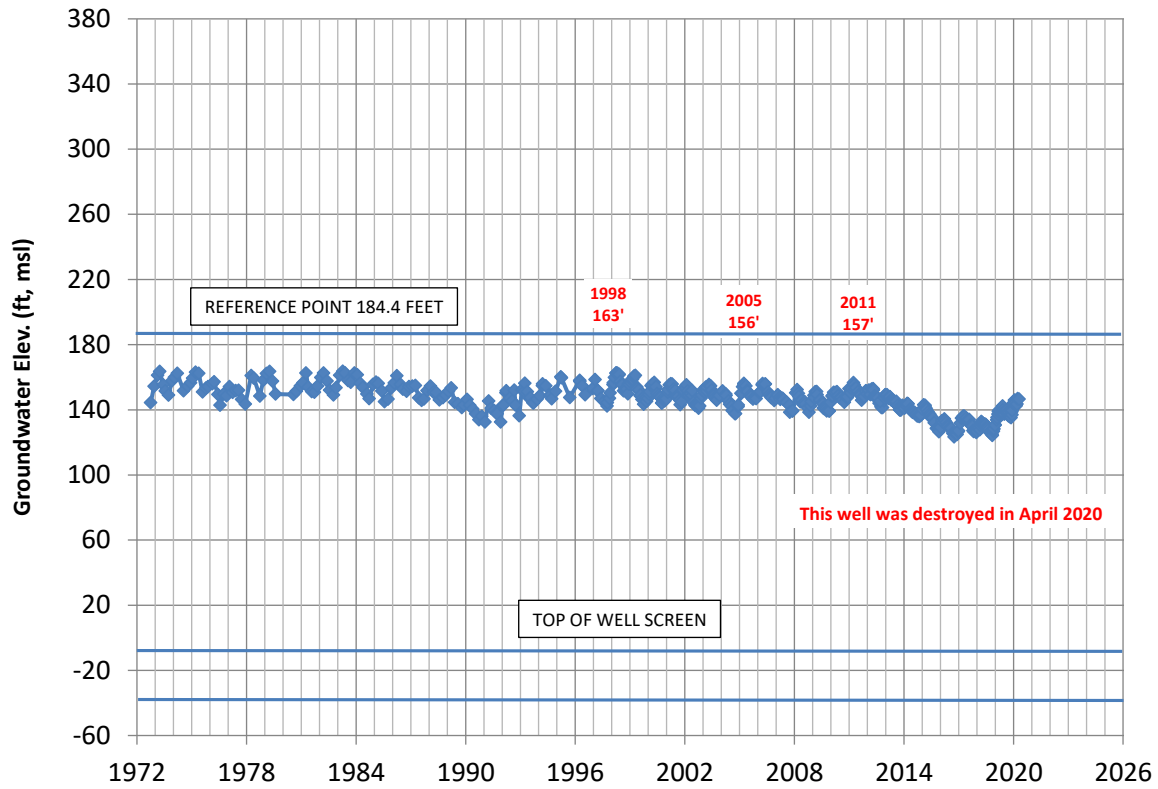
Location of Santa Paula Basin Groundwater Level Index Wells

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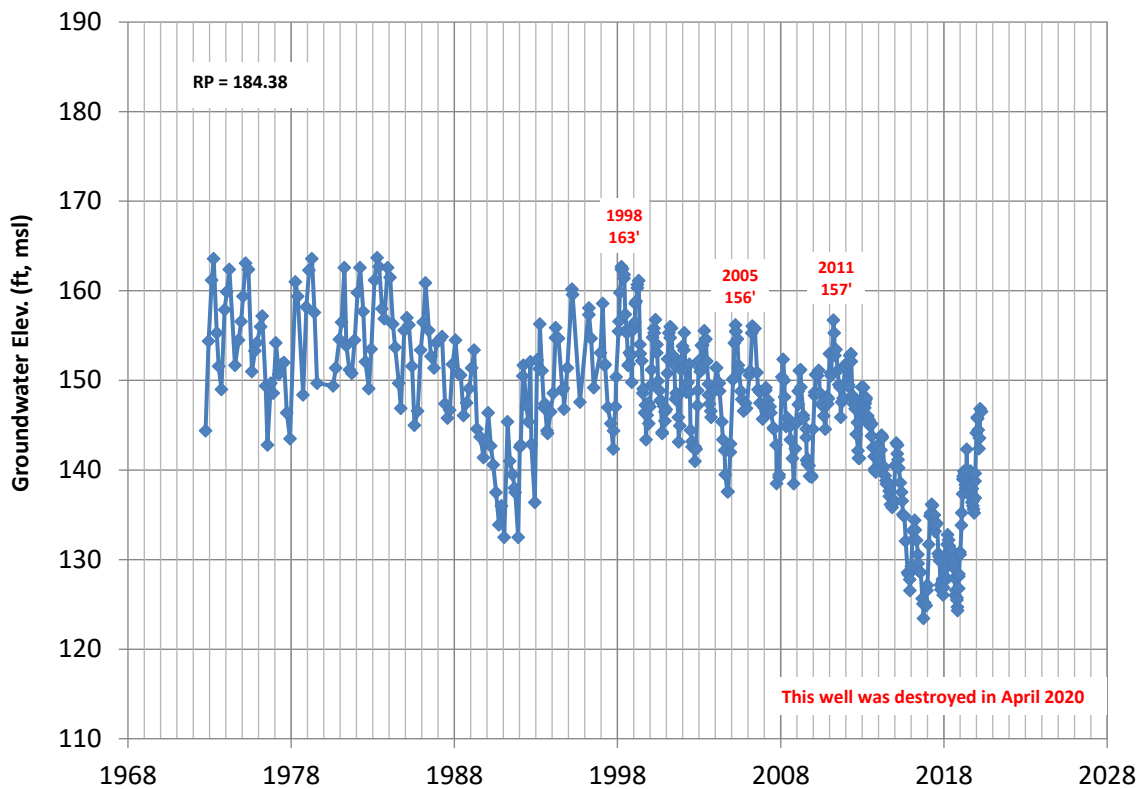
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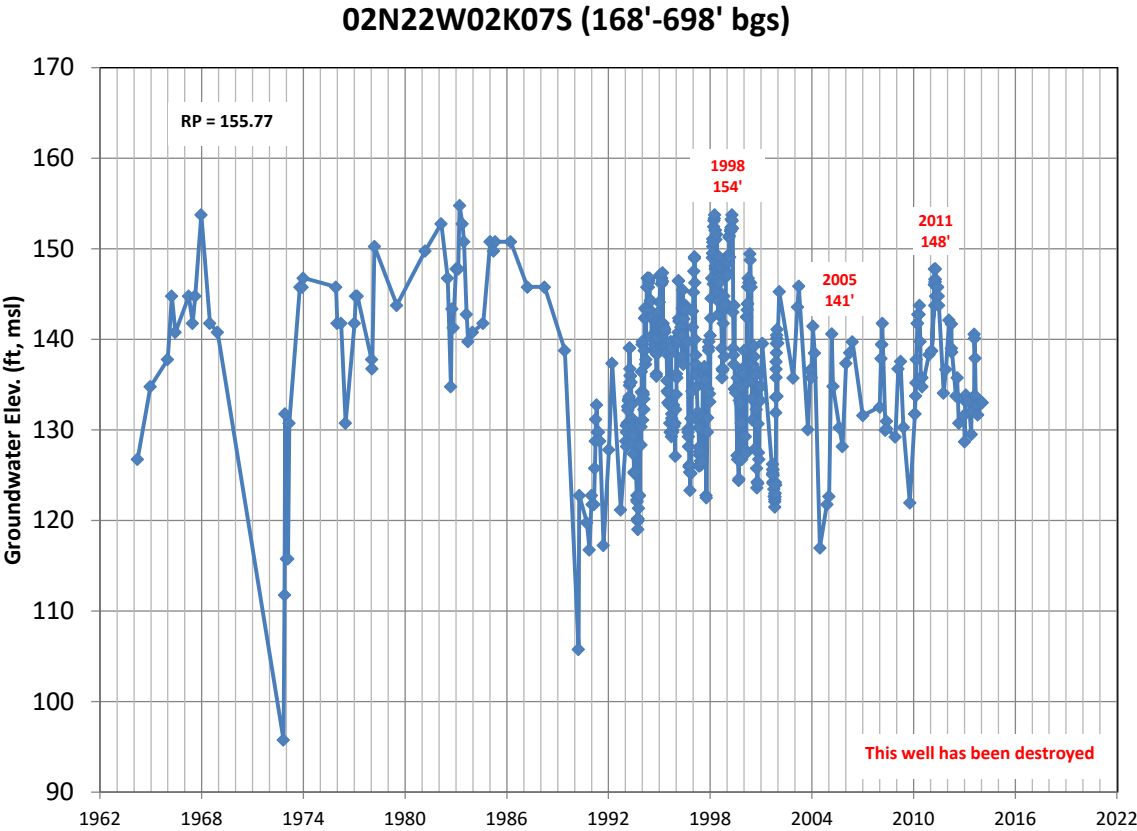
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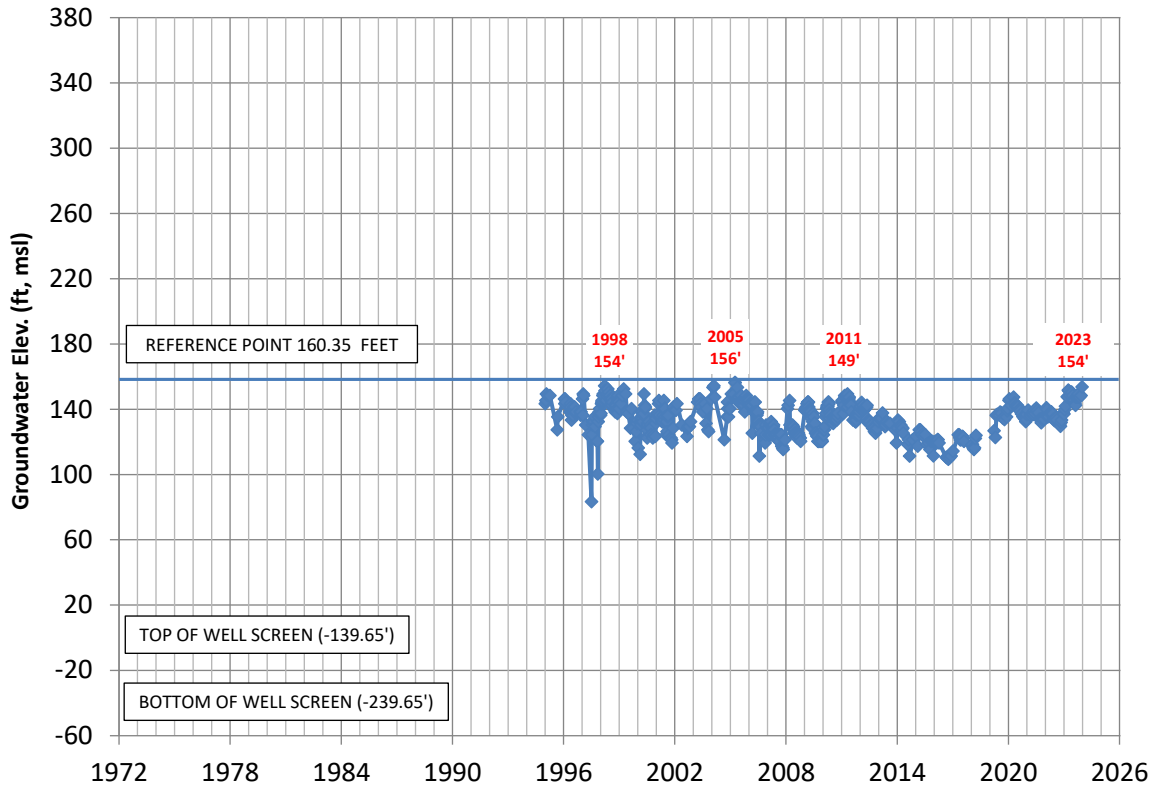
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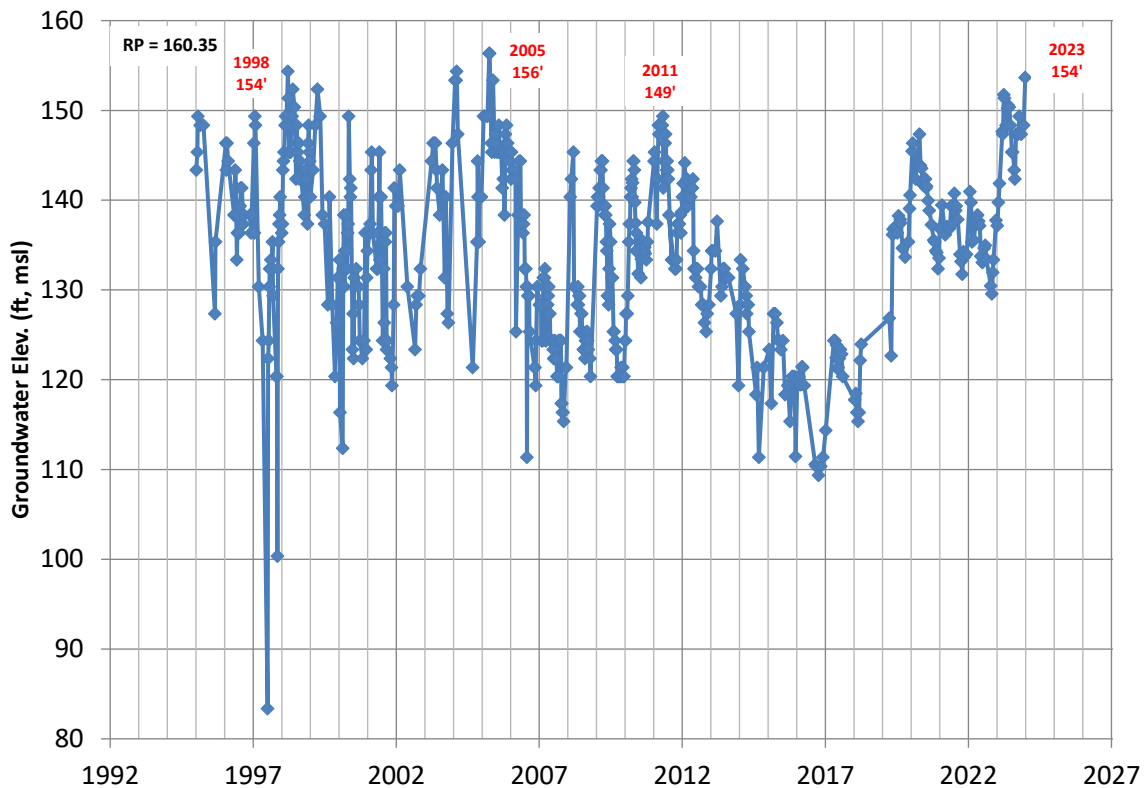
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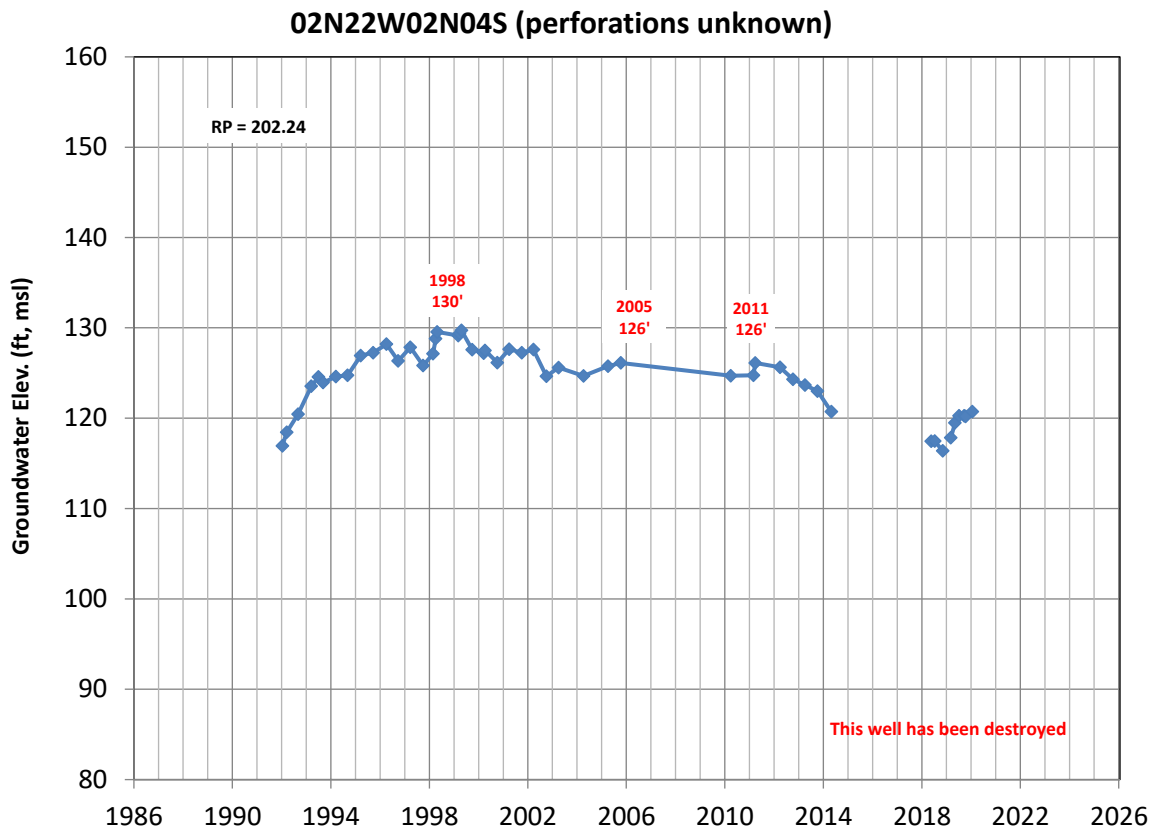
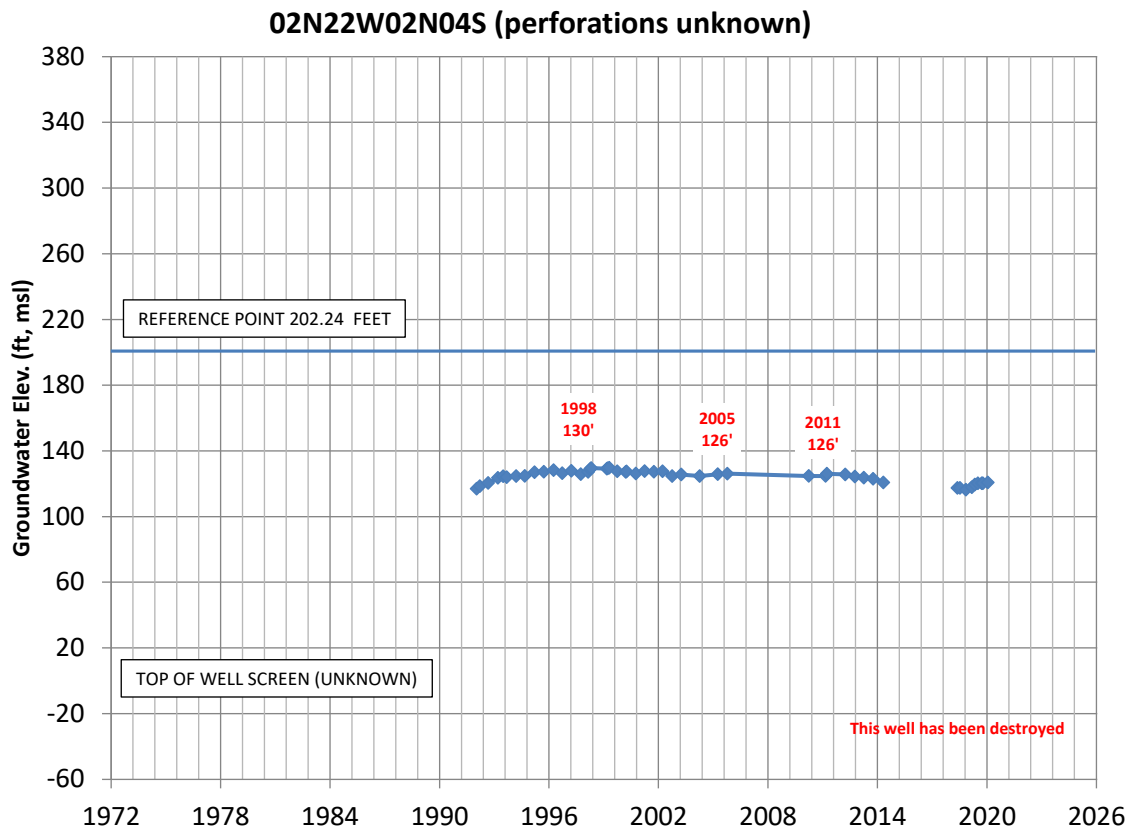


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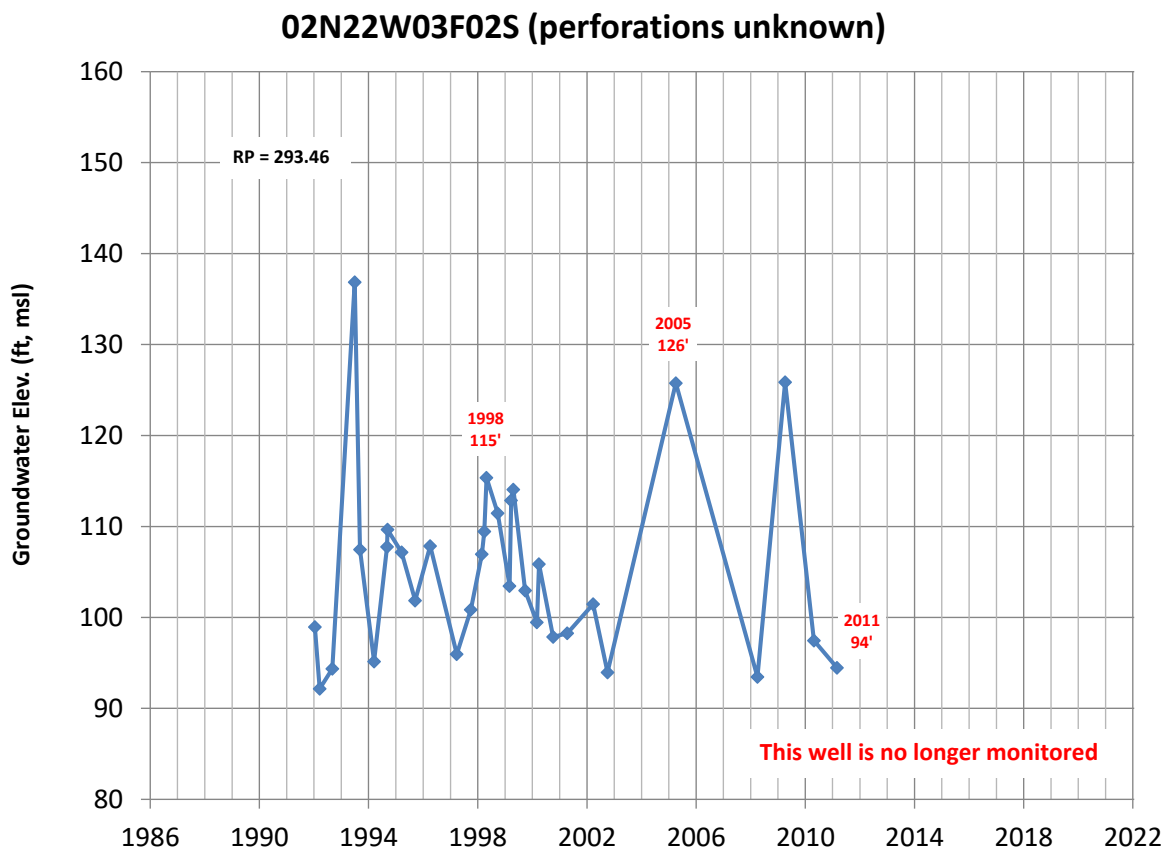


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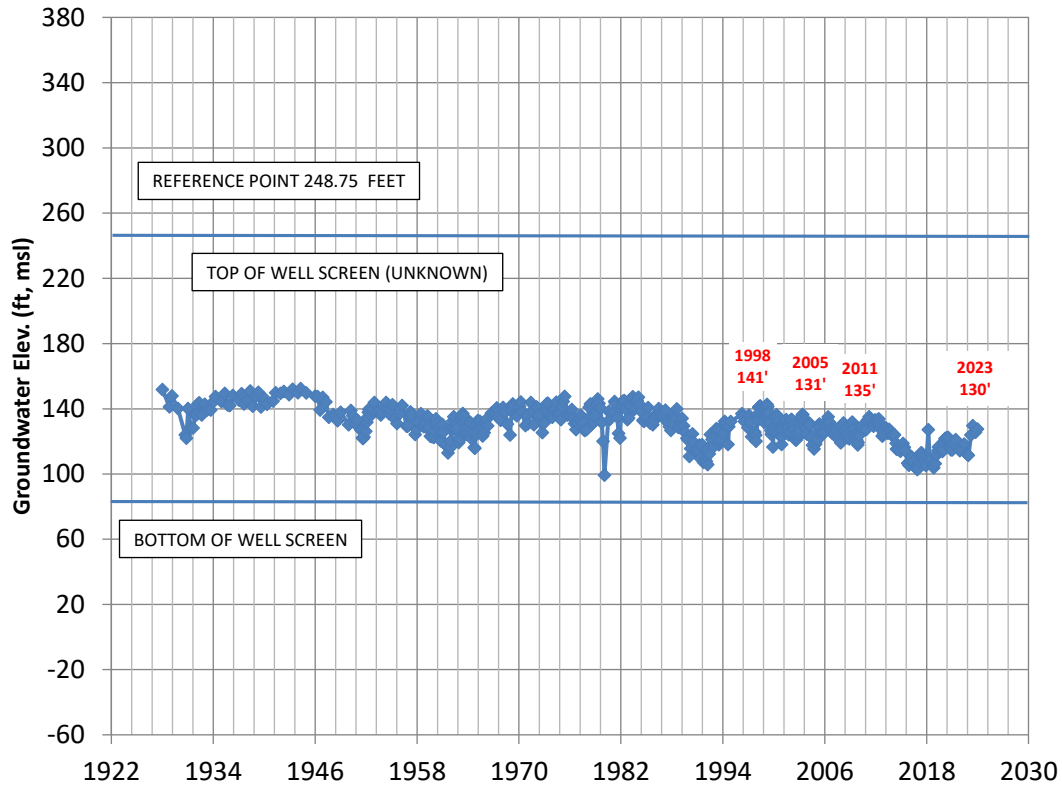




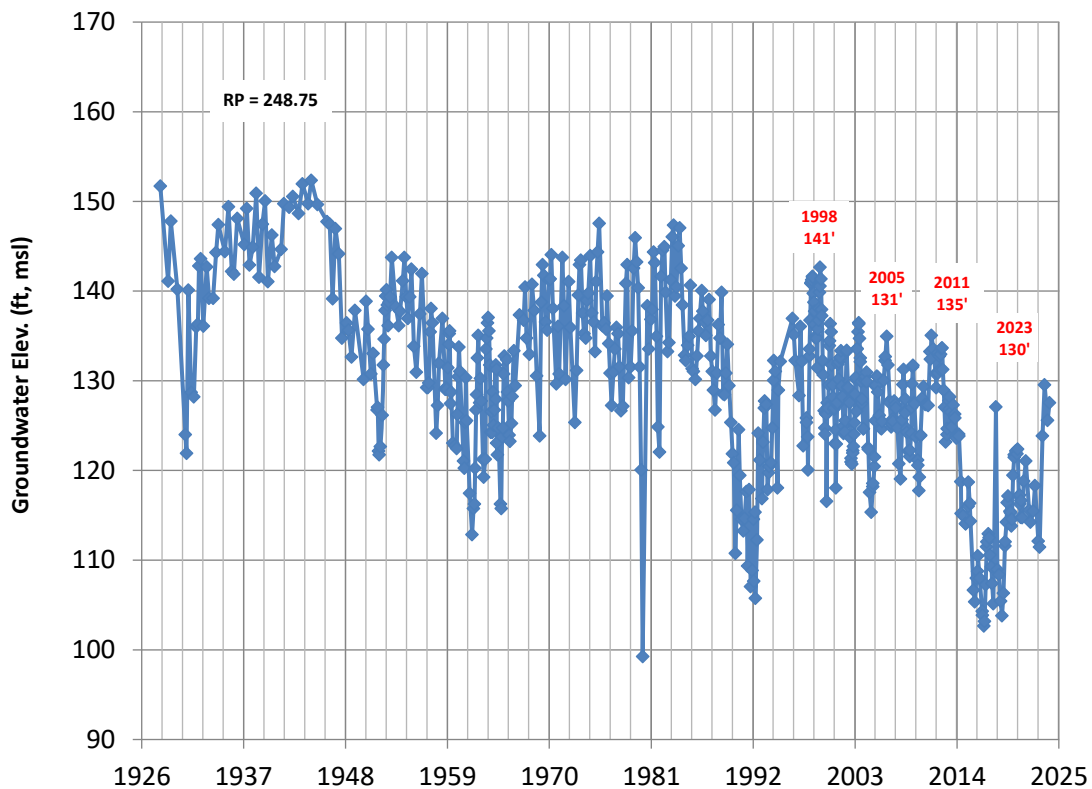
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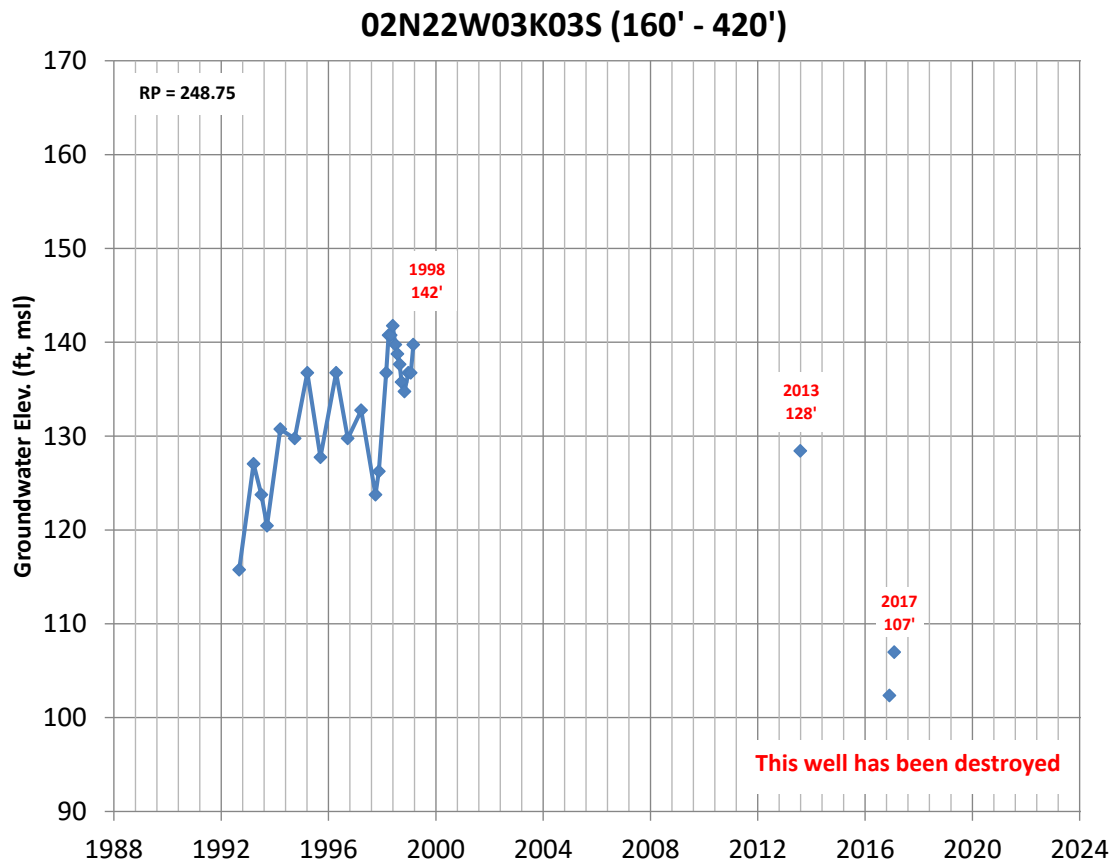
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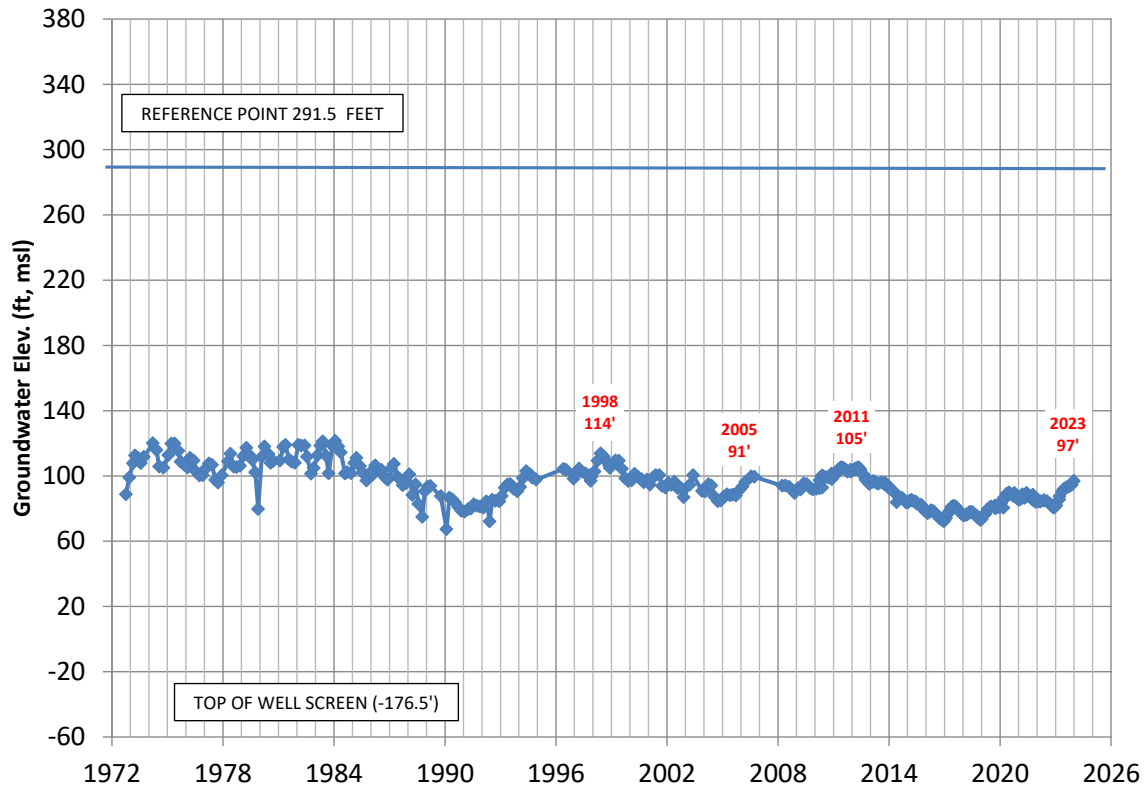
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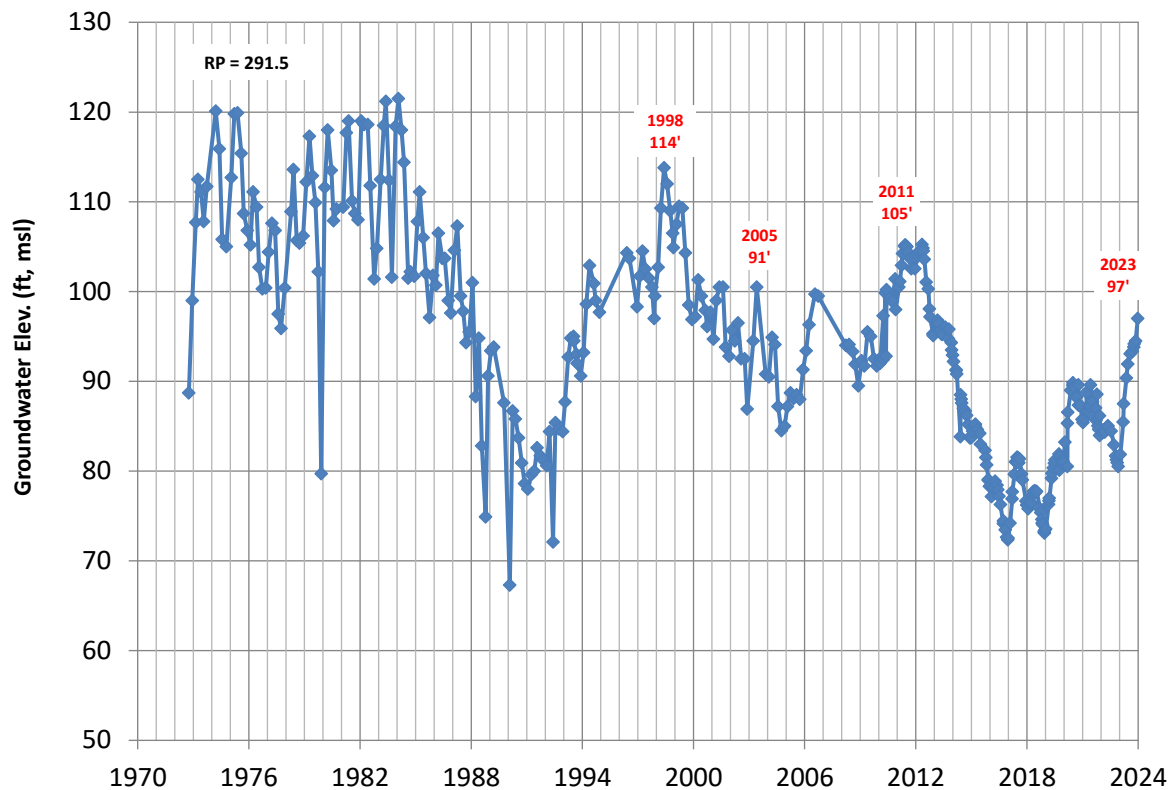
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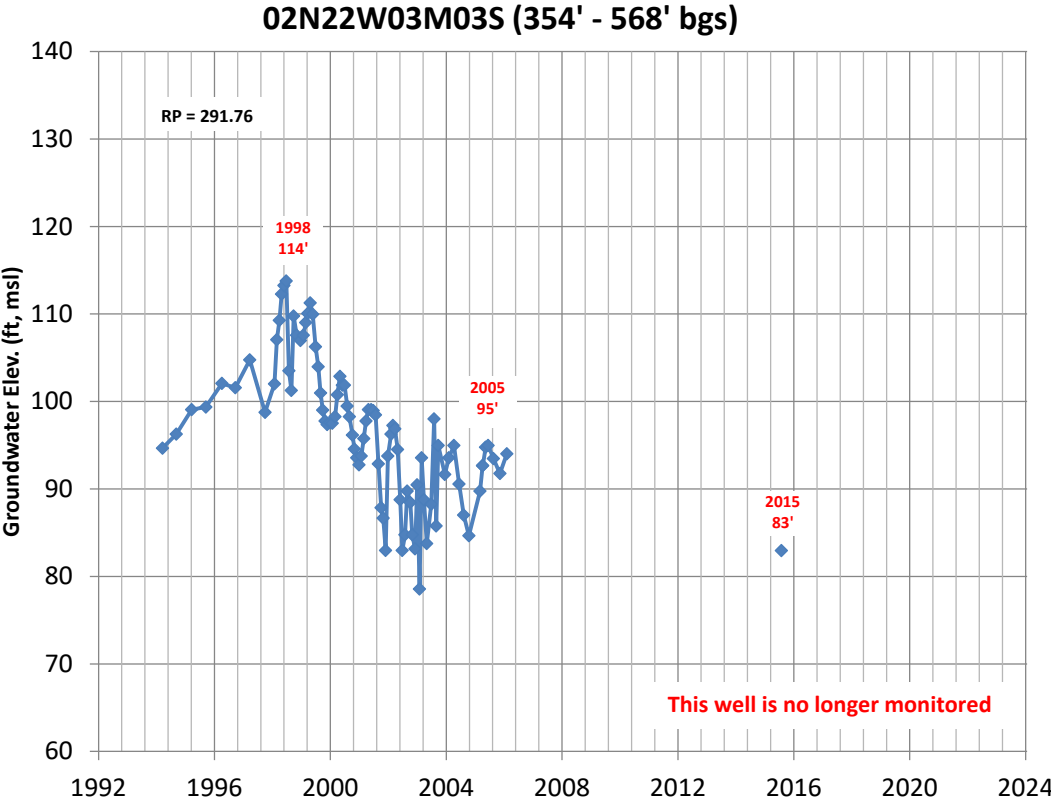
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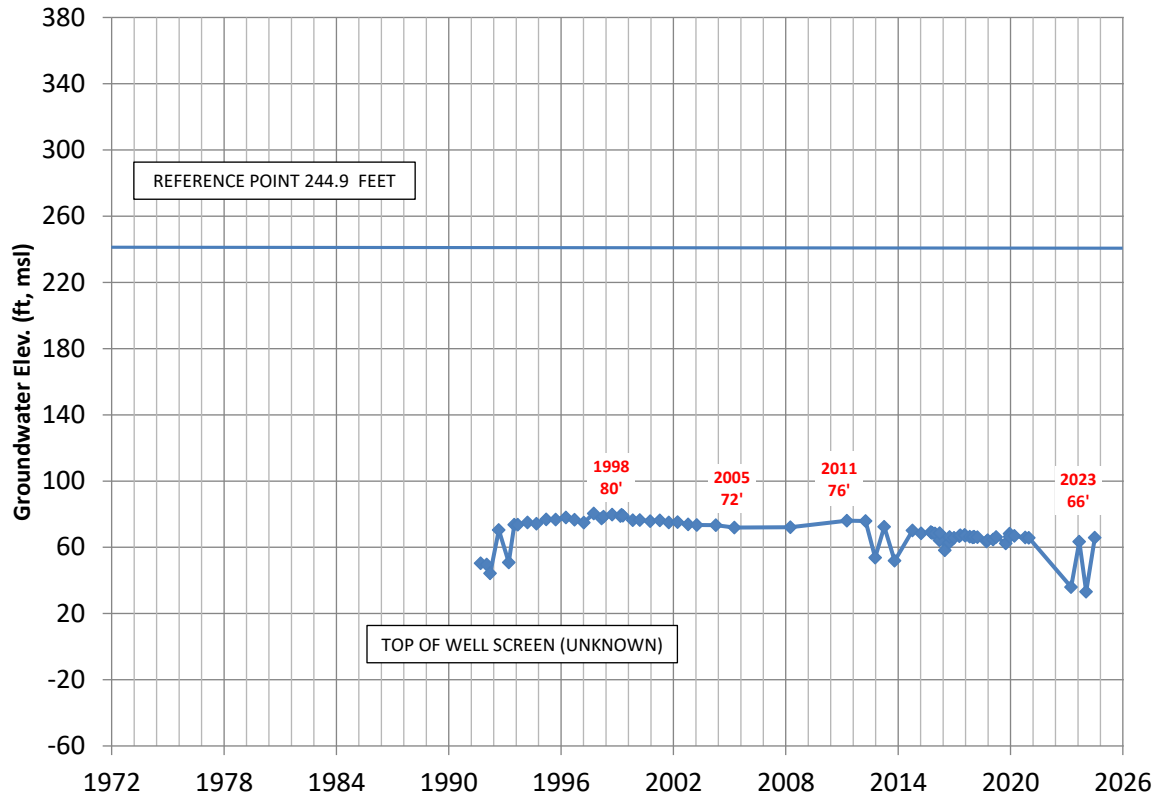
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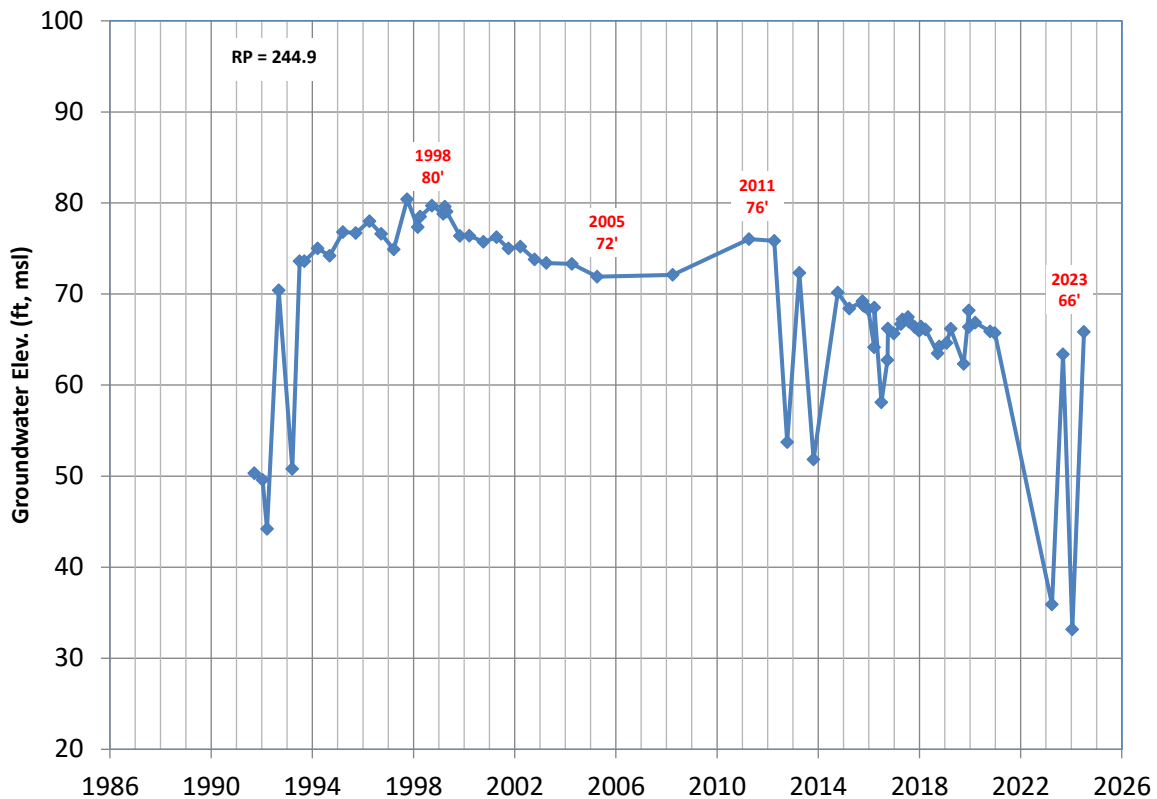
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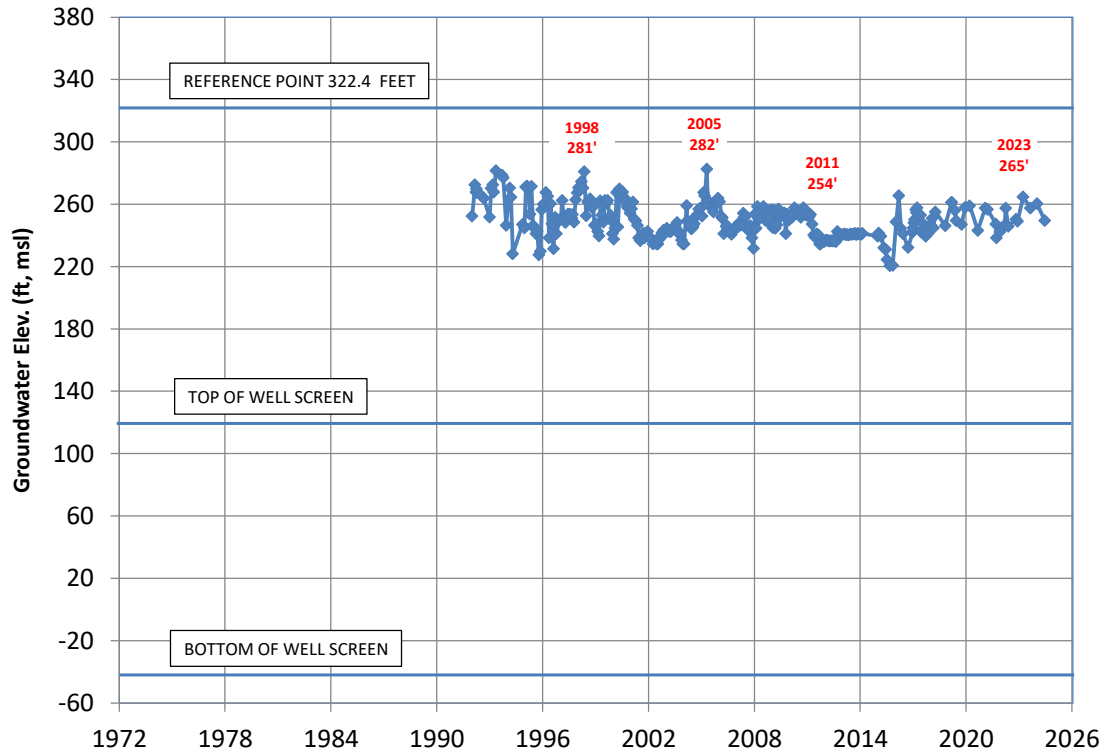
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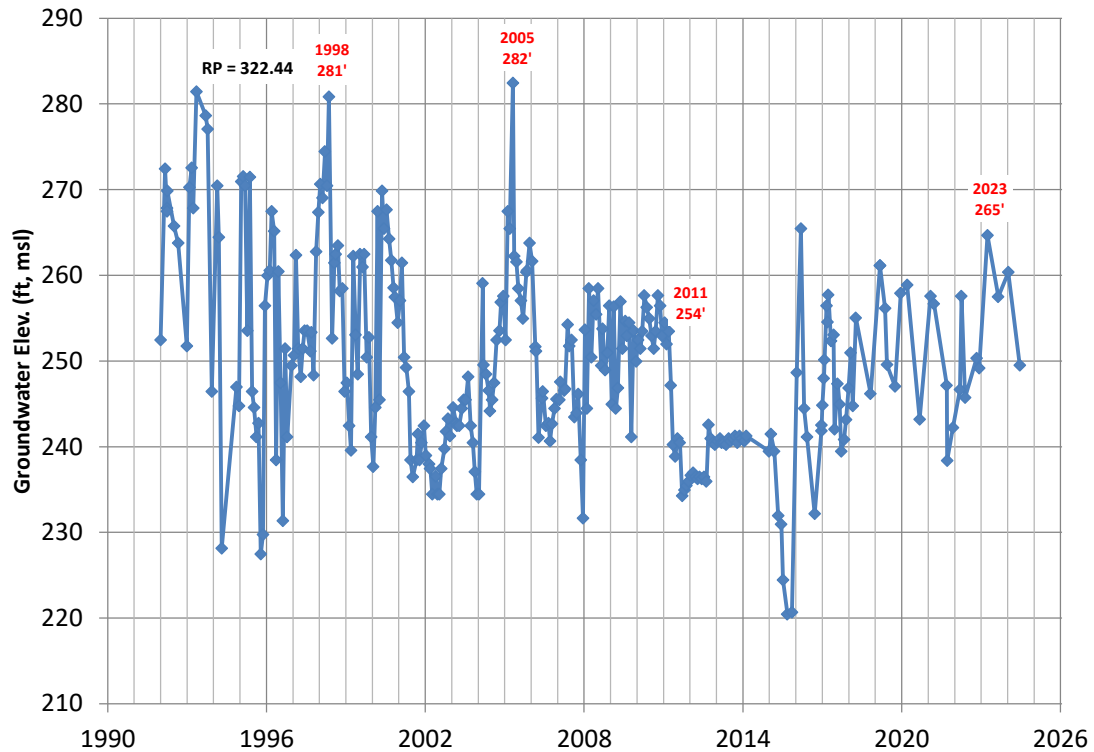
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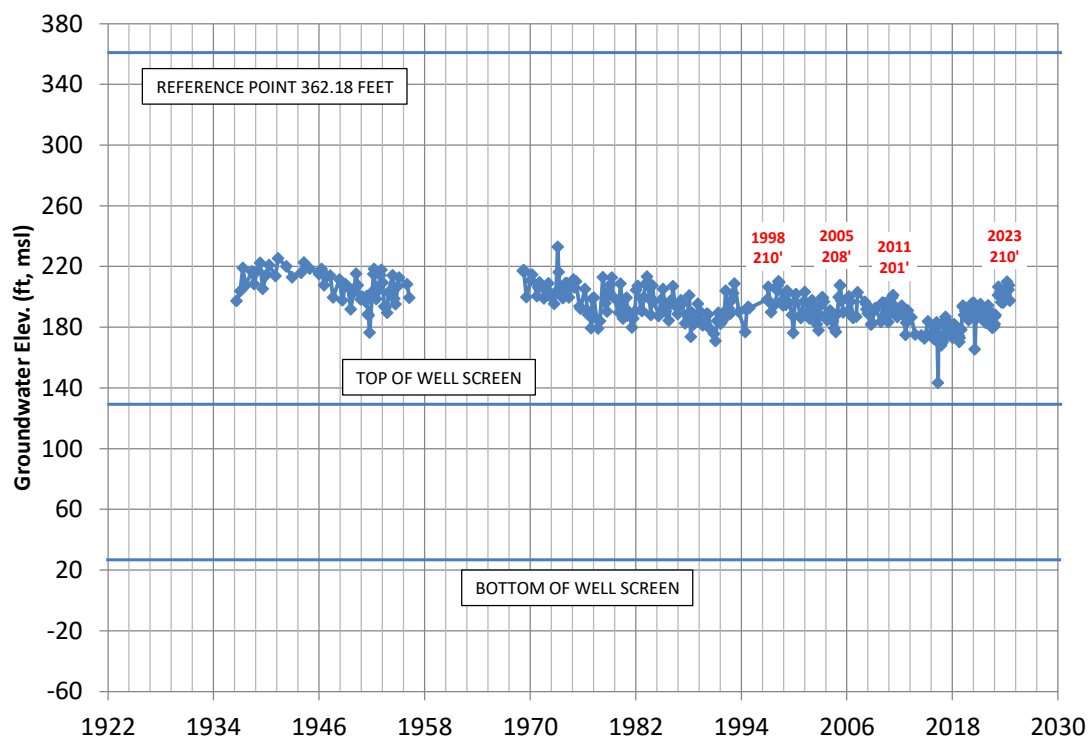
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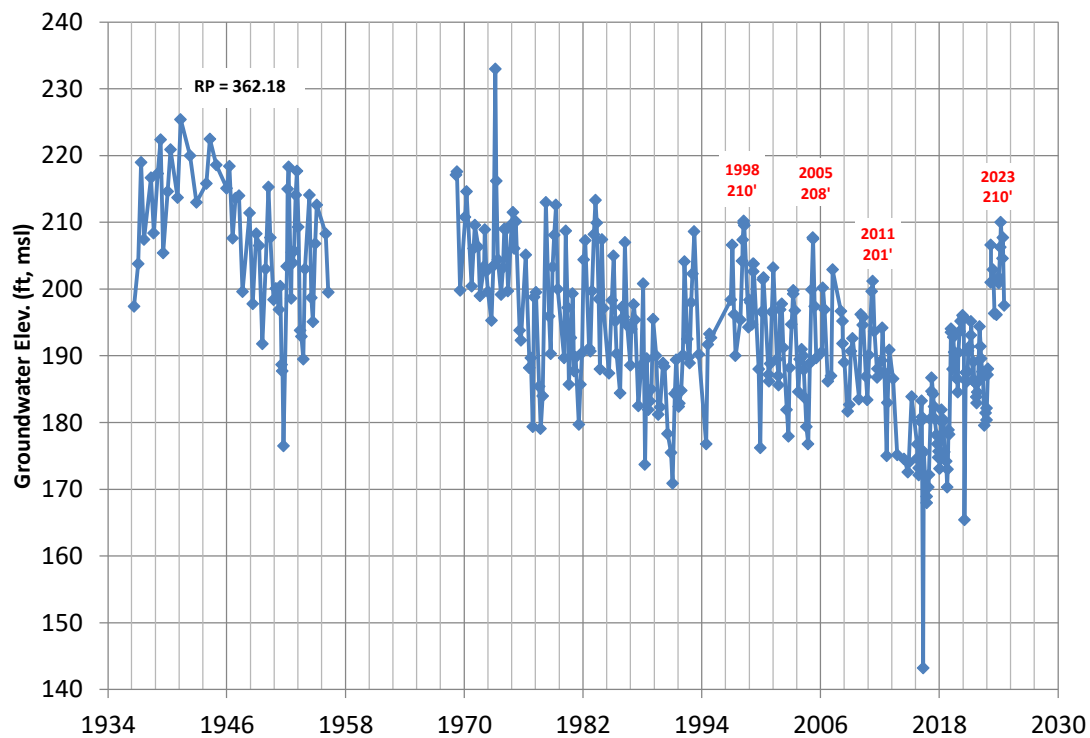
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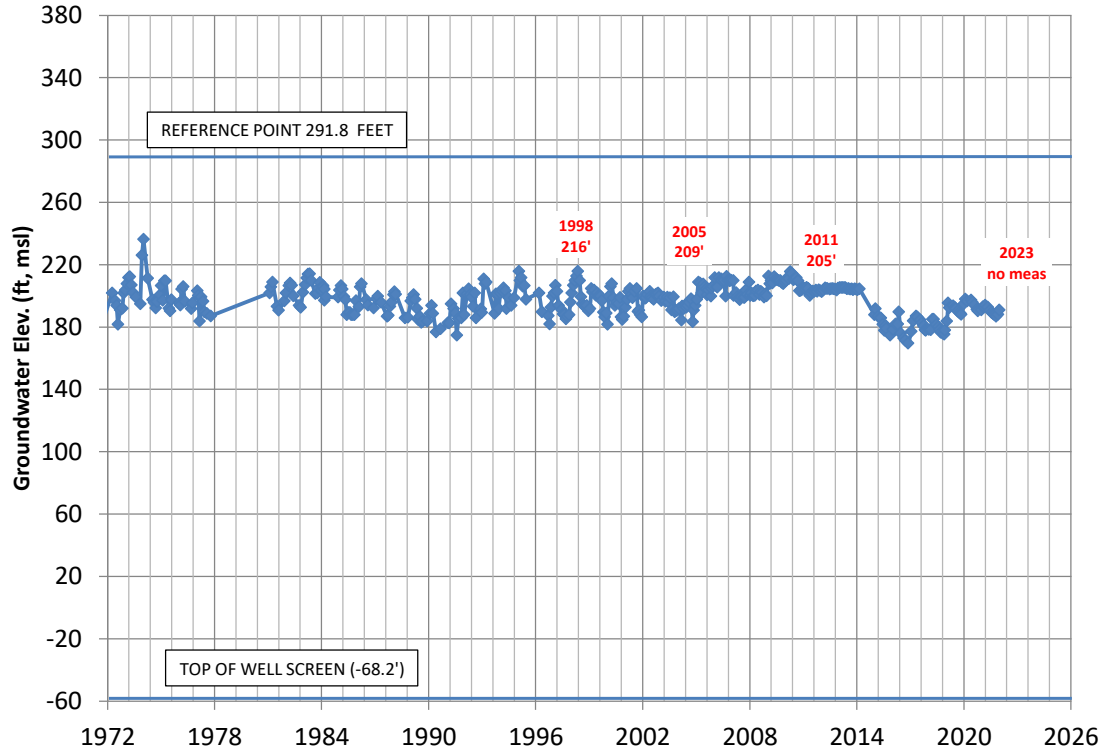
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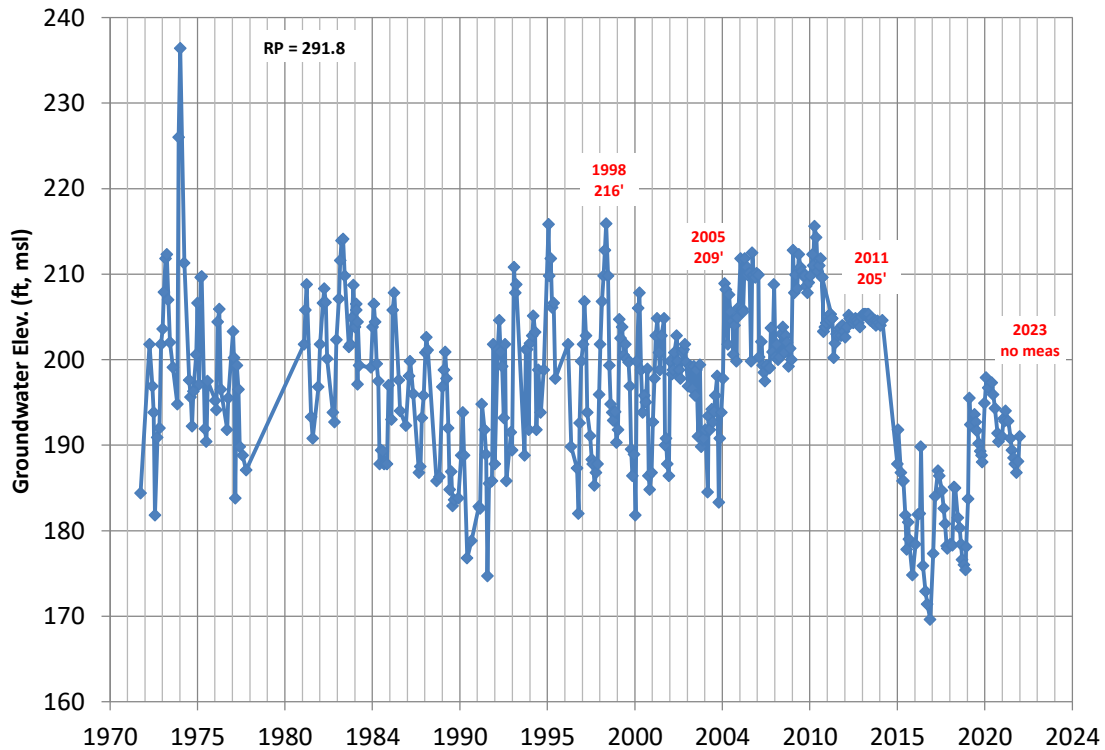
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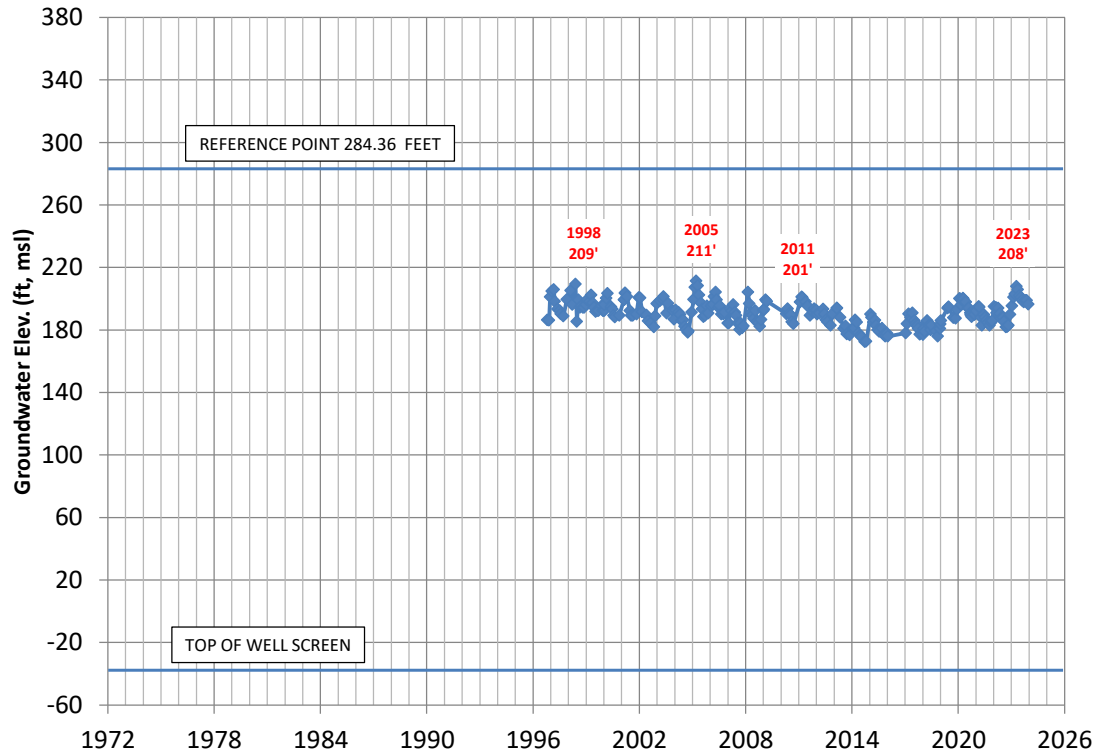
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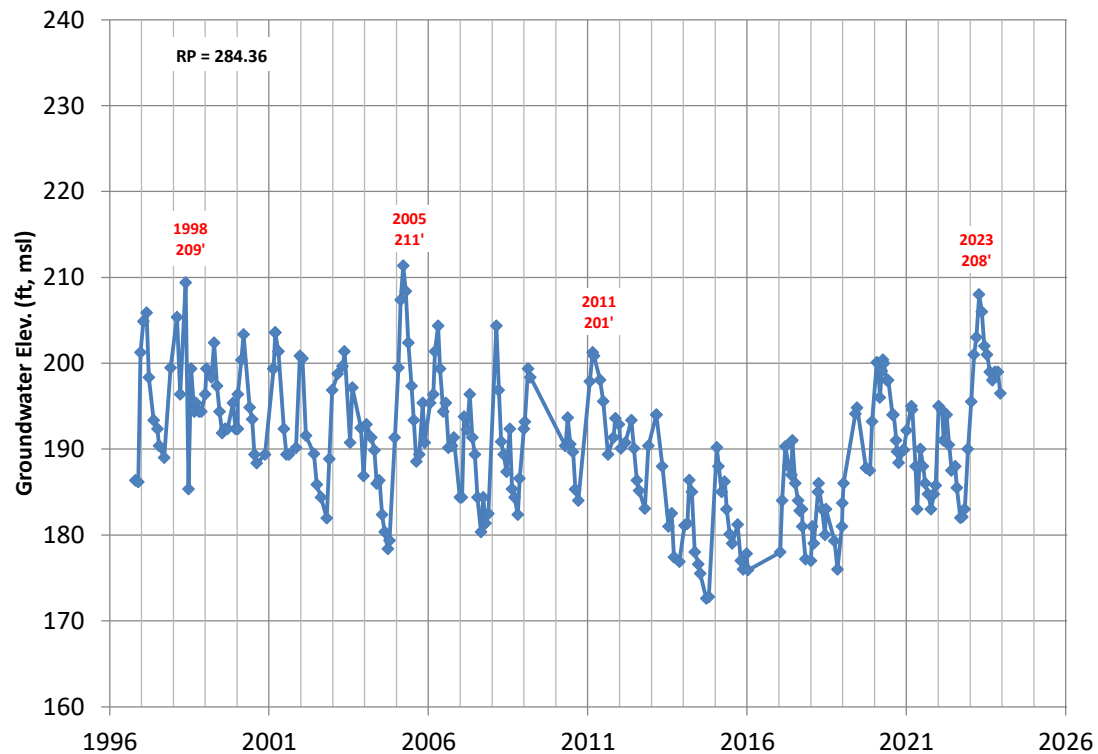
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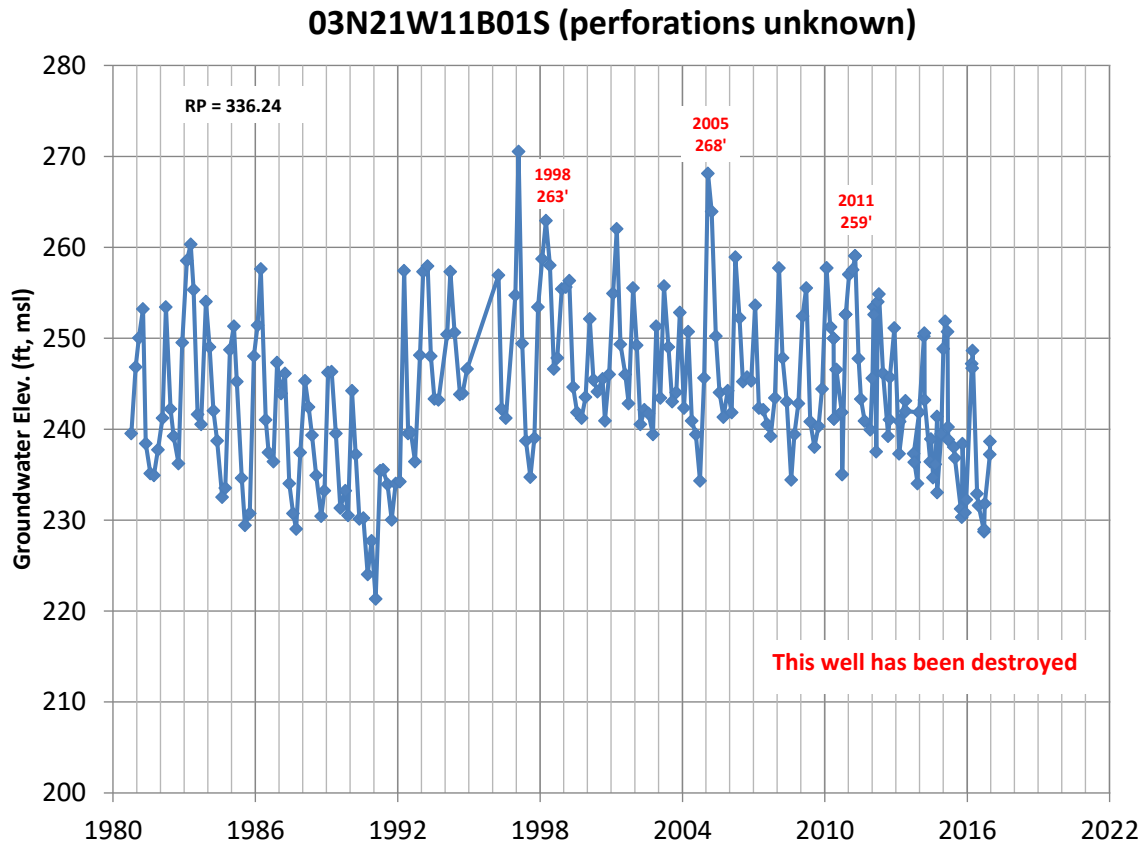
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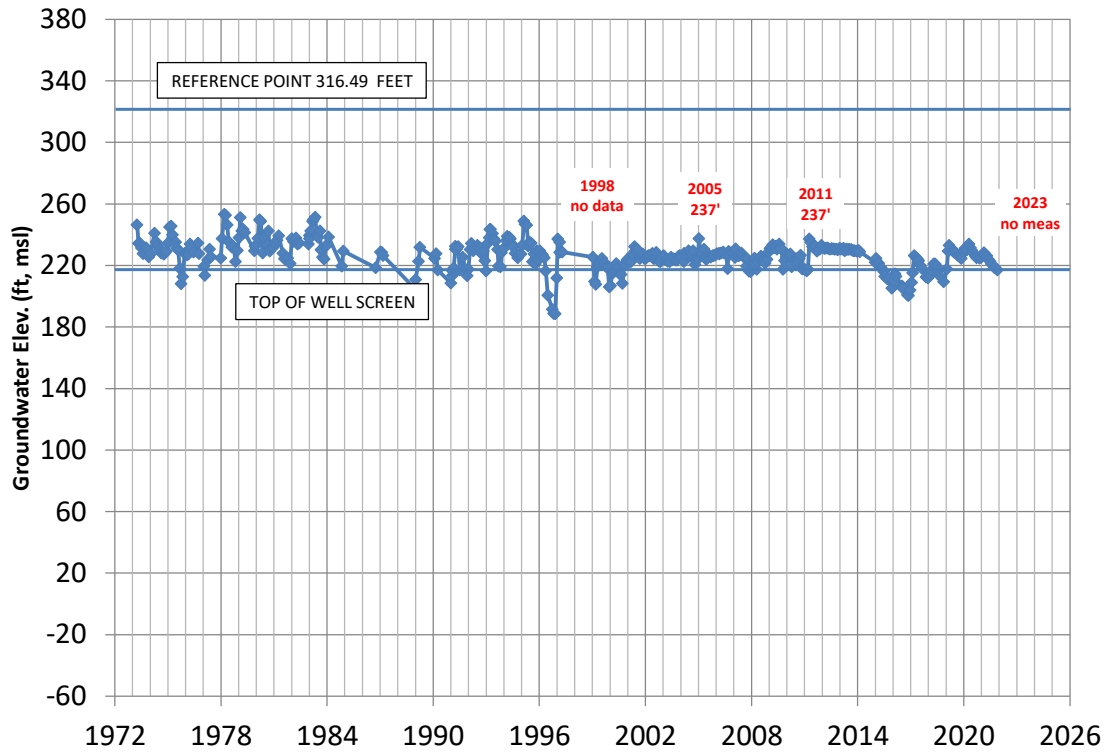
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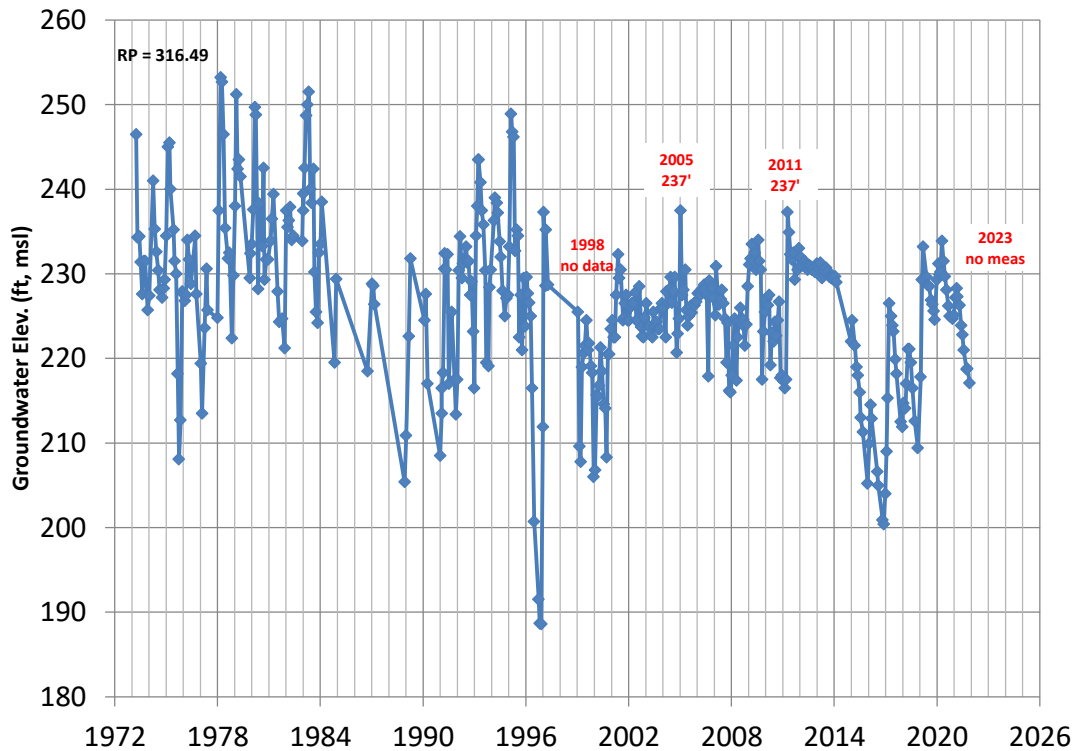
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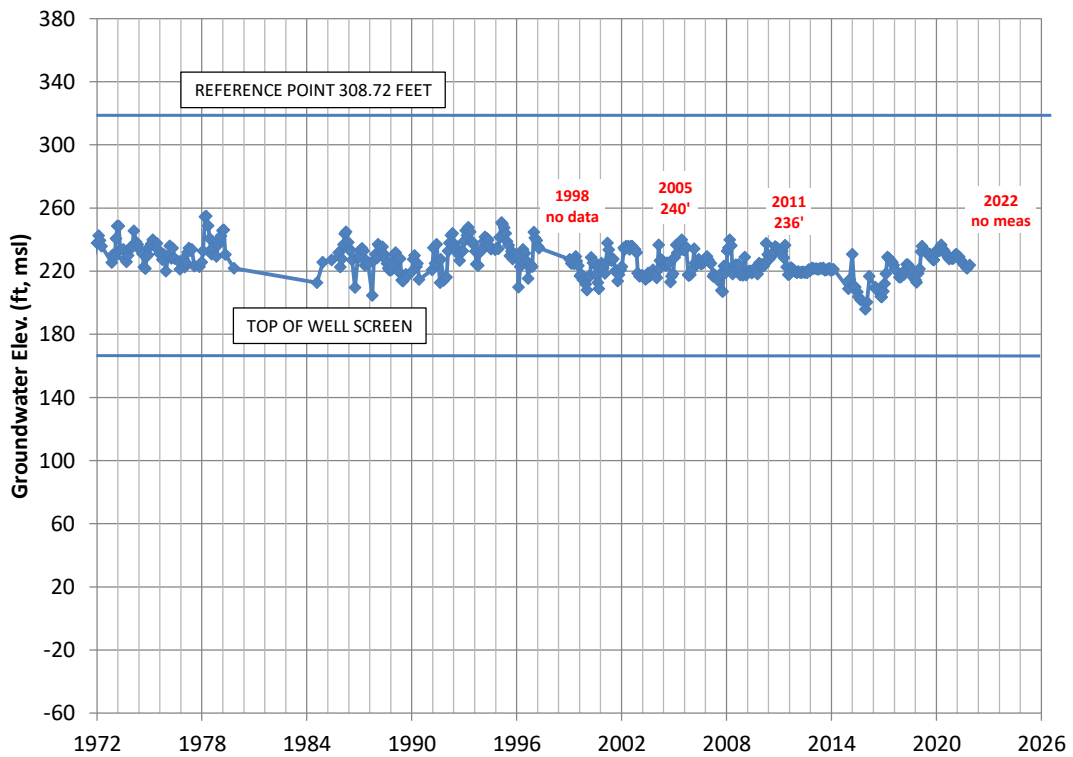
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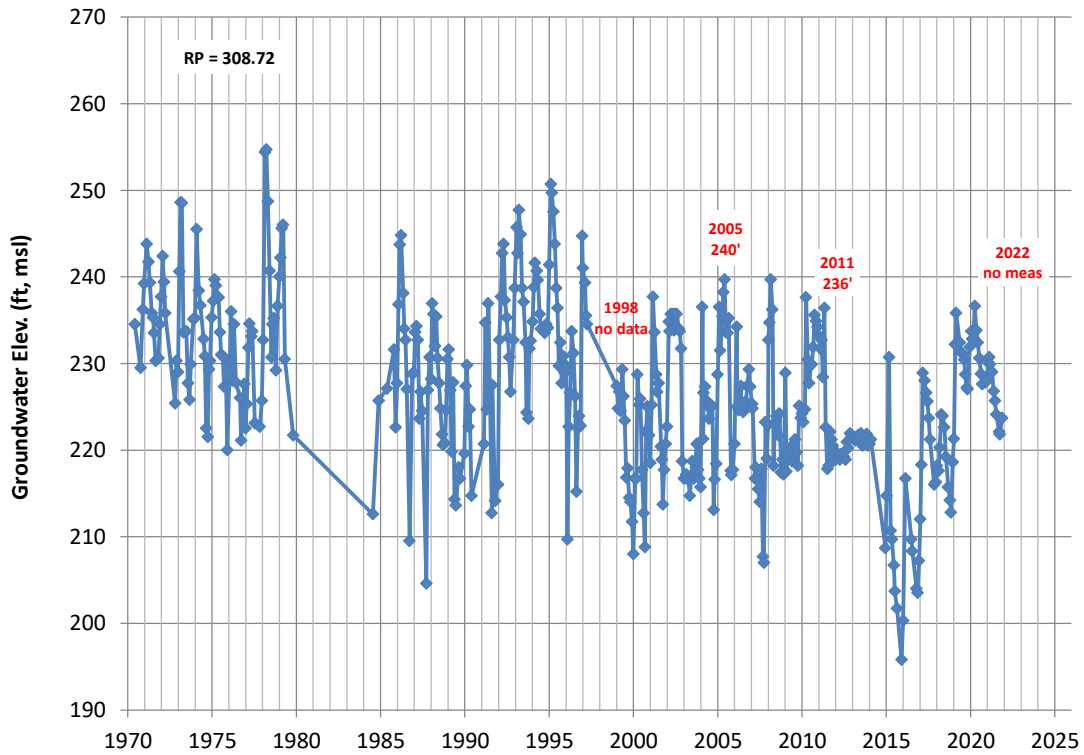
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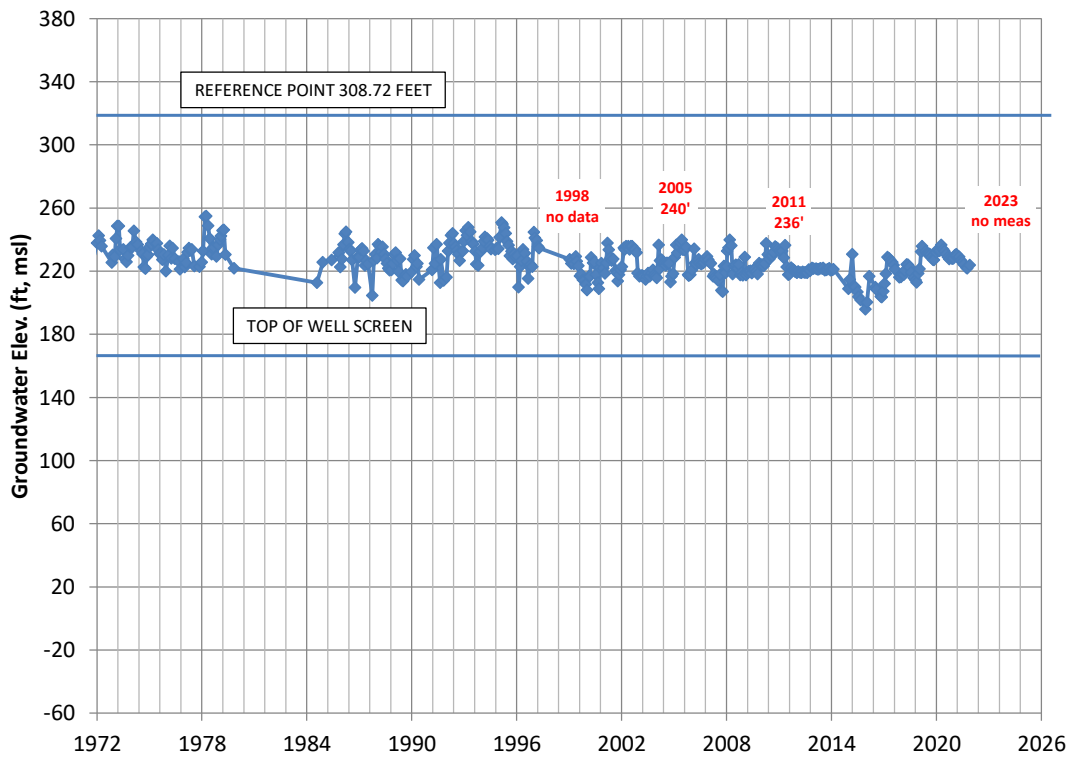
03N21W11F03S (153' -518' bgs)



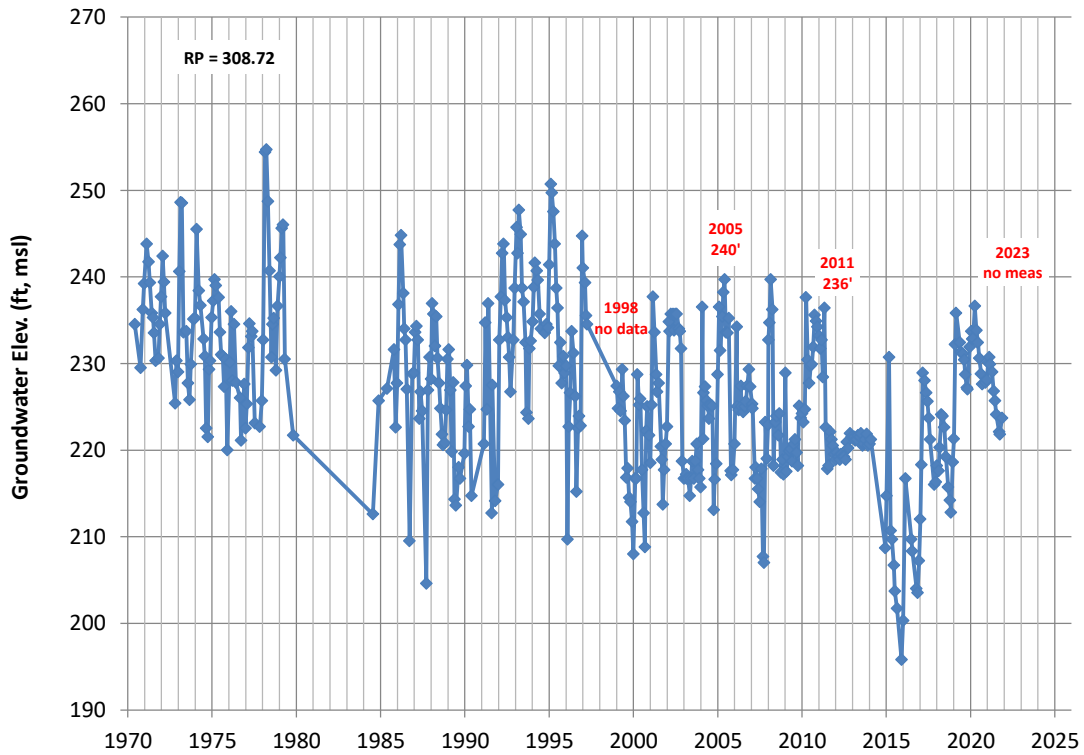
03N21W11F03S (153' -518' bgs)



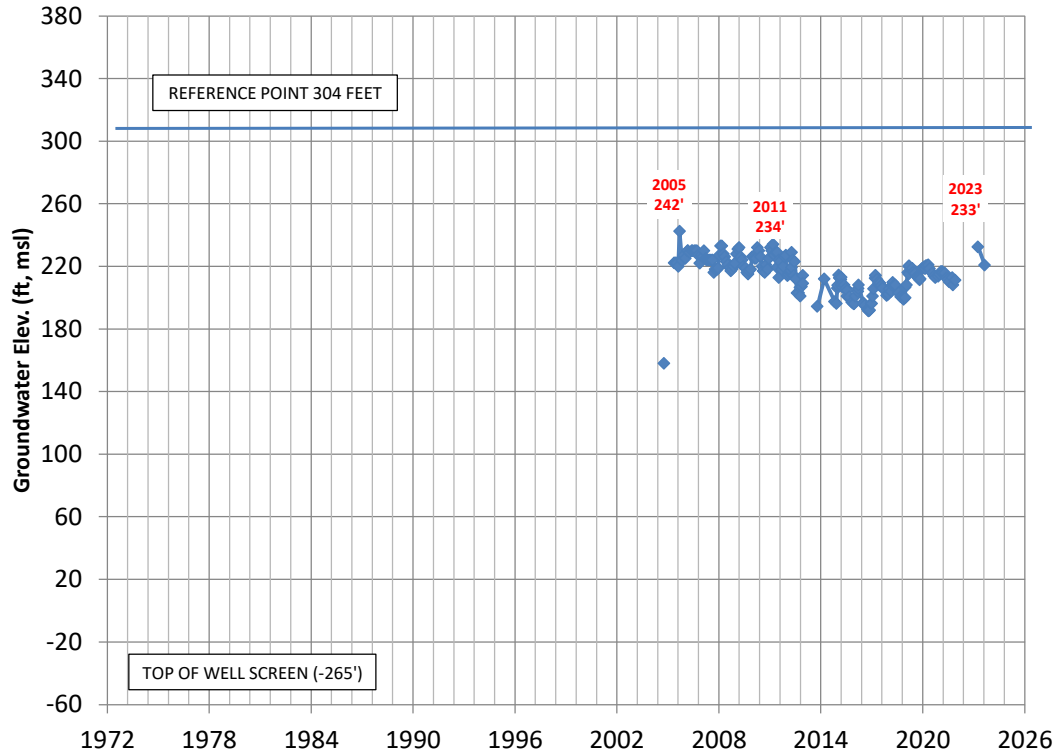
03N21W11F03S (153' -518' bgs)



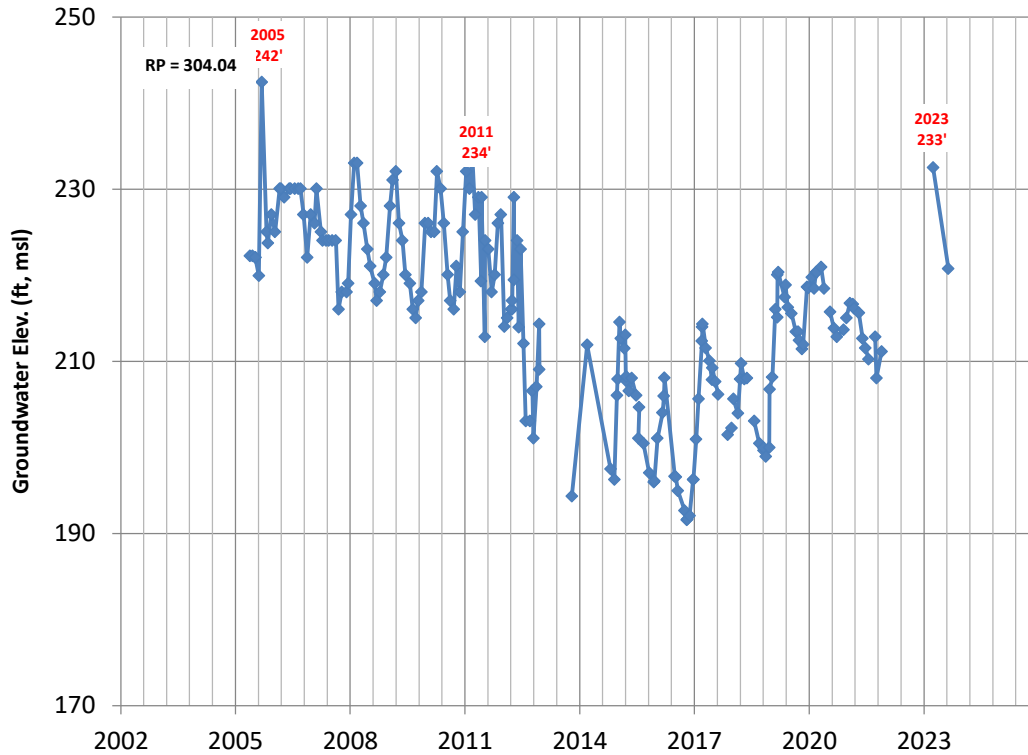
03N21W11F03S (153' -518' bgs)



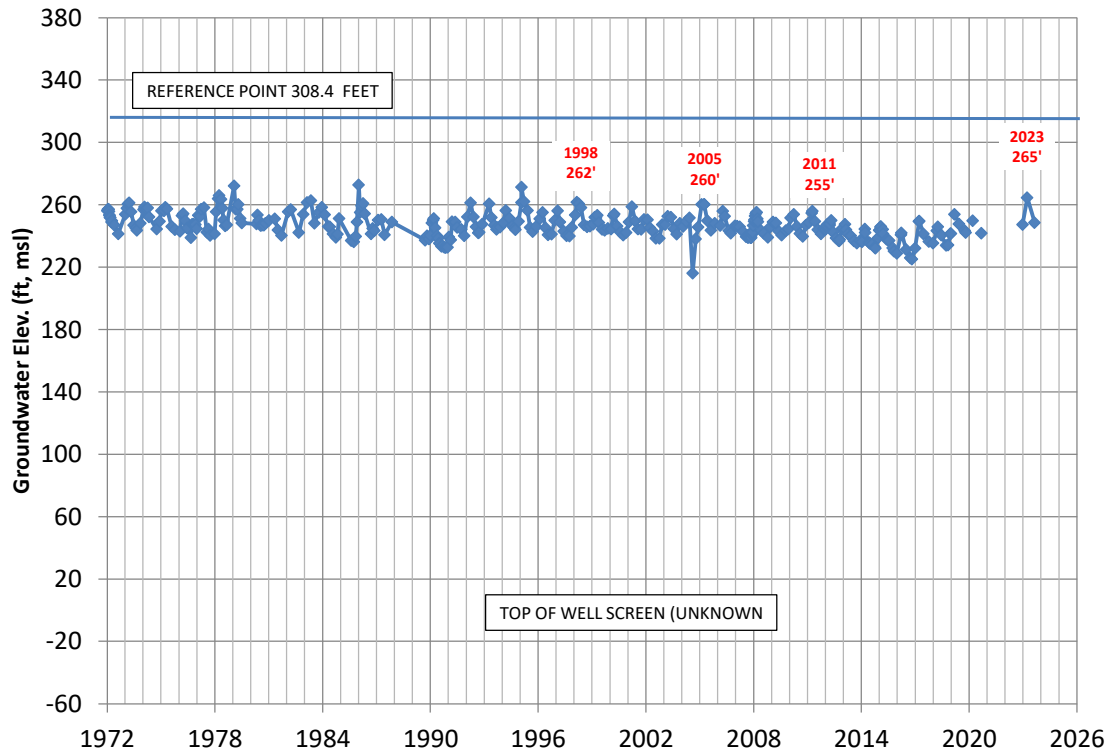
03N21W11F04S (570' - 850' bgs)



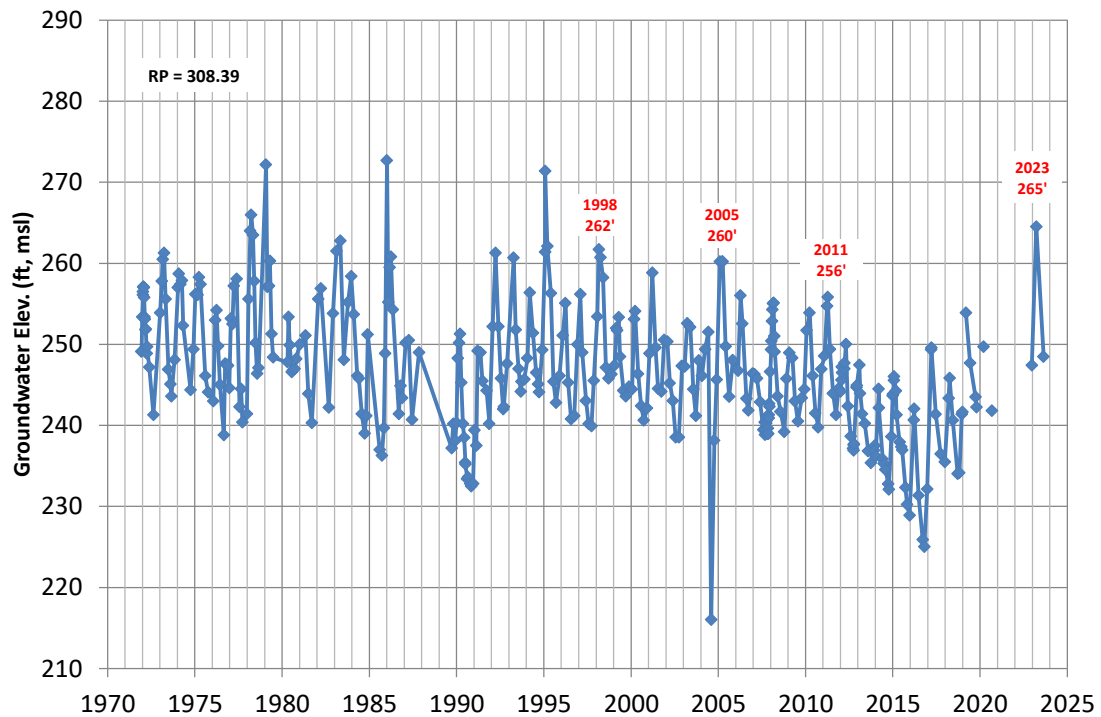
03N21W11F04S (570' - 850' bgs)



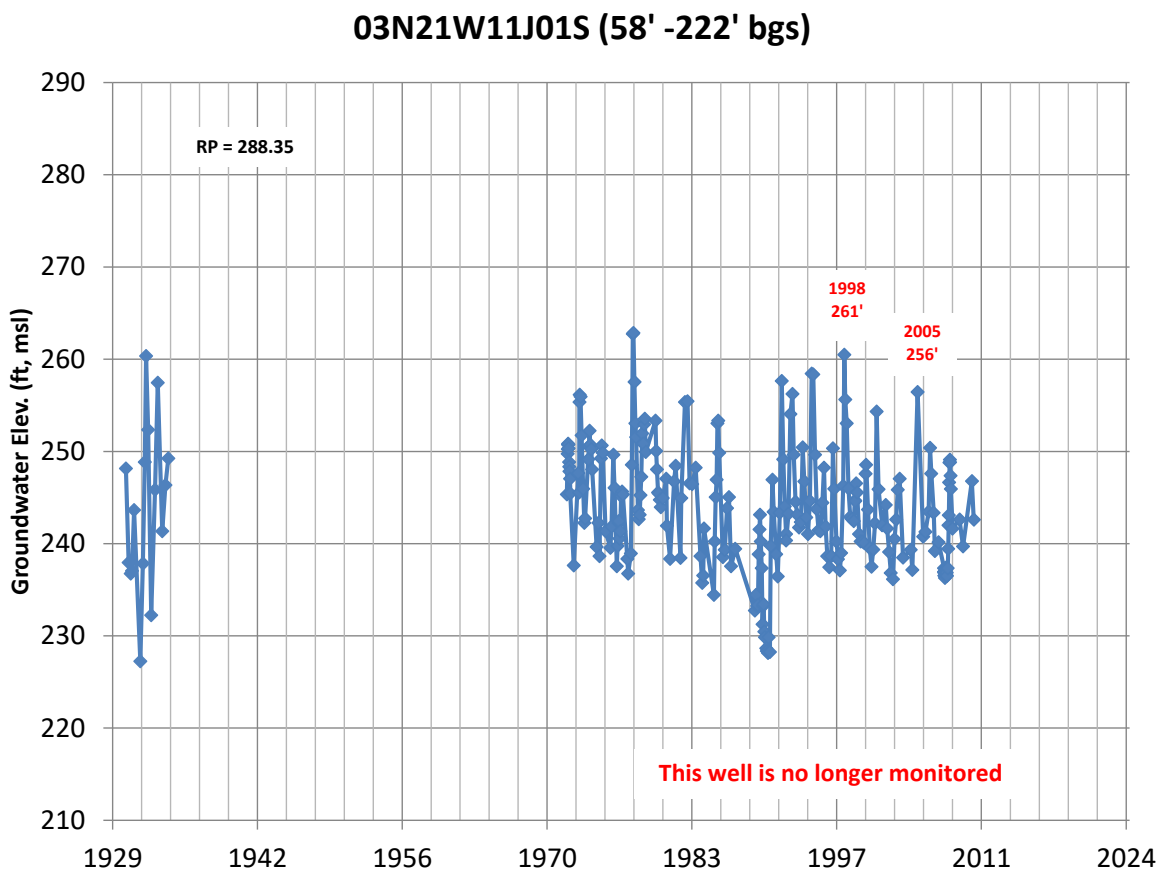
03N21W11H03S (perforations unknown)



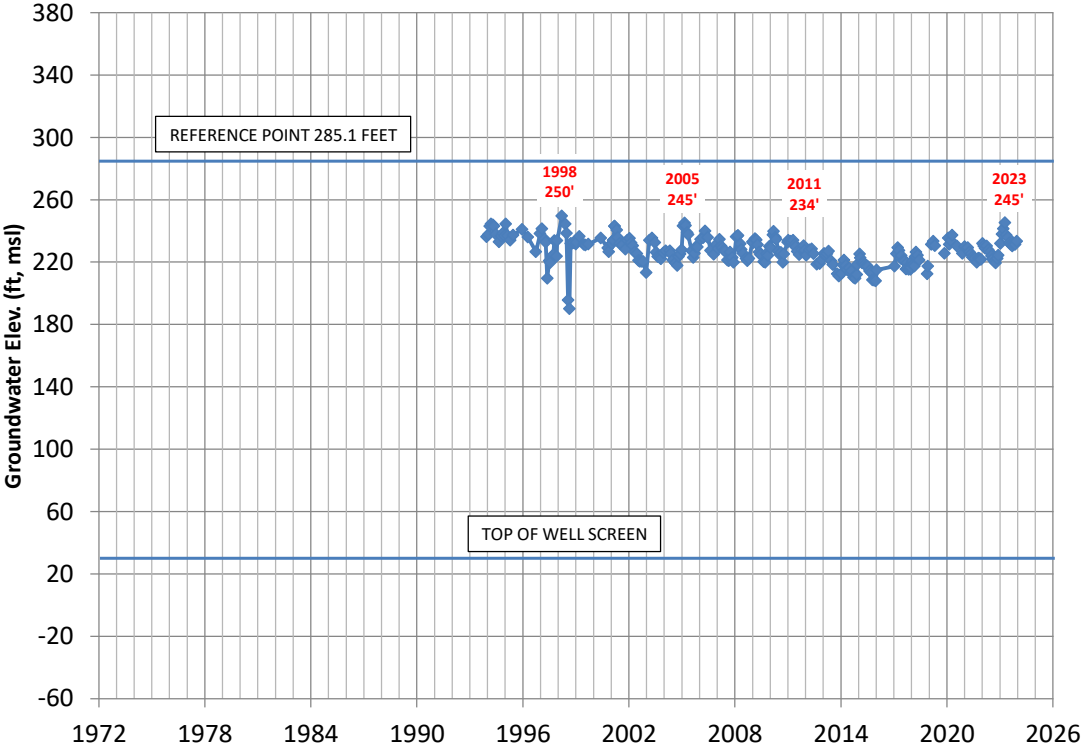
03N21W11H03S (depth = 230)



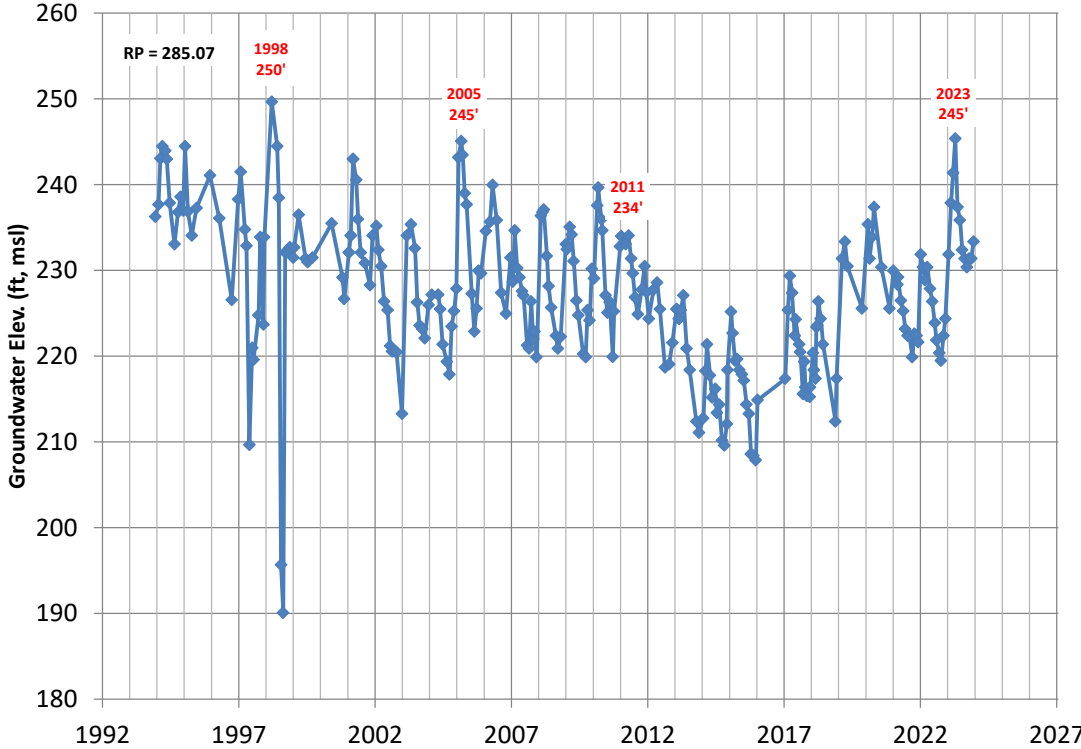
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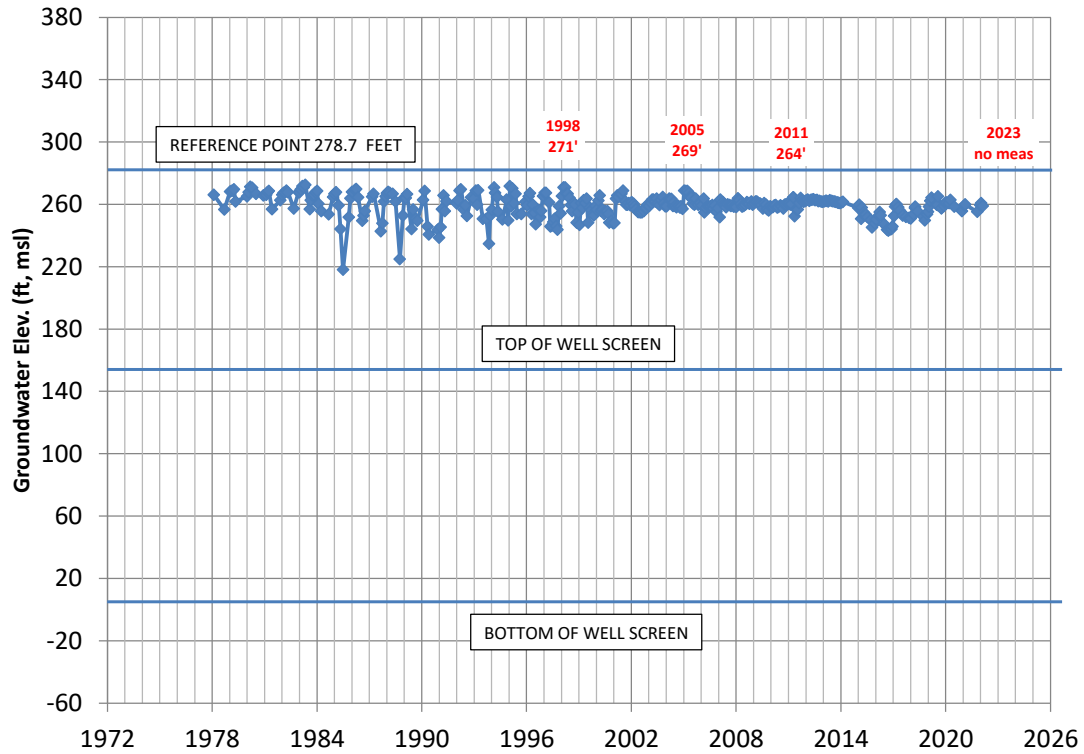
03N21W11J02S (260' - 770' bgs)



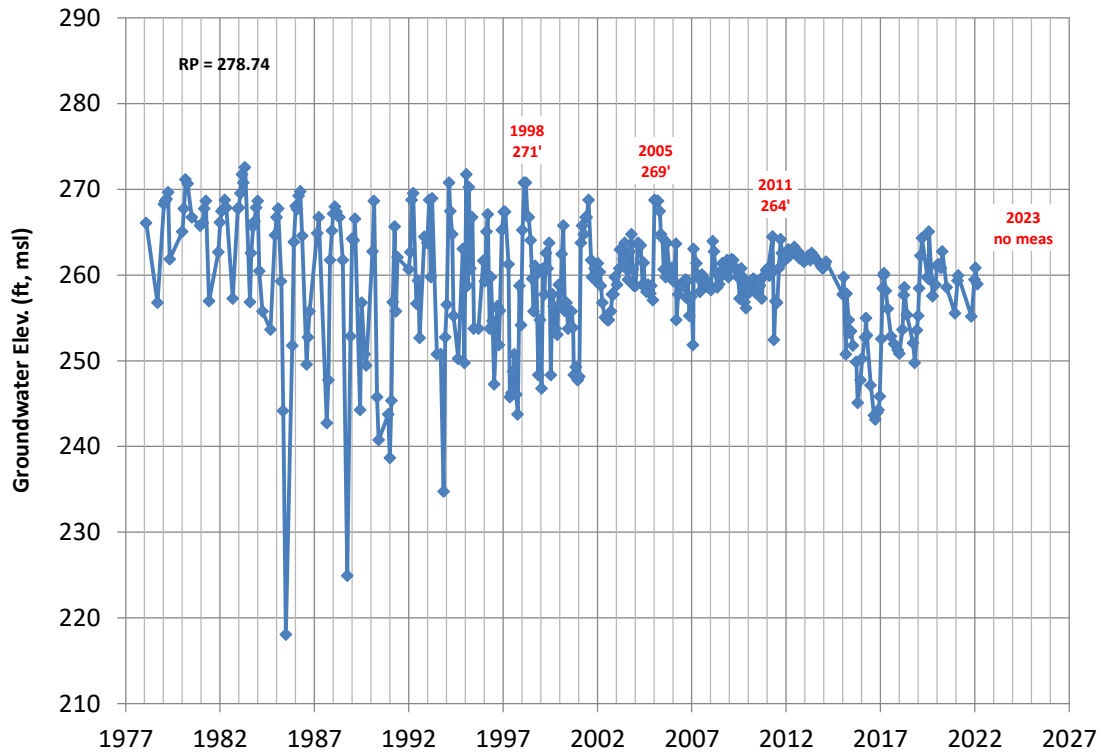
03N21W11J02S (260' - 700' bgs)



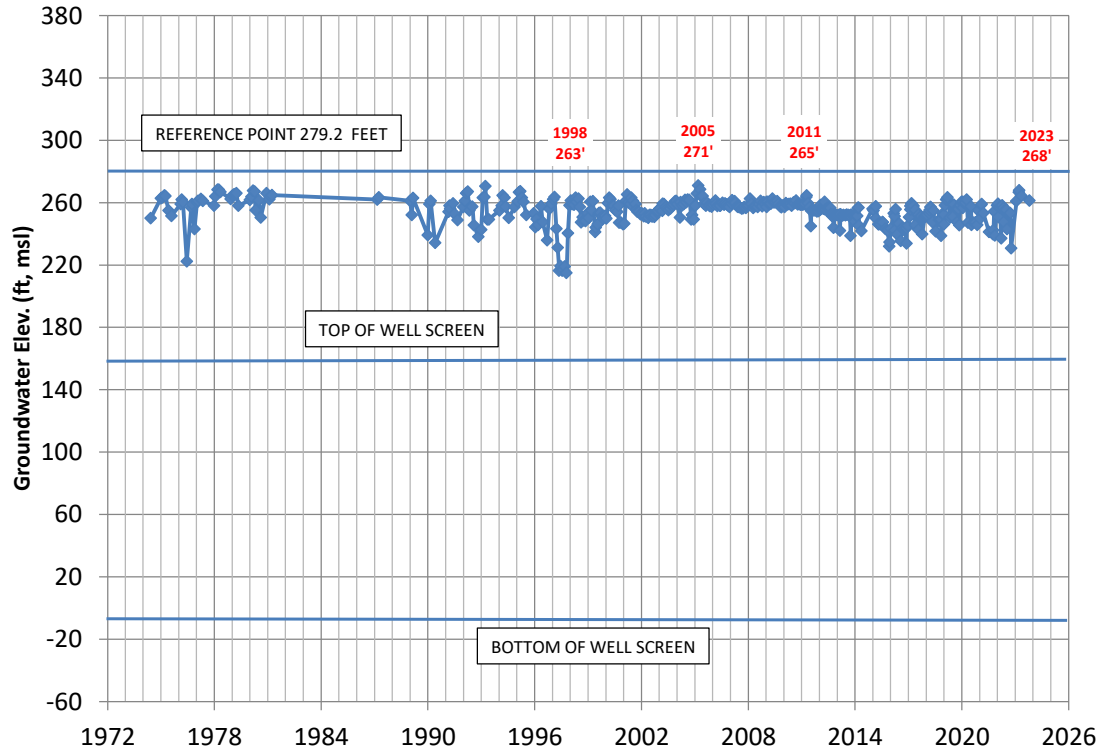
03N21W12E04S (120' - 284' bgs)



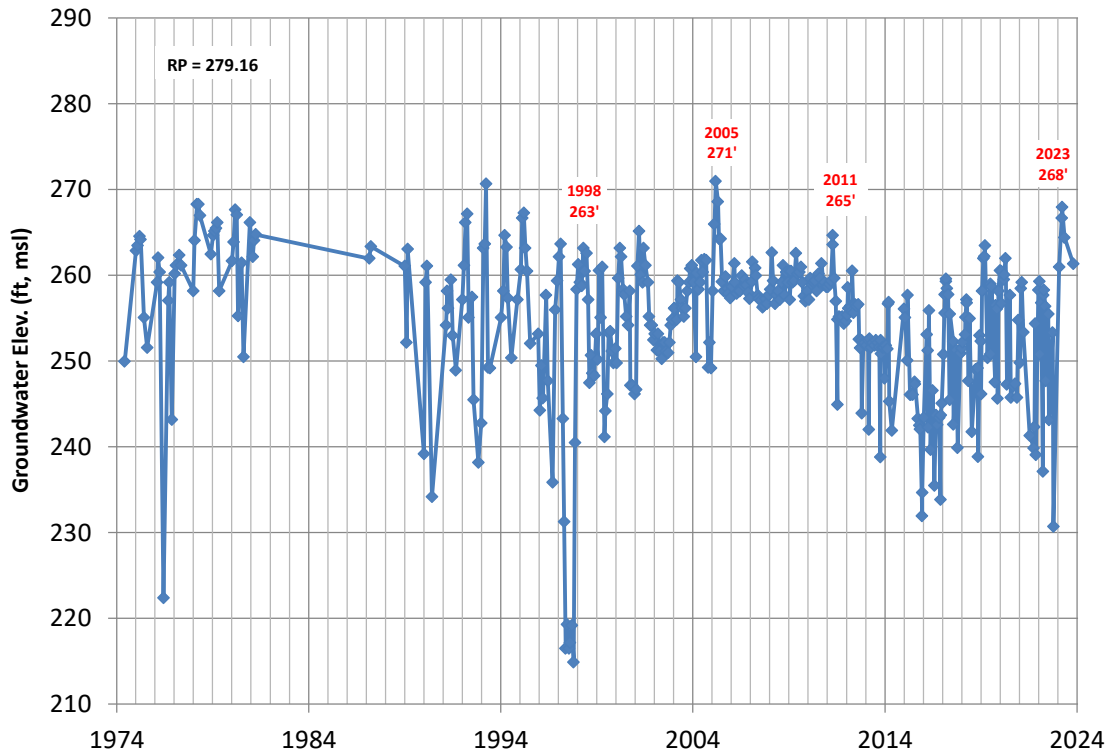
03N21W12E04S (120' - 284' bgs)



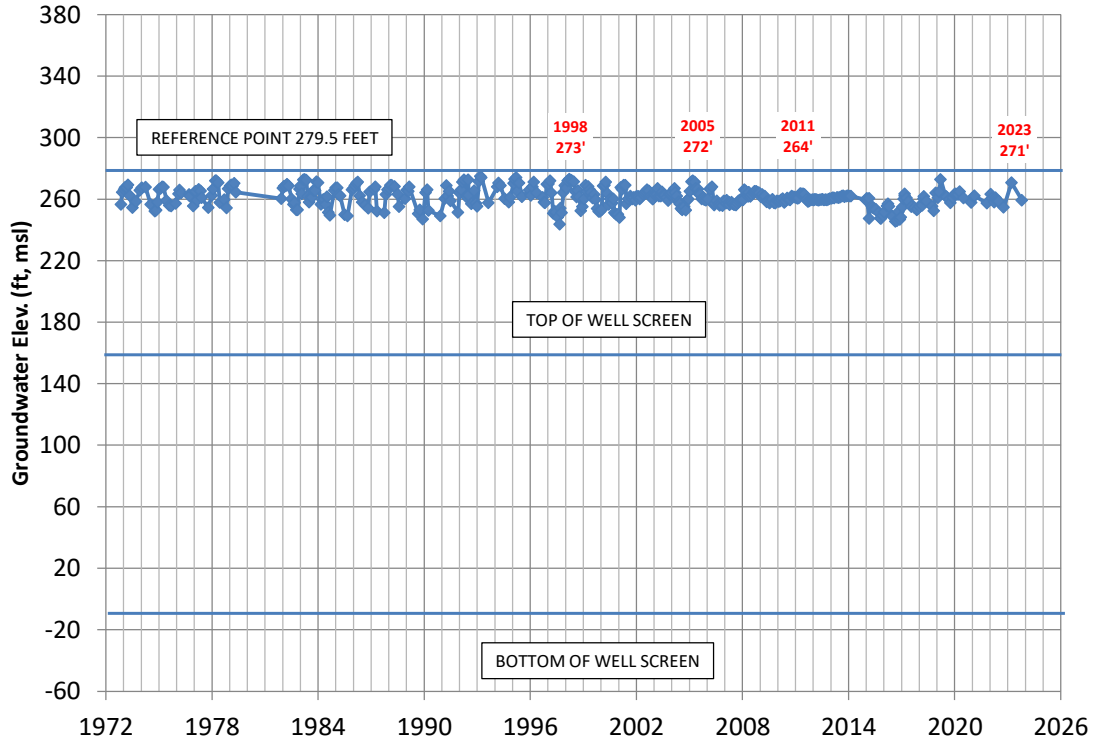
03N21W12E08S (120' - 285' bgs)



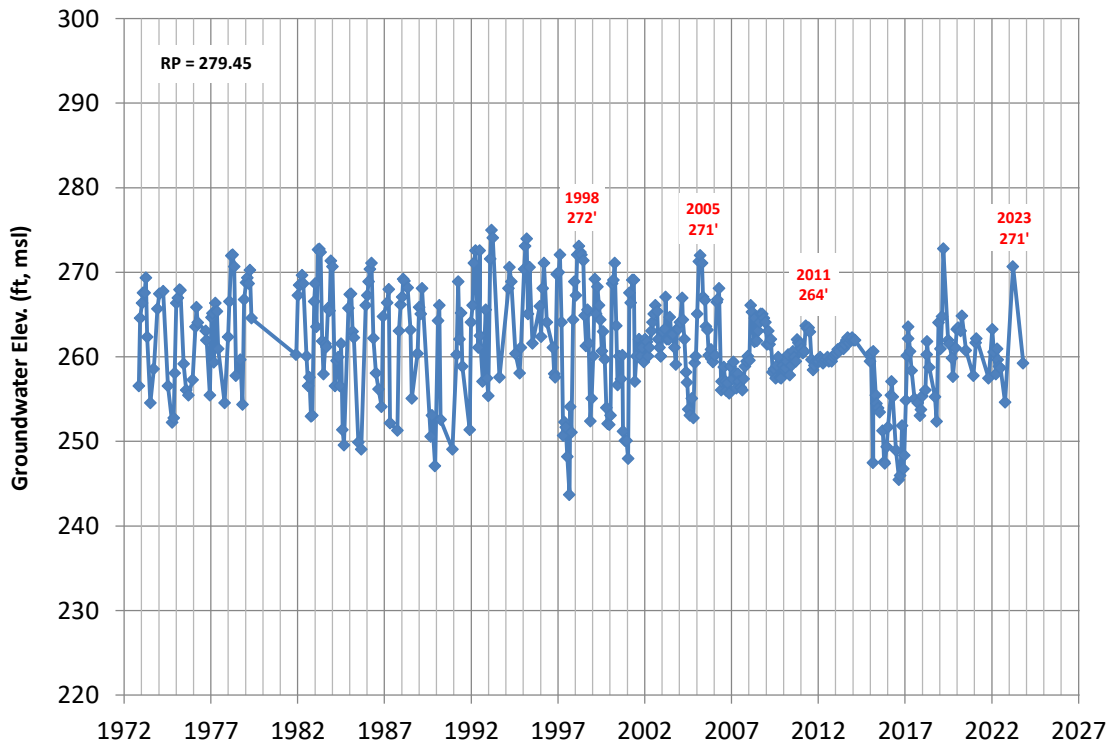
03N21W12E08S (120' - 285' bgs)



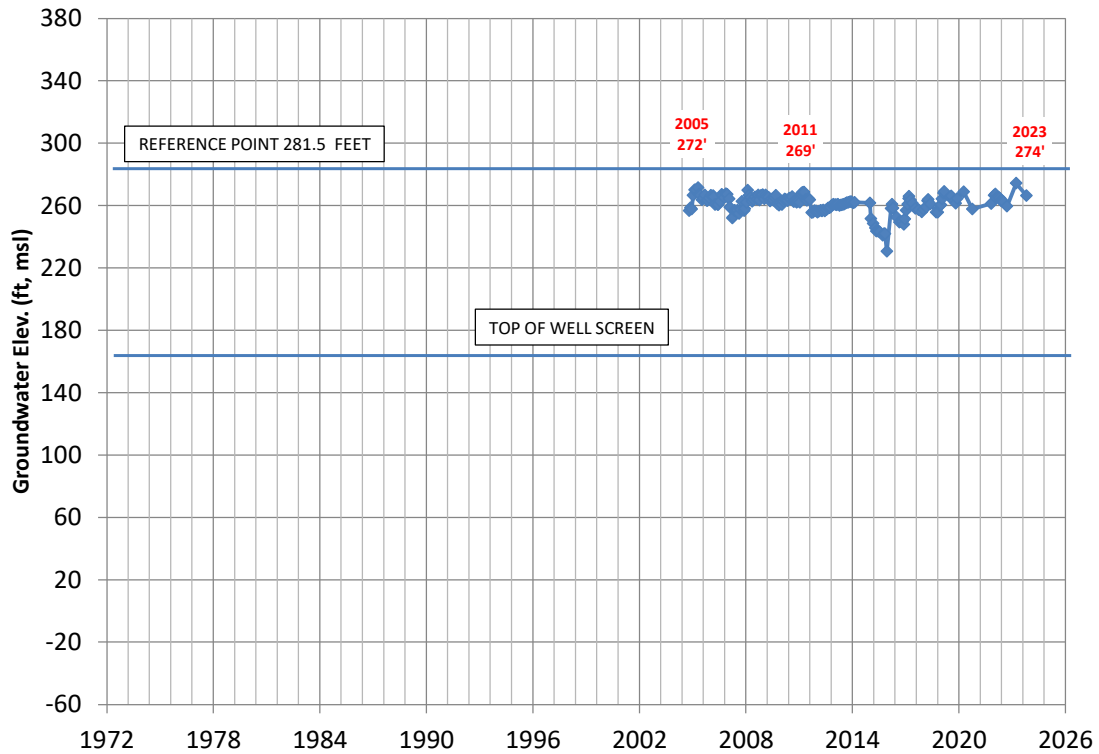
03N21W12F03S (120' - 284' bgs)



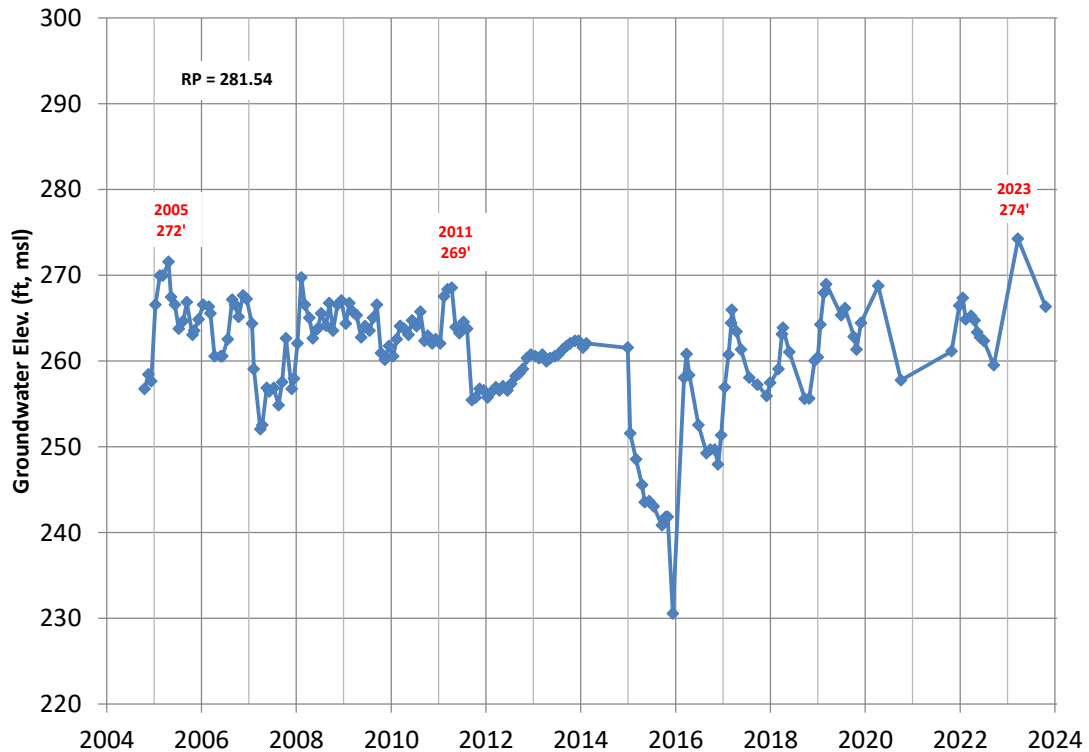
03N21W12F03S (120' - 284' bgs)



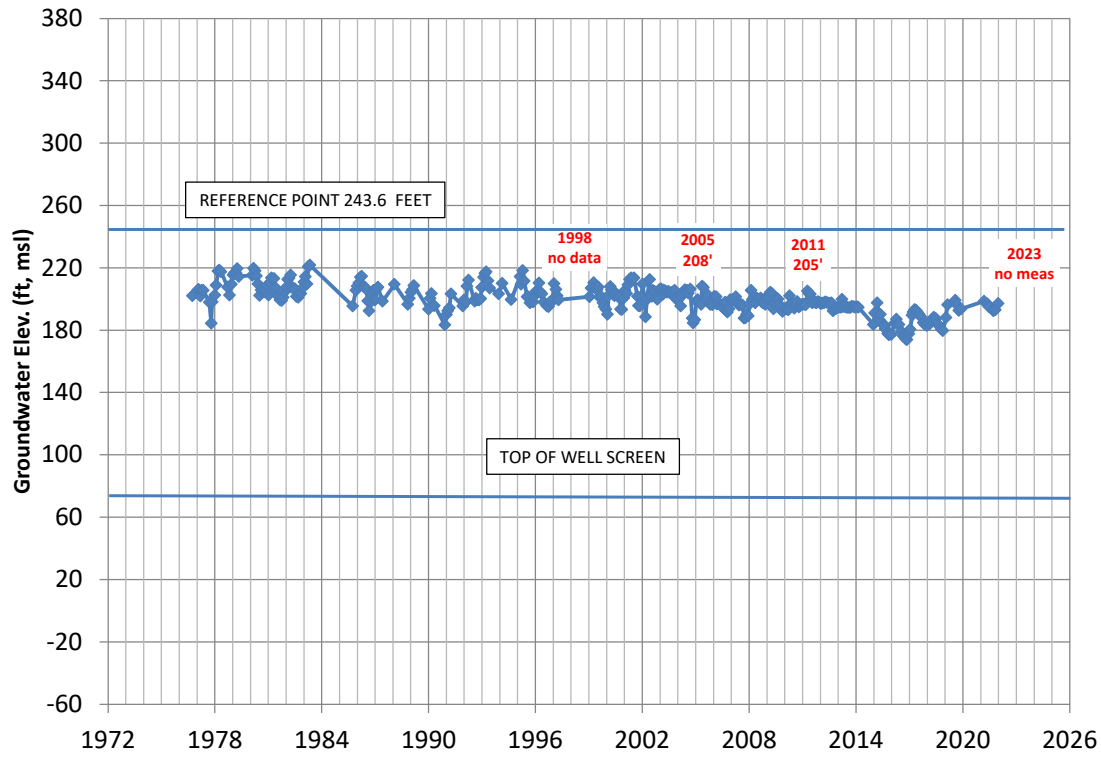
03N21W12F06S (120' - 395' bgs)



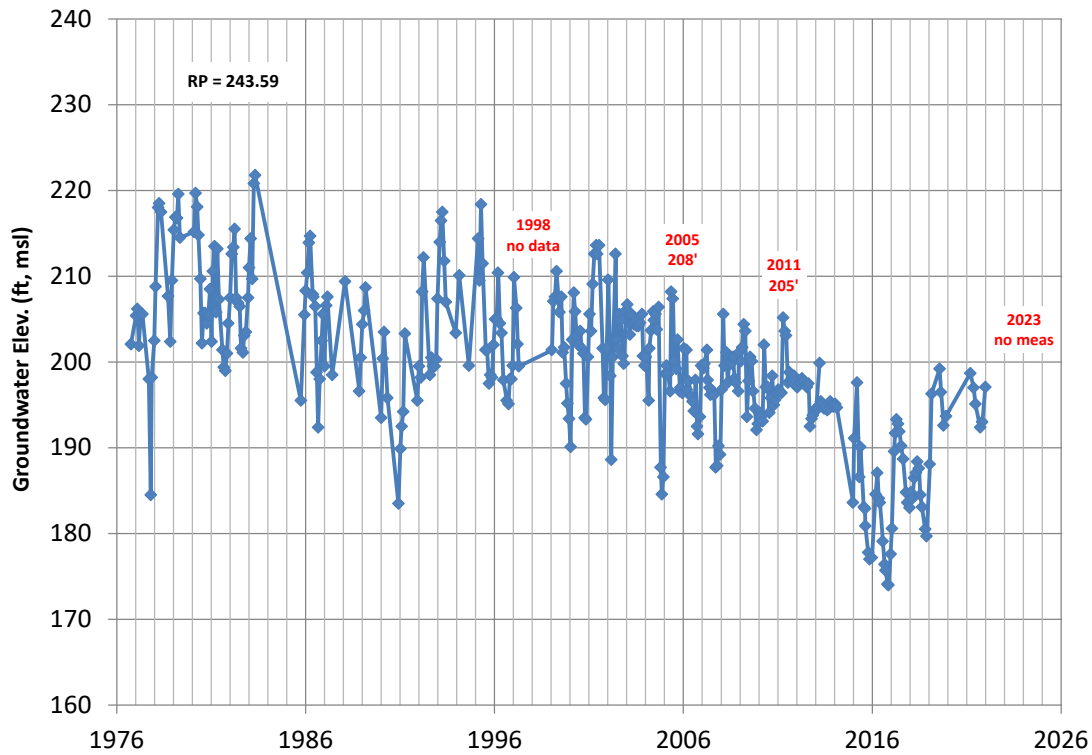
03N21W12F06S (120' - 395' bgs)



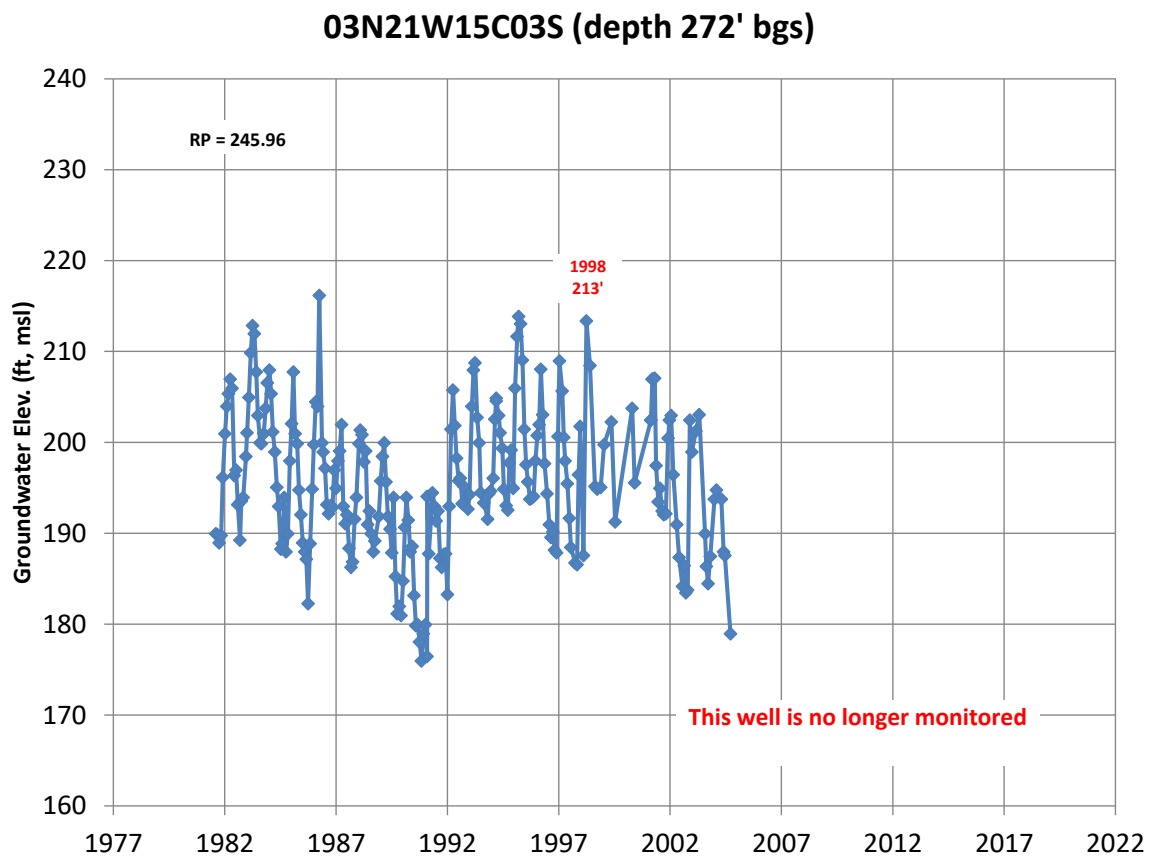
03N21W15C02S (176' - 372' bgs)



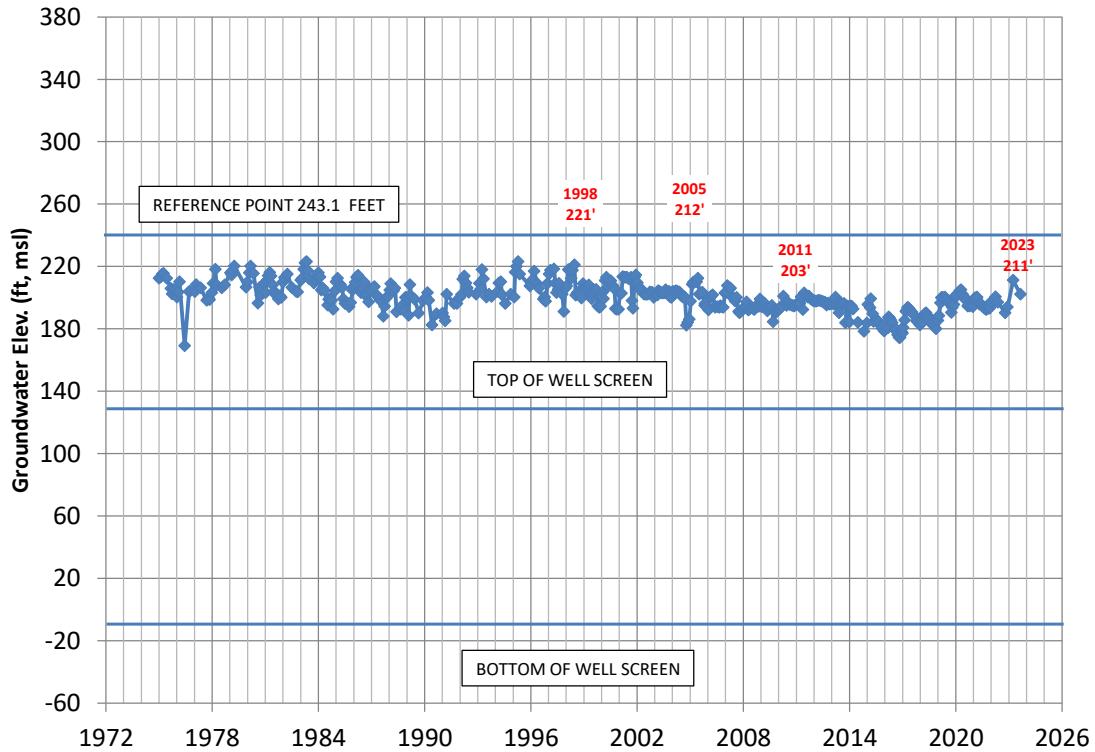
03N21W15C02S (176' - 322' bgs)



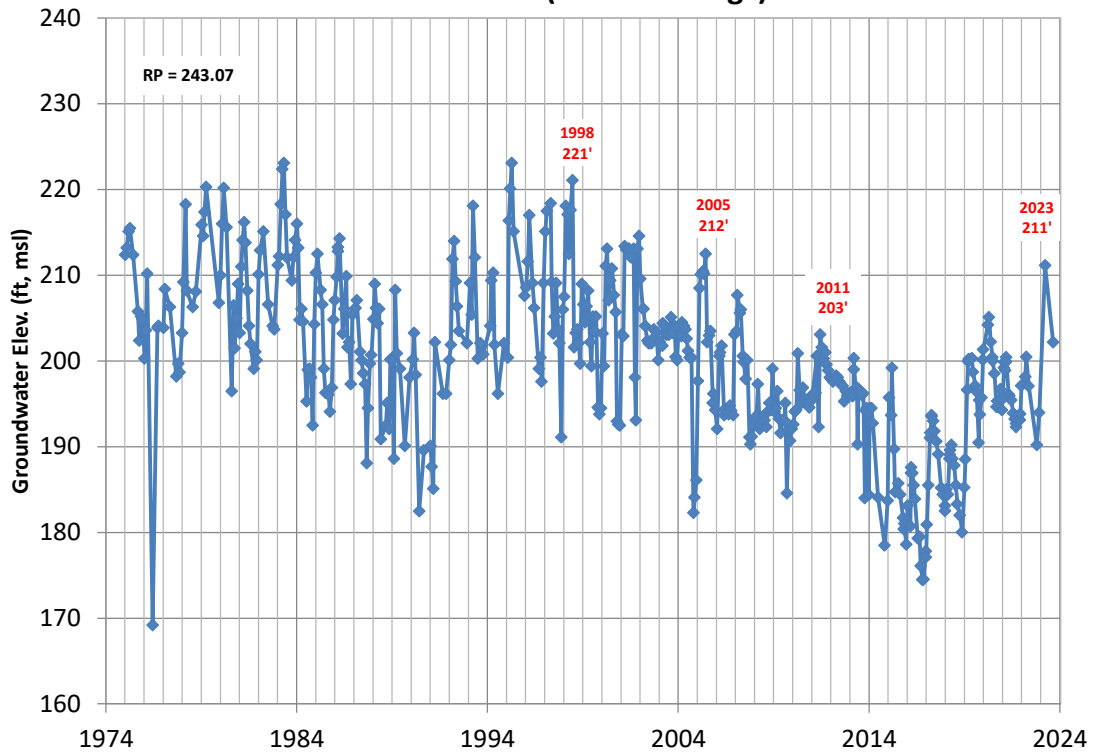
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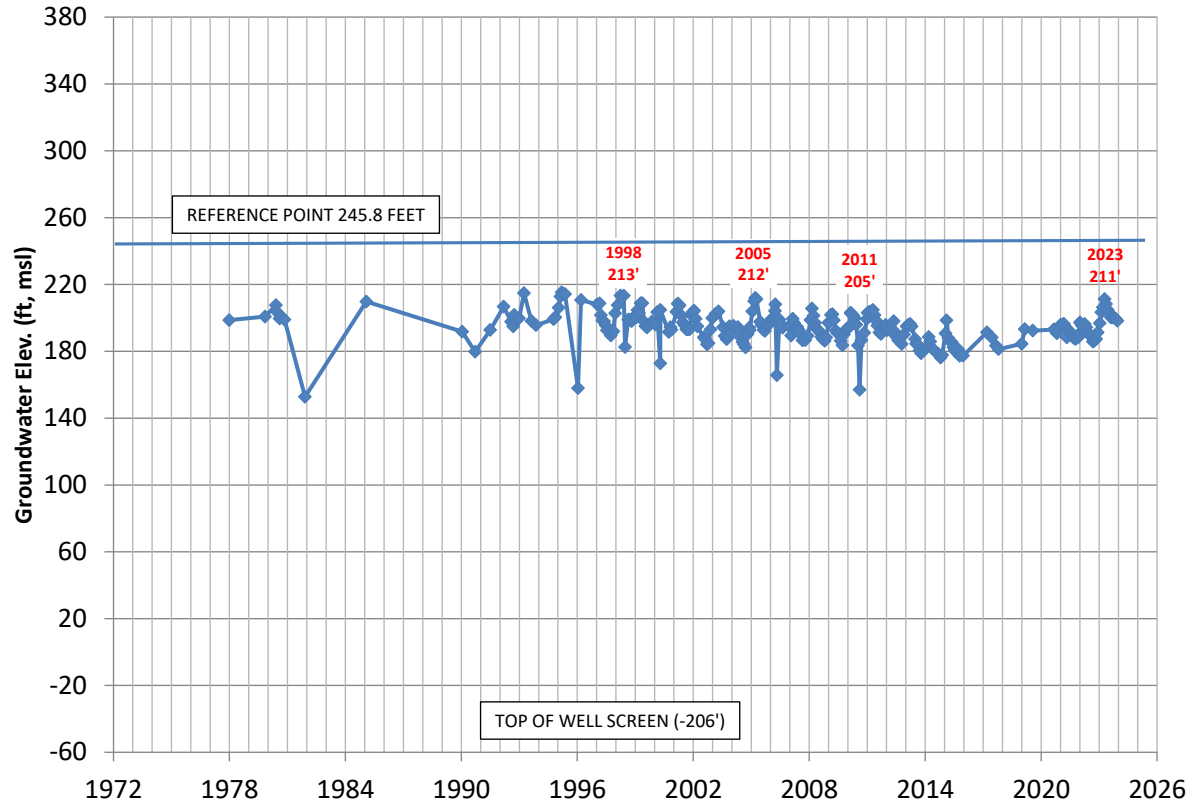
03N21W15C04S (112' - 254' bgs)



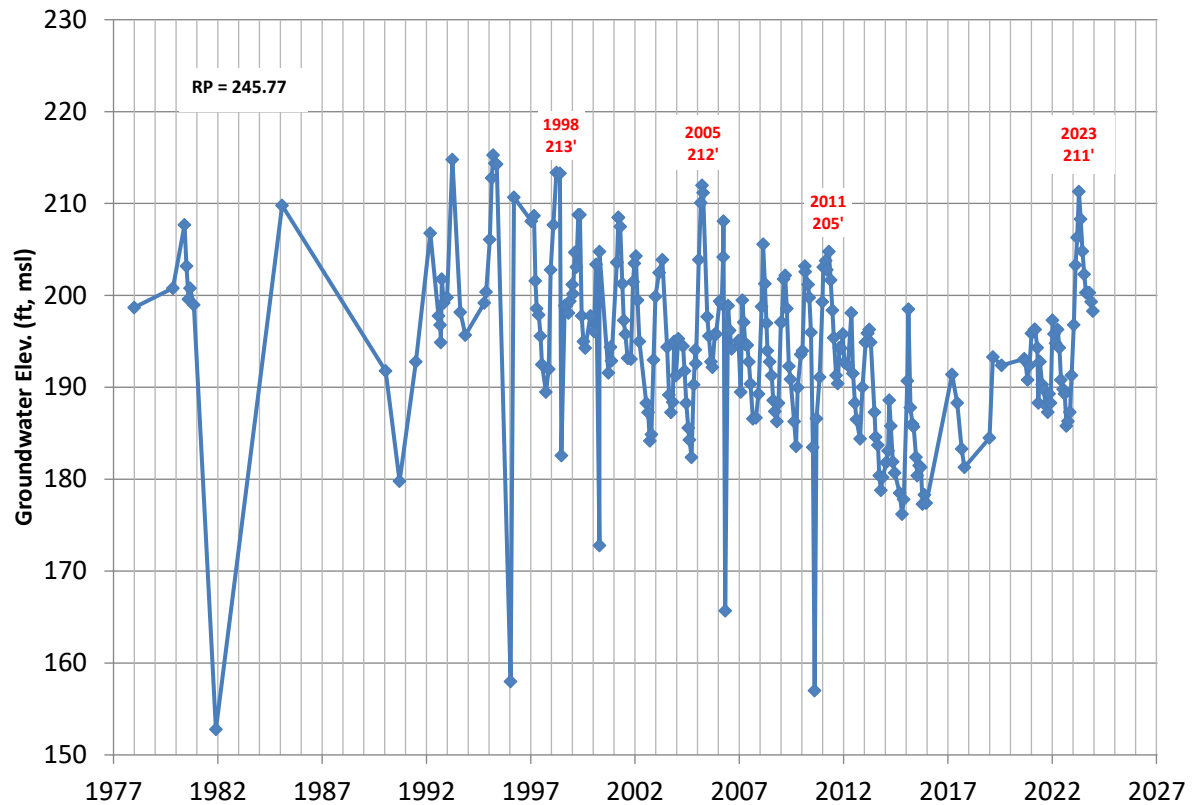
03N21W15C04S (112' - 253' bgs)

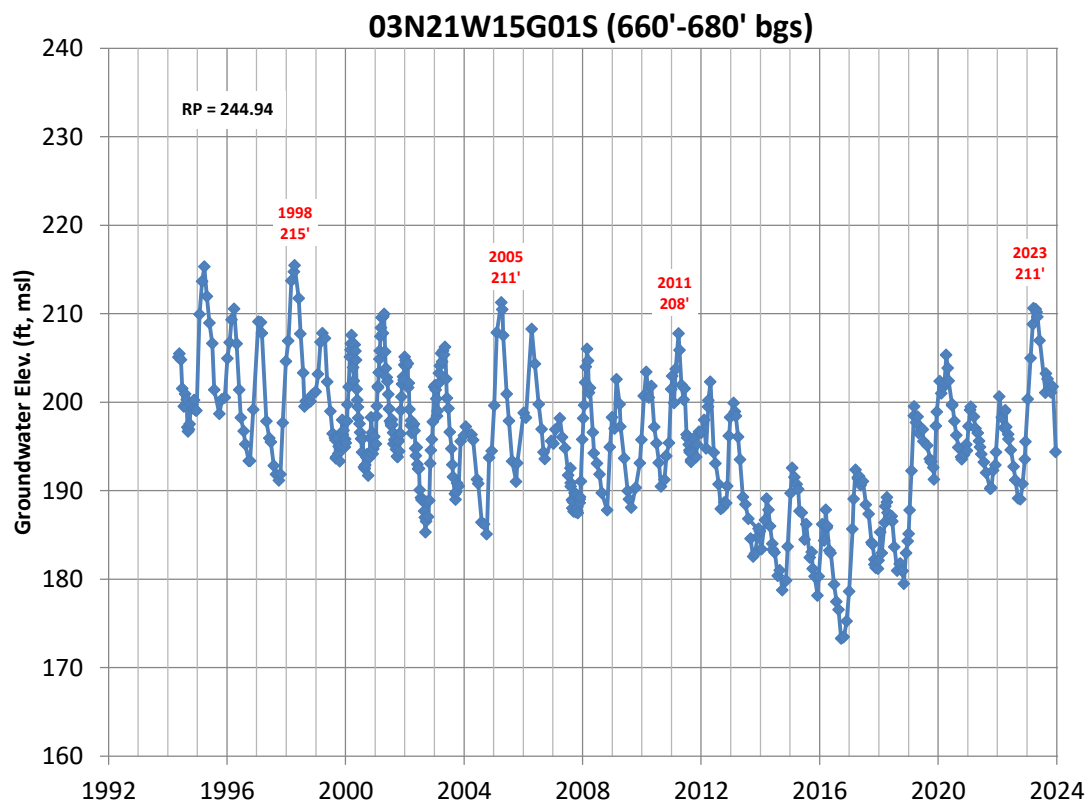
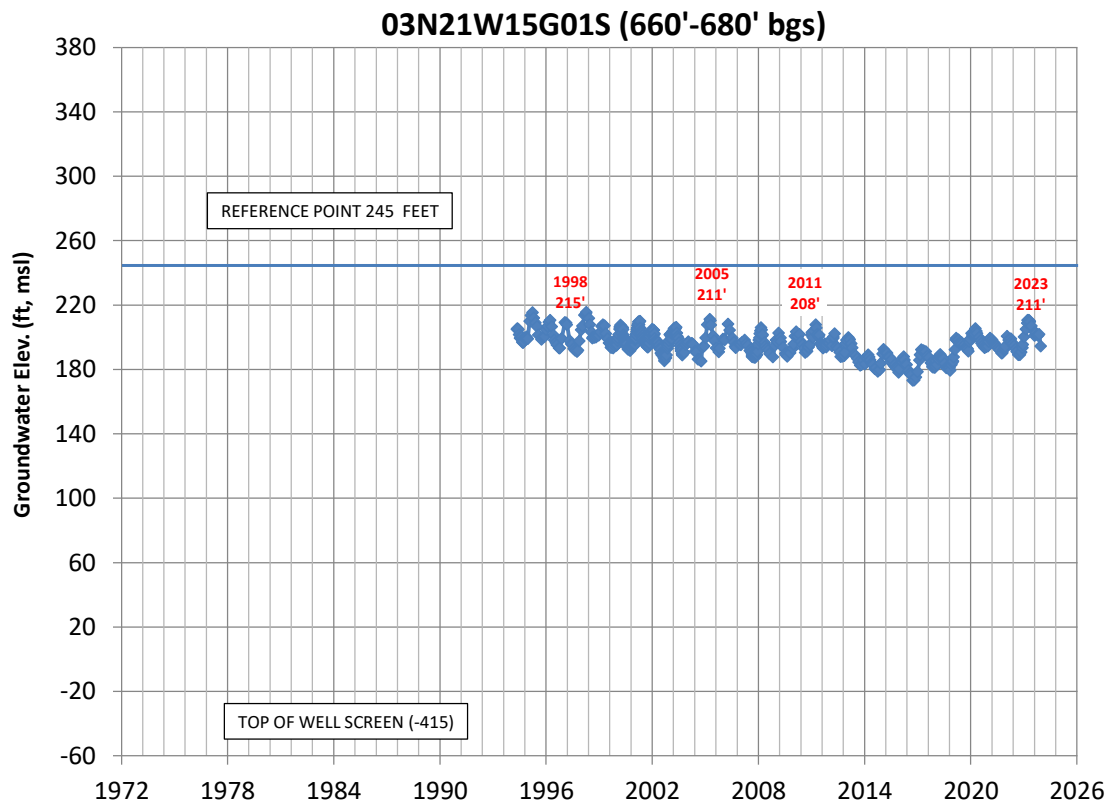


03N21W15C06S (452' - 653' bgs)

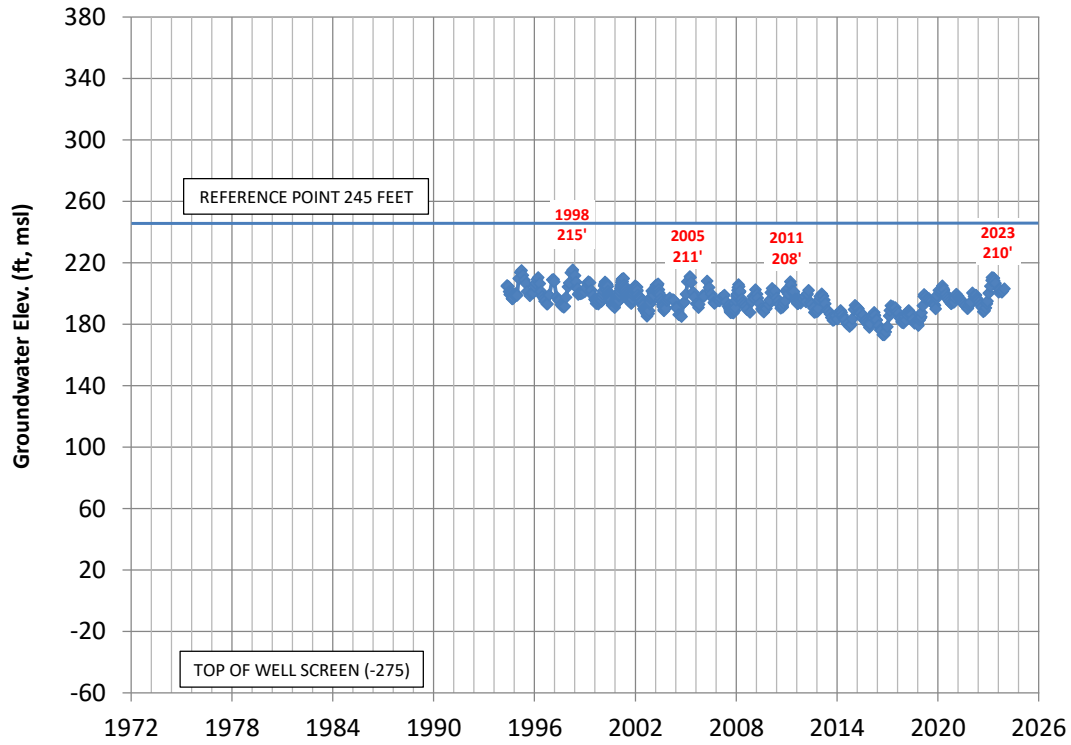


03N21W15C06S (452' - 653' bgs)

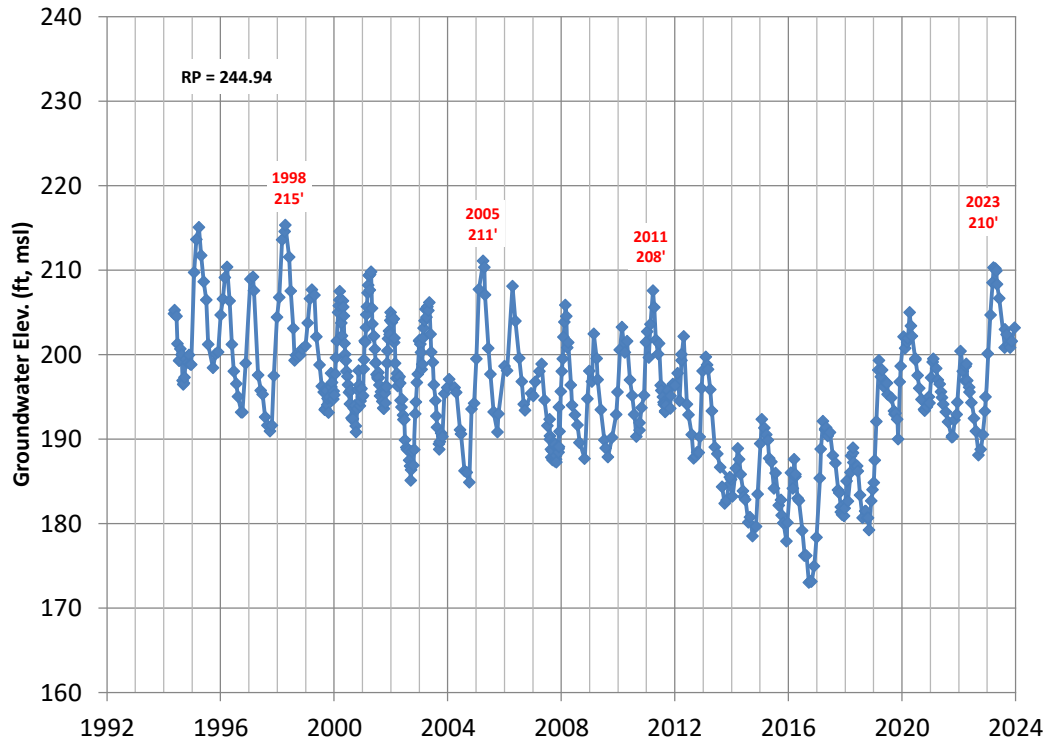




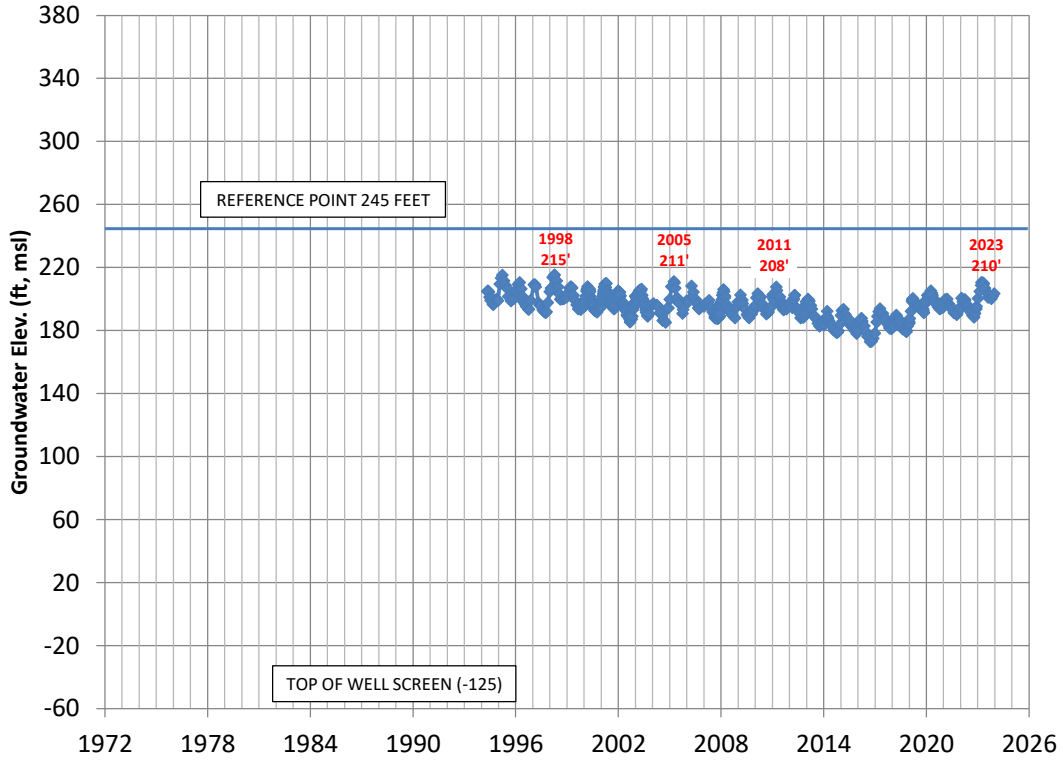
03N21W15G02S (520' - 540' bgs)



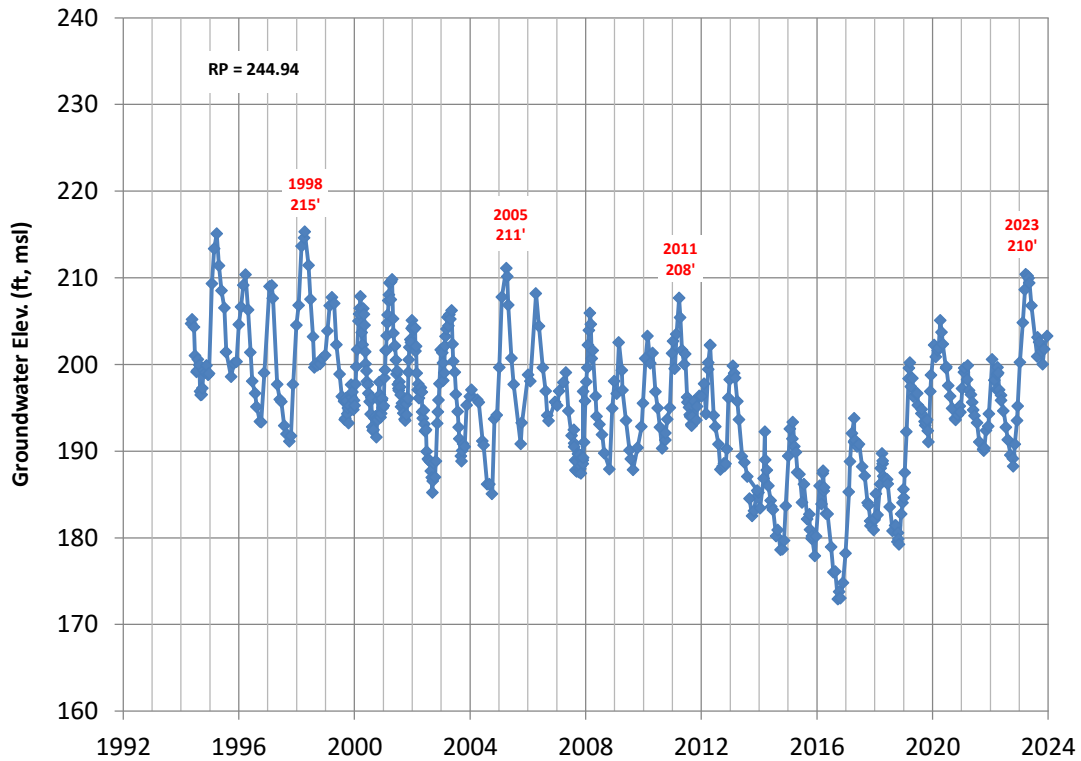
03N21W15G02S (520' - 540' bgs)



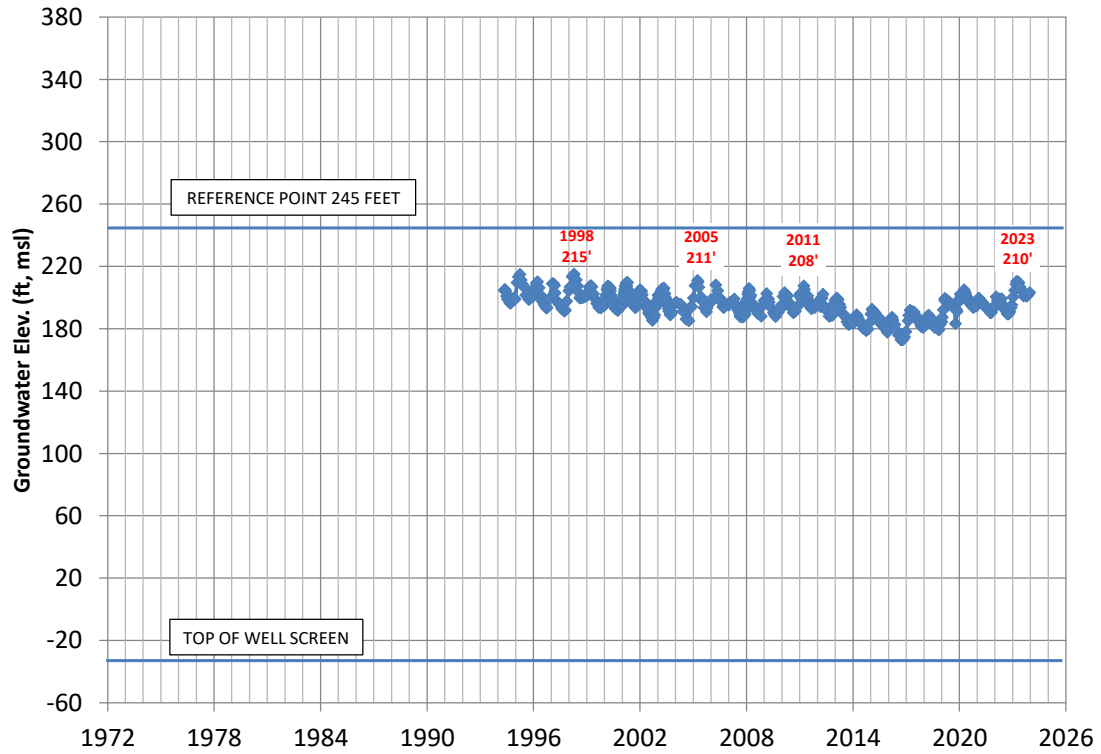
03N21W15G03S (370' - 390' bgs)



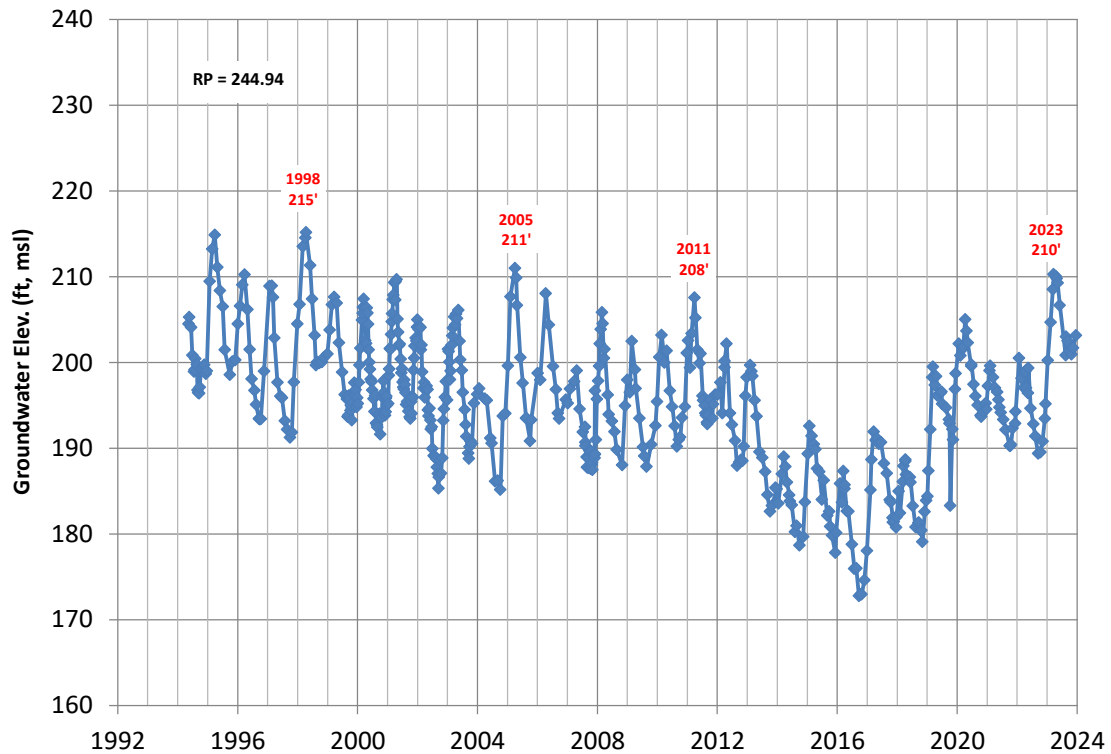
03N21W15G03S (370' - 390' bgs)

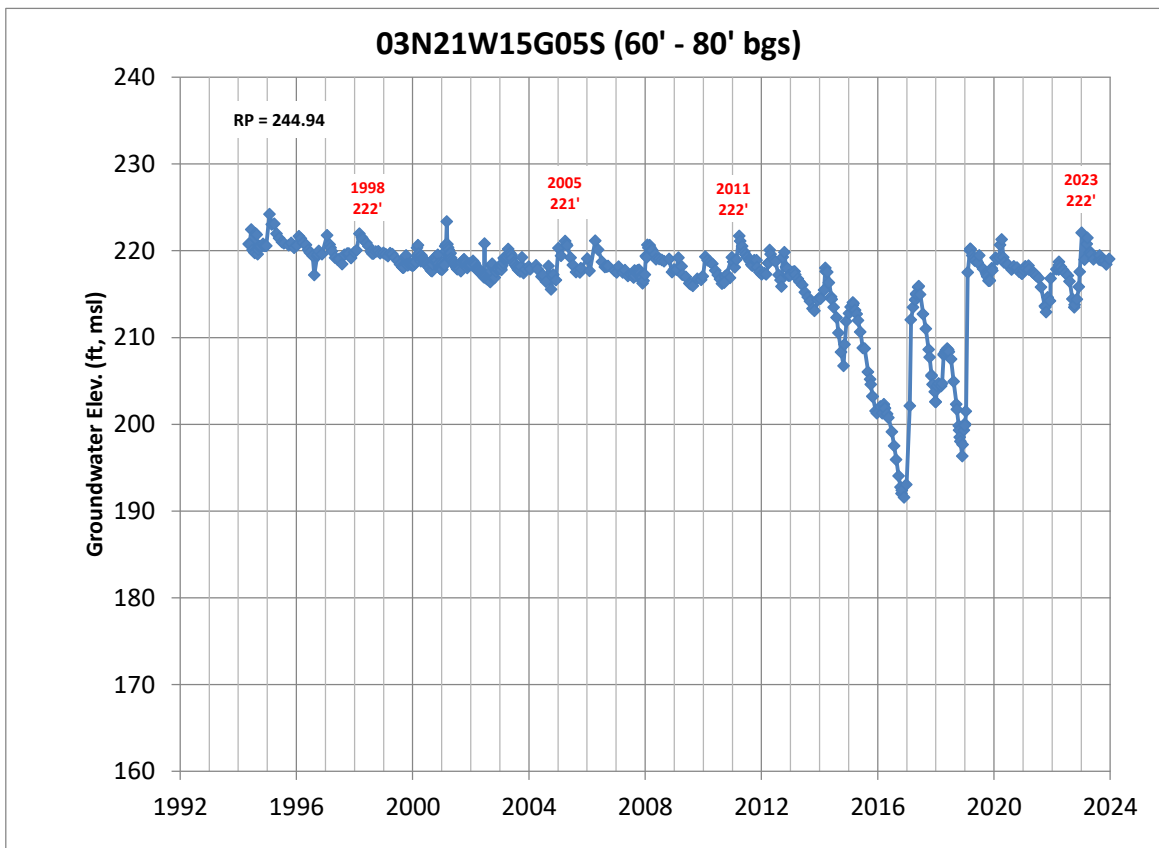
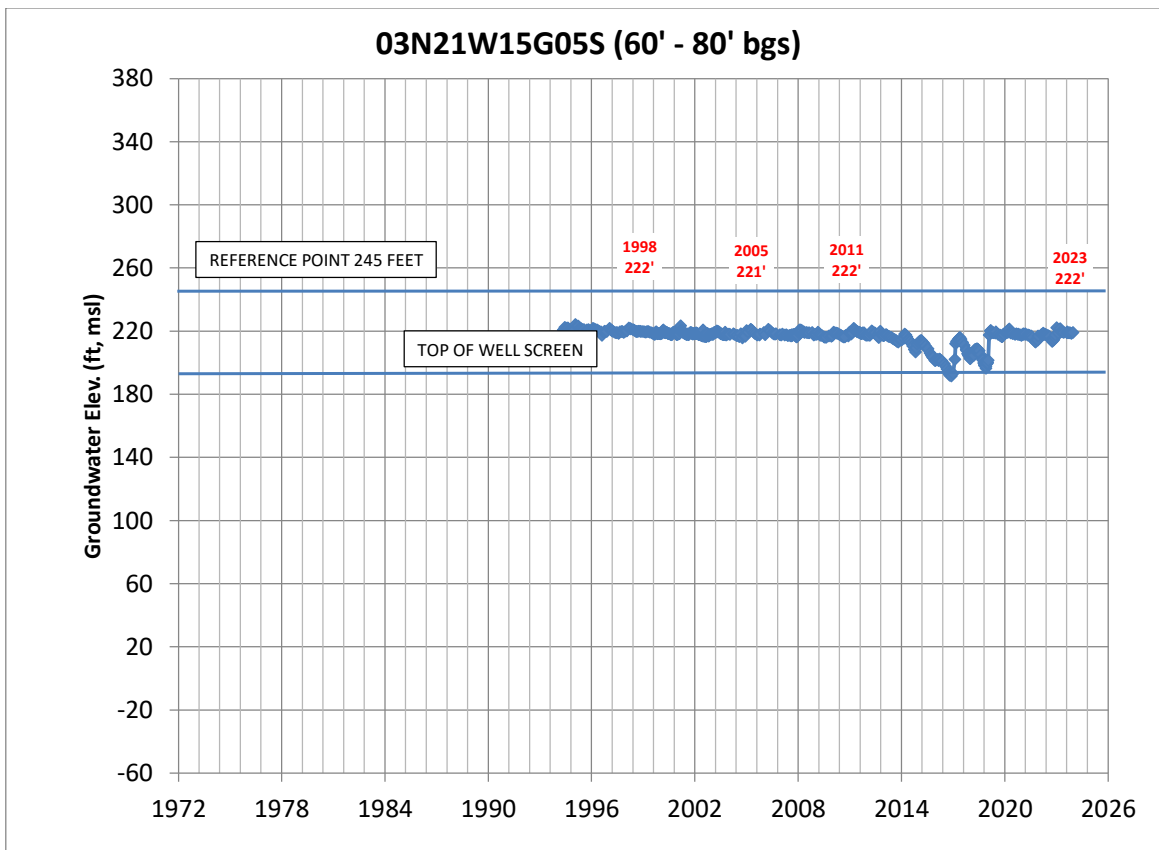


03N21W15G04S (260' - 280' bgs)

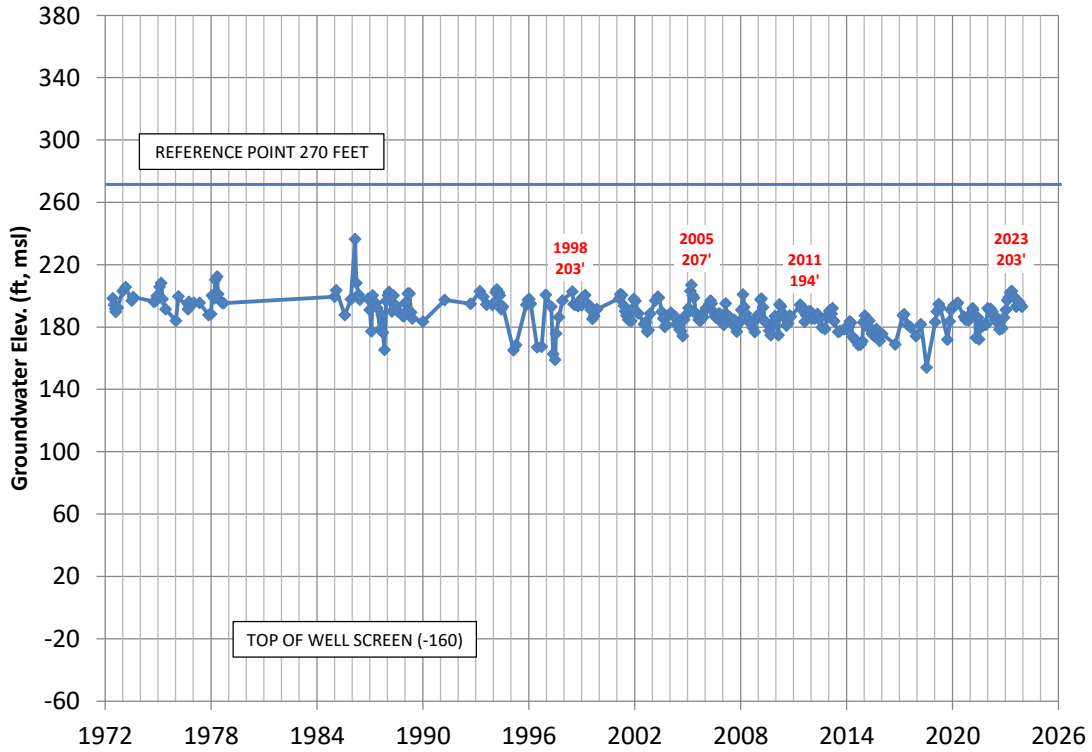


03N21W15G04S (260' - 280' bgs)

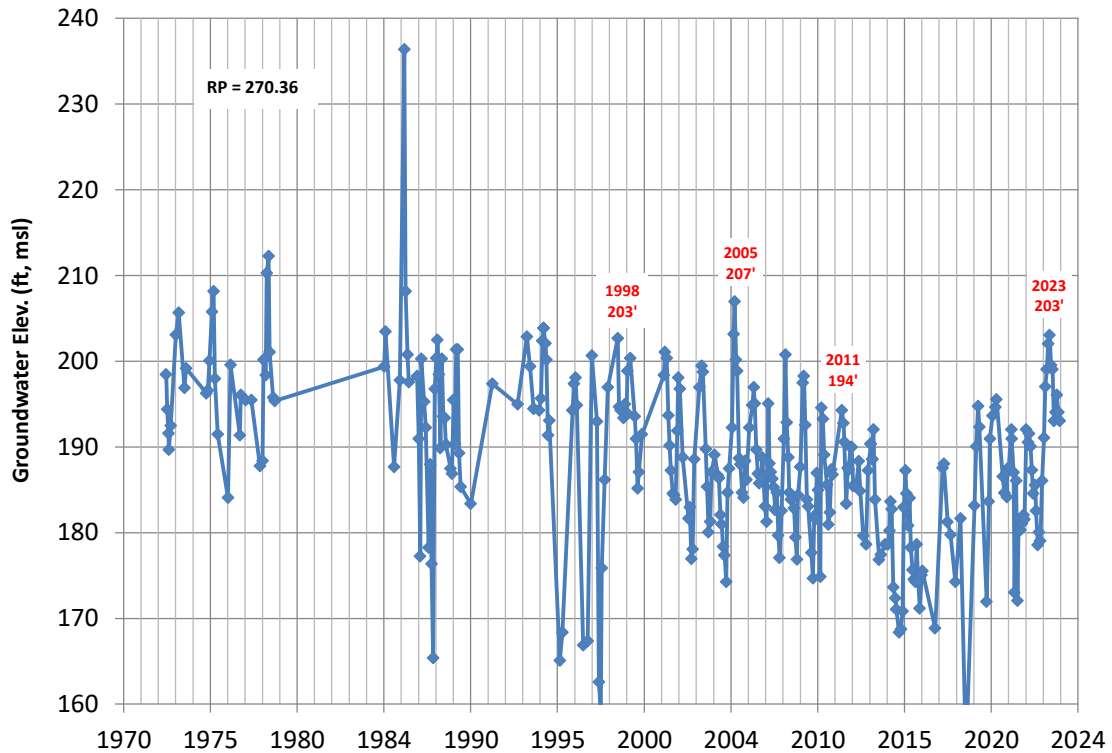




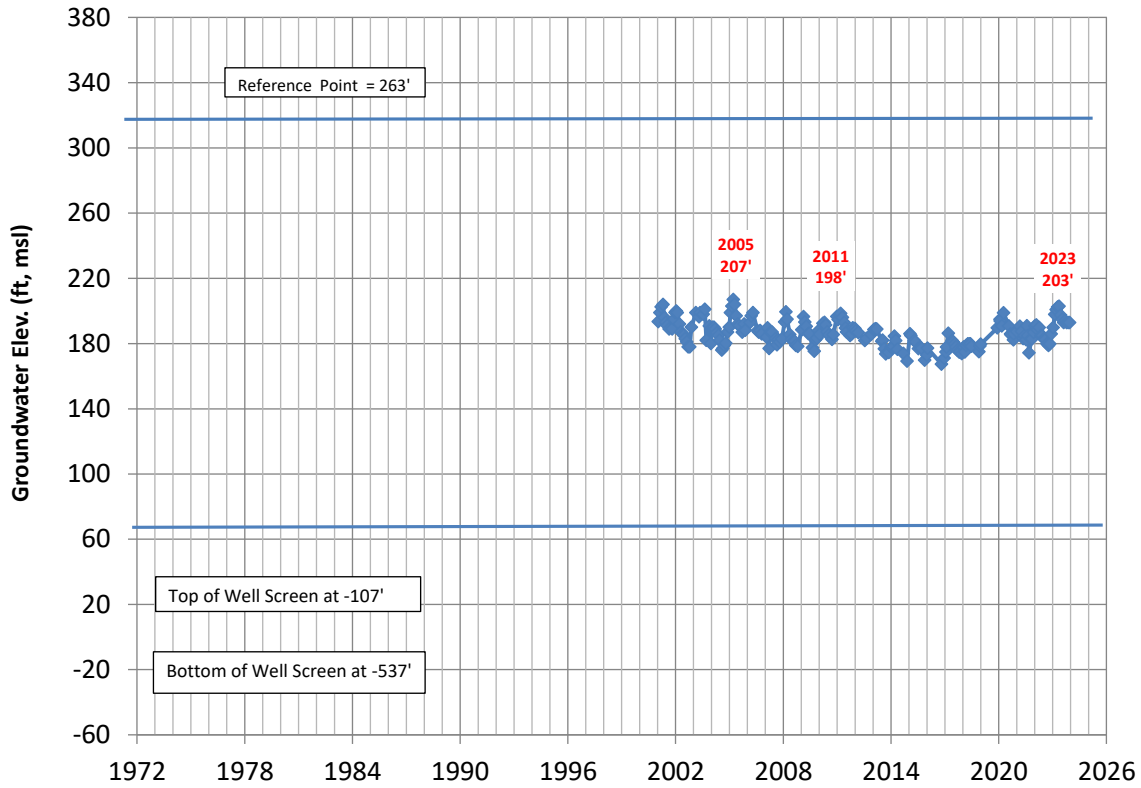
03N21W16A02S (430' -580' bgs)



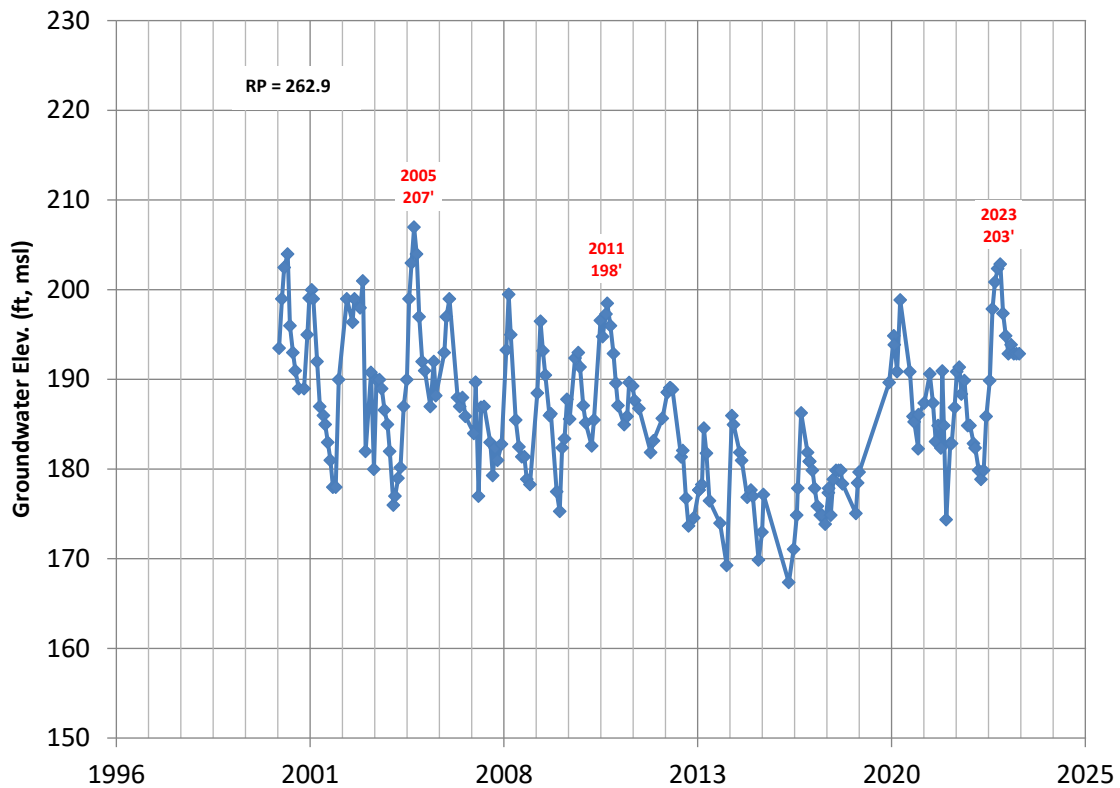
03N21W16A02S (430' -580' bgs)



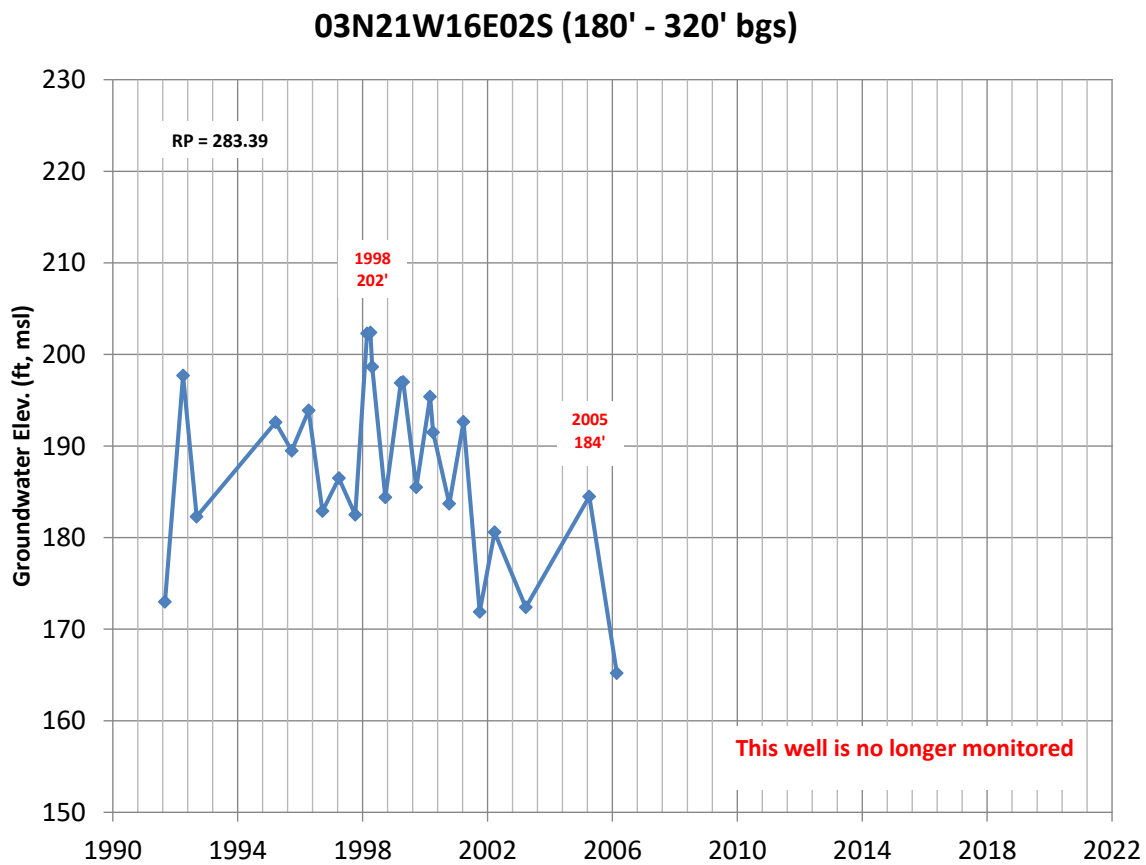
03N21W16A03S (370' - 800' bgs)



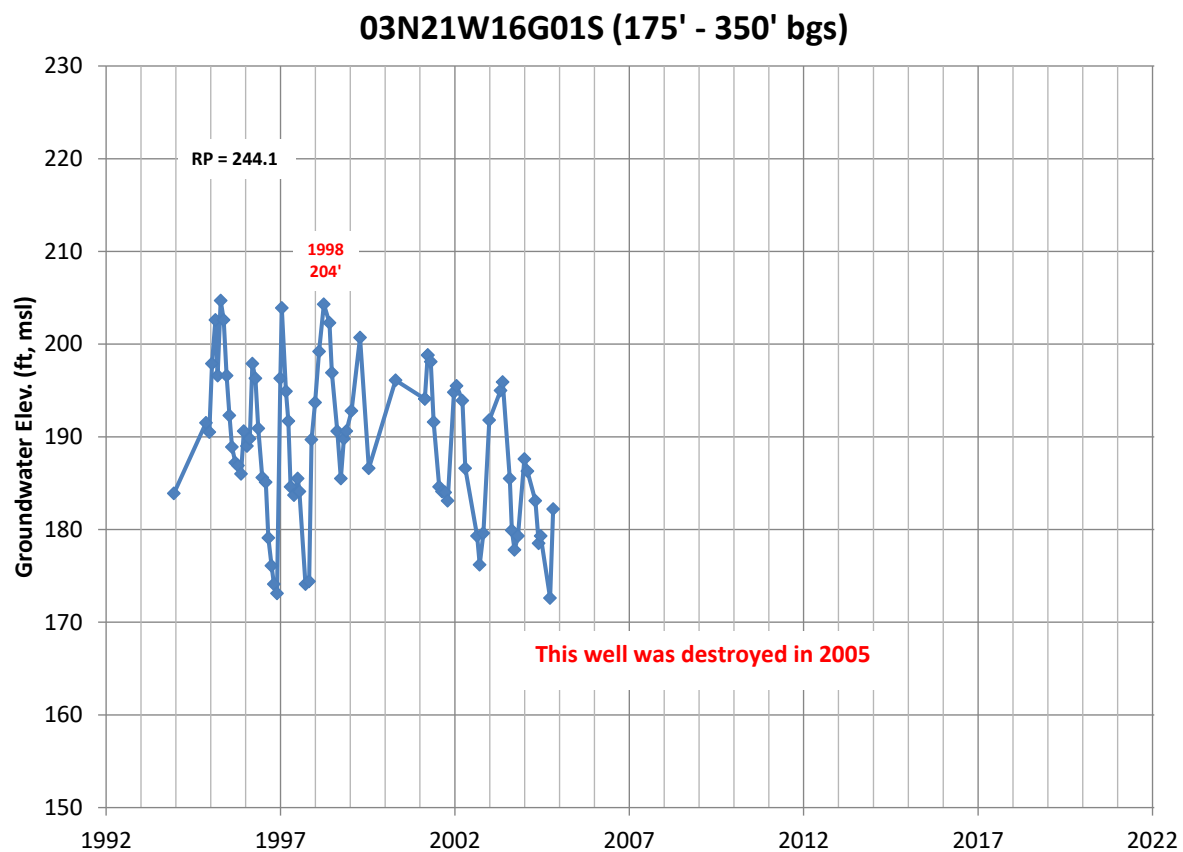
03N21W16A03S (370' - 800' bgs)



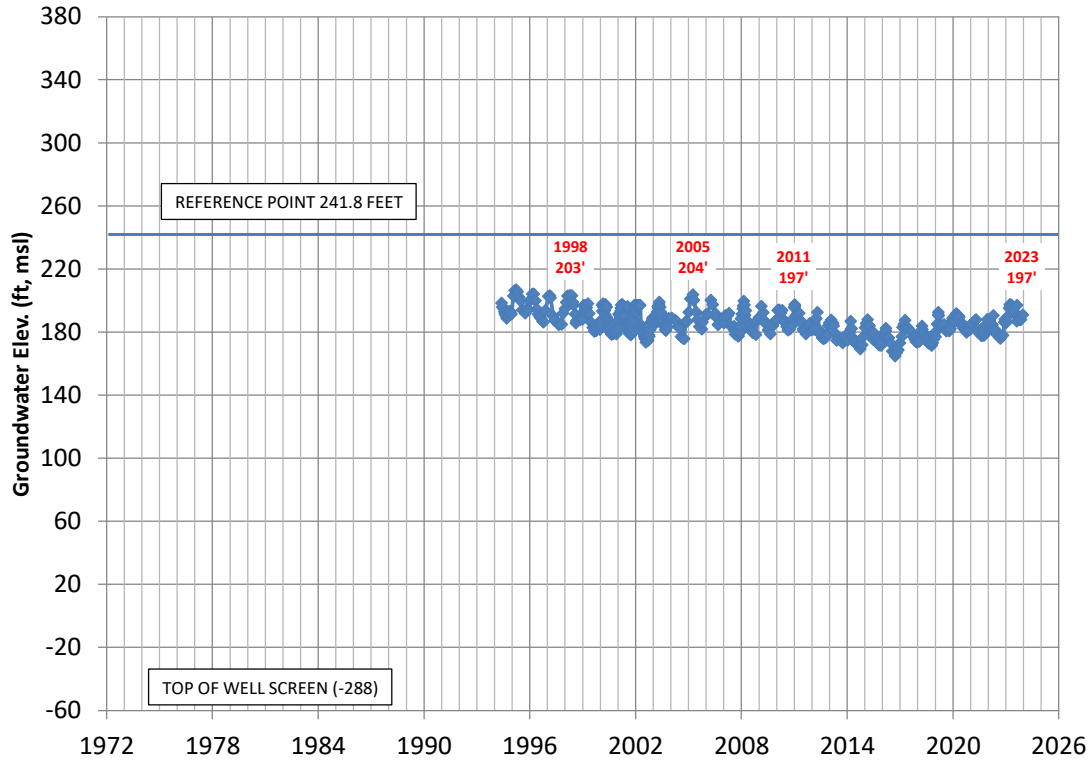
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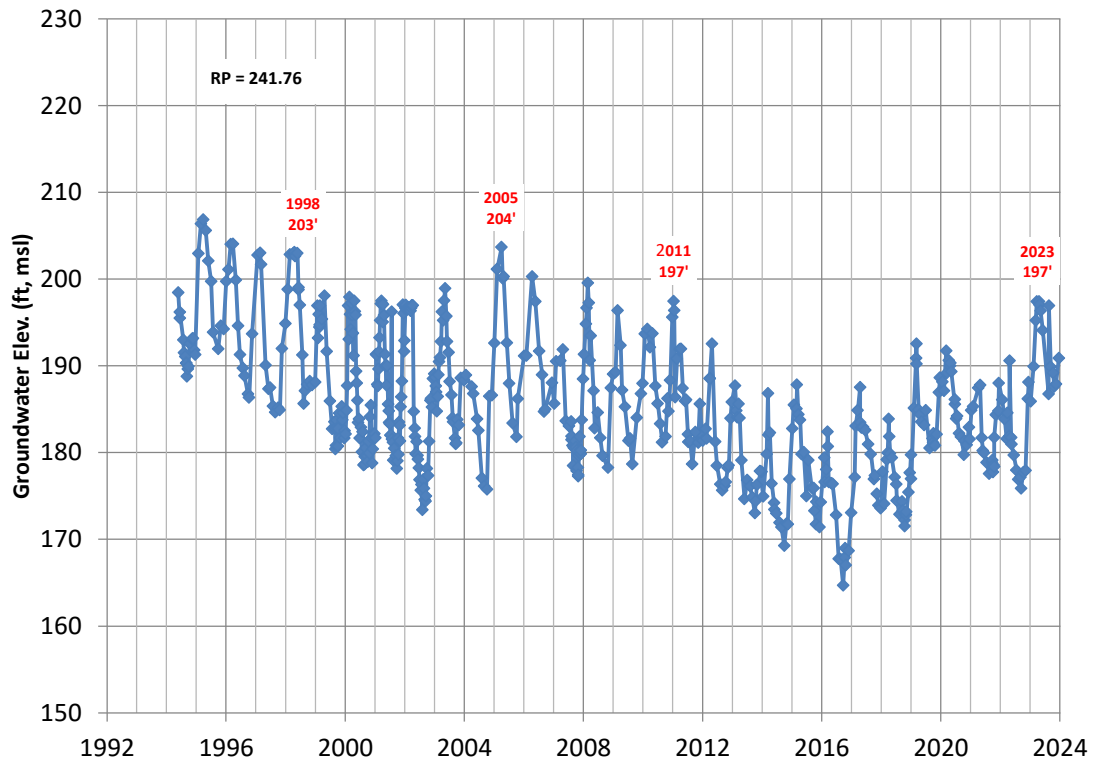
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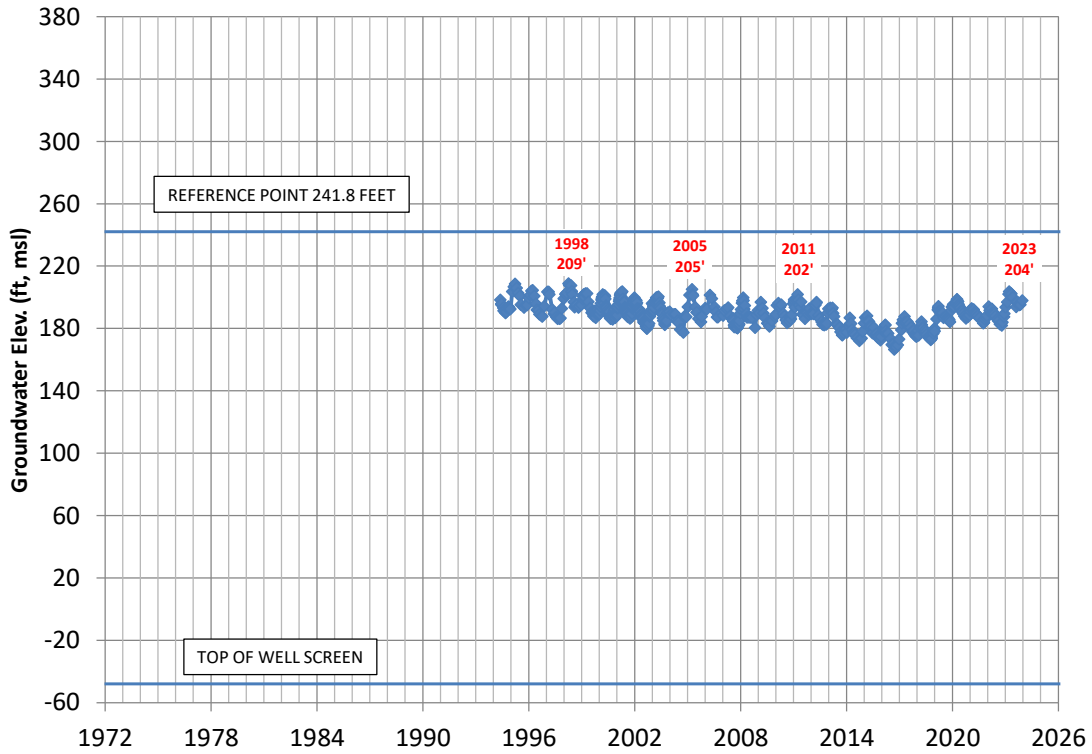
03N21W16H05S (530'-550' bgs)



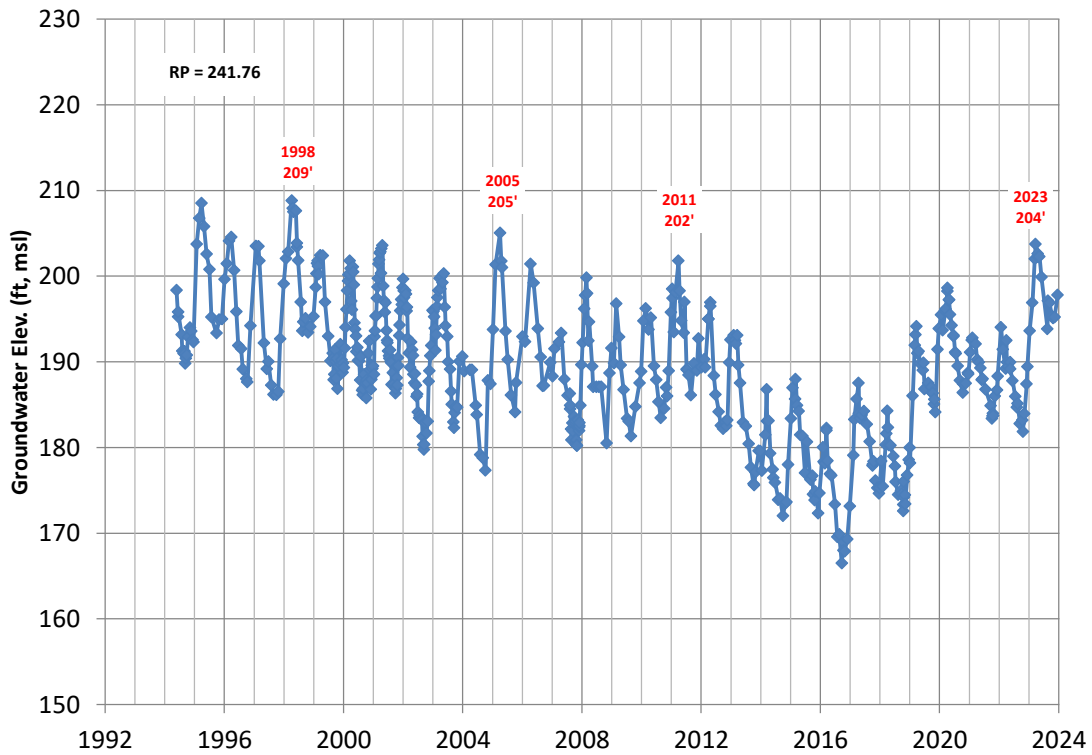
03N21W16H05S (530'-550' bgs)



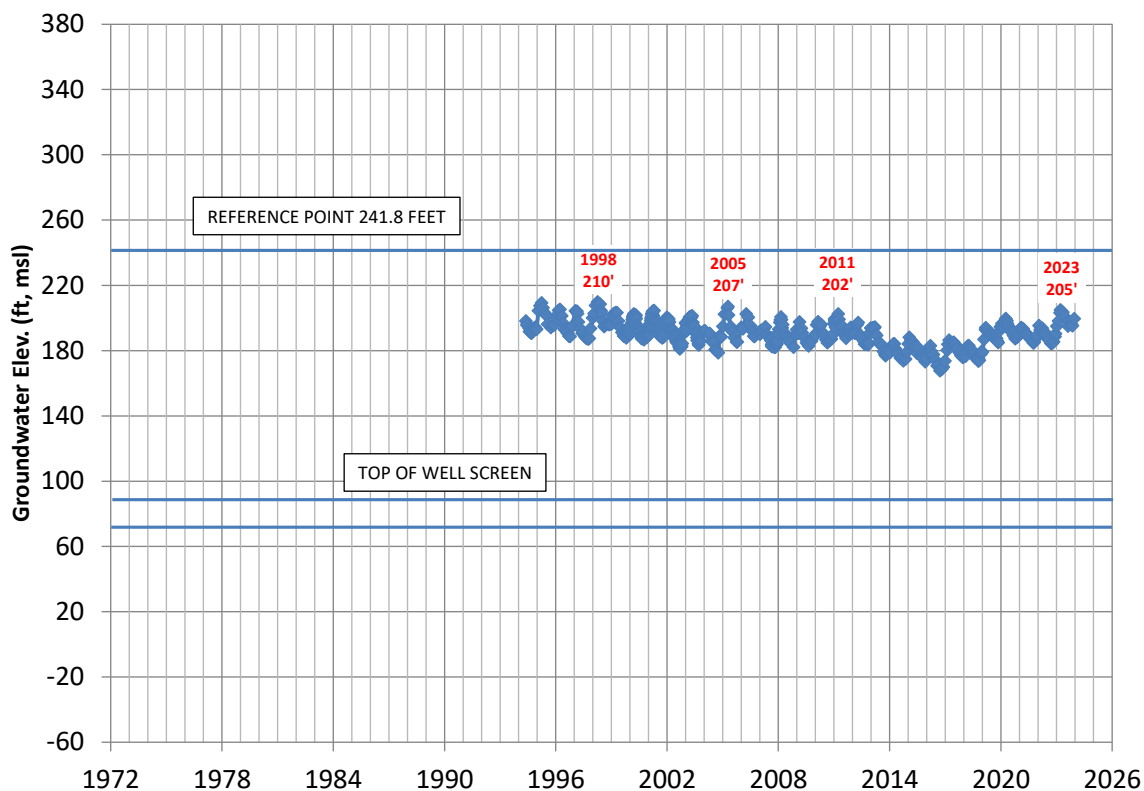
03N21W16H06S (290'-310' bgs)



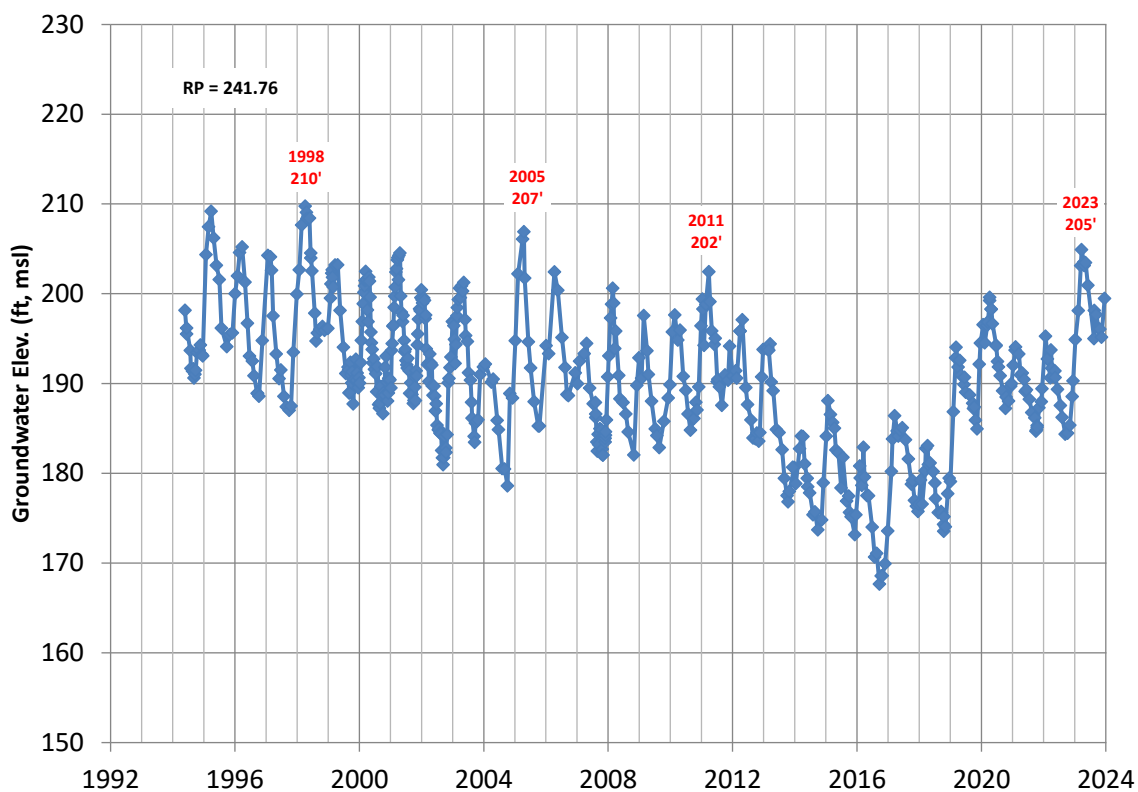
03N21W16H06S (290'-310' bgs)



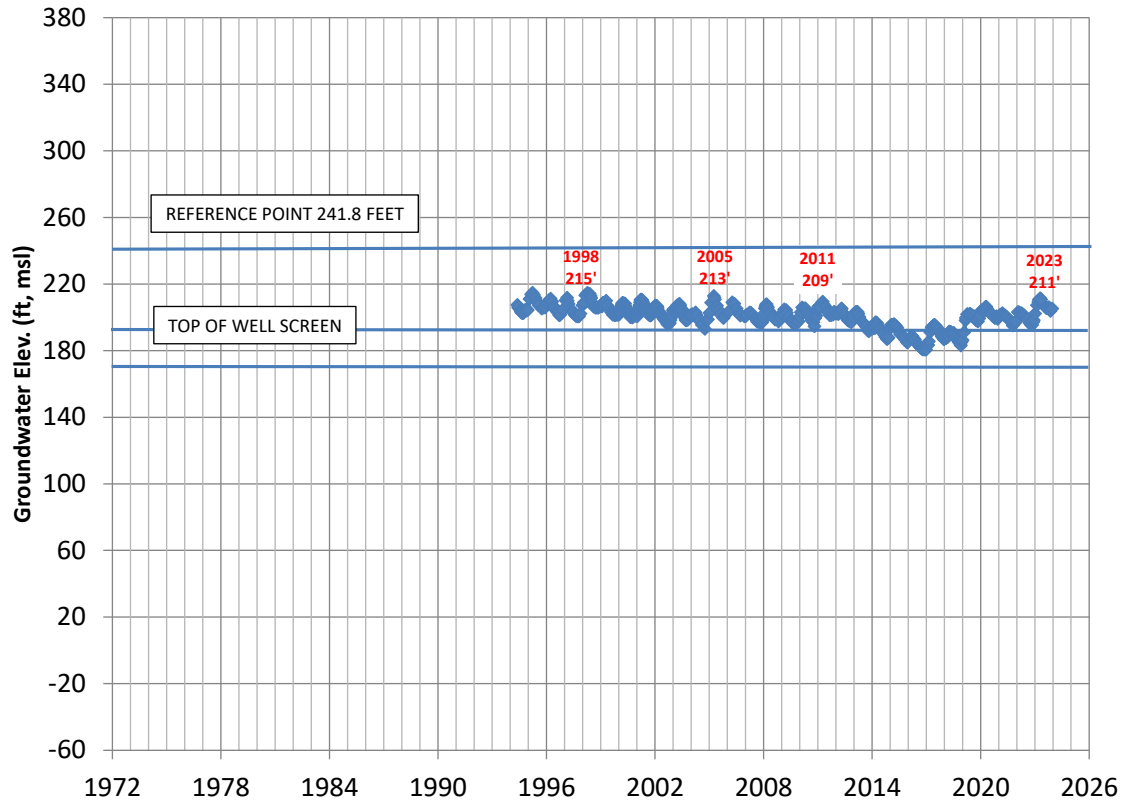
03N21W16H07S (150' - 170' bgs)



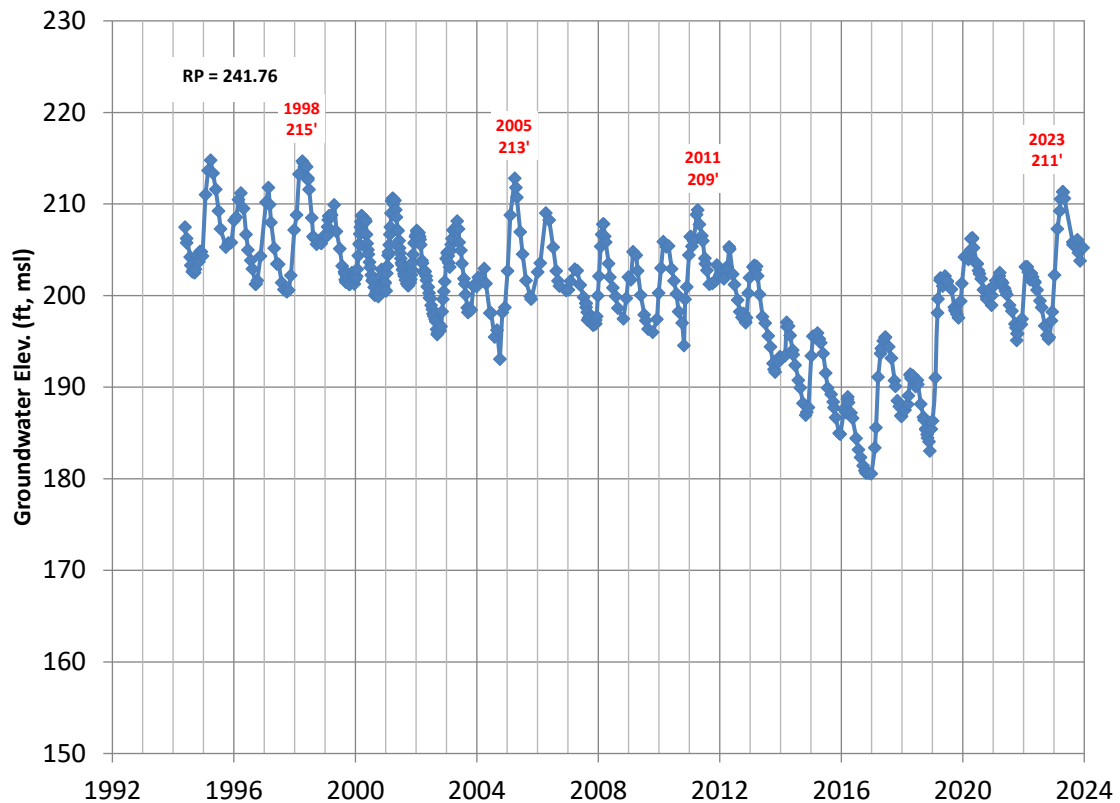
03N21W16H07S (150' - 170' bgs)



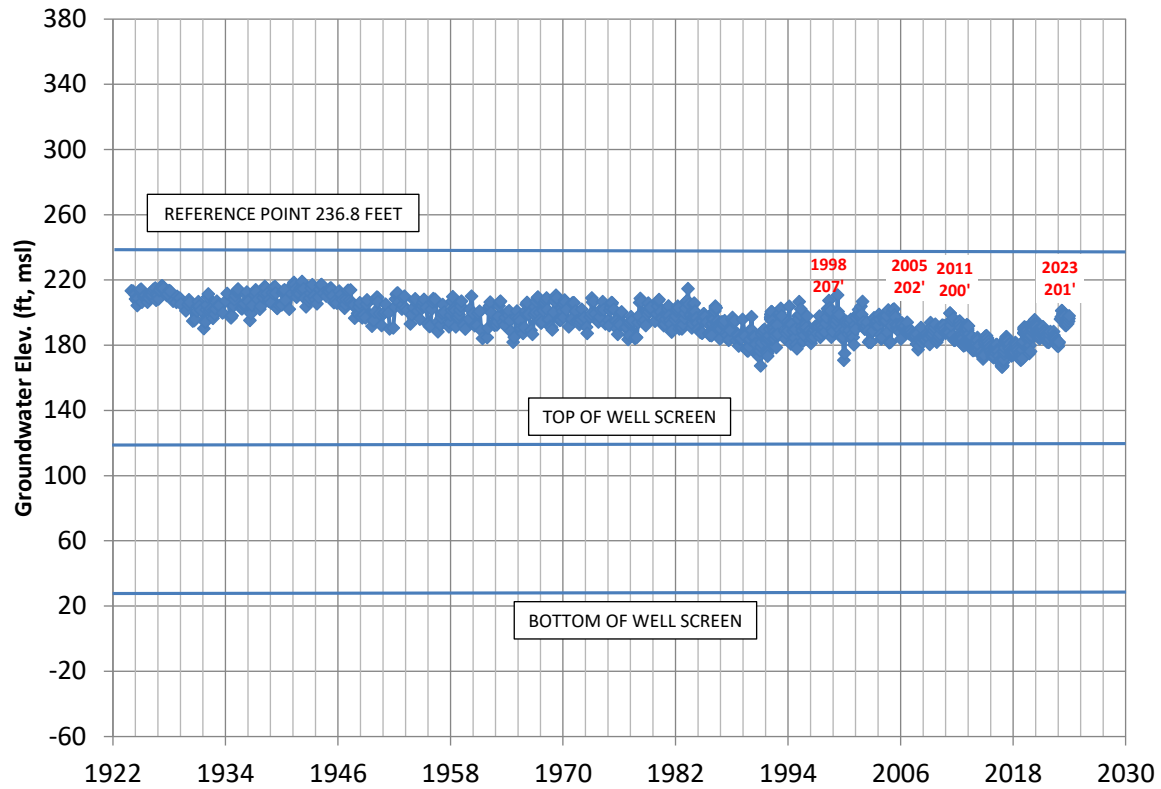
03N21W16H08S (50'- 70' bgs)



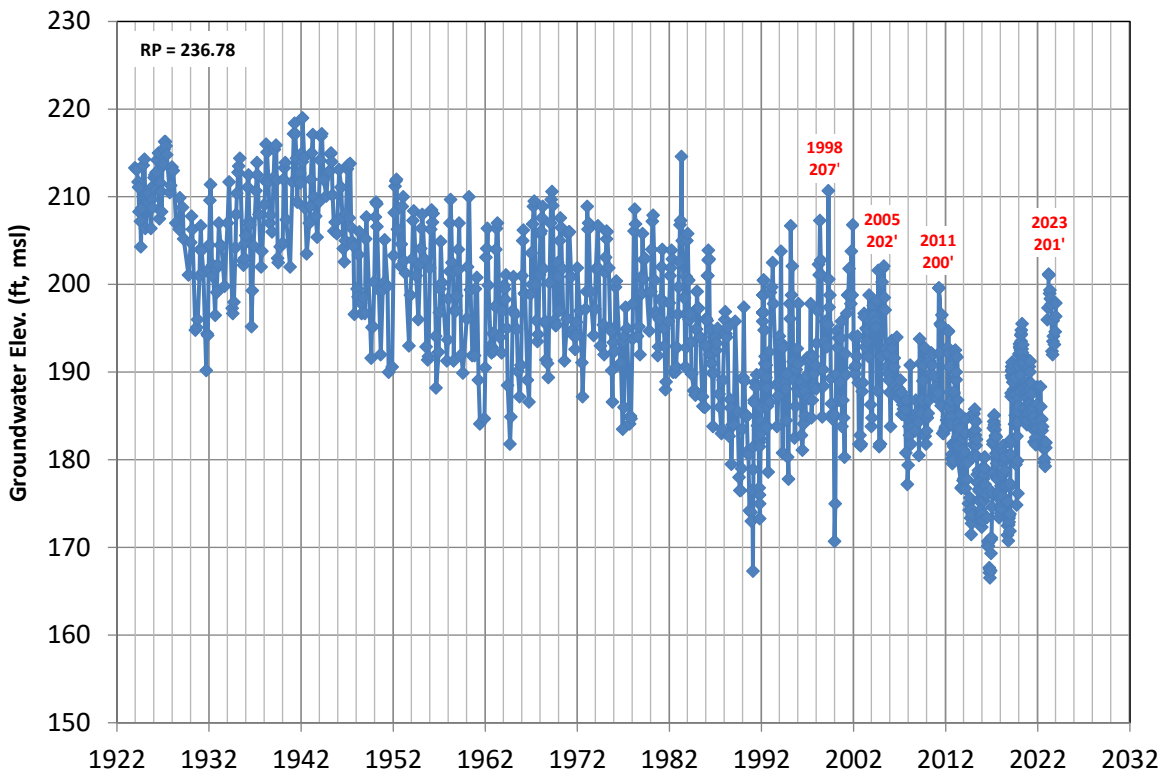
03N21W16H08S (50'- 70' bgs)



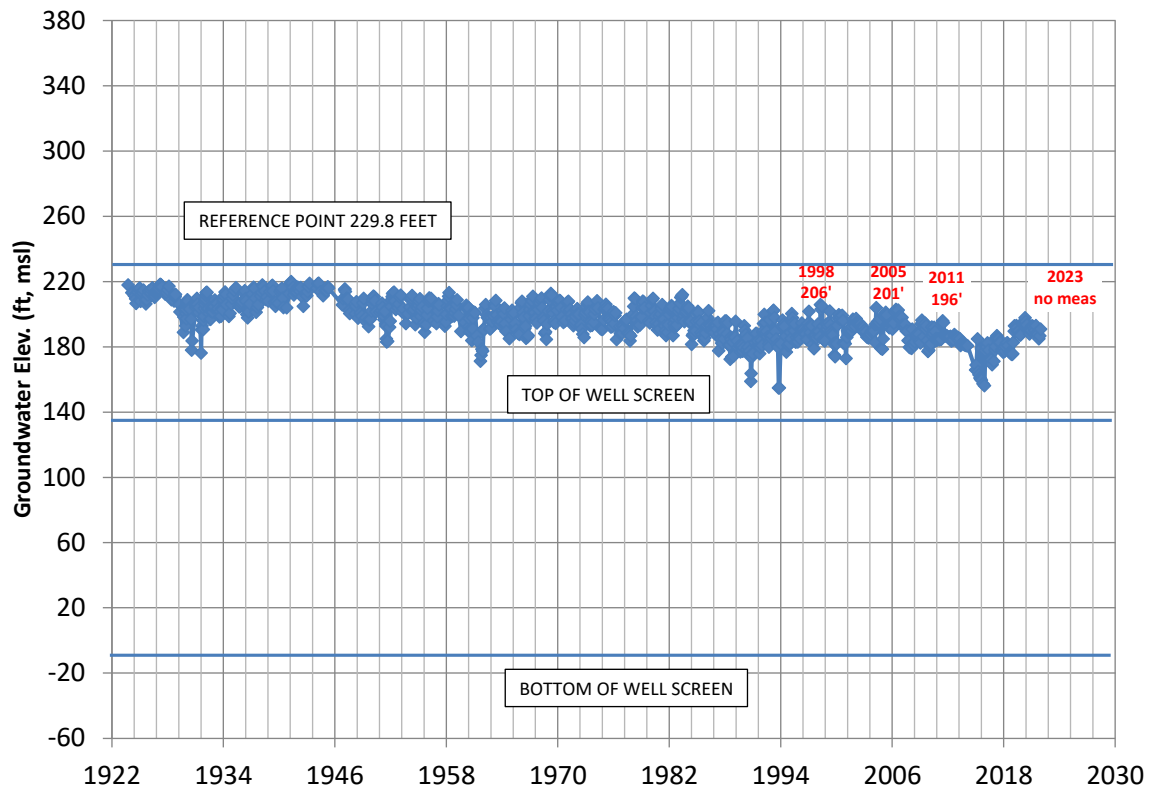
03N21W16K01S (119' - 214' bgs)



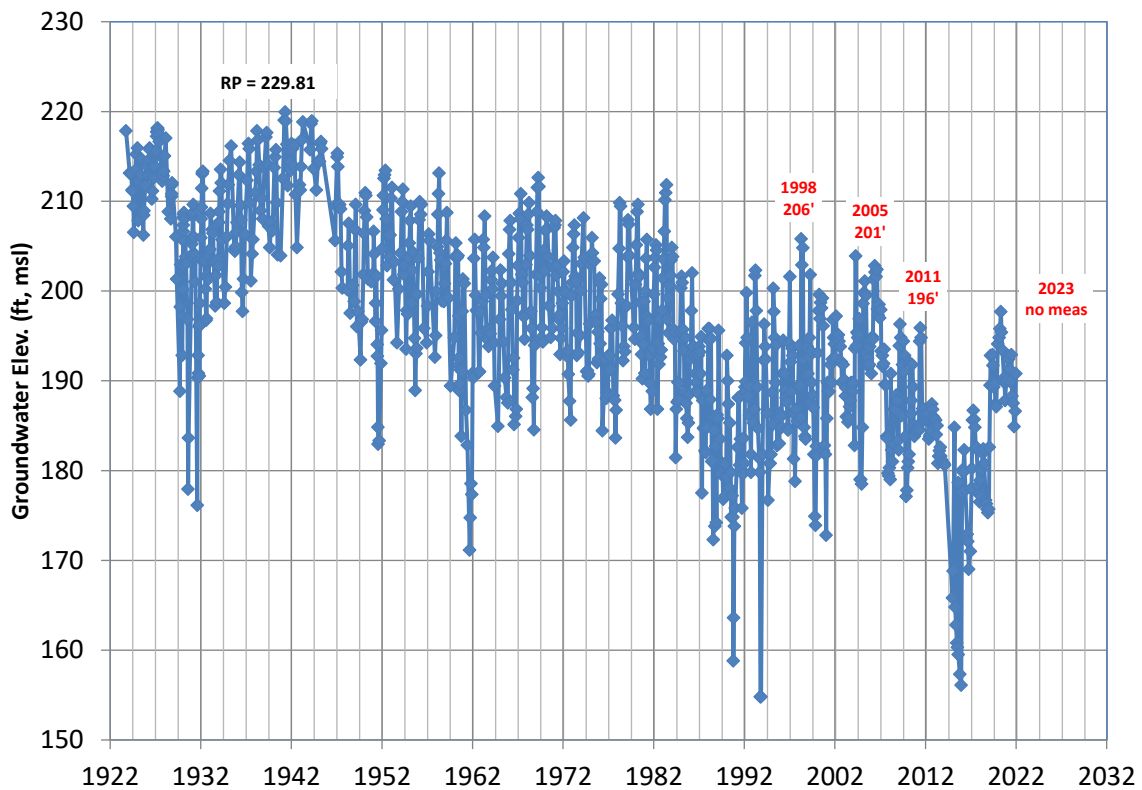
03N21W16K01S (119' - 214' bgs)



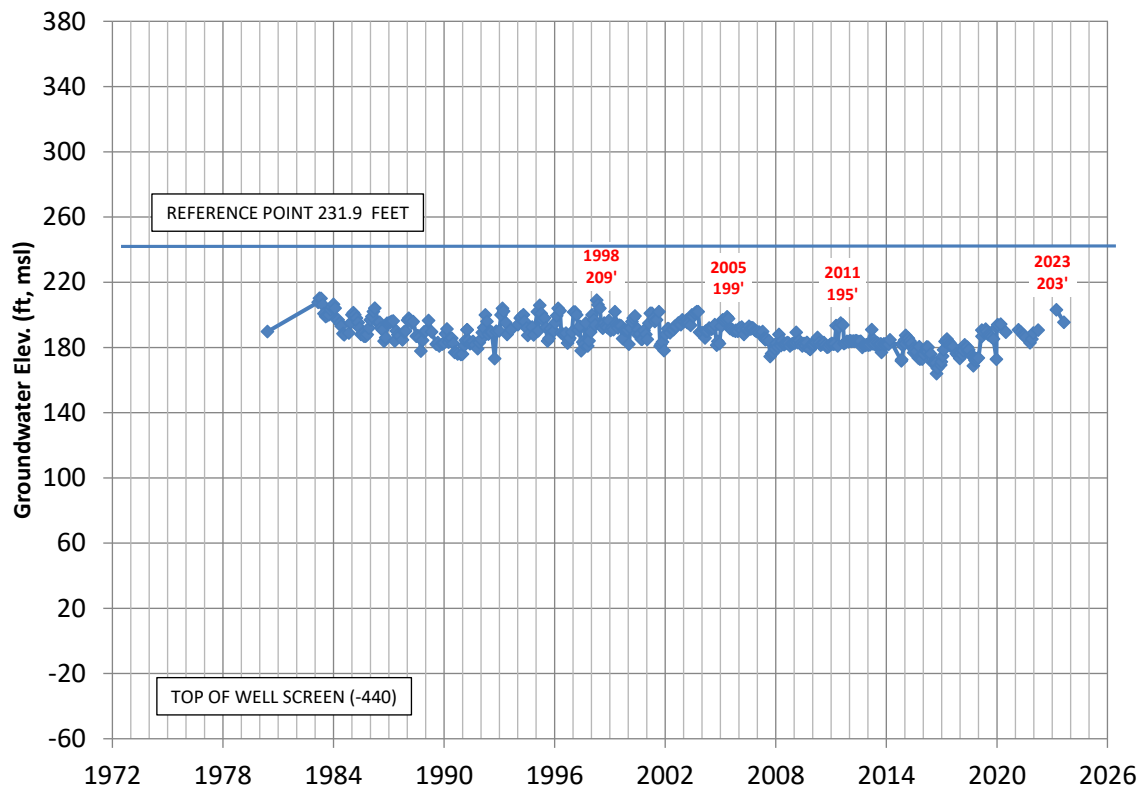
03N21W16K02S (92' - 243' bgs)



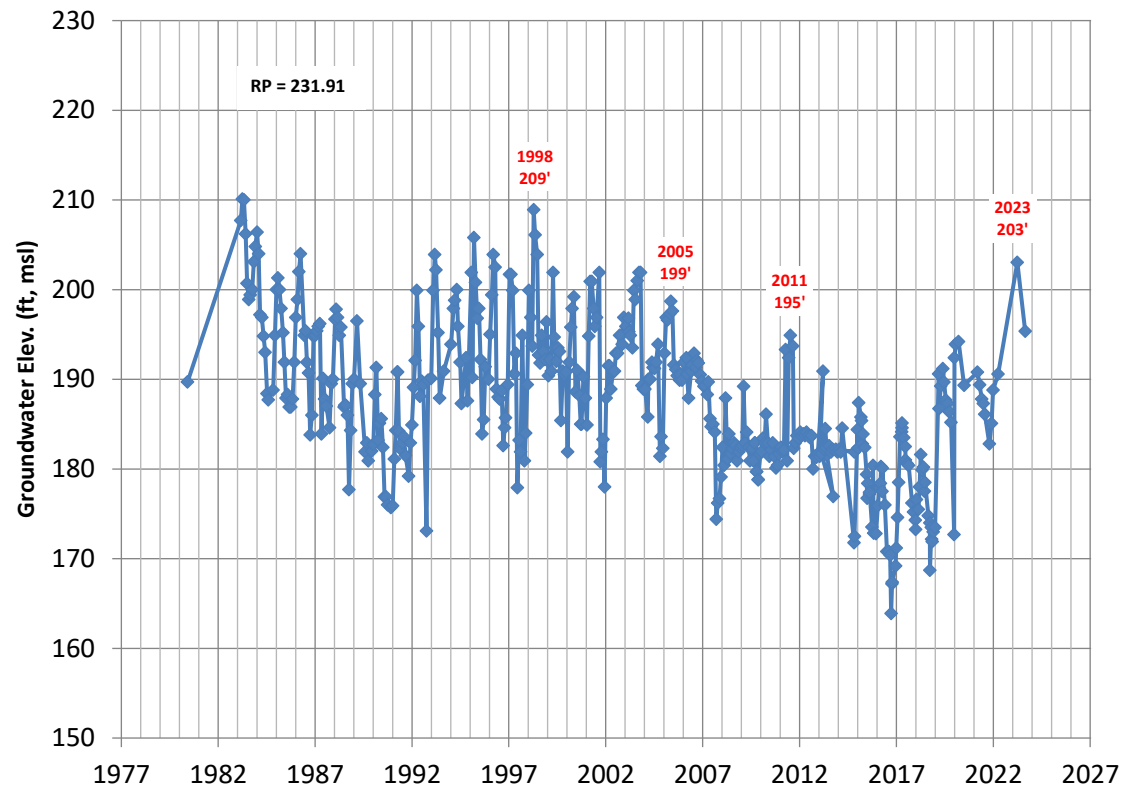
03N21W16K02S (92' - 243' bgs)



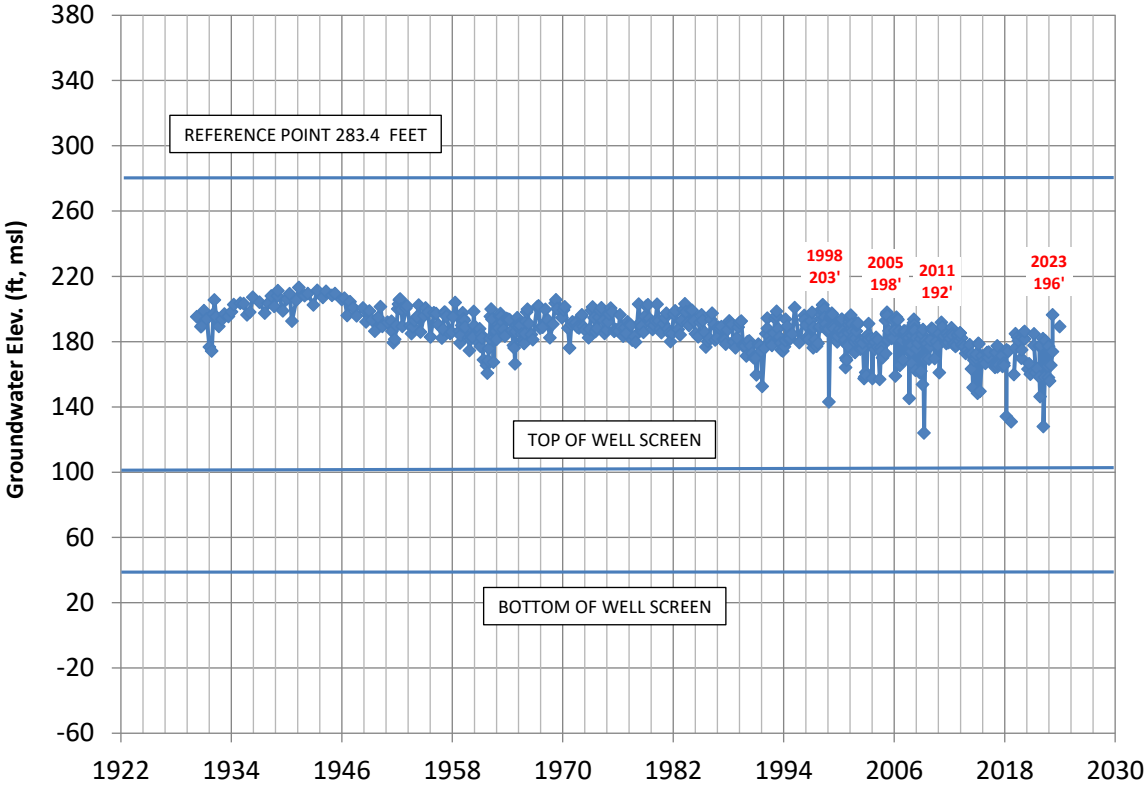
03N21W16K03S (672' - 760' bgs)



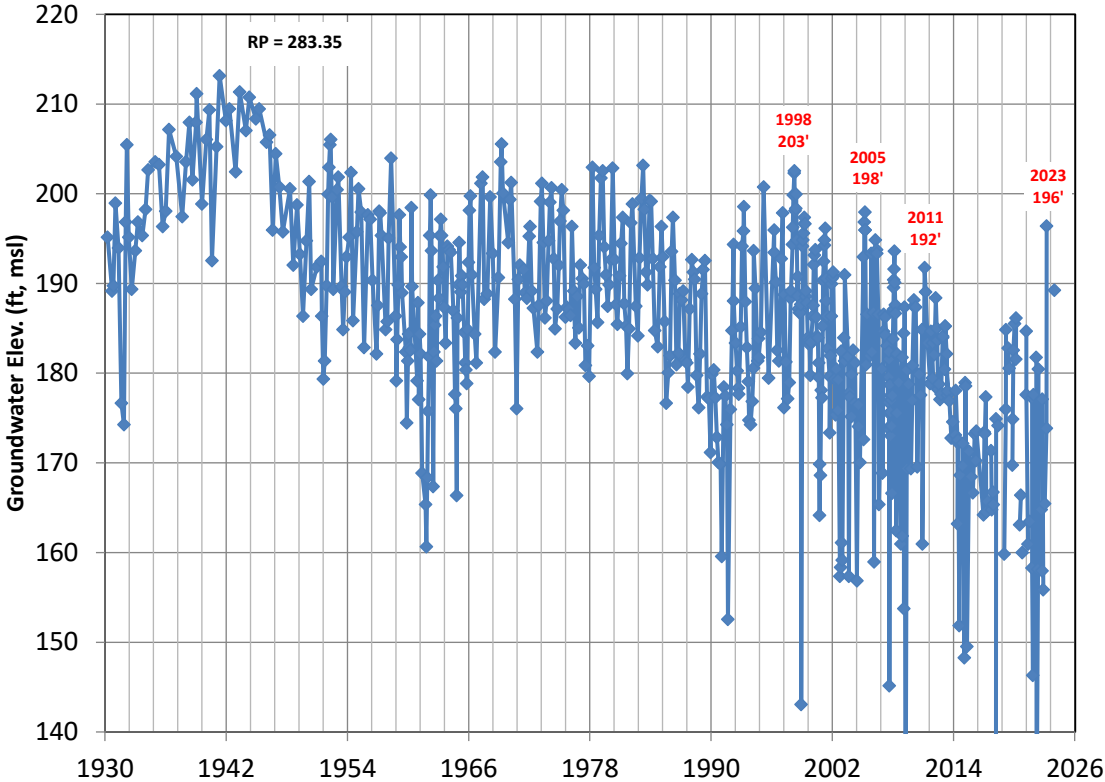
03N21W16K03S (672' - 760' bgs)



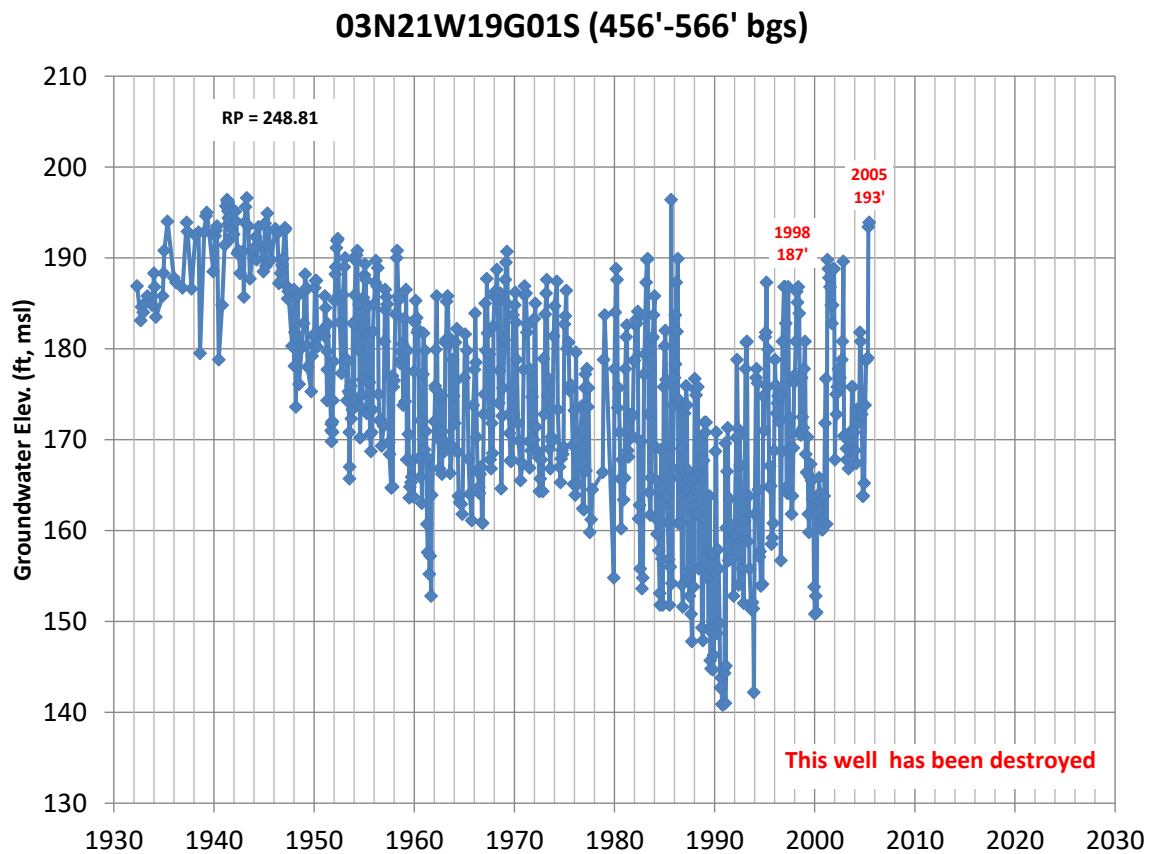
03N21W17Q01S (183' - 243' bgs)



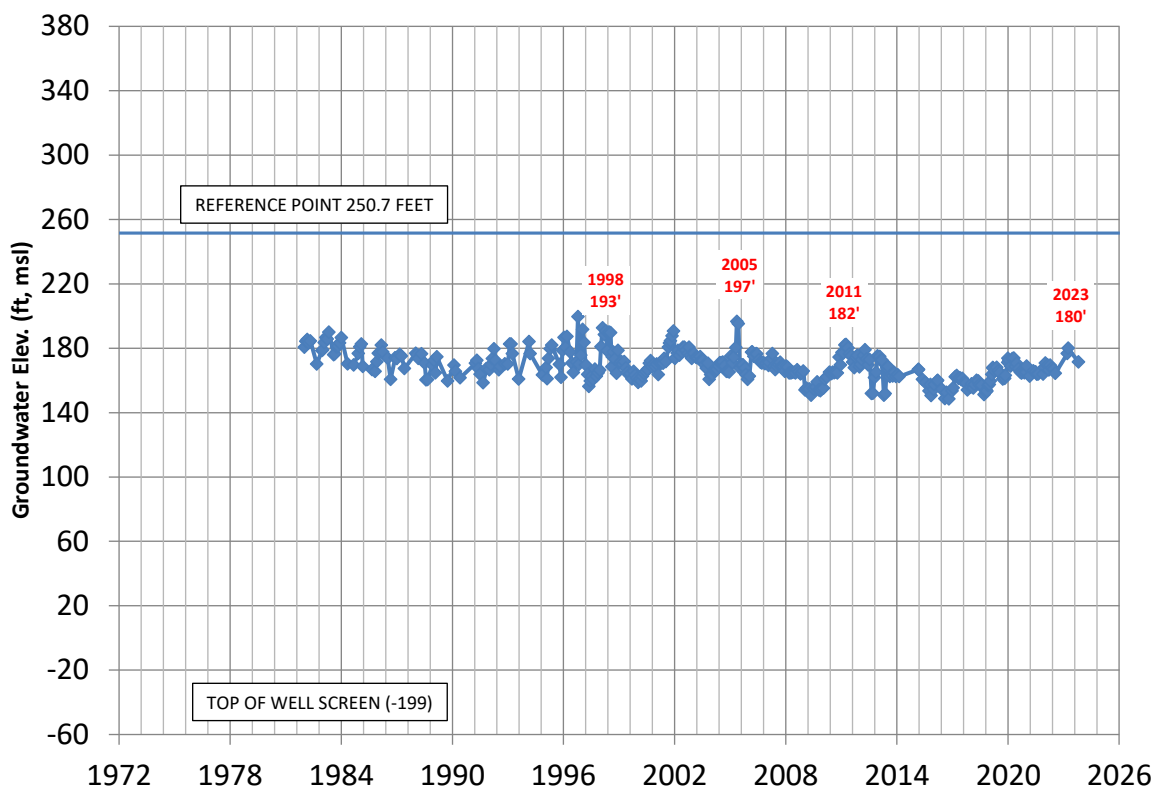
03N21W17Q01S (183' - 243' bgs)



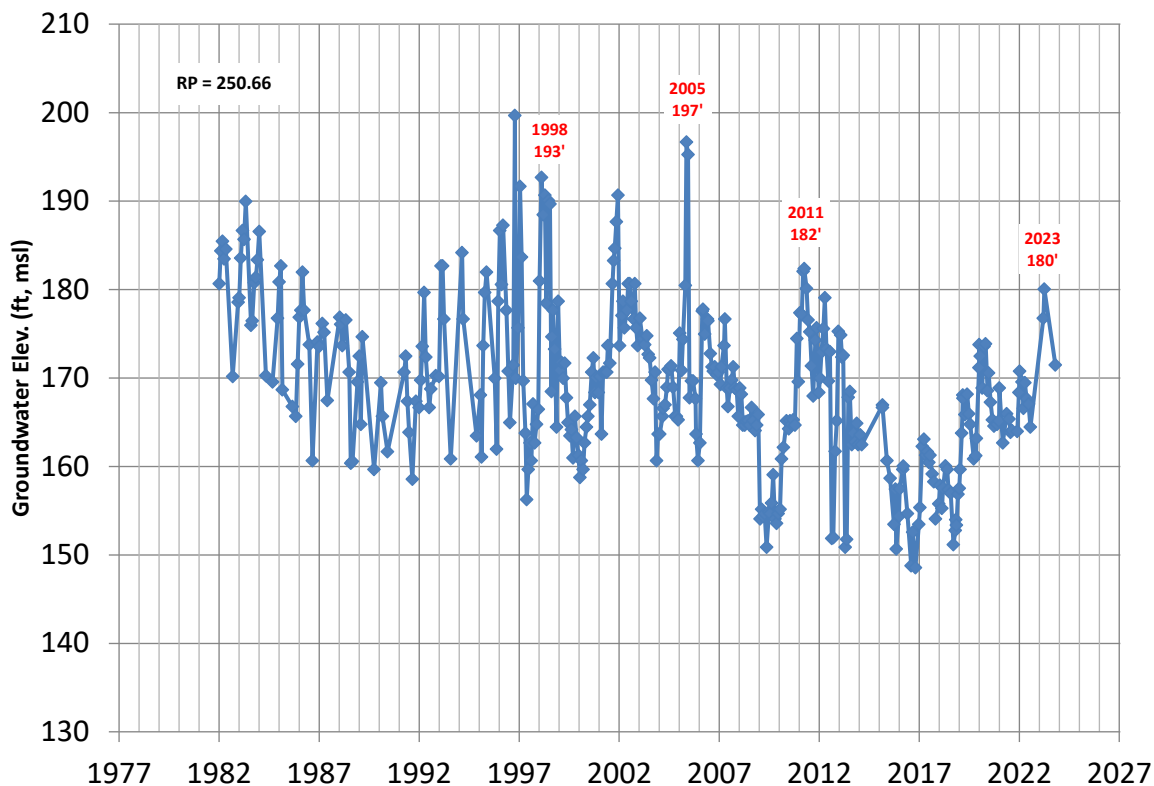
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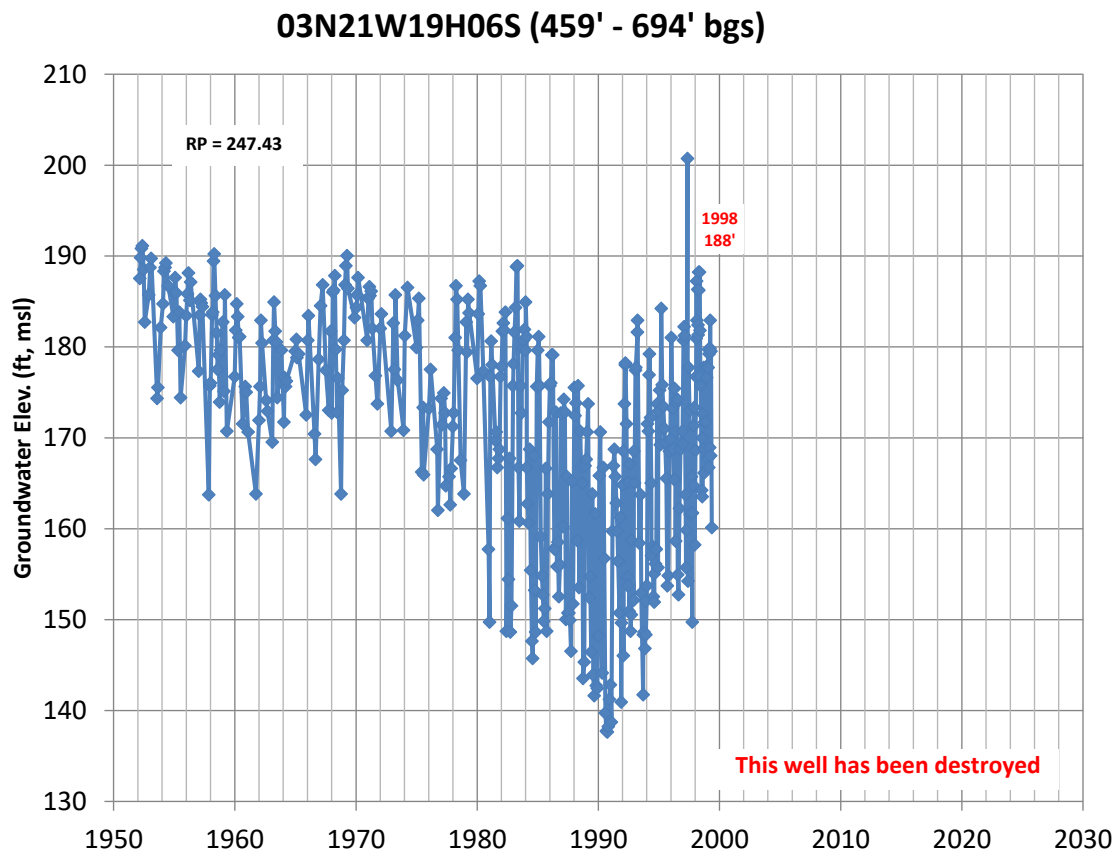
03N21W19G04S (450' - 720' bgs)



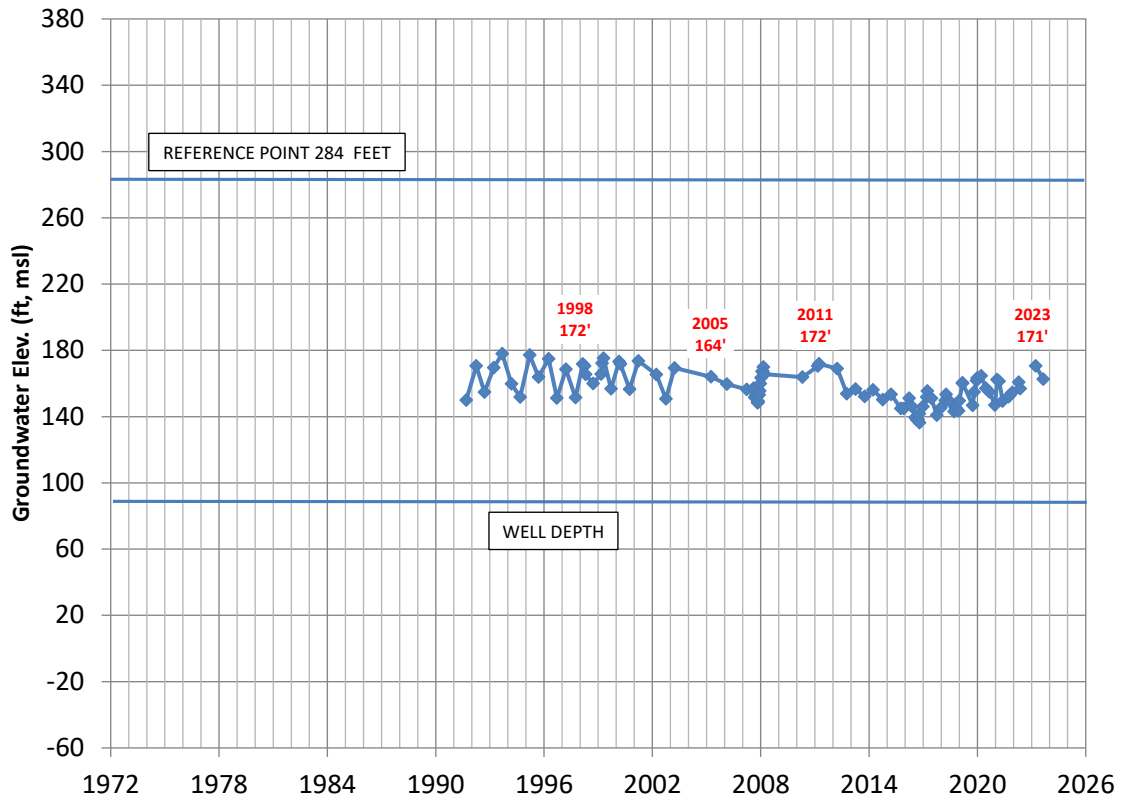
03N21W19G04S (450' - 720' bgs)



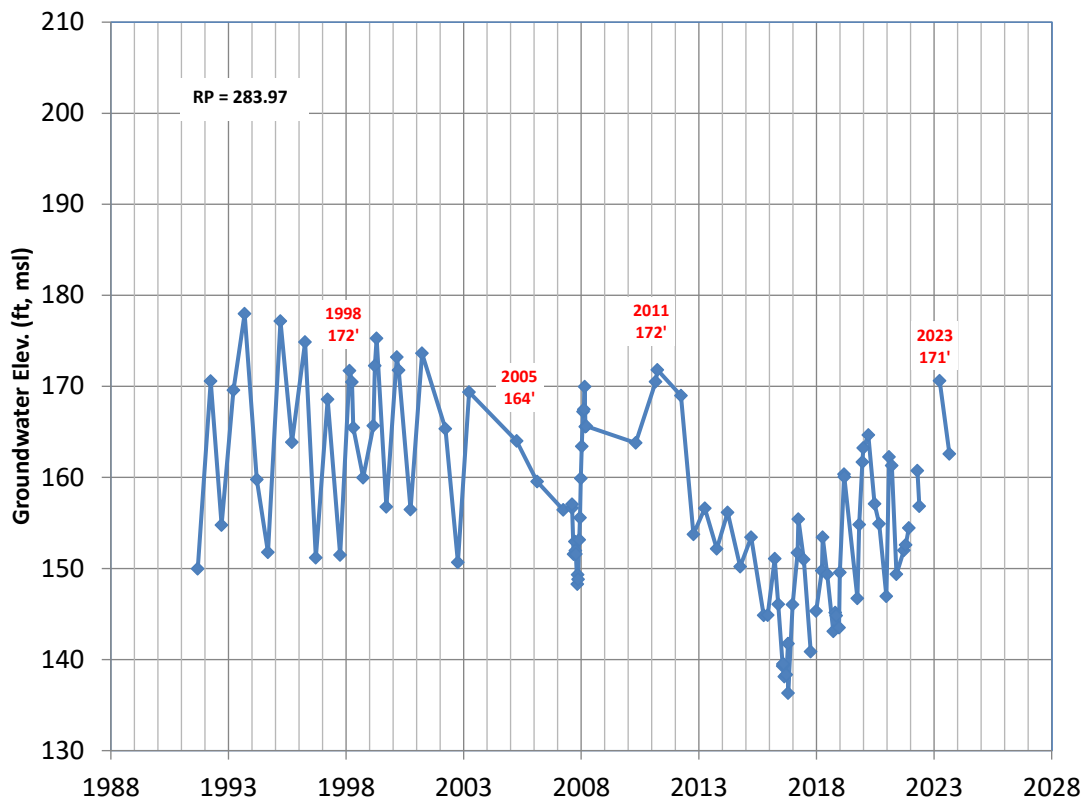
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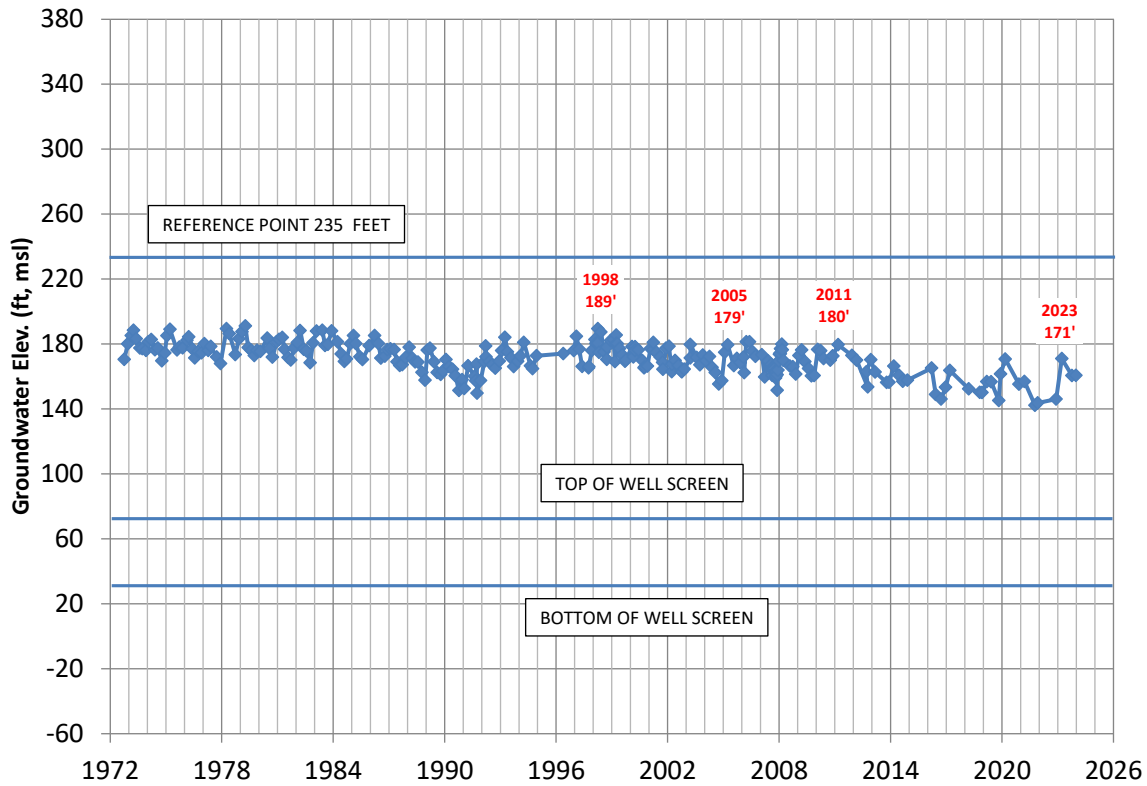
03N21W19M01S (depth 197')



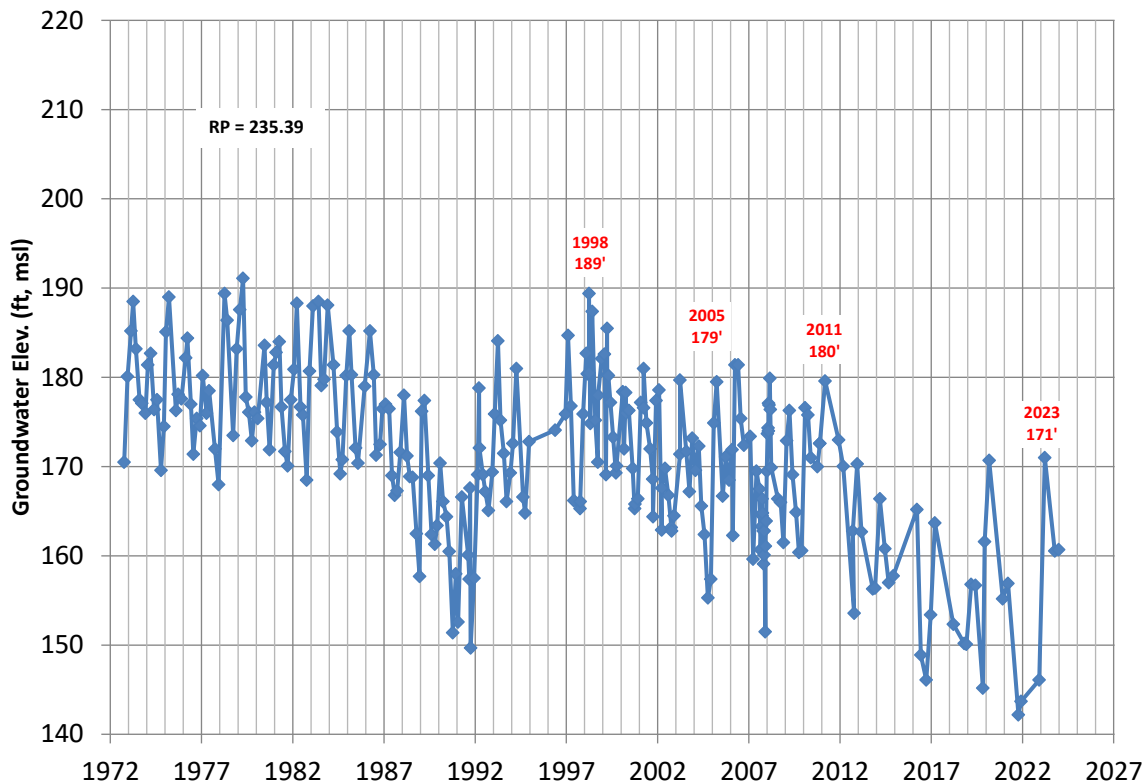
03N21W19M01S (depth 197')



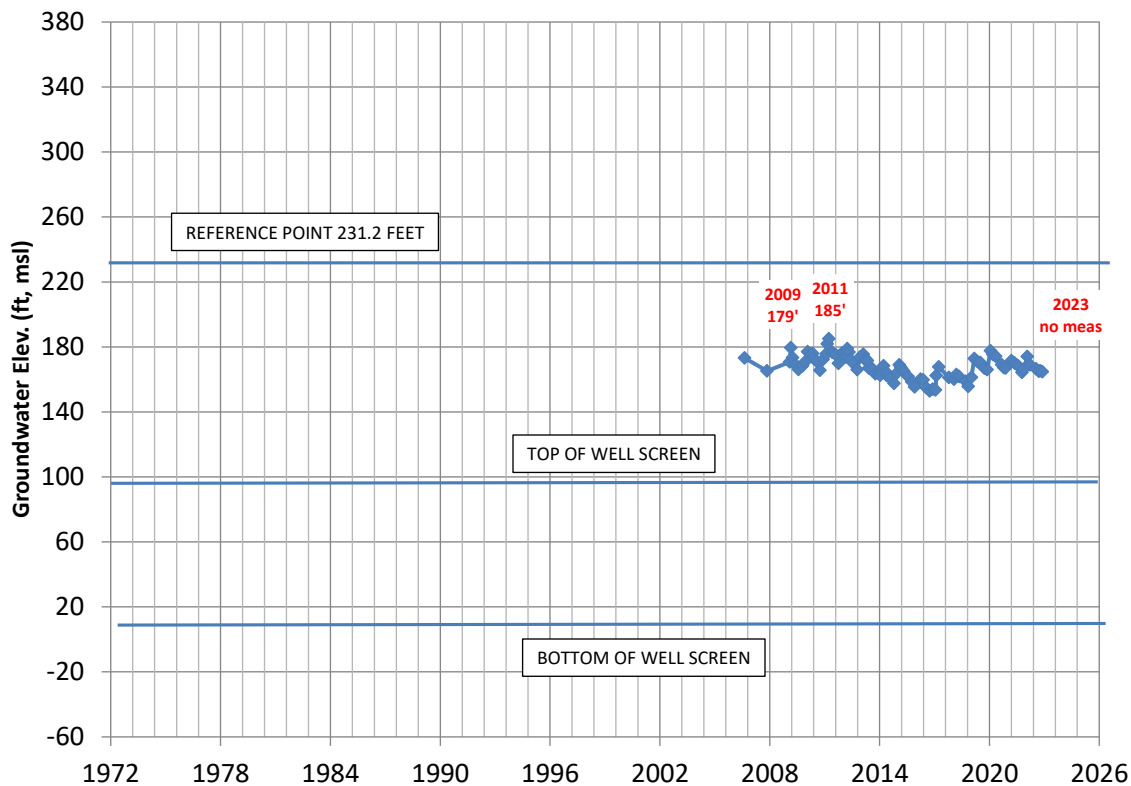
03N21W19R01S (160' - 205' bgs)



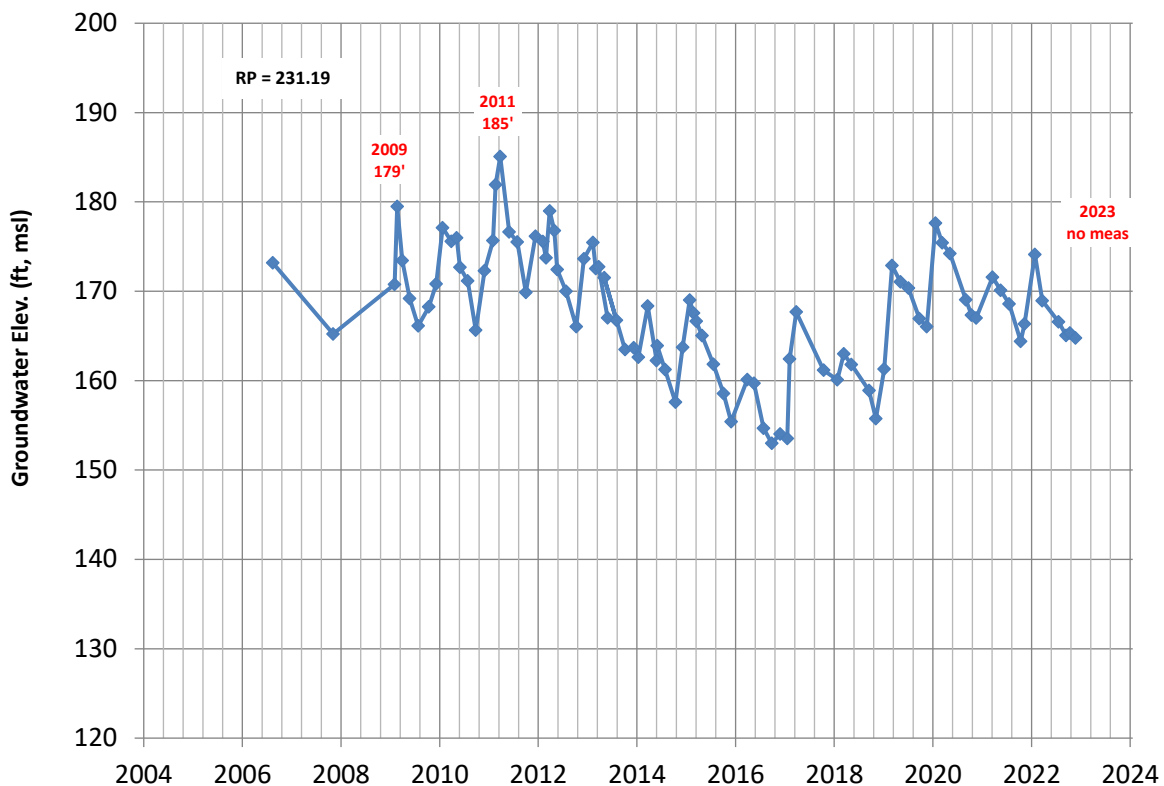
03N21W19R01S (160' - 205' bgs)



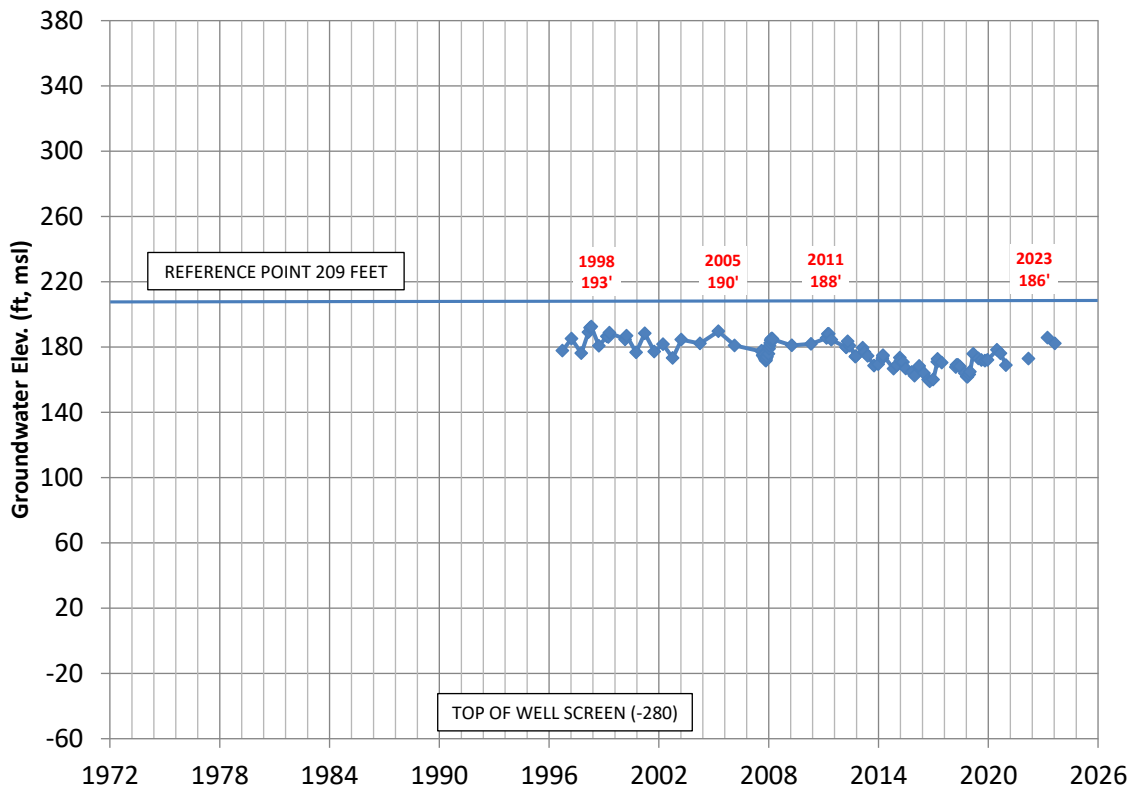
03N21W20F04S (134' - 219' bgs)



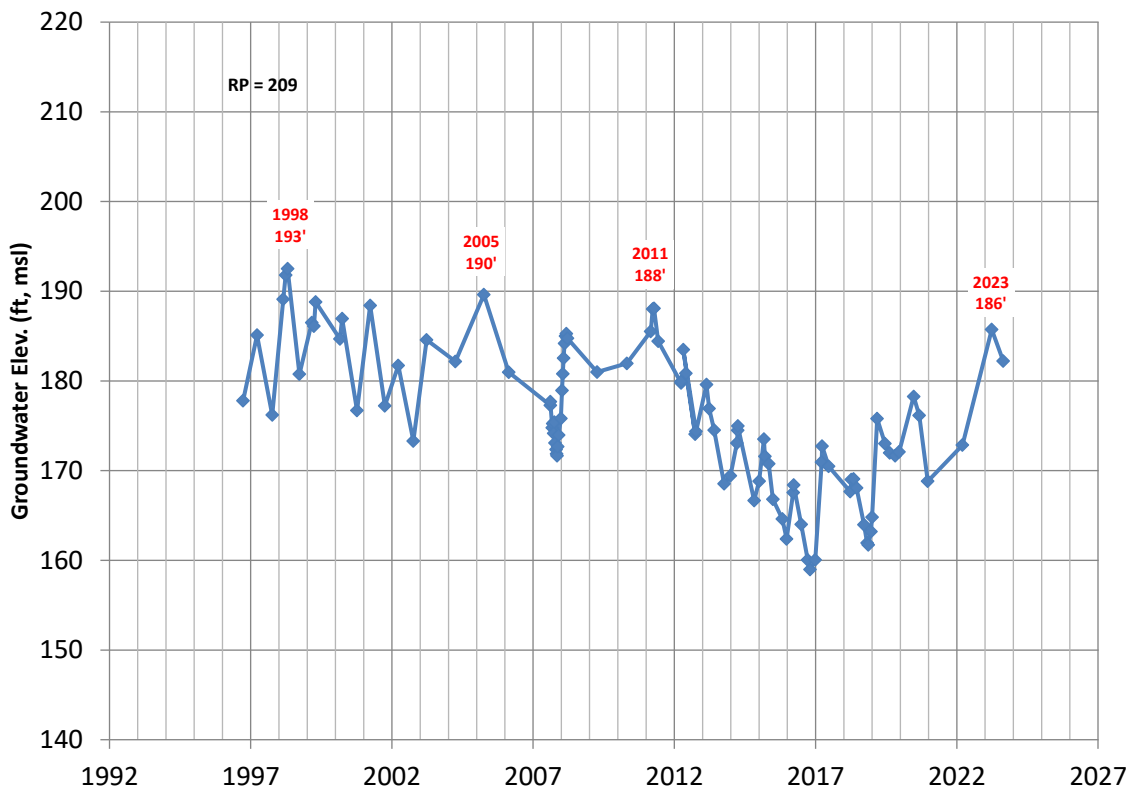
03N21W20F04S (134' - 219' bgs)



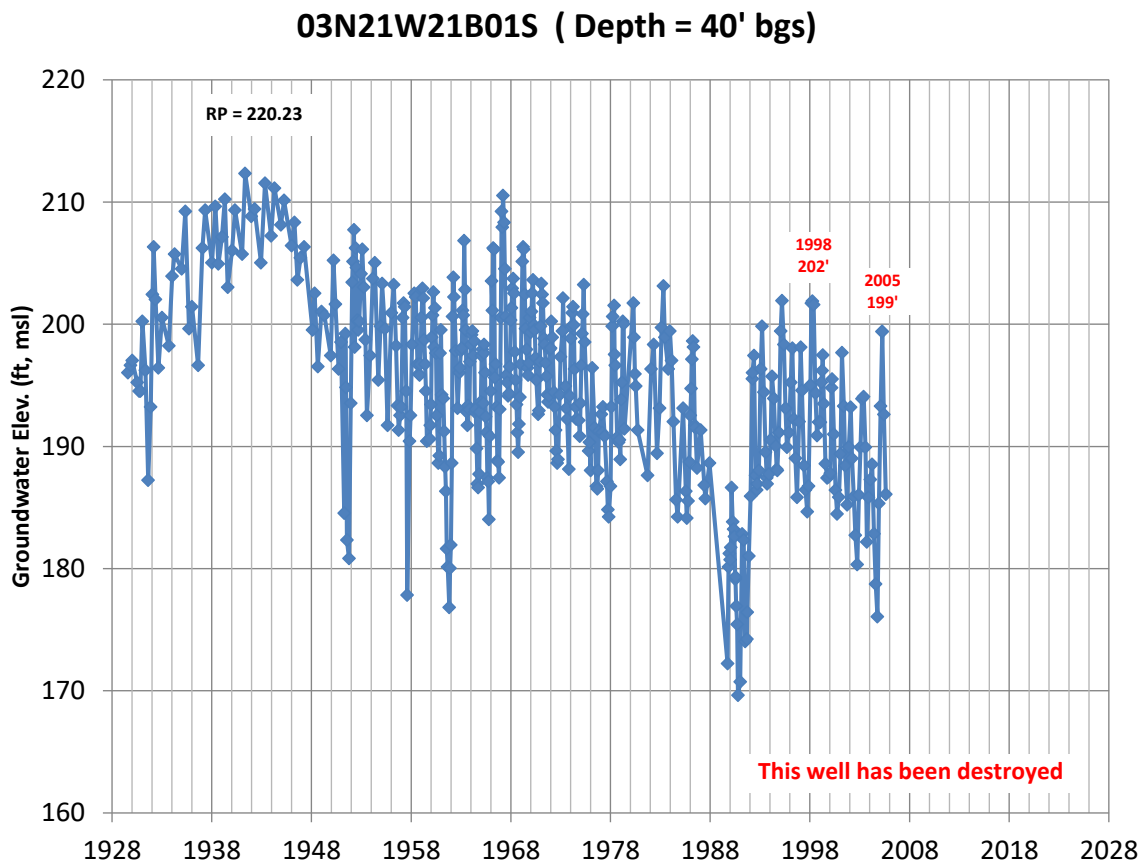
03N21W20J03S (489' - 717')



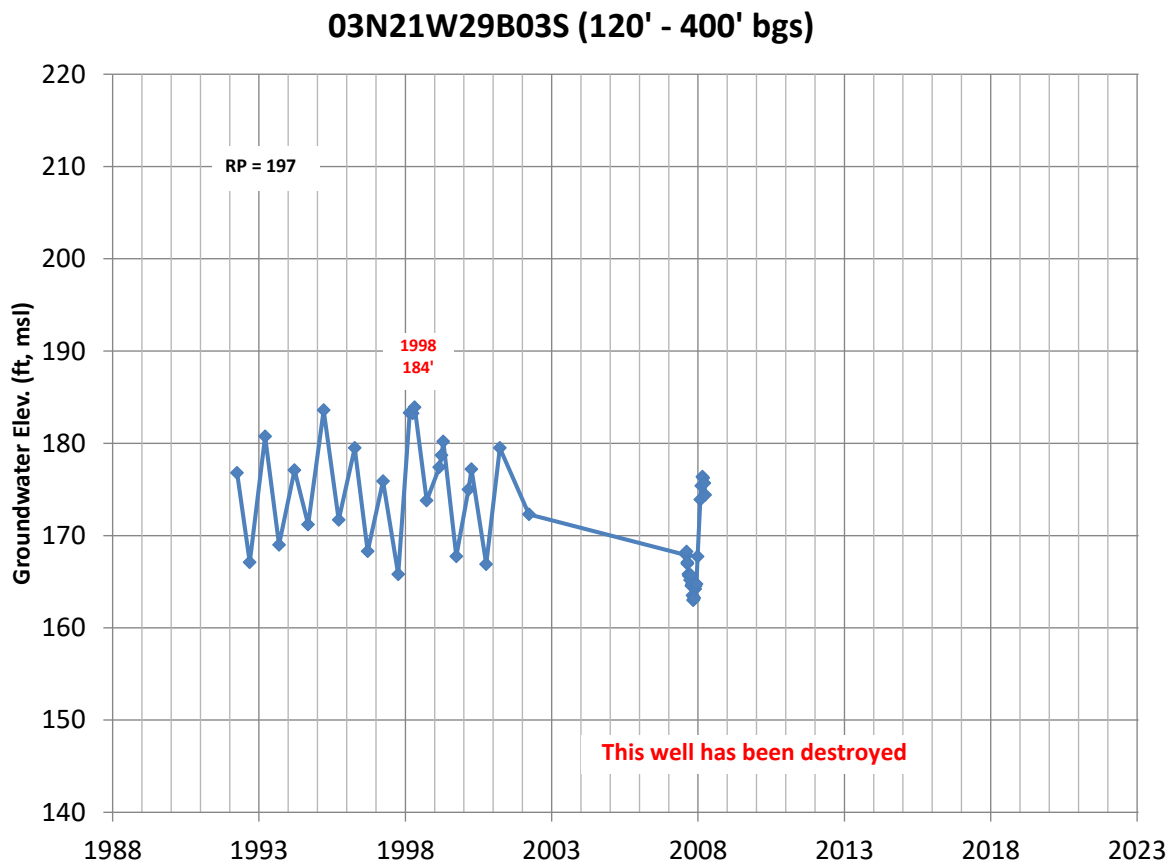
03N21W20J03S (489' - 717')



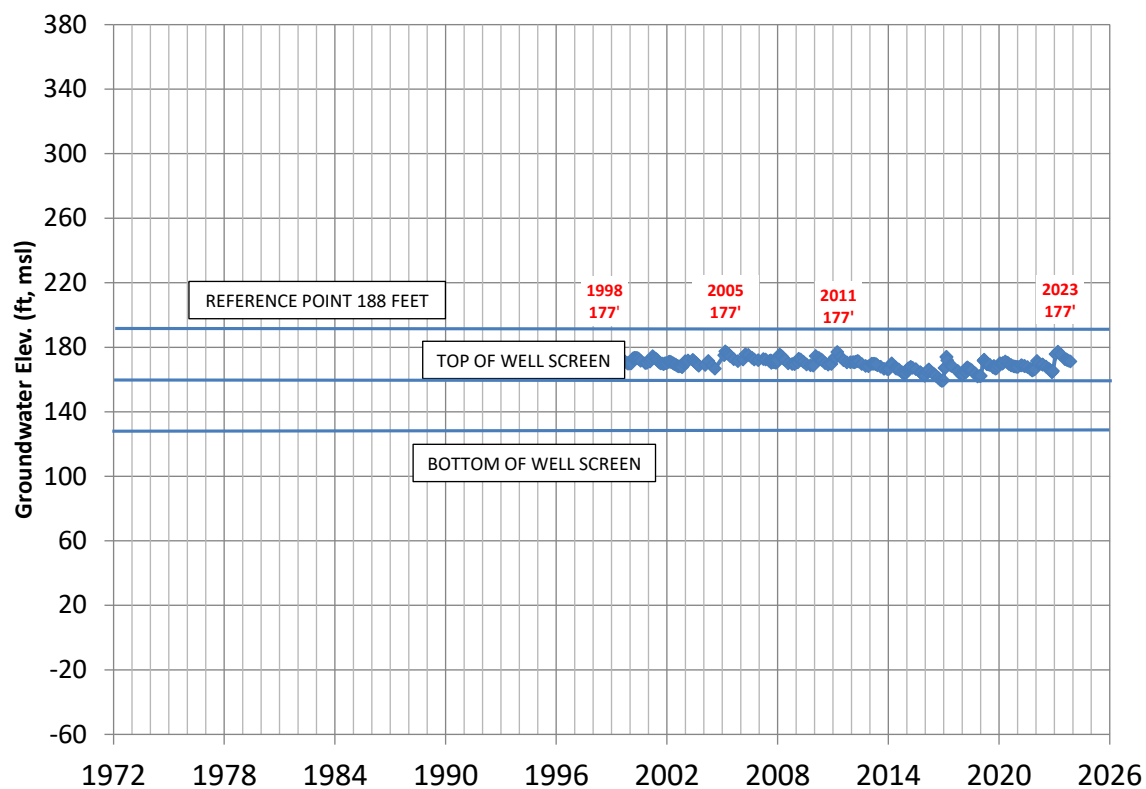
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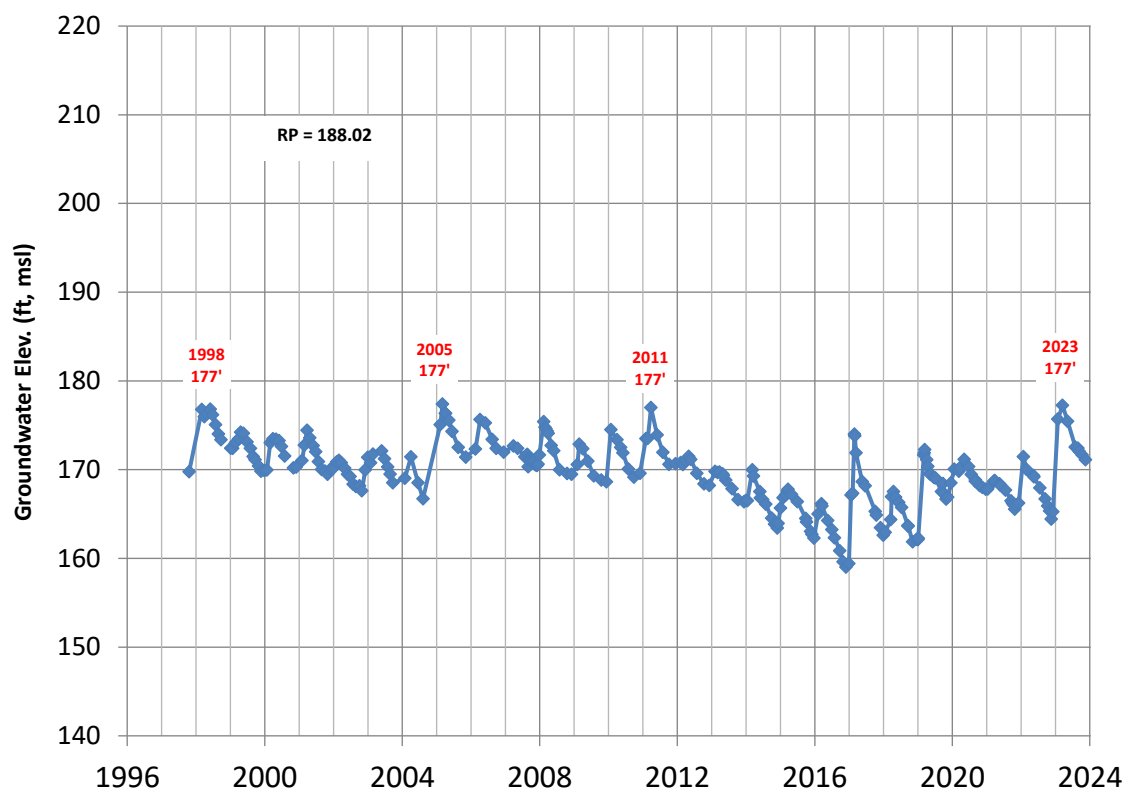
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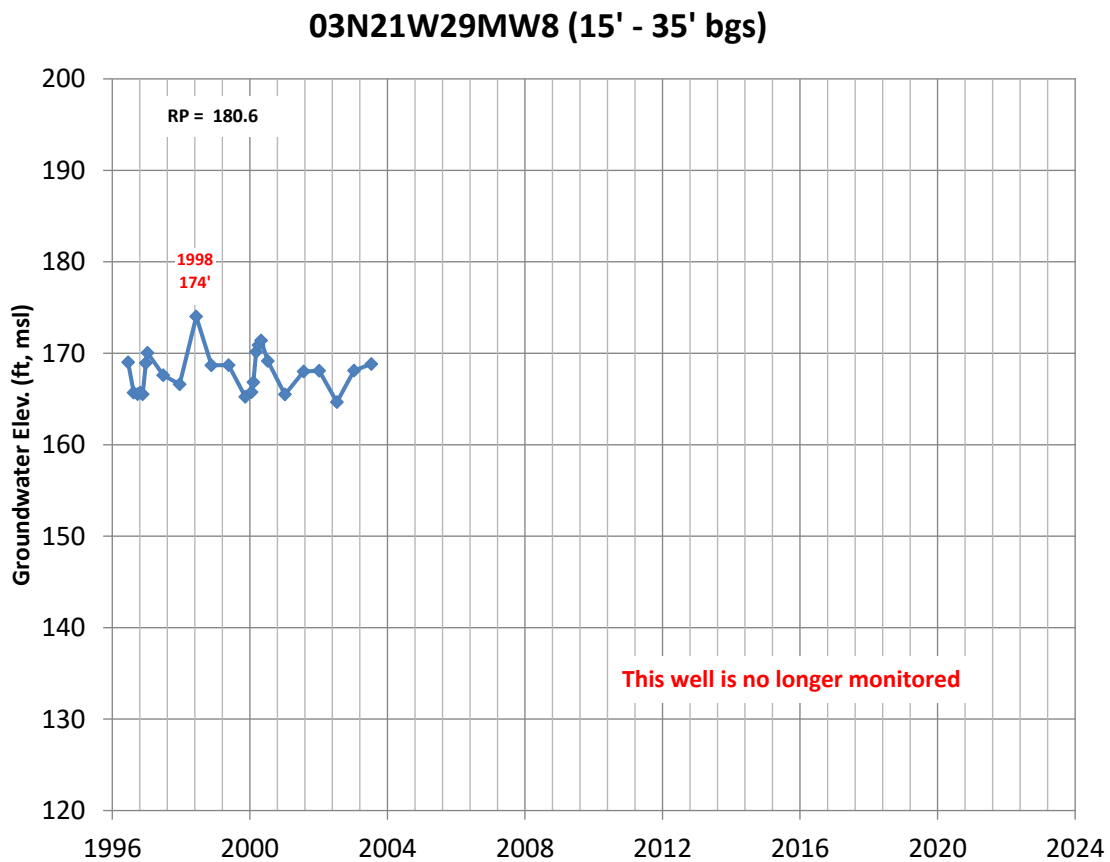
03N21W29K02S (28' - 58' bgs)



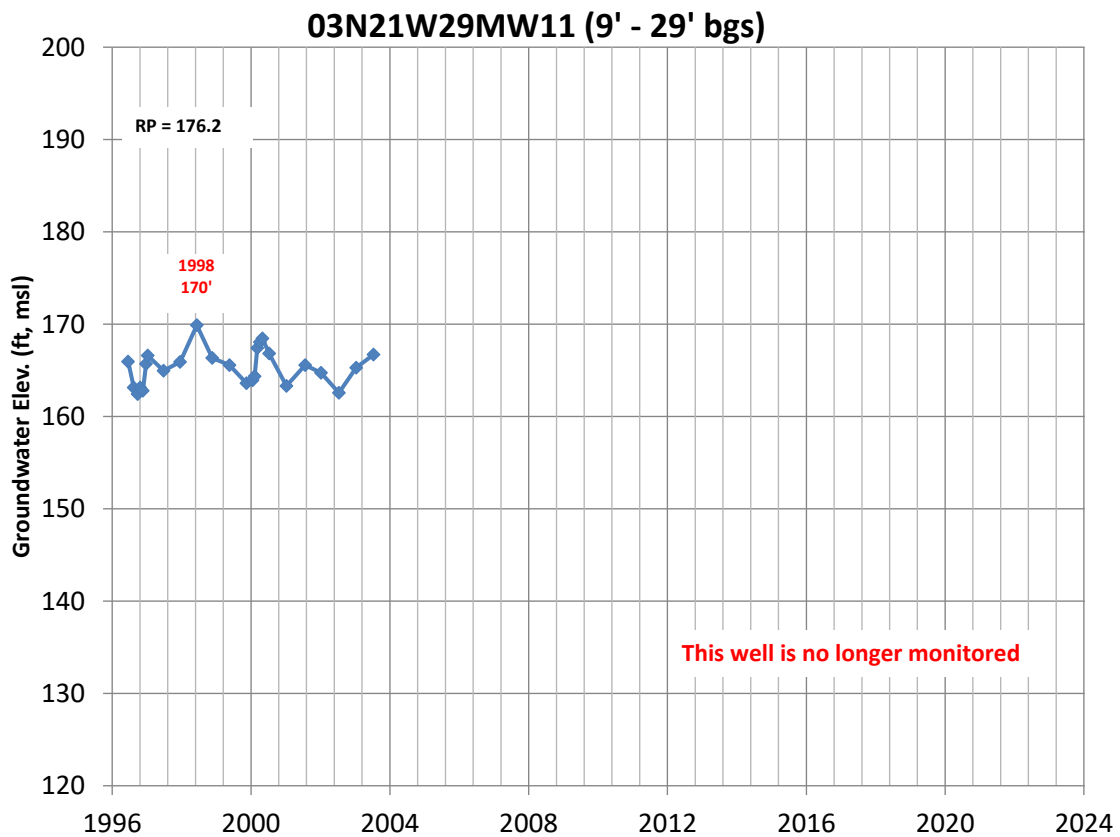
03N21W29K02S (28' - 58' bgs)



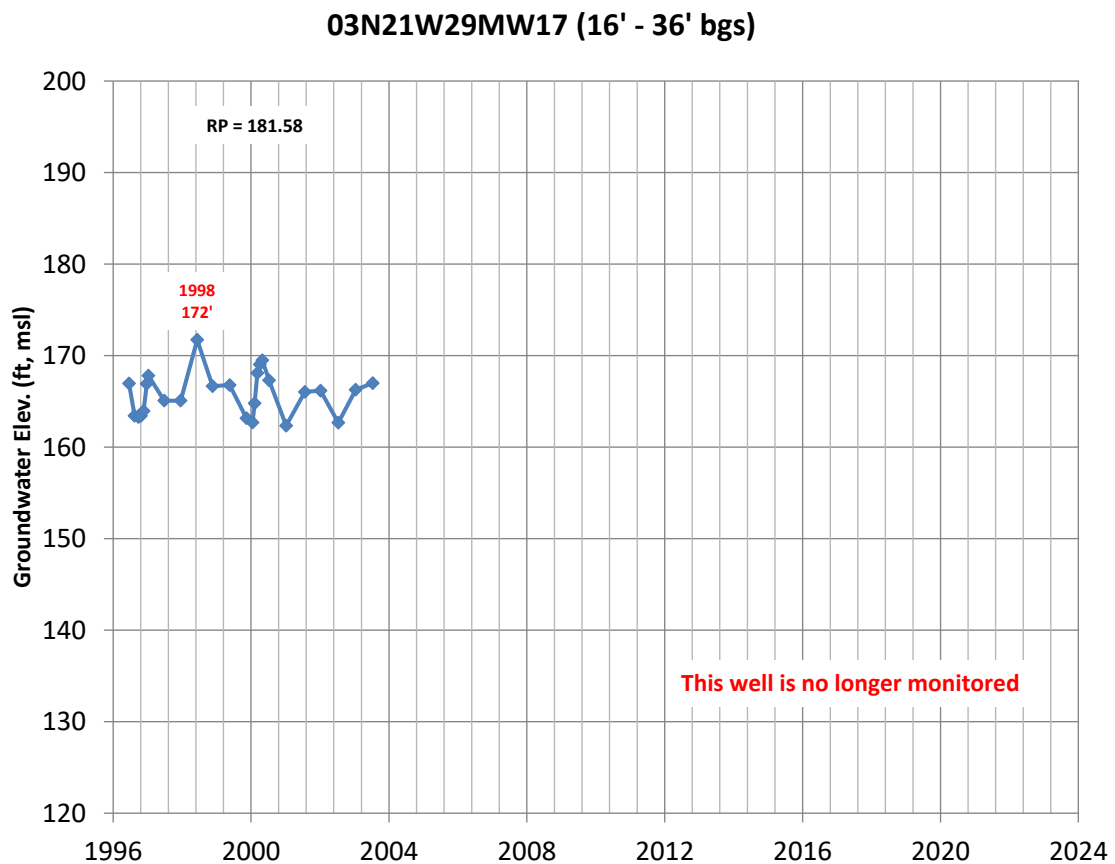
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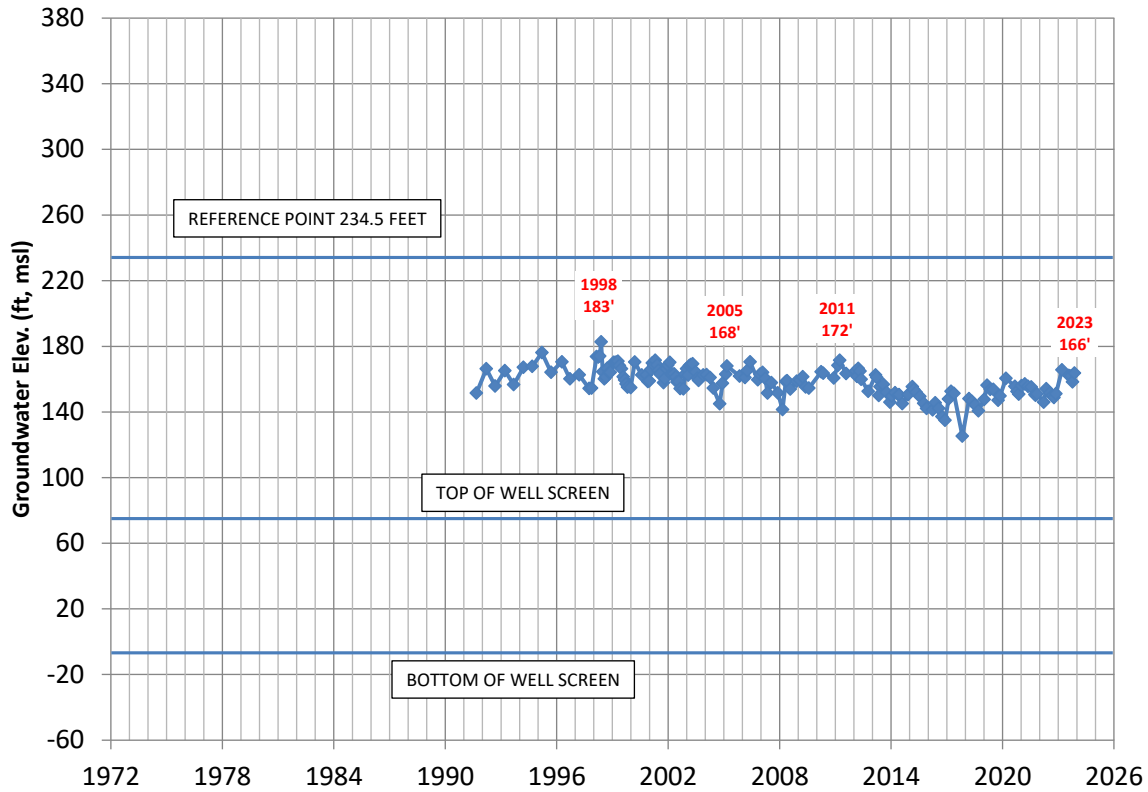
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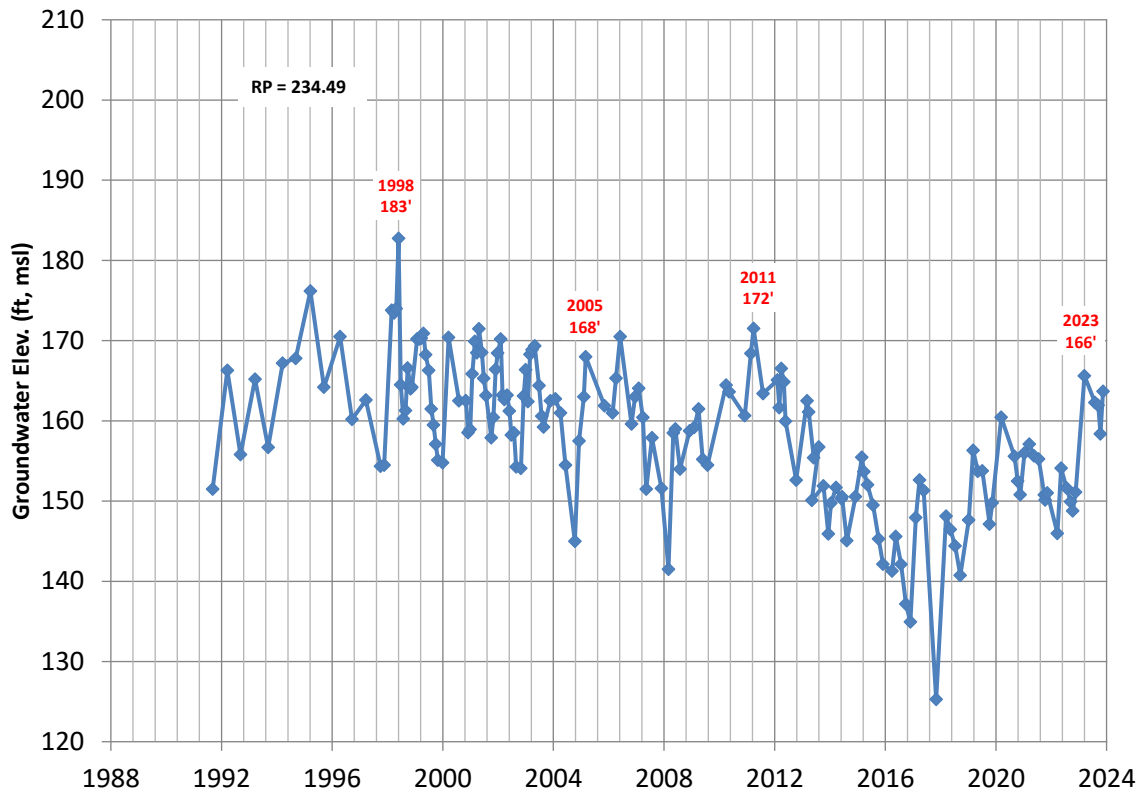
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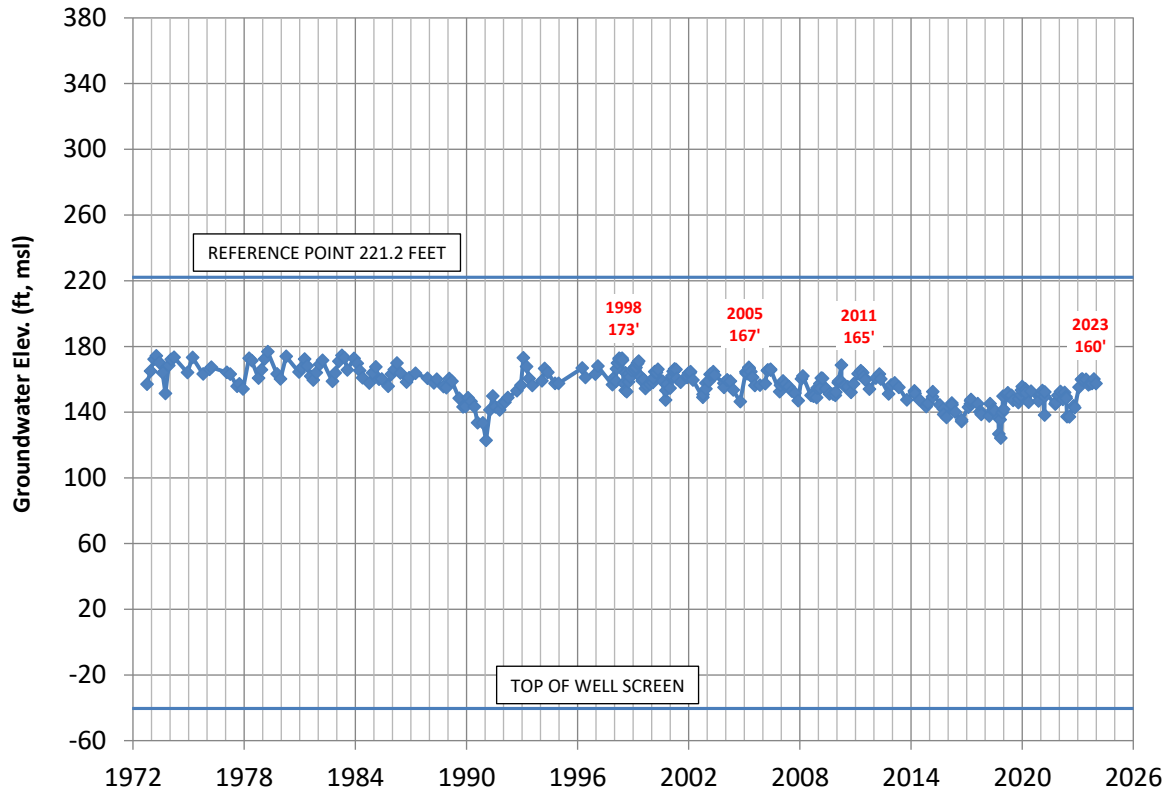
03N21W30E01S (160'- 240' bgs)



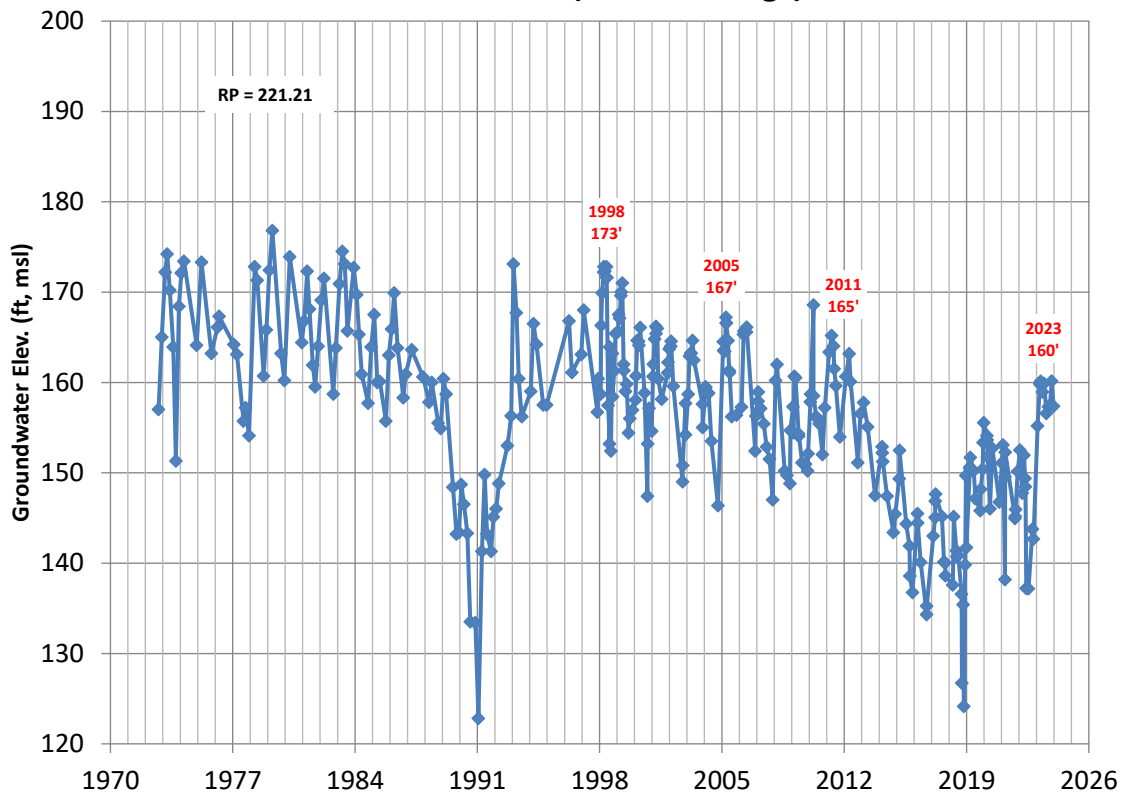
03N21W30E01S (160'- 240' bgs)



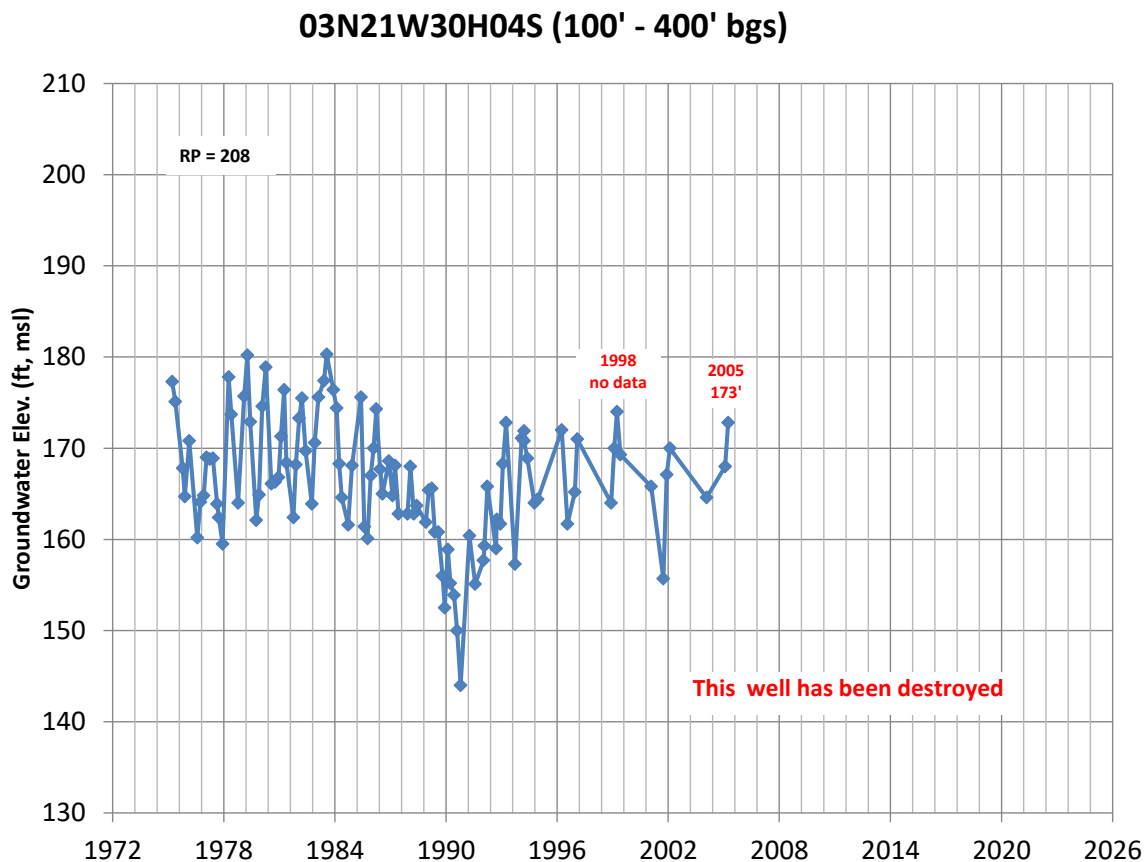
03N21W30F01S (260' - 424' bgs)



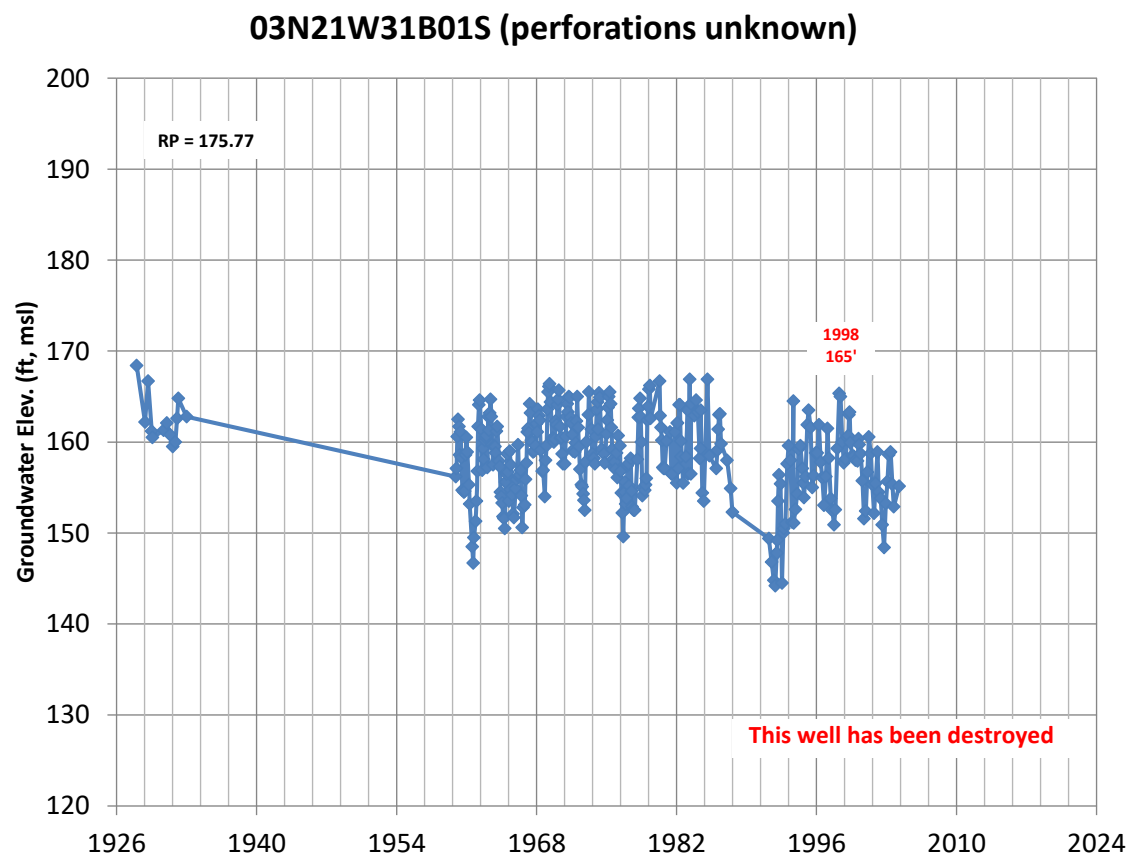
03N21W30F01S (260' - 424' bgs)



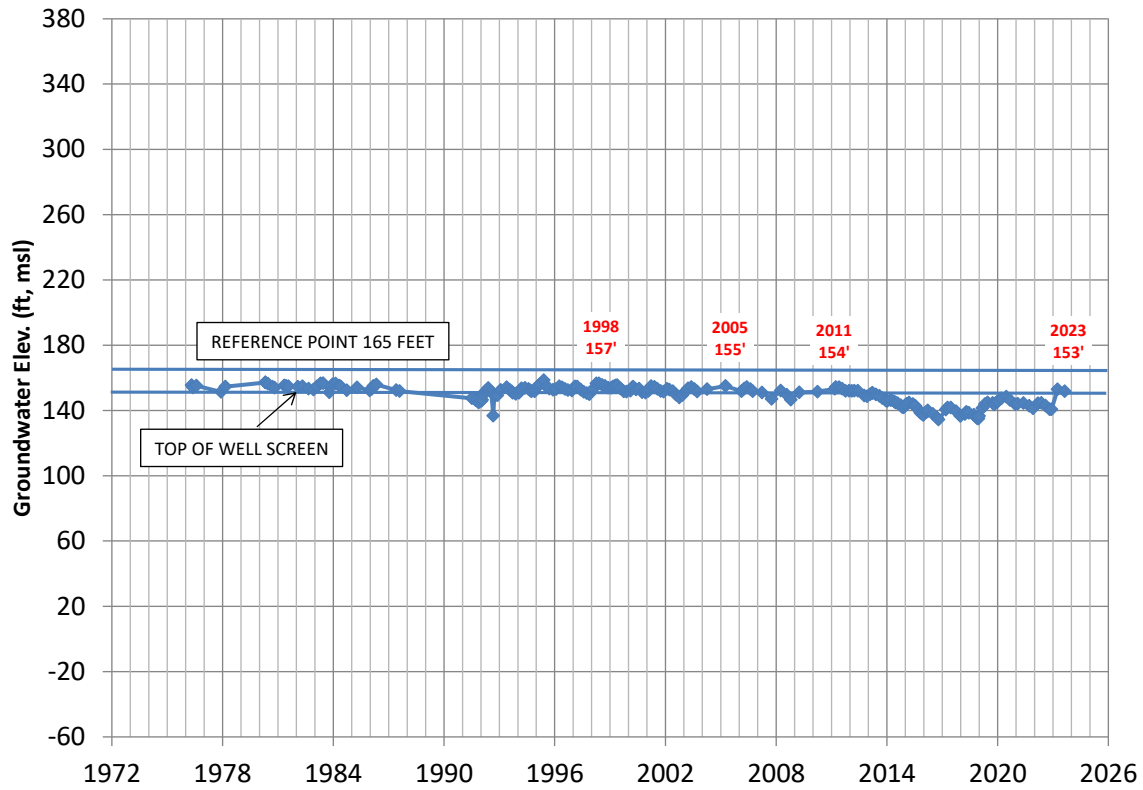
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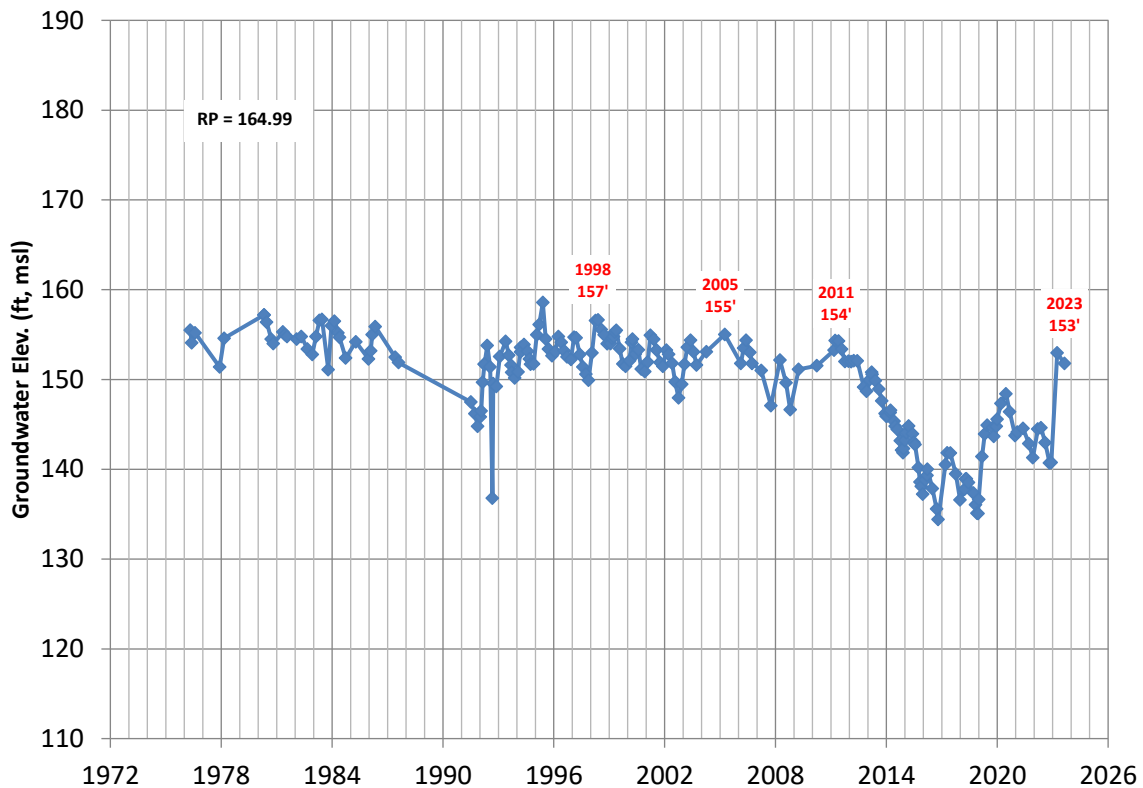
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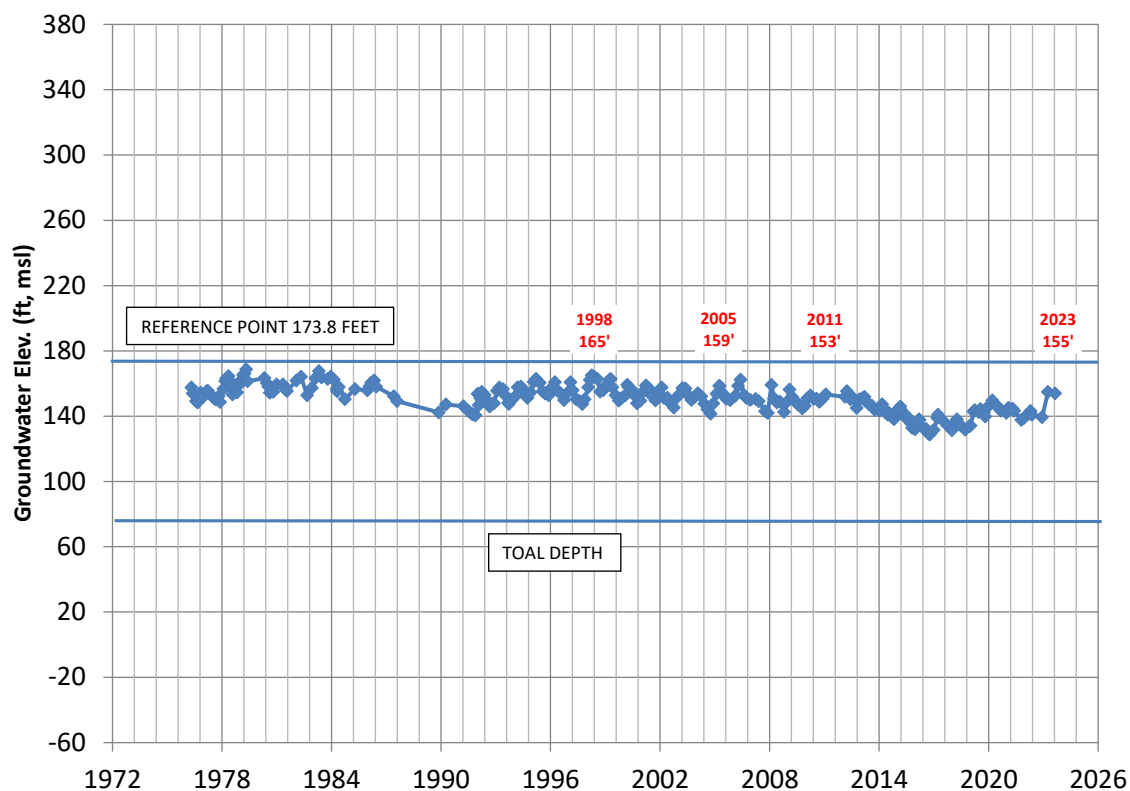
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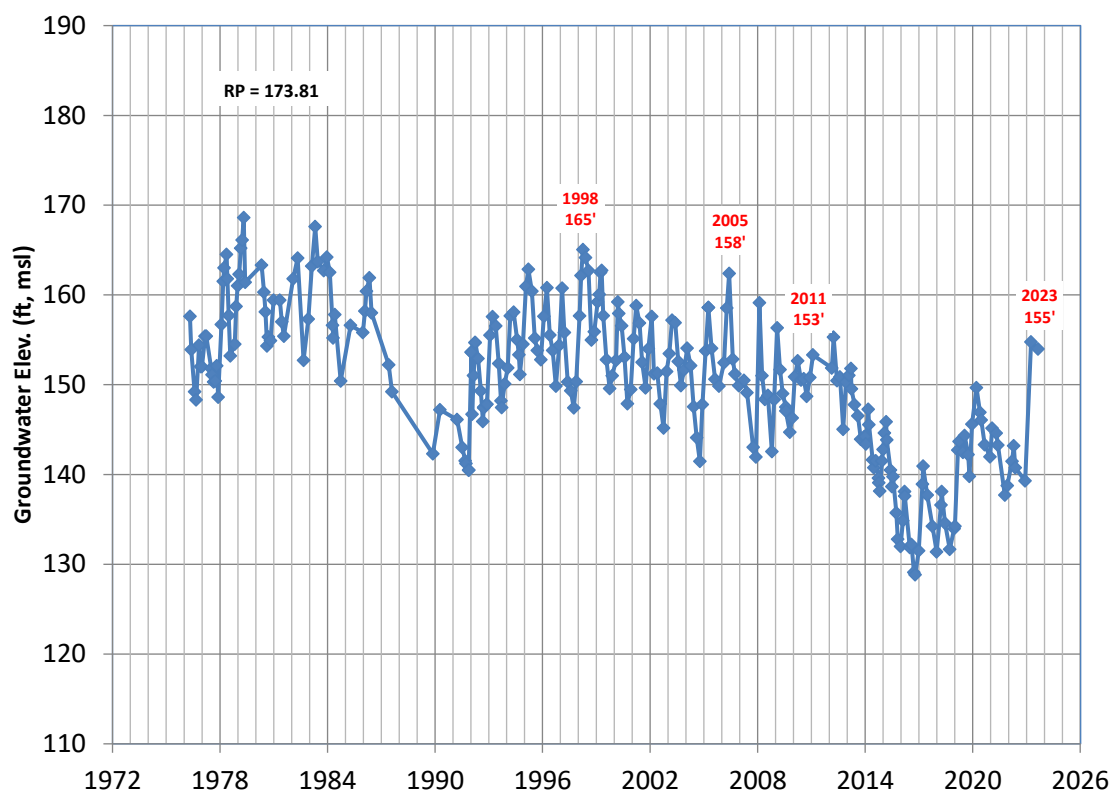
03N21W31F04S (17' - 37' bgs)



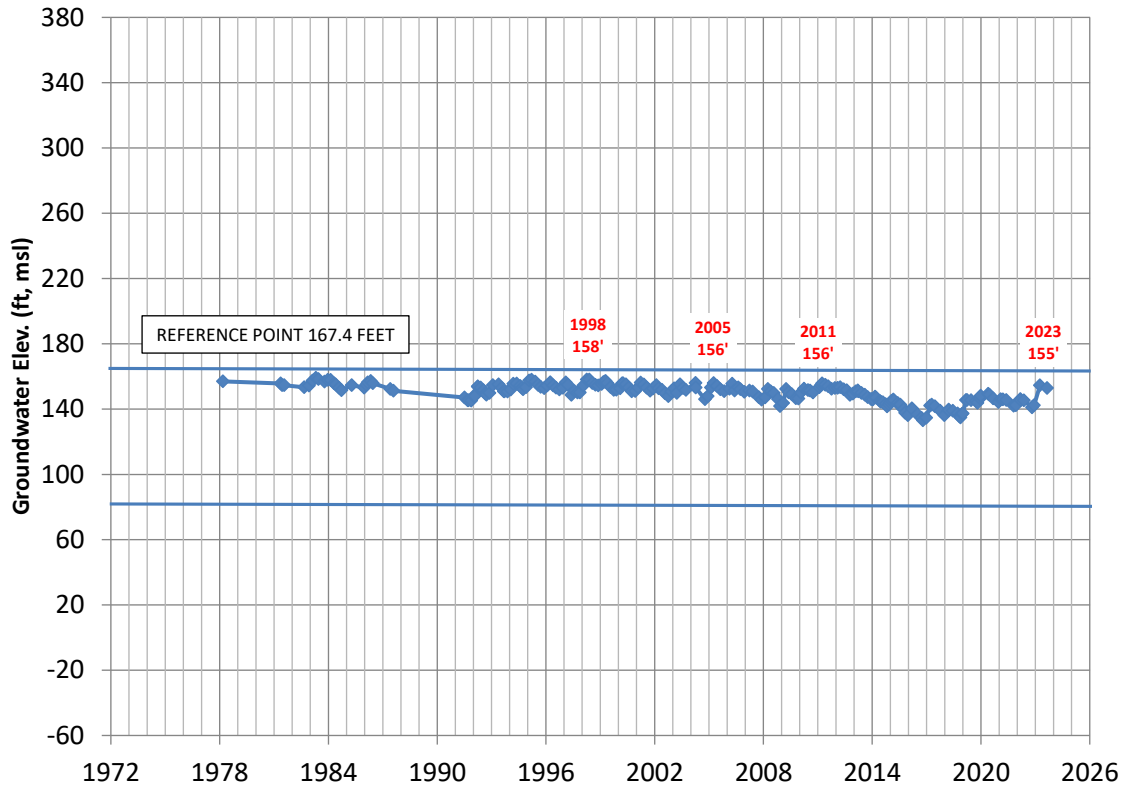
03N21W31F05S (depth 102' bgs)



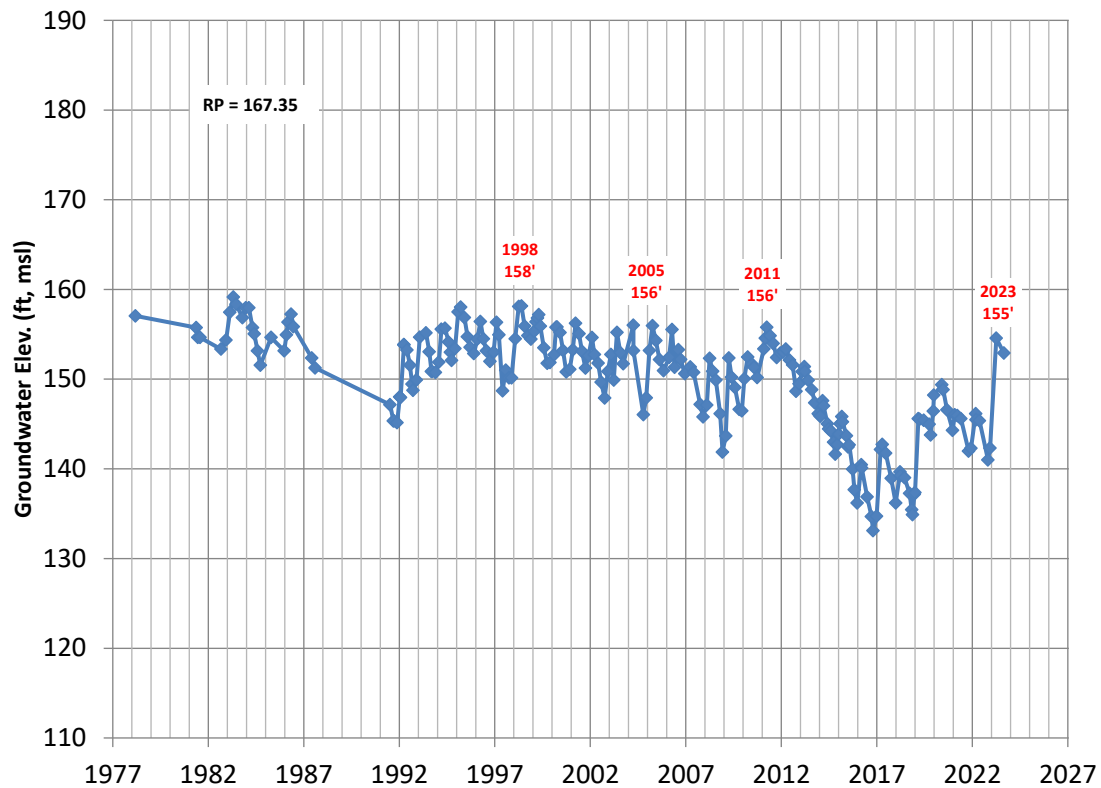
03N21W31F05S (92'- 102' bgs)

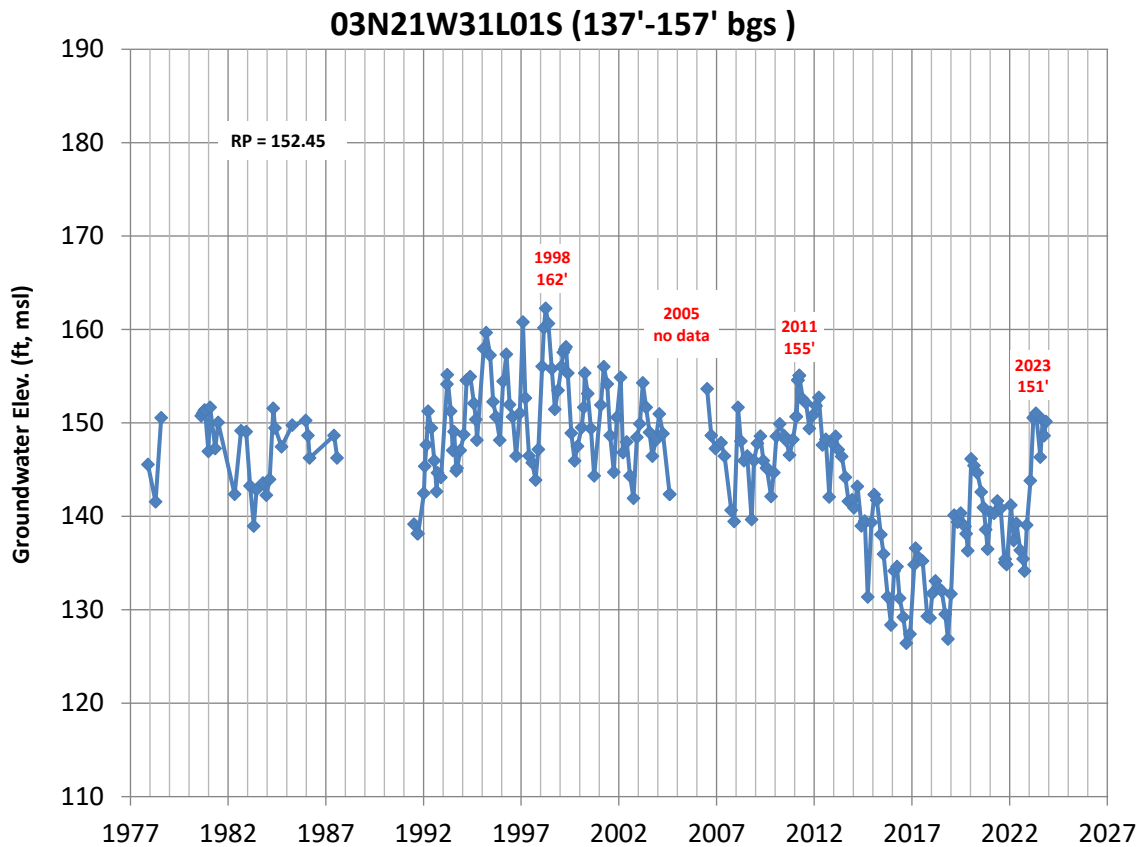
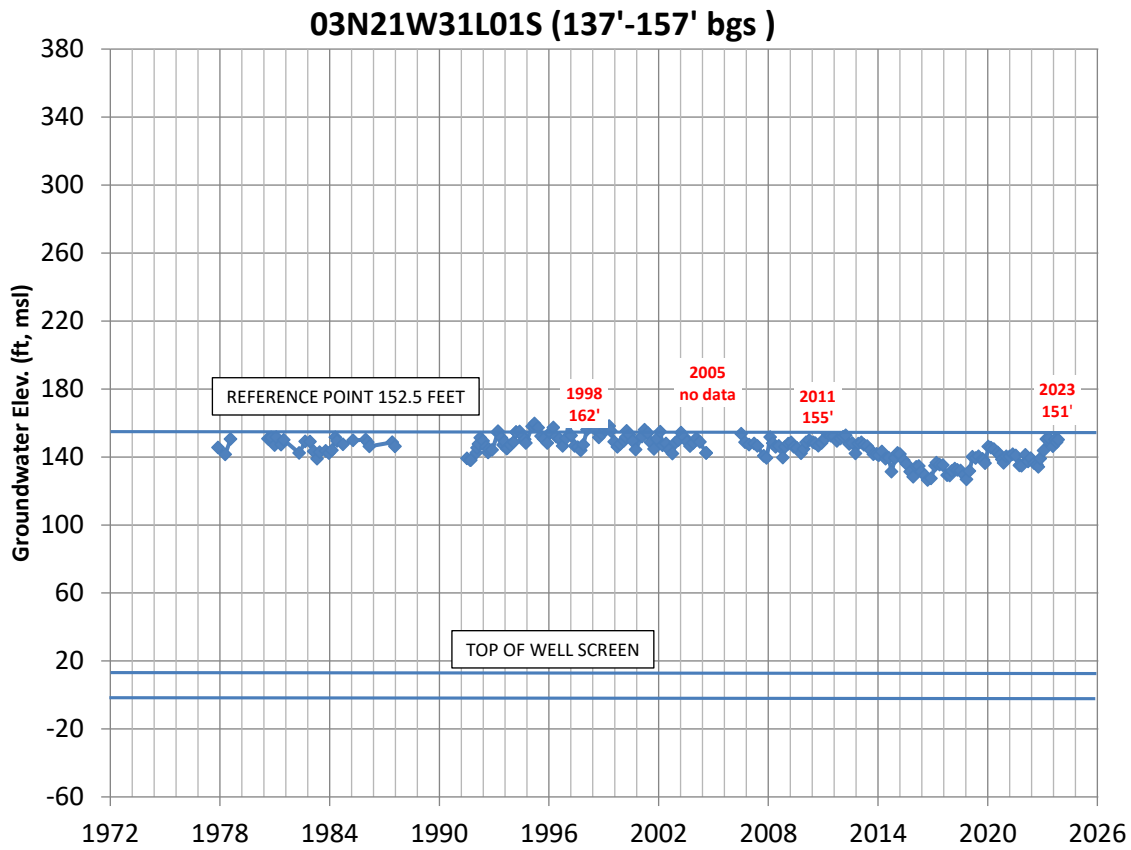


03N21W31G03S (depth 86' bgs)

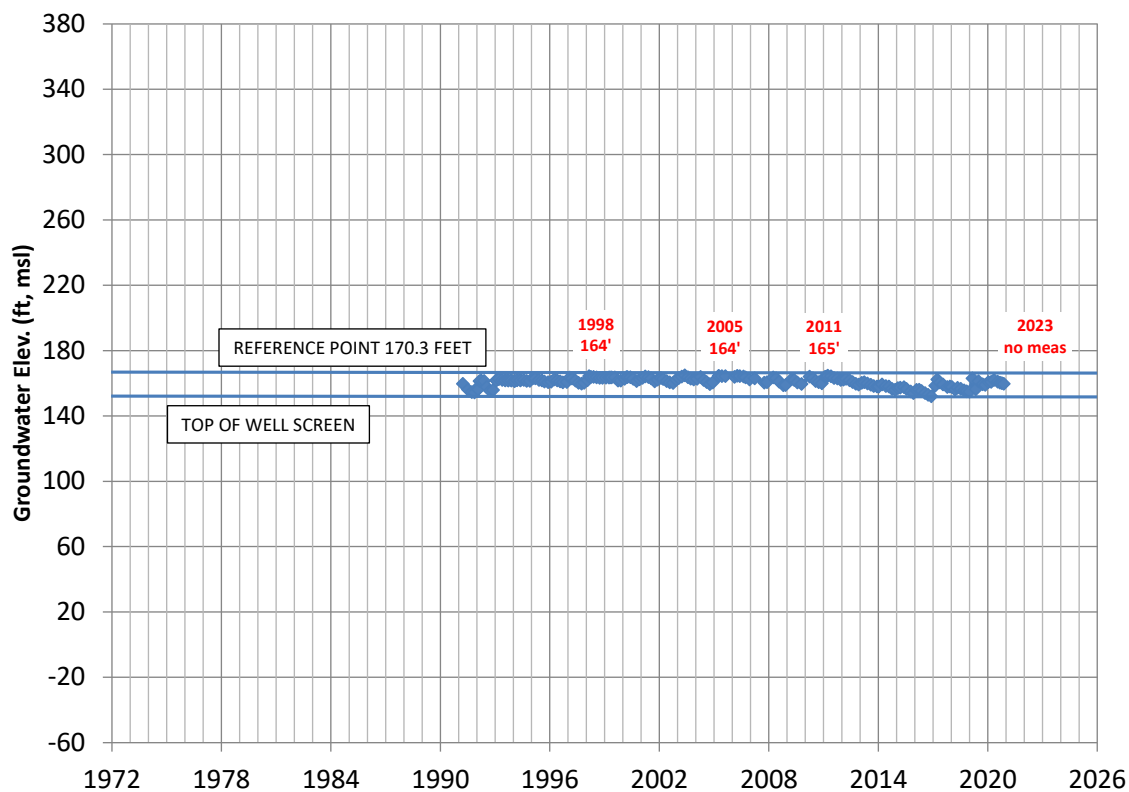


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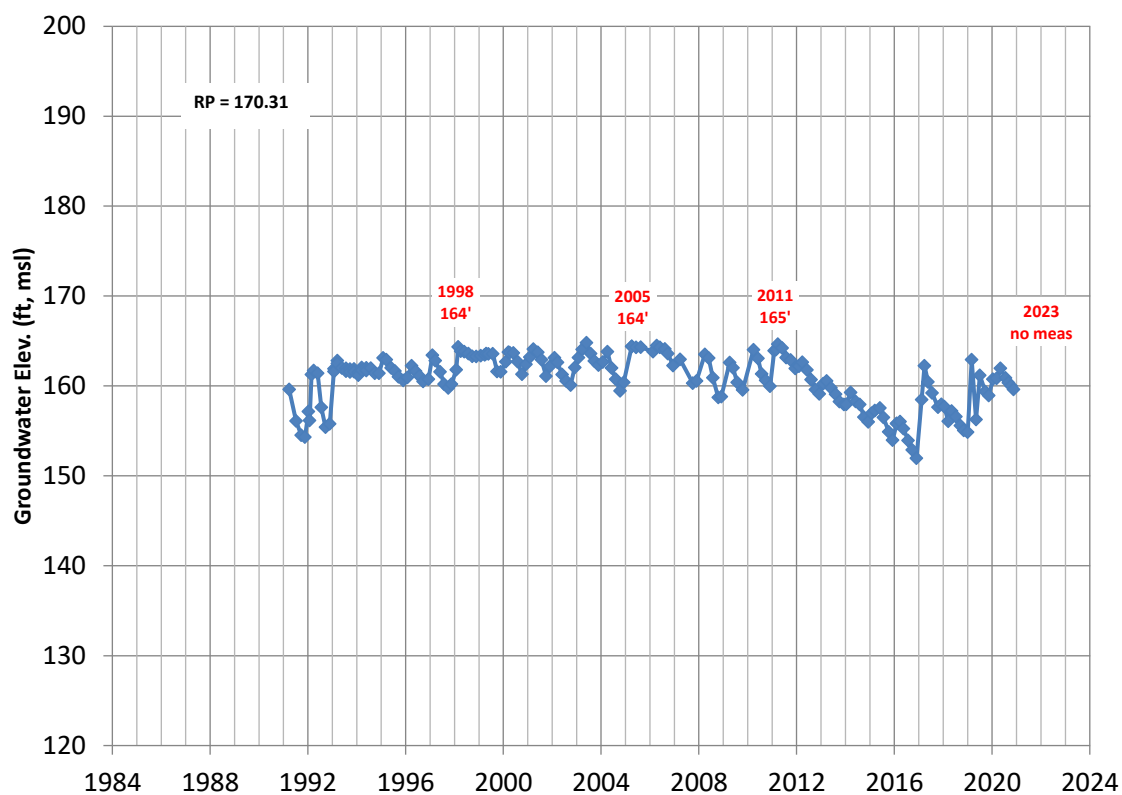




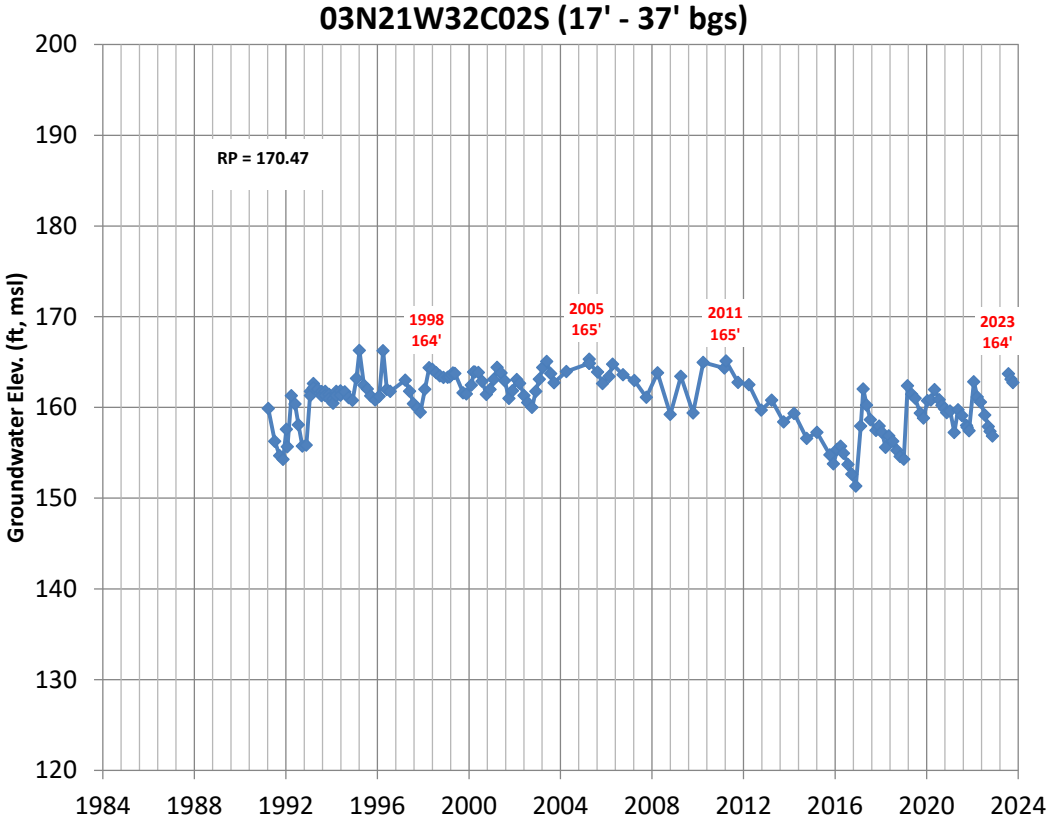
03N21W32C01S (12' - 32' bgs)



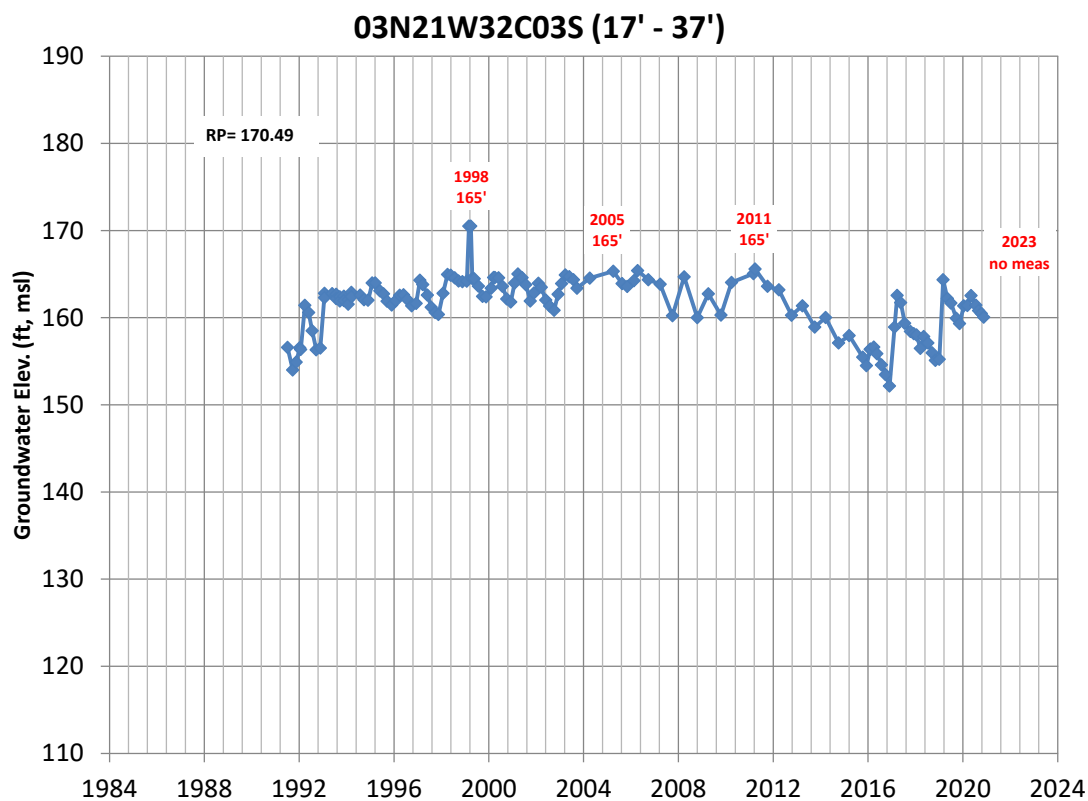
03N21W32C01S (12' - 32' bgs)



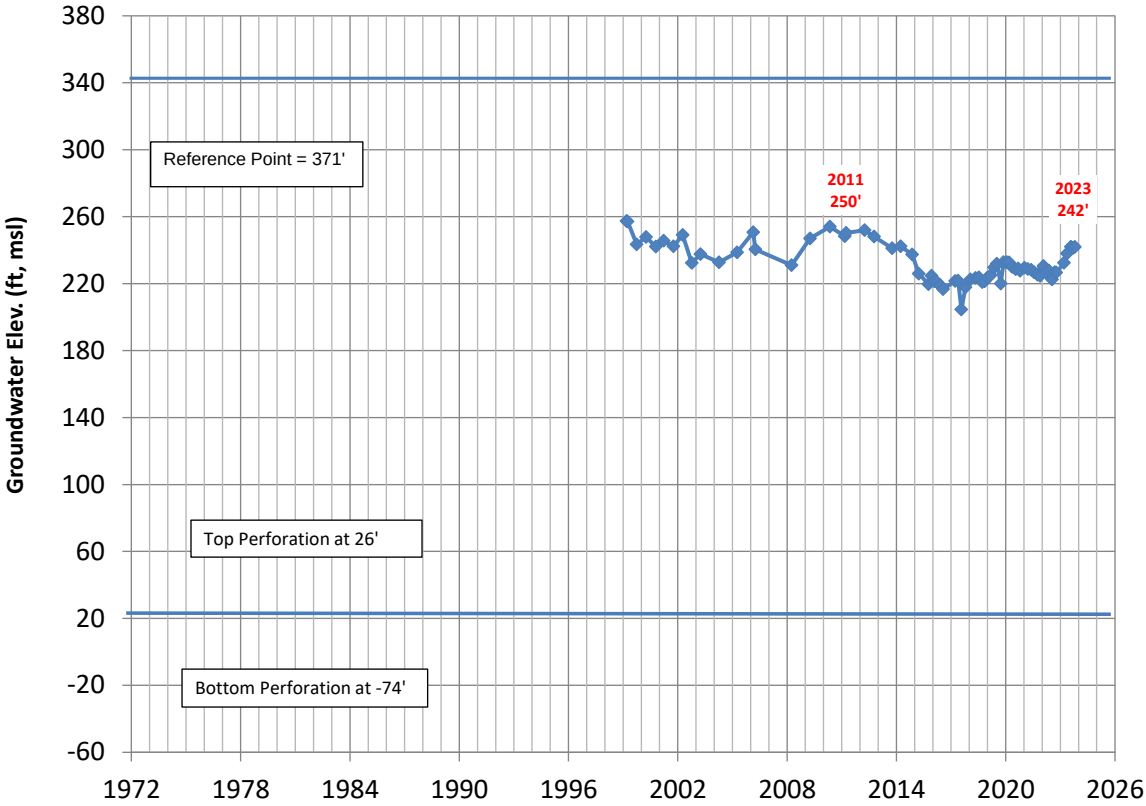
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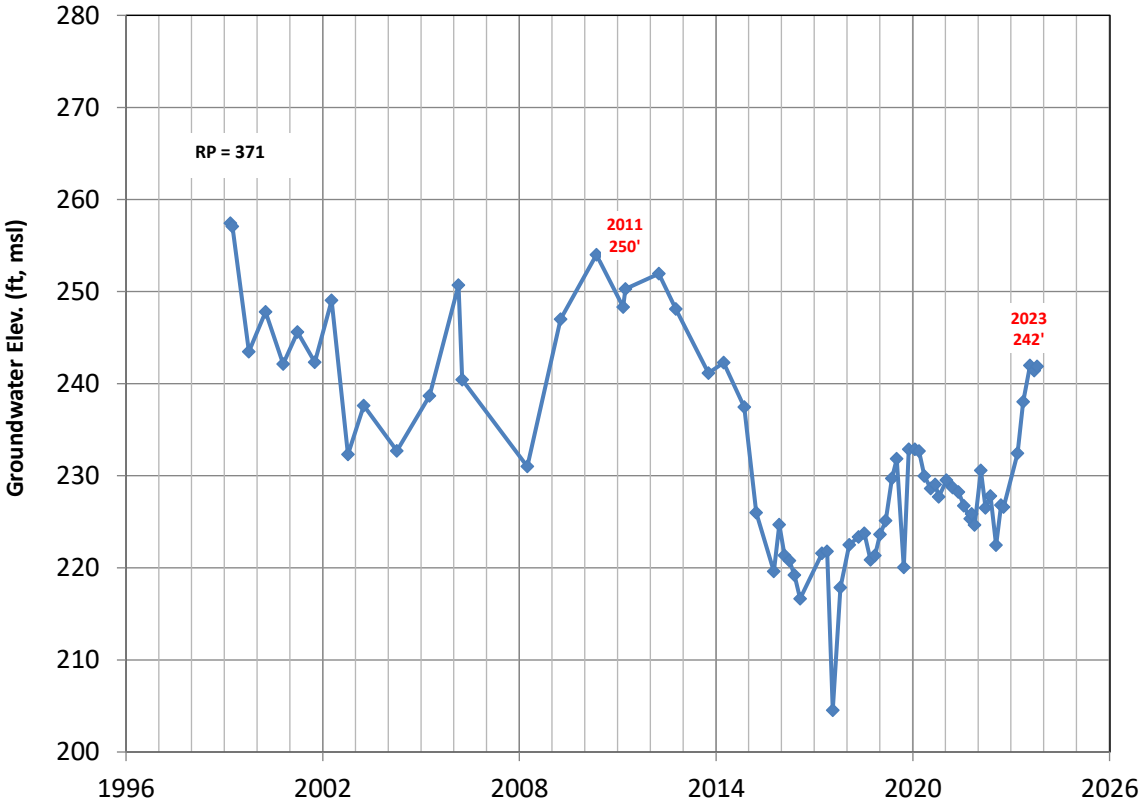
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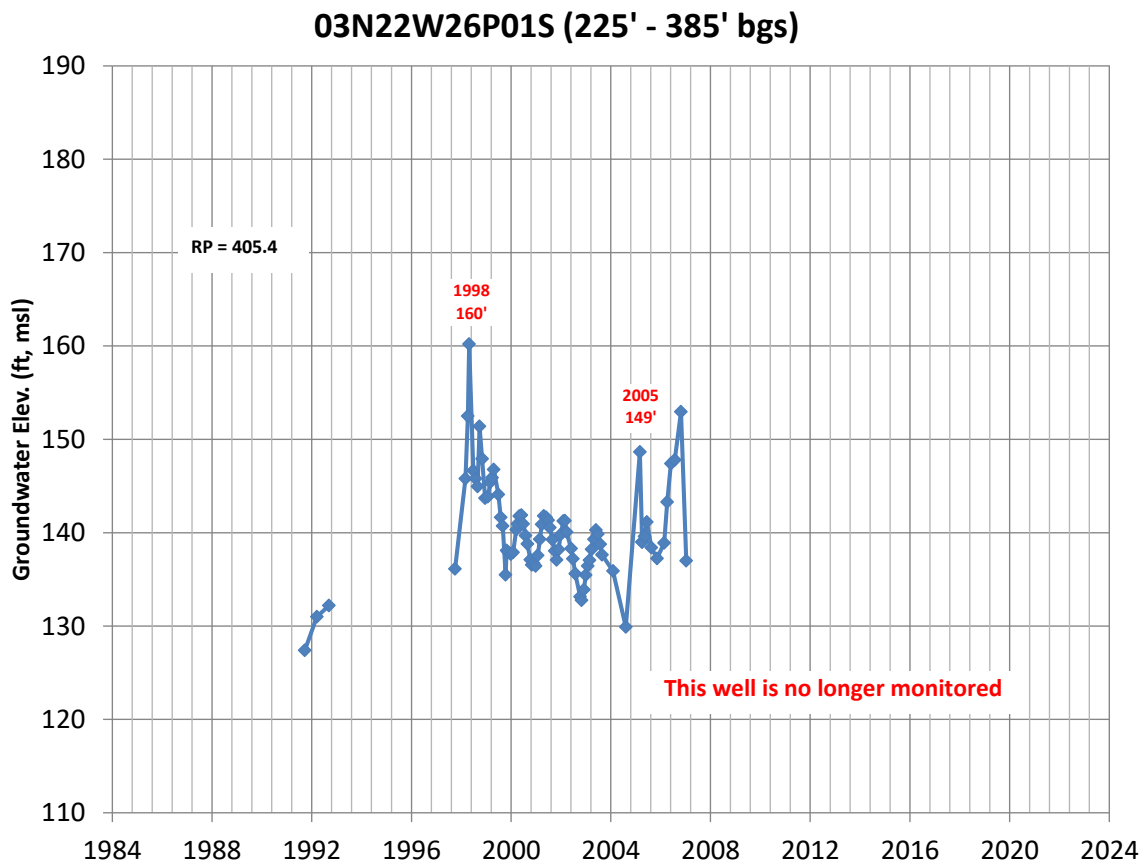
03N22W23Q01S (345' - 445' bgs)



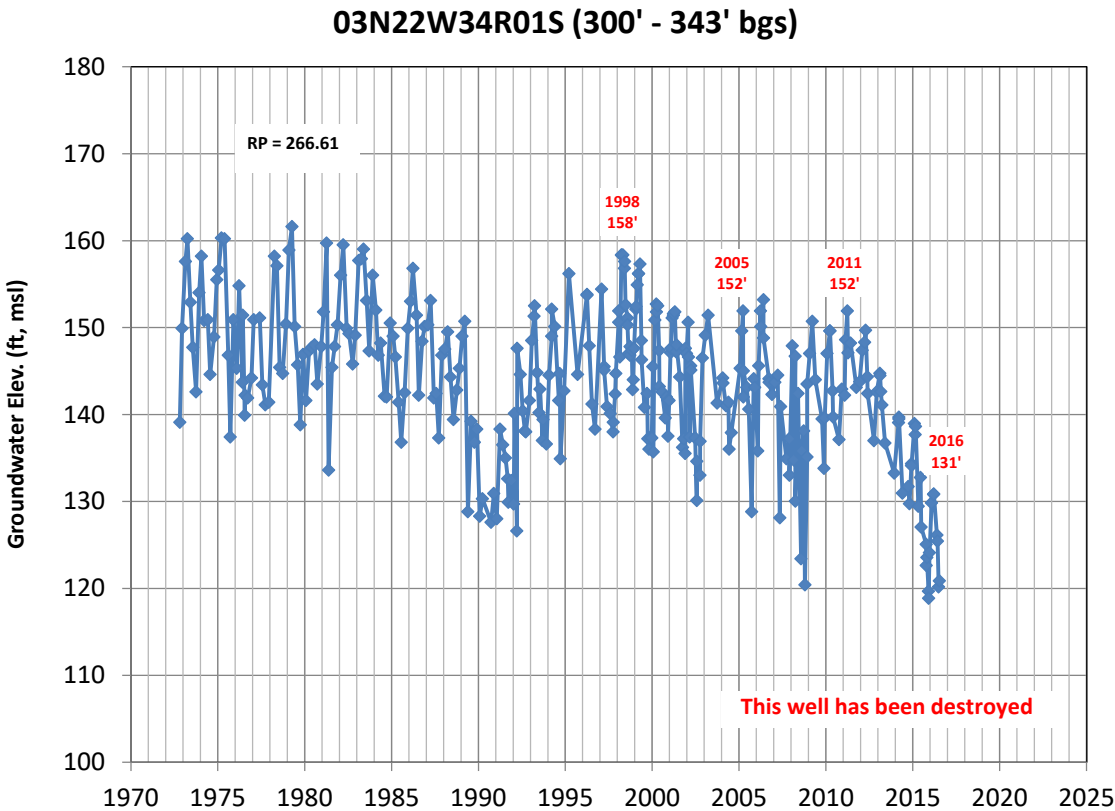
03N22W23Q01S (345' - 445' bgs)



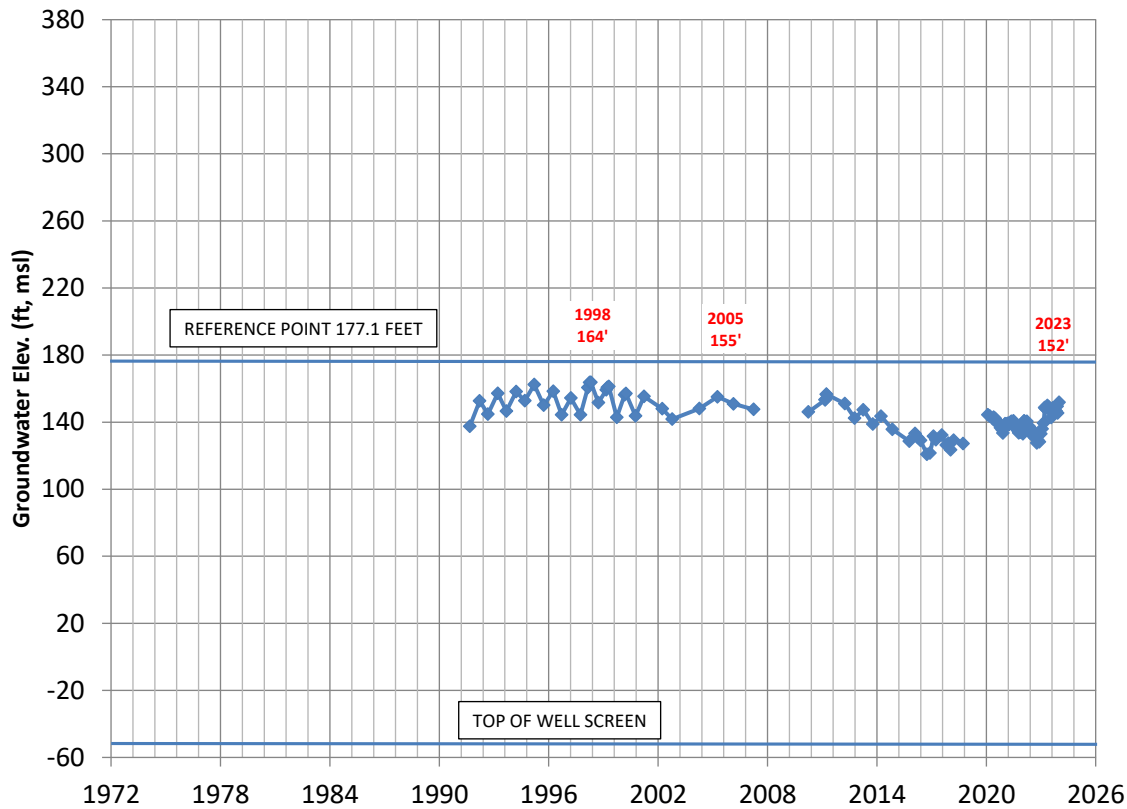
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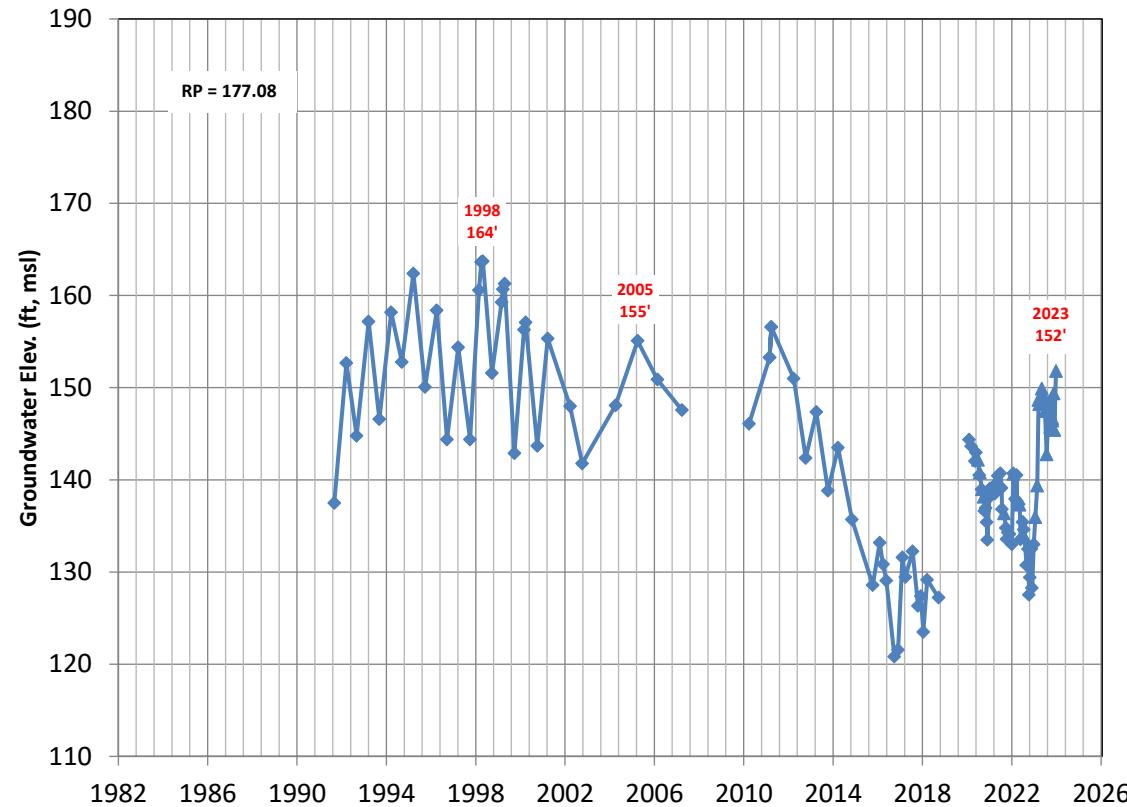
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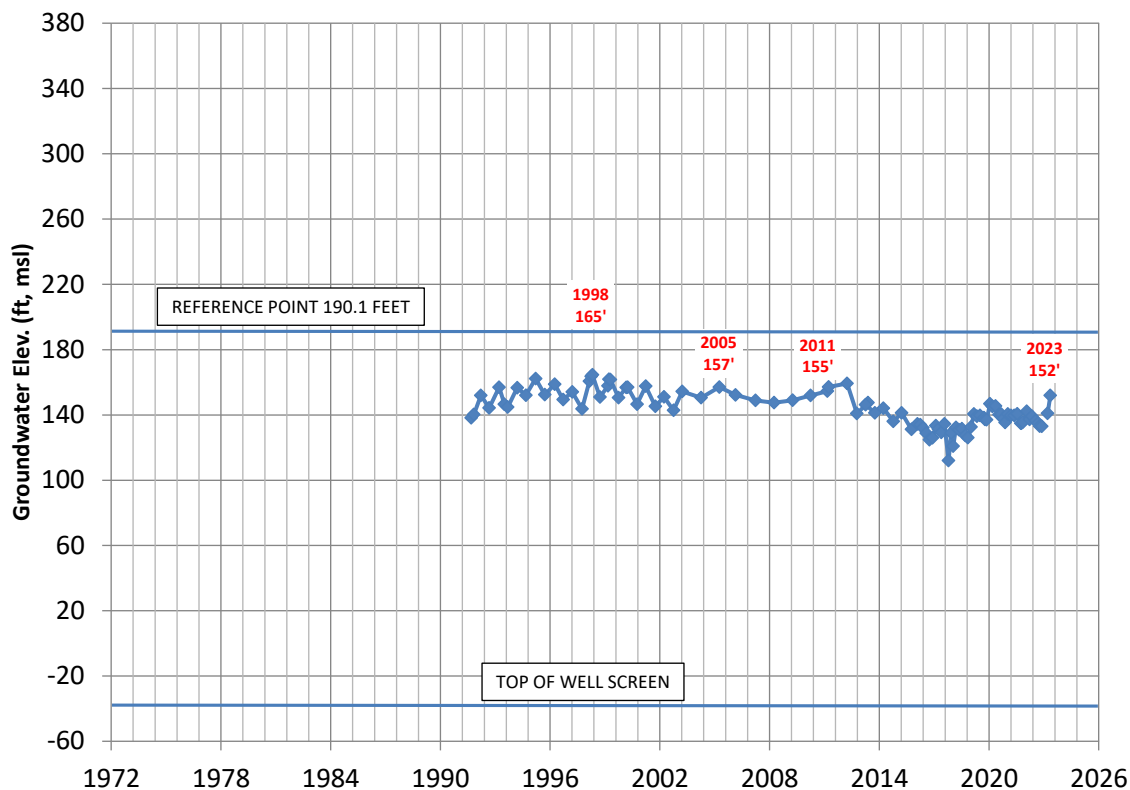
03N22W35Q02S (222' - 366' bgs)



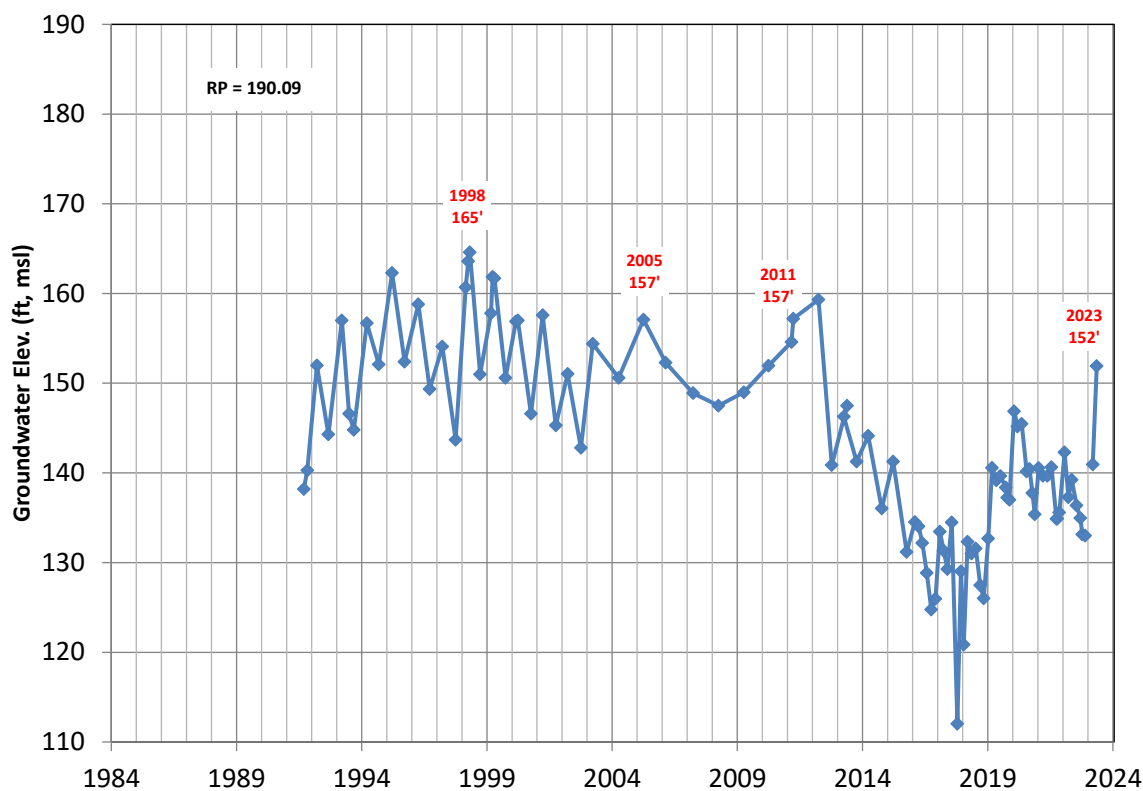
03N22W35Q02S (222' - 366' bgs)



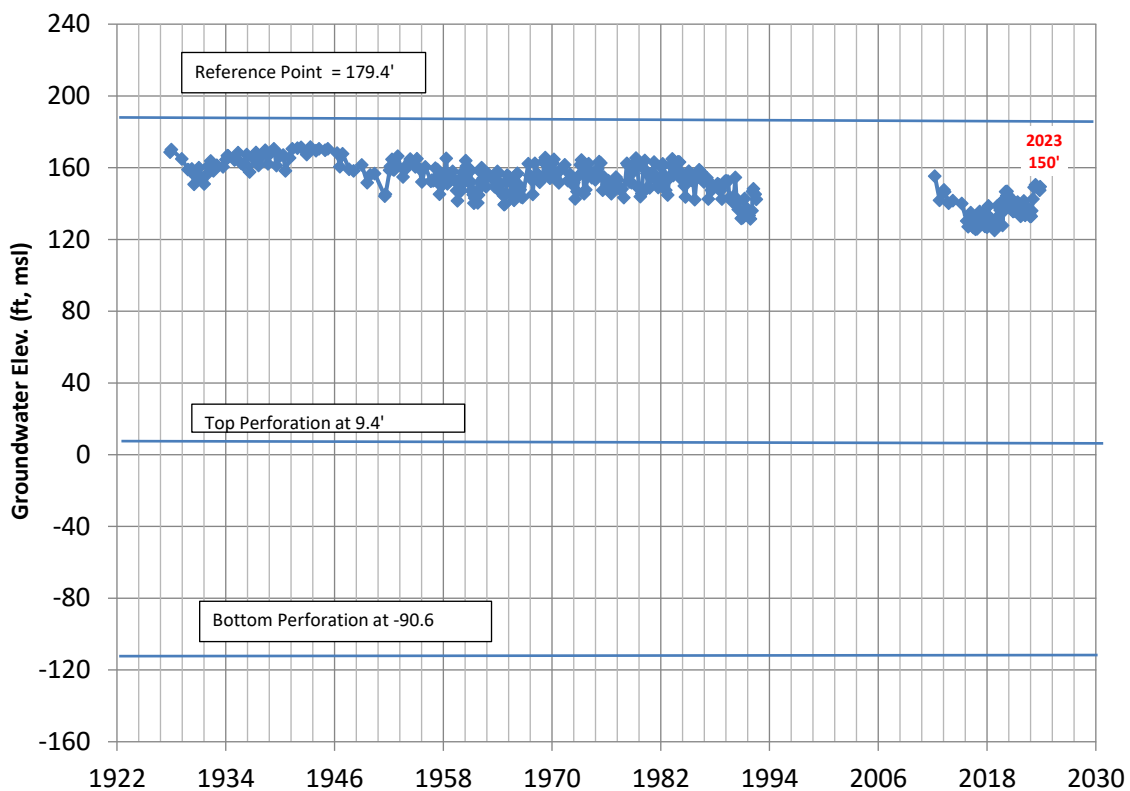
03N22W36H01S (226' - 442' bgs)



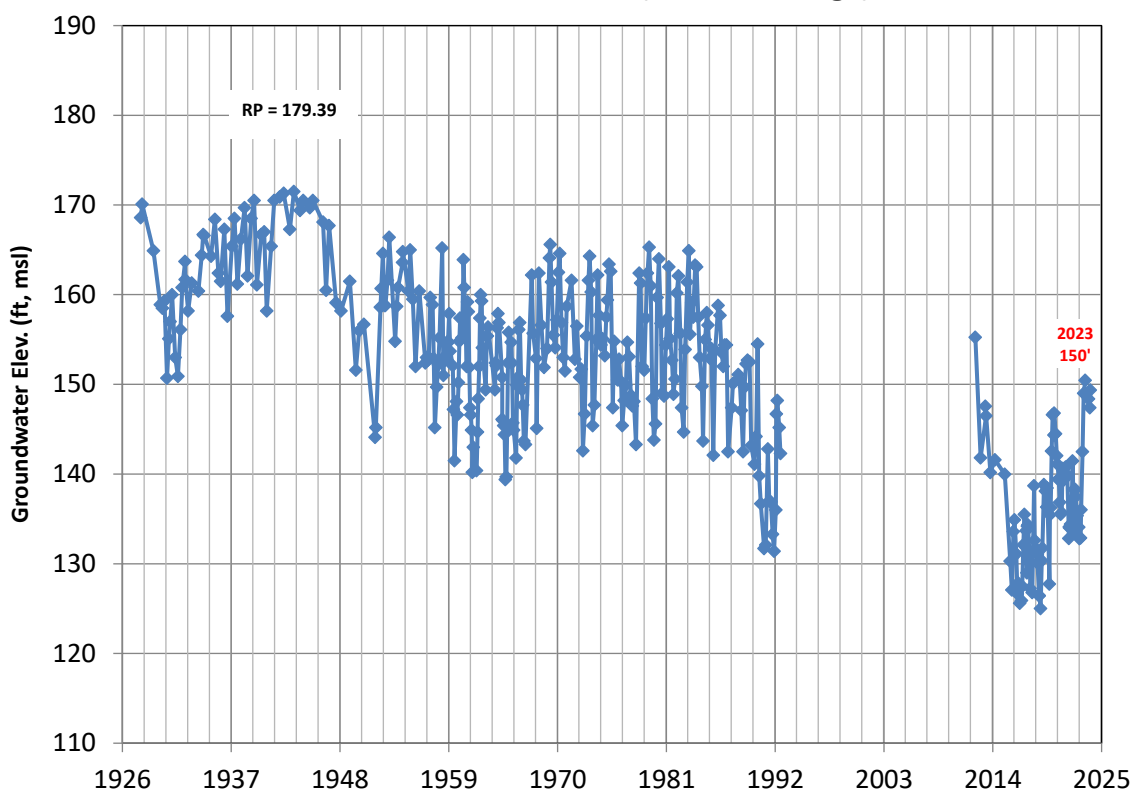
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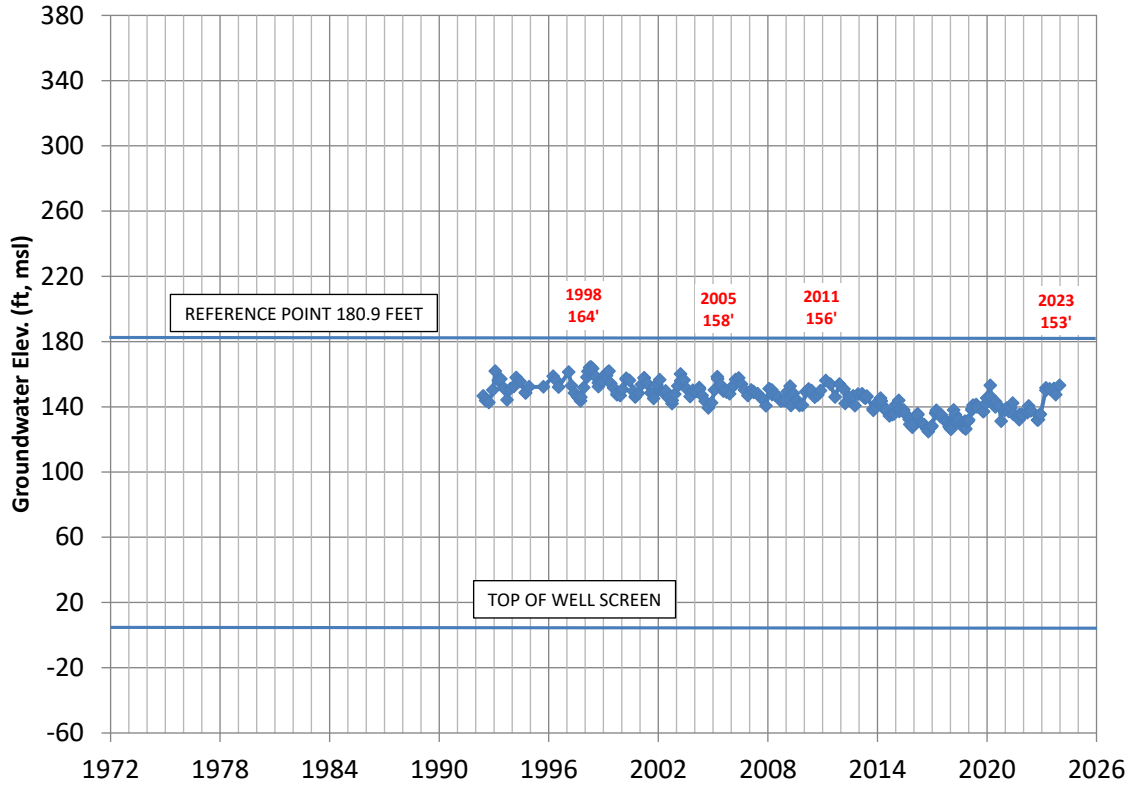
03N22W36K02S (170' - 270' bgs)



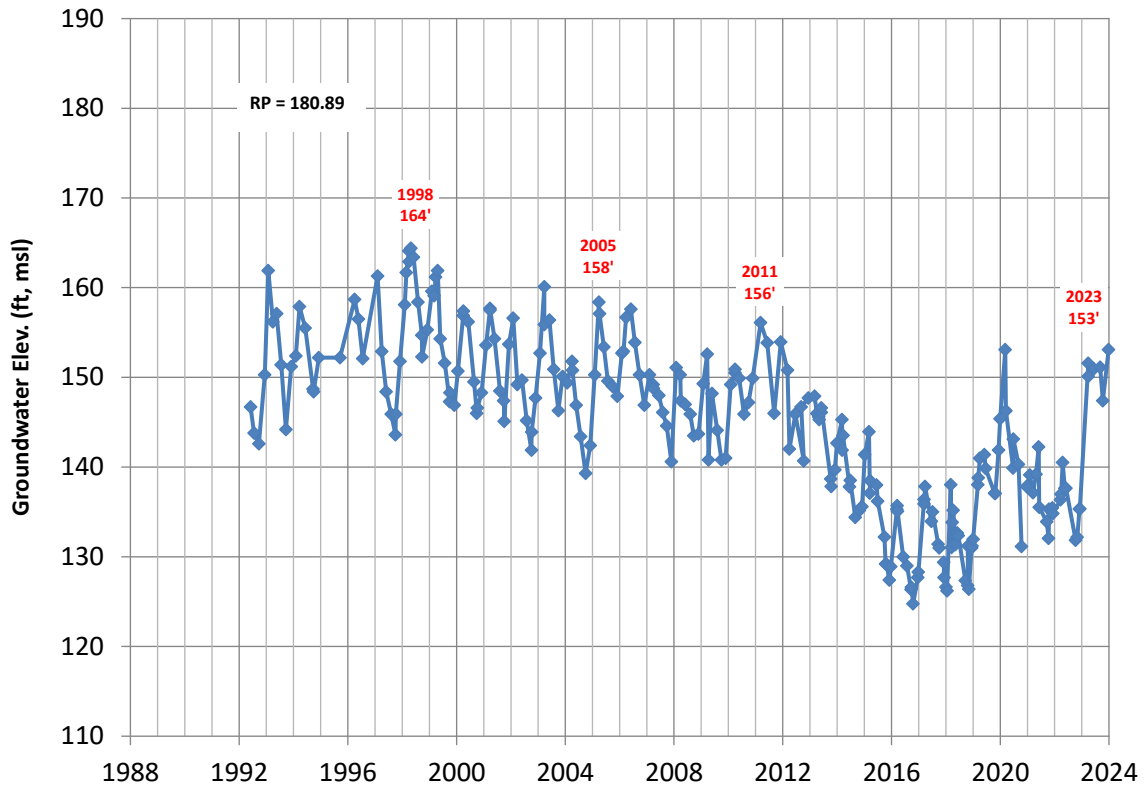
03N22W36K02S (170' - 270' bgs)



03N22W36K05S (175' - 265' bgs)



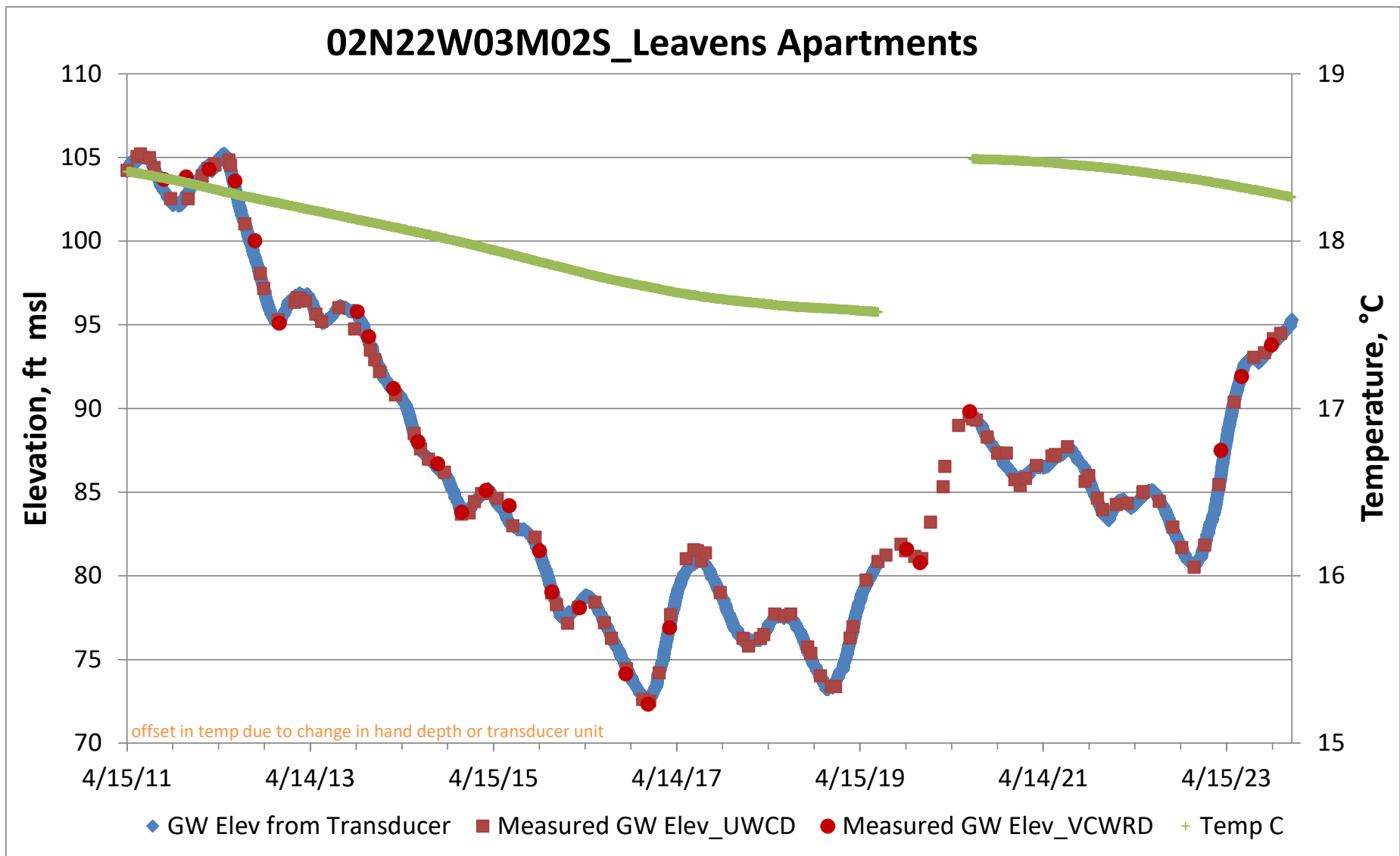
03N22W36K05S (175' - 265' bgs)



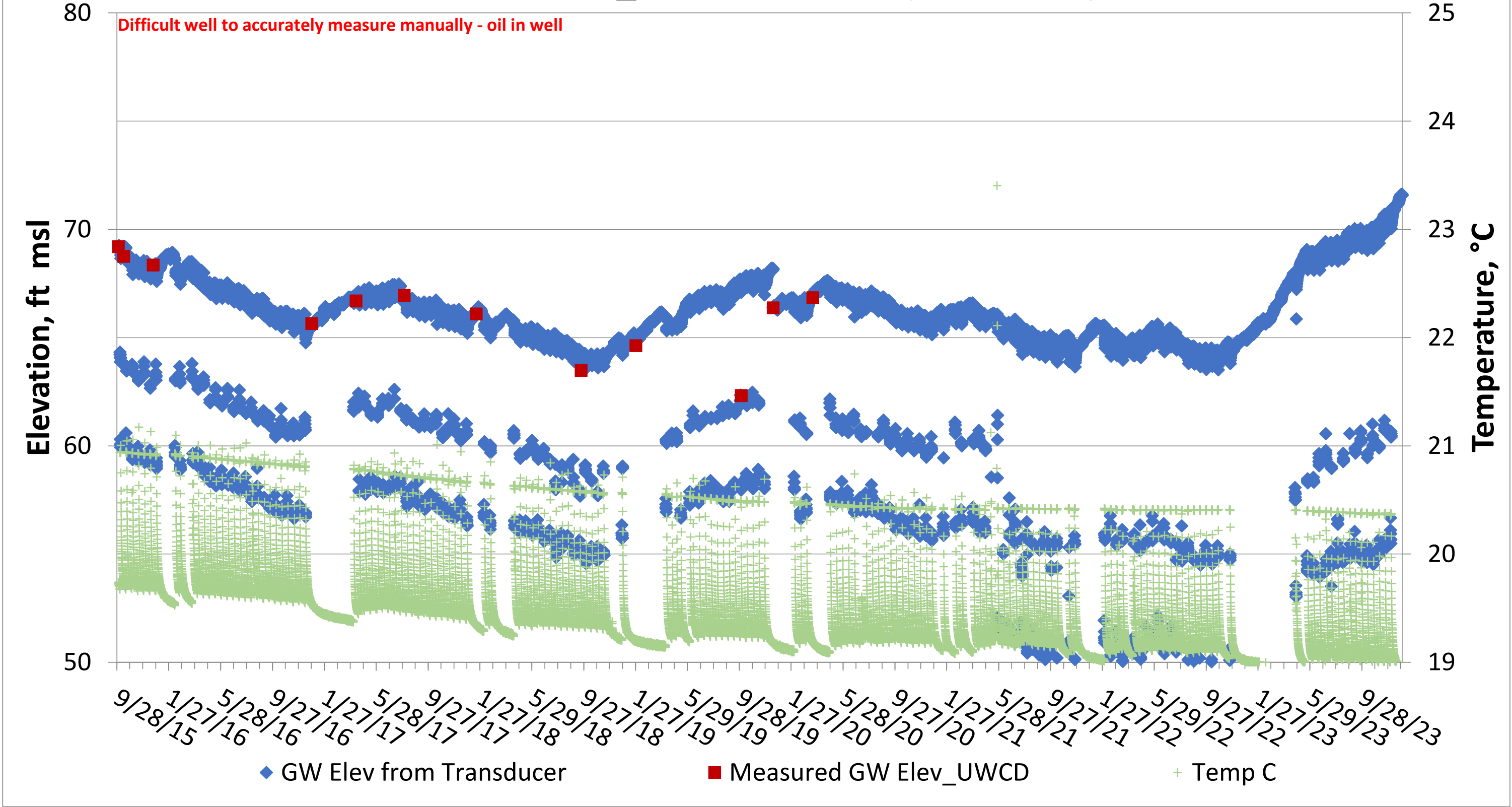
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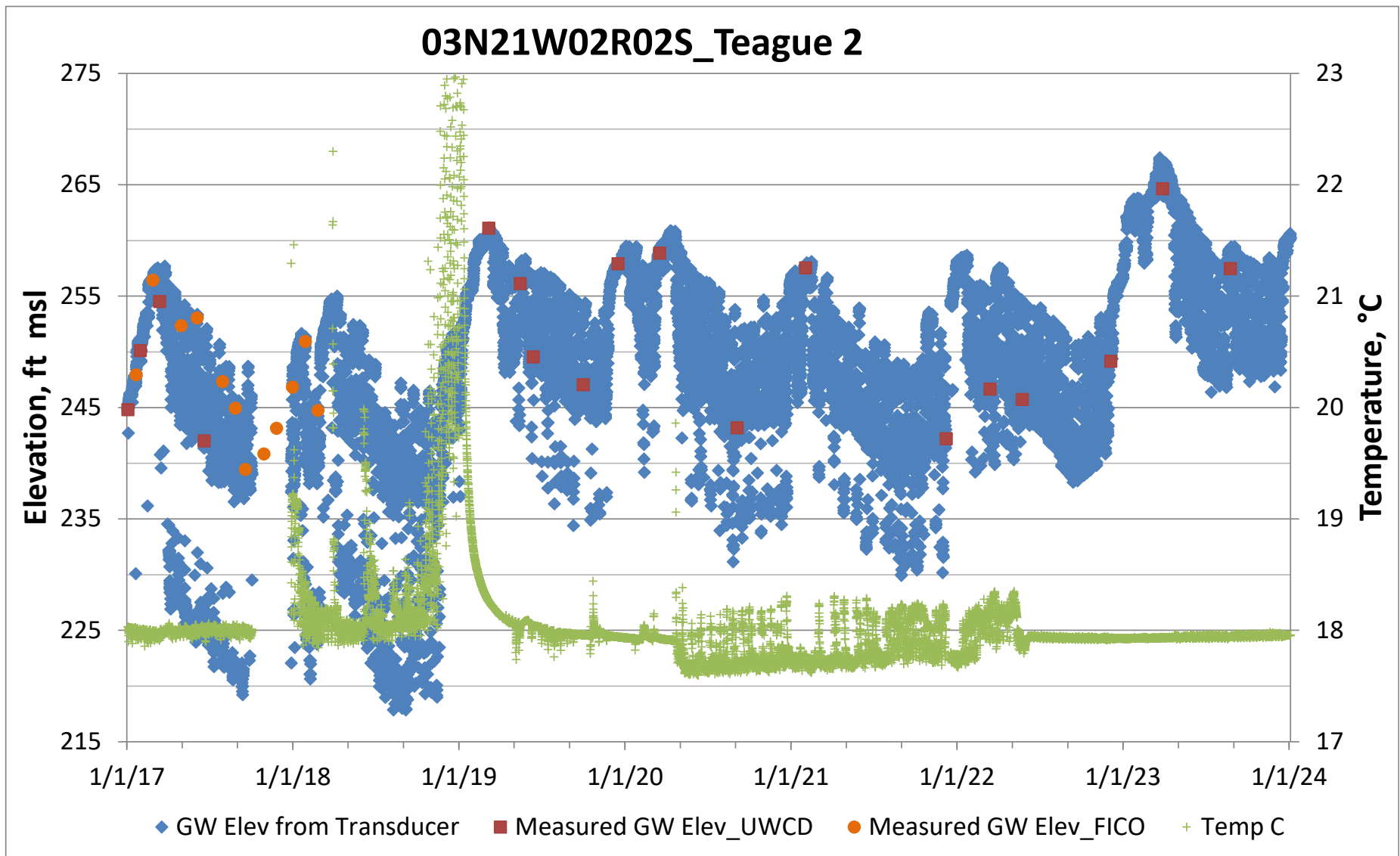
Transducer Records

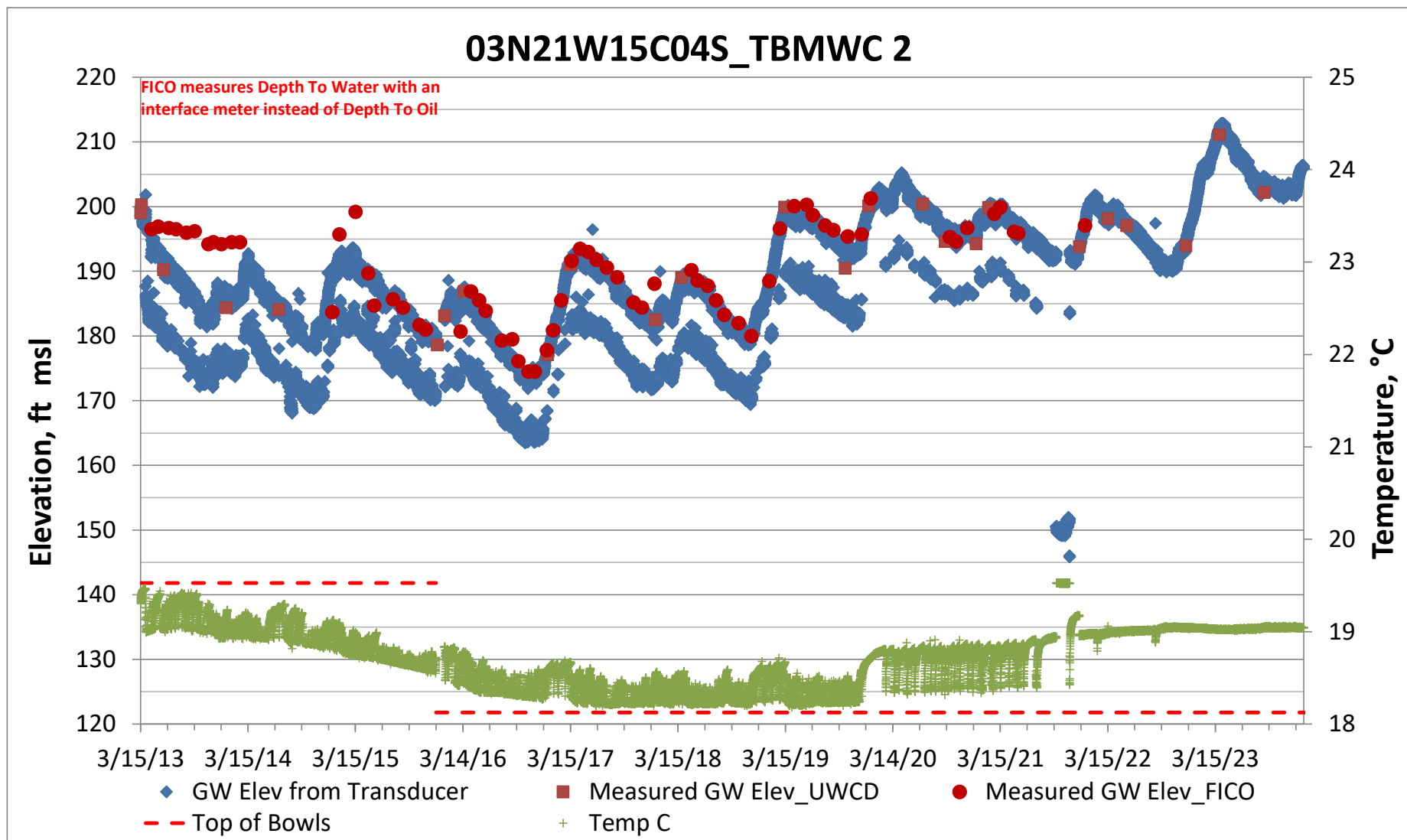
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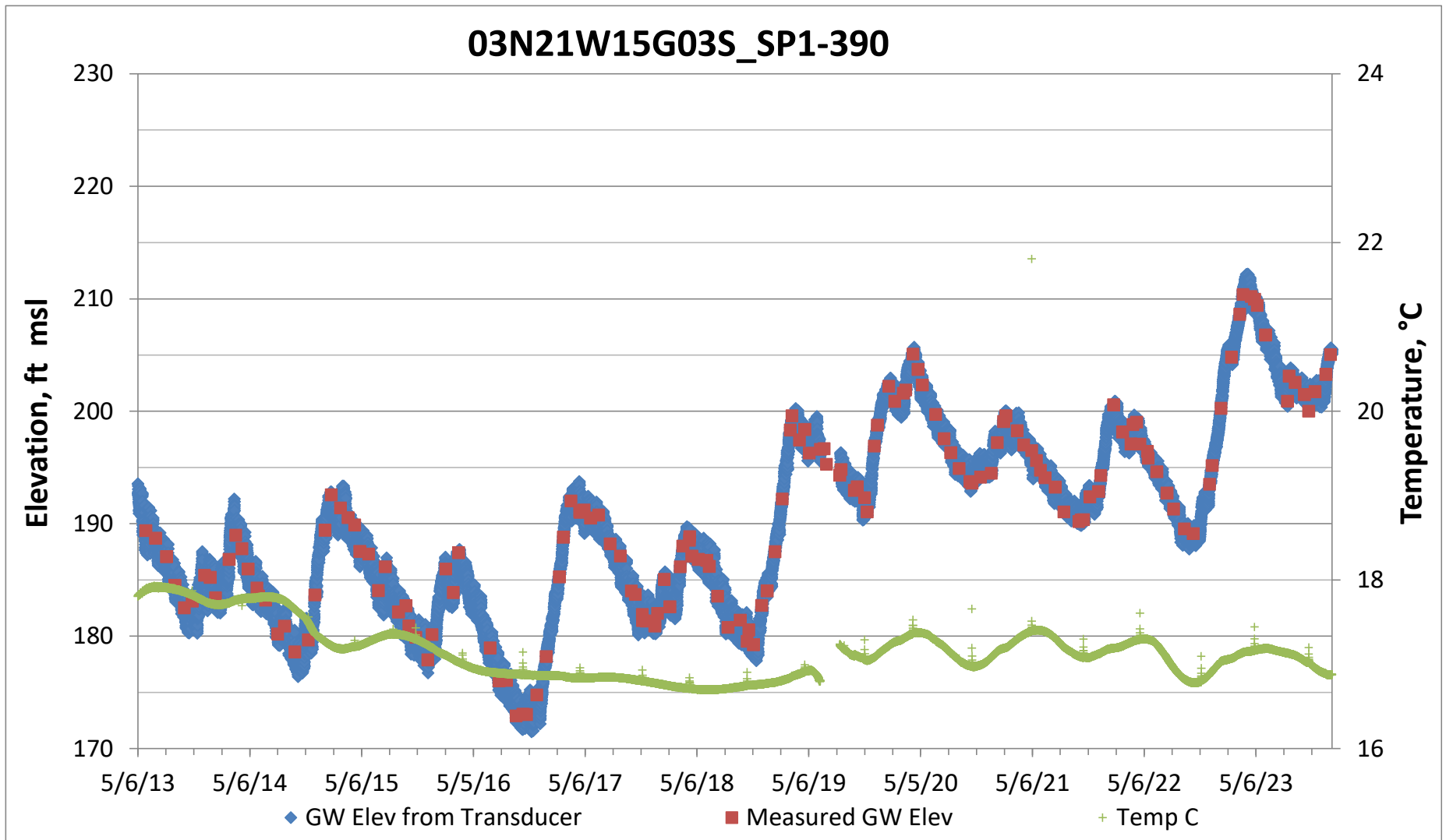


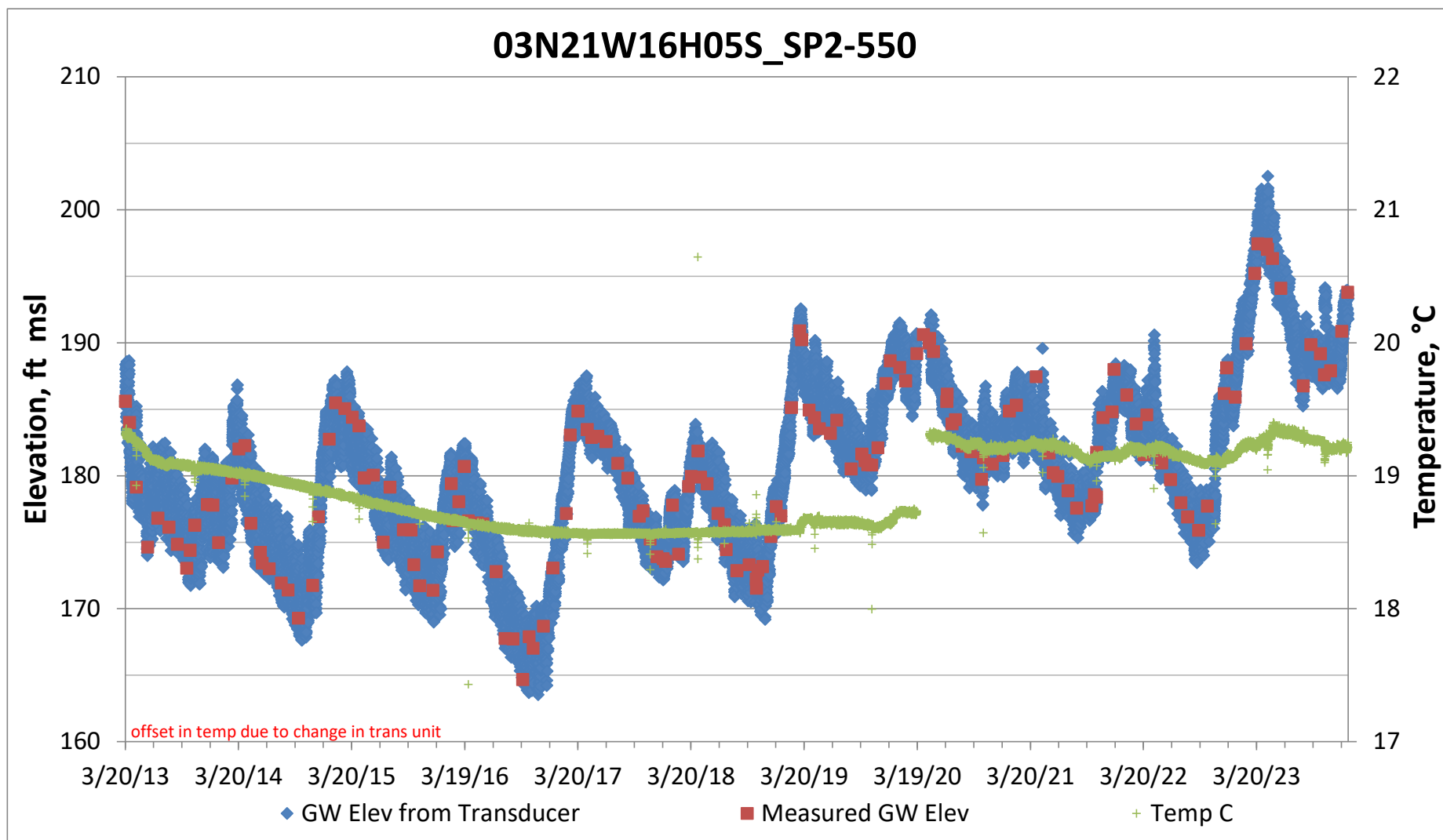
02N22W03Q01S_John McConica (Blackburn)

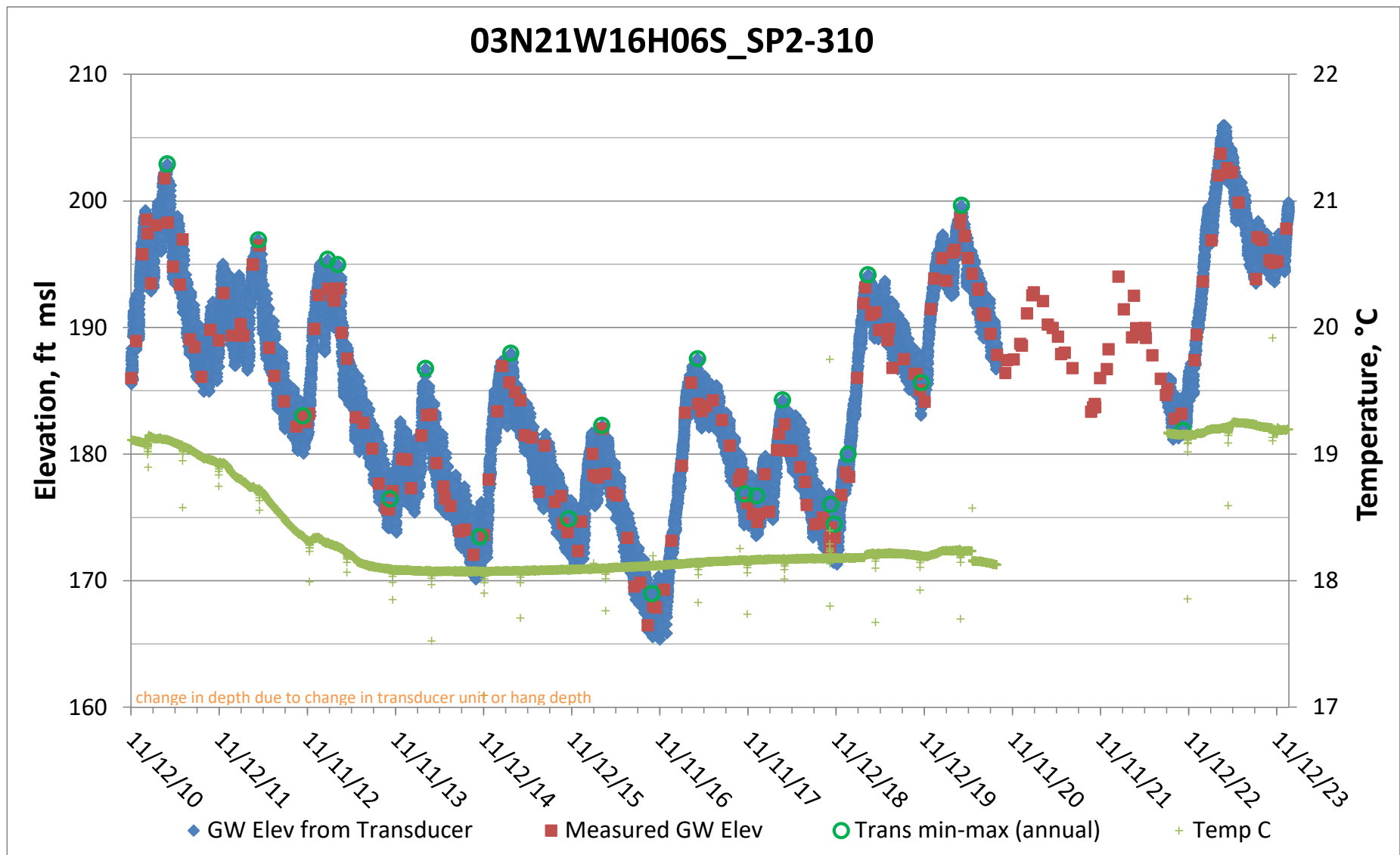


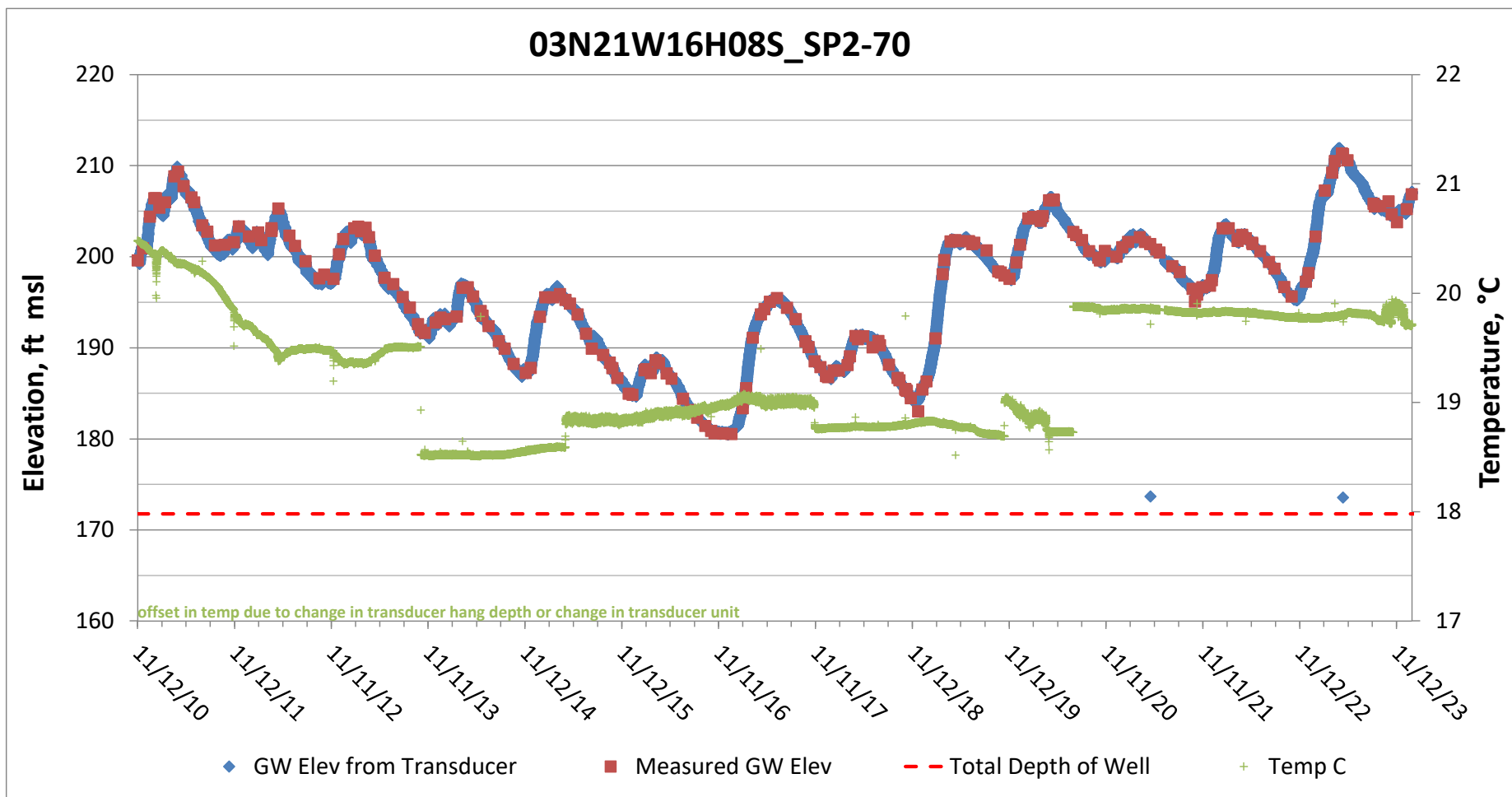


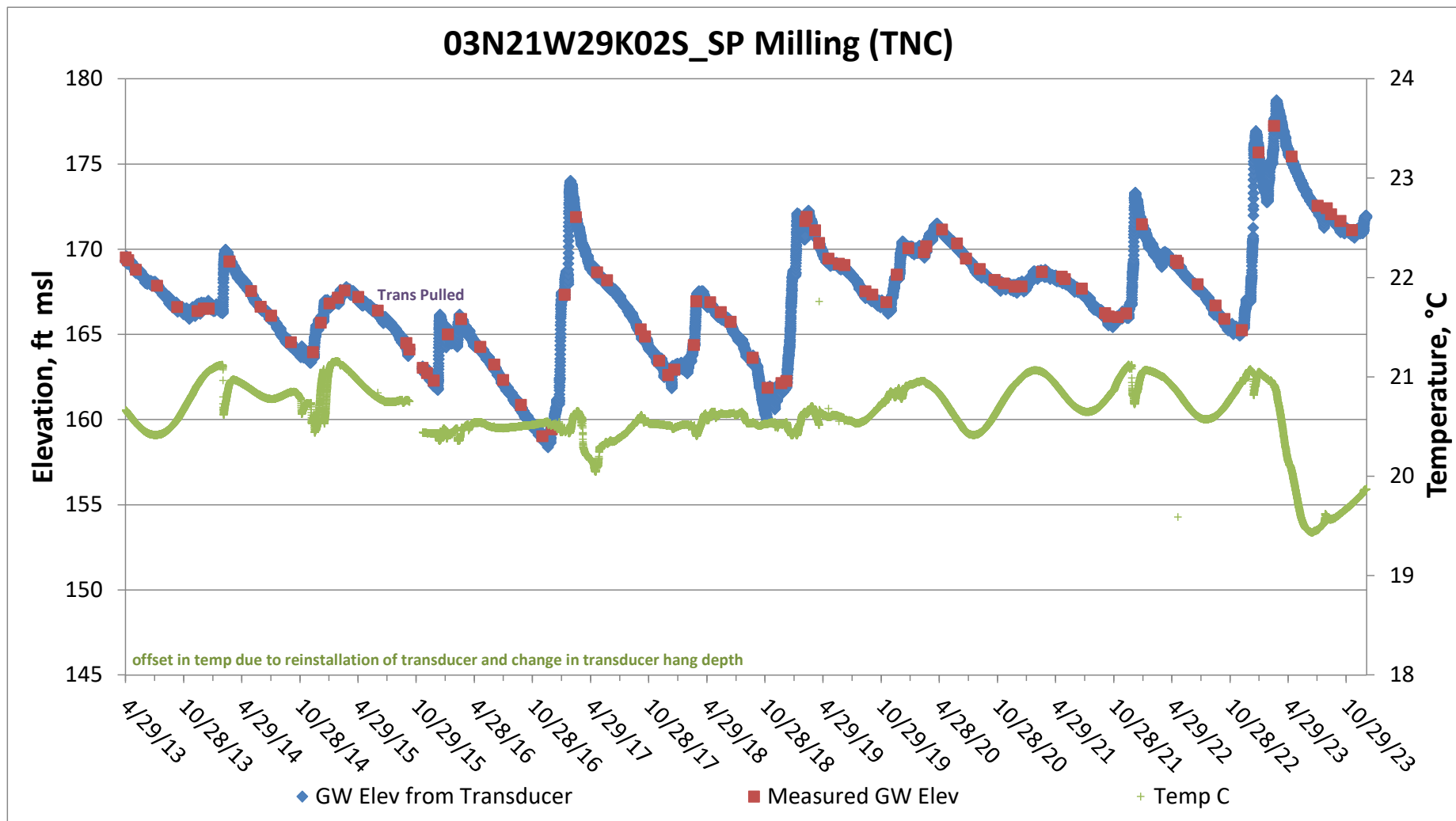


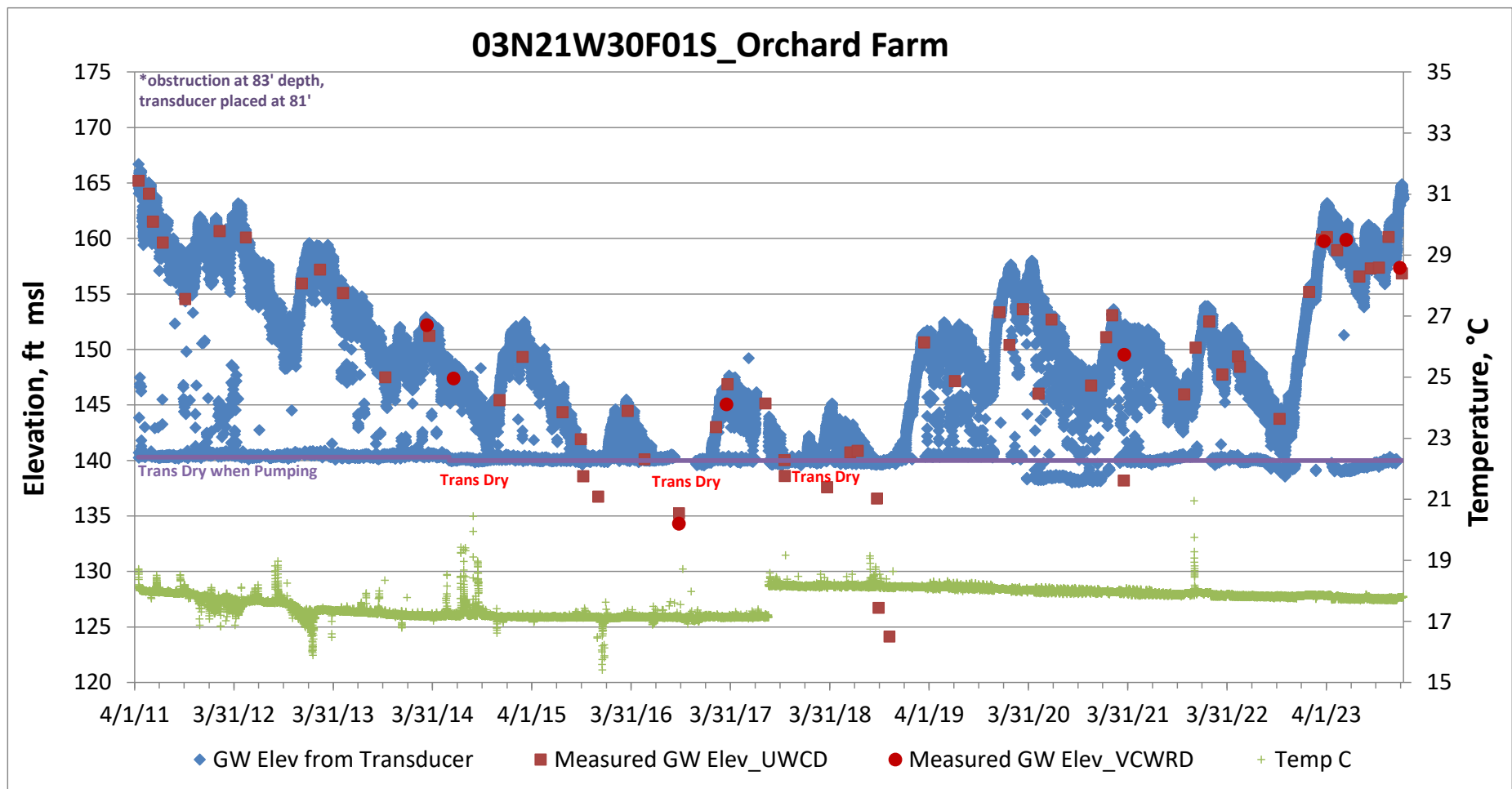


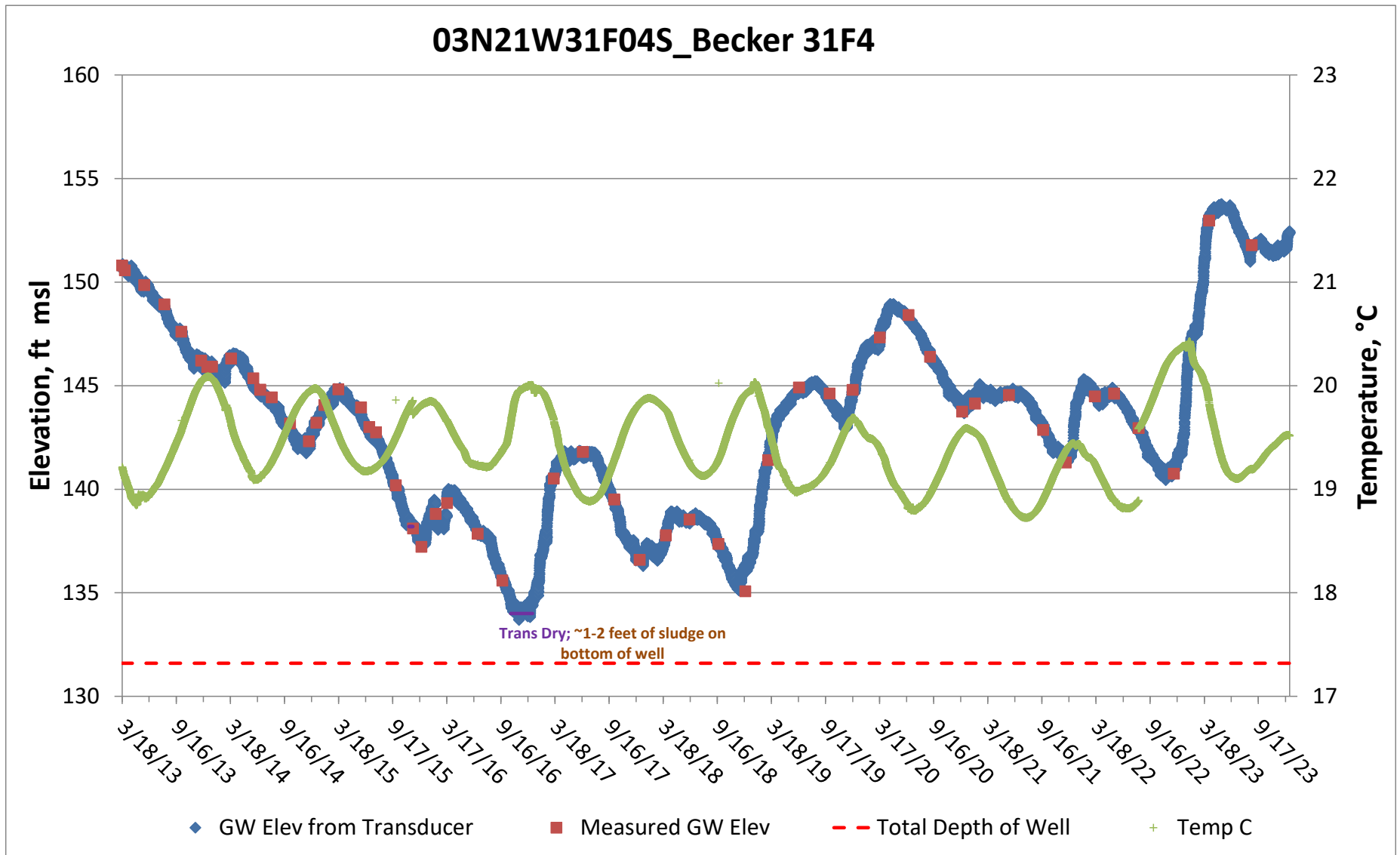


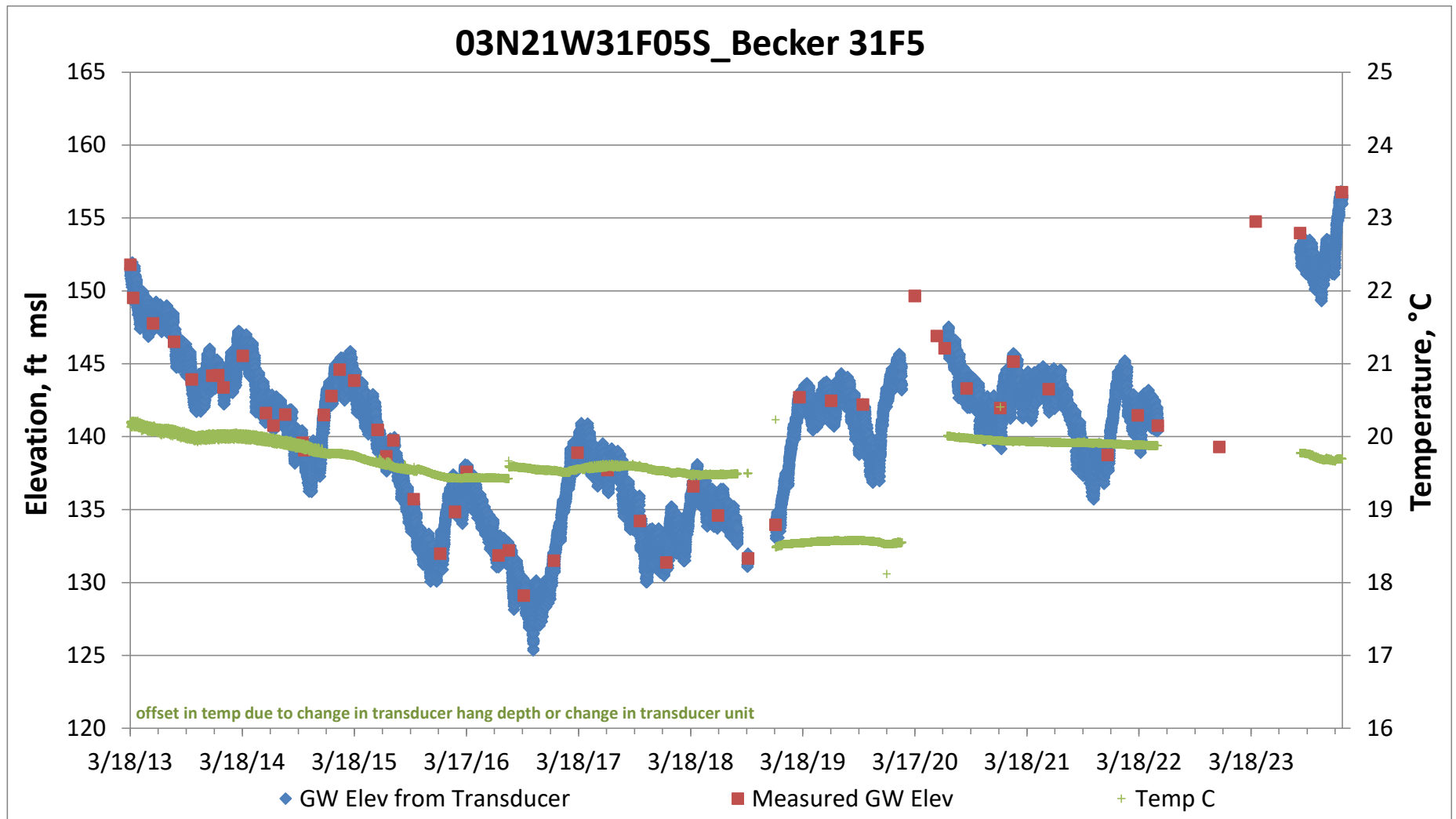


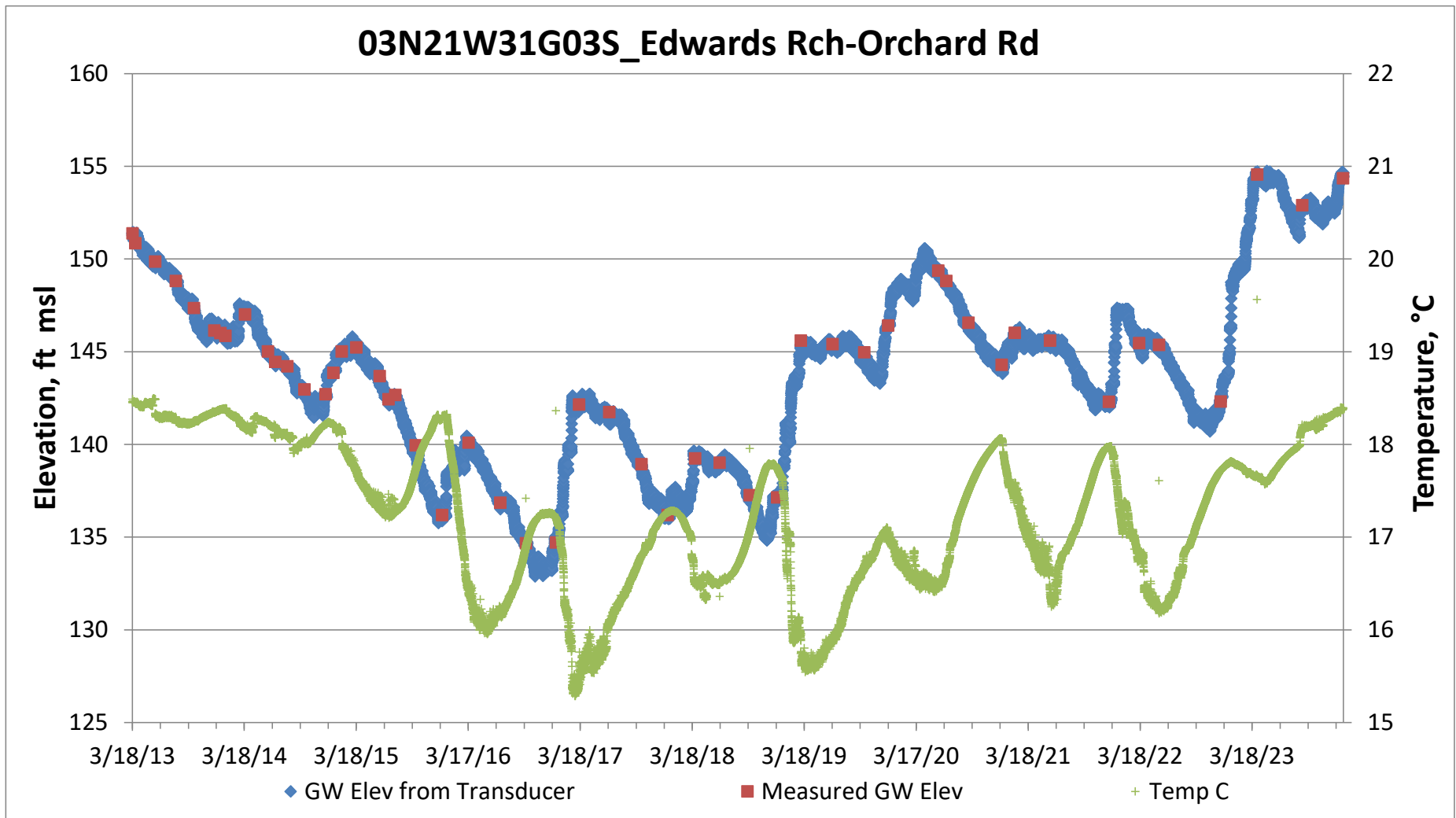


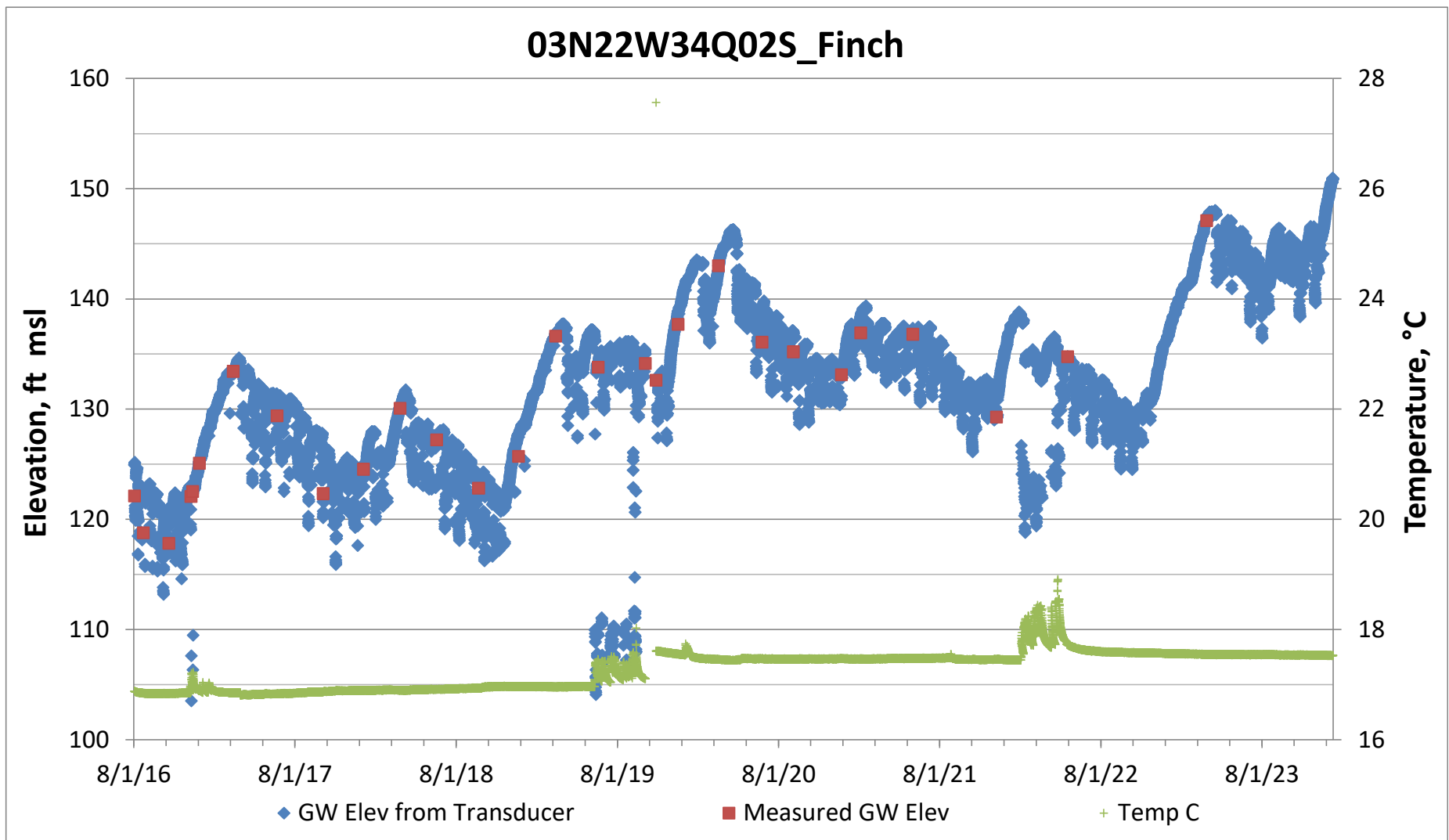












APPENDIX C - Spring 2022 to Spring 2023 Groundwater Elevation Change Measured in Wells

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WELLID	Spring 2022 Groundwater Elevation (ft, msl)	Spring 2023 Groundwater Elevation (ft, msl)	Difference
03N21W02R02S	257.57	264.65	7.08
03N21W01P02S	255.90	271.40	15.50
03N21W09K02S	191.38	206.58	15.20
03N21W15C06S	196.29	211.29	15.00
03N21W15C04S	200.47	211.12	10.65
03N21W16A02S	191.54	202.04	10.50
03N21W16K01S	188.31	201.16	12.85
03N21W16K03S	190.59	203.04	12.45
03N21W17Q01S	181.75	196.40	14.65
03N21W19G04S	169.46	180.04	10.58
03N21W19M01S	160.74	170.61	9.87
03N22W23Q01S	226.50	232.43	5.93
03N21W30E01S	145.97	165.61	19.64
03N21W30F01S	151.95	160.12	8.17
03N21W29K02S	170.02	177.24	7.22
03N21W31F05S	143.20	154.77	11.57
03N21W31G03S	146.15	154.56	8.41
03N22W36H01S	137.29	140.95	3.66
03N21W31L01S	137.41	150.54	13.13
03N22W36K05S	140.50	151.56	11.06
03N22W35Q02S	140.49	148.66	8.17
03N22W34Q02S	136.58	147.11	10.53
02N22W03M02S	84.59	87.50	2.91
02N22W02K09S	138.35	151.75	13.40
02N22W03K02S	115.47	123.85	8.38
02N22W12A02S	50.72	121.74	71.02
02N22W12G03S	37.32	114.92	77.60
02N22W12E04S	24.61	87.74	63.13
02N22W09K04S	10.08	12.62	2.54
02N22W11J01S	15.61	82.86	67.25
02N22W11Q01S	12.03	73.71	61.68
03N21W15G01S	199.08	210.59	11.51
03N21W15G02S	198.89	210.30	11.41
03N21W15G03S	199.66	210.38	10.72
03N21W15G04S	198.97	210.27	11.30
03N21W15G05S	218.70	221.47	2.77
03N21W12E08S	258.27	267.93	9.66
03N21W16H05S	190.60	197.43	6.83
03N21W16H06S	192.51	203.74	11.23
03N21W12F03S	260.95	270.67	9.72
03N21W16H07S	193.73	204.90	11.17
03N21W16H08S	202.56	211.34	8.78

03N21W11J02S	230.37	245.37	15.00
03N21W09R05S	194.00	208.00	14.00
03N21W16A03S	189.85	202.35	12.50
02N22W02R05S	31.52	93.52	62.00
02N22W12B08S	43.73	114.56	70.83
03N21W12B04S	274.14	277.89	3.75
02N22W09L03S	50.11	52.70	2.59
02N22W09L04S	101.54	105.66	4.12
02N22W01P02S	37.30	100.04	62.74
02N22W01R02S	64.74	124.94	60.20
02N22W02H02S	133.00	144.00	11.00
02N22W02K10S	121.13	133.50	12.37
02N22W11MW1	33.06	105.66	72.60
02N22W11MW2	34.90	98.20	63.30
02N22W11MW3	31.46	97.16	65.70
03N21W12B02S	268.61	273.23	4.62
02N22W02R06S	35.08	97.08	62.00

APPENDIX D - Individual Party Allocations and Groundwater Extractions (from SPBPA)

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Table "D-1"
IPA's 2017 - 2023 Production & Averages

3/5/2025

2017 (2)	2018 (2)	2019 (2)	2020 (2)	2021 (2)	2022 (2)	2023 (2)	7 Year Average	Avg Over + Under (-)	Acre Feet	Party Name	Well Number
0.7	0.5	0.4	1.2	0.5	0.3	0.6	0.6	(1.2)	1.8	Aliso Vista Ranch	03N/22W-23Q01
709.1	745.7	292.0	536.7	804.3	509.2	637.0	604.9	(158.24)	763.1	Alta Mutual Water Company, Inc.	02N/22W-02K10
5.1	1.3	1.4	2.0	2.4	2.4	1.9	2.3	(0.56)	2.9	Arambula, Pedro	03N/21W-21E02
221.9	246.8	76.4	278.5	271.3	241.5	218.6	222.1	(70.42)	292.6	Bender Realty LTD (29)	3N/21W16P02, 3N/21W16P03, 3N21W17R01 (4)
											03N/21W-17R01
71.3	71.7	26.2	80.1	88.5	80.7	49.2	66.8	(34.0)	100.8	Billiwhack Ranch LLC	03N/22W-23F02
2.5	1.1	2.1	1.8	1.8	1.4	1.8	1.8	(4.22)	6.0	Bratcher Family Revocable Tr 1-24-02 & Cutright Revocable Tr 8-18-03 (22)	03N/21W-16P01
242.8	383.5	400.8	439.2	427.7	413.3	263.4	367.2	90.7	276.5	Brucker Family Trust (29)	3N/21W-19Q01, 3N/21W-29E01, 3N/21W-29C03
											03N/21W-29E01, 3N/21W-29C03
174.8	140.0	54.2	150.8	163.4	130.4	25.8	119.9	(162.4)	282.3	Campbell, Dan	03N/21W-19R01
0.3	3.5	0.1	0.3	0.4	0.2	0.1	0.7	(0.4)	1.1	Canine Adoption and Rescue League	03N/21W-29B02
772.5	819.5	53.5	227.7	911.3	476.4	5.0	466.5	(206.5)	673.0	Canyon Irrigation Company	03N/21W-11F03, 3N/21W-11E03, 3N/21W-11F04
43.2	42.3	28.2	45.8	40.6	52.1	36.1	41.2	(58.1)	99.3	Casa De Oro Ranch	03N/21W-20F01
71.1	60.4	59.9	87.3	117.8	140.3	57.9	85.0	(16.4)	101.4	Castaneda, Albert and Mary	03N/21W-19L01 (1), 3N21W19K01
											03N/21W-19L01
4,260.1	4,232.5	4,082.8	4,444.9	4,489.9	4,233.9	3,841.1	4,226.5	(1,488.8)	5,715.3	City of Santa Paula (37) (38)	03N/21W-21B03
											3N/21W-02R02
											3N/21W9R05, 03N/21W11J02, 03N/21W15C06, 03N/21W16A02, 3N/21W16A03
40.6	33.5	36.2	41.4	43.2	45.2	6.5	35.2	(58.4)	93.6	Clow, The Roger D. Clow Trust, Dated September 15, 1994	3N/21W20J04 (17)
											03N/21W-20A02, 03N21W21L02

Table "D-1"
IPA's 2017 - 2023 Production & Averages

3/5/2025

2017 (2)	2018 (2)	2019 (2)	2020 (2)	2021 (2)	2022 (2)	2023 (2)	7 Year Average	Avg Over + Under (-)	Acre Feet	Party Name	Well Number
82.0	150.3	262.2	204.4	76.9	120.5	84.7	140.1	(18.6)	158.7	Cole, Lecil E. Trustee of the Lecil E. and May Jeanette Cole Revocable Trust	3N/21W-16E02
10.4	7.3	14.8	7.9	3.1	3.1	8.7	7.9	(1.7)	9.6	The Judson T. Cook & Suzette H. Cook Revocable Trust dated December 5, 2007 (28)	3N/22W-26B01
238.6	204.3	194.3	163.2	58.5	81.3	100.0	148.6	(23.6)	172.2	County of Ventura, General Services Agency (26)	03N/21W-30H08, 3N/21W-30H02
81.0	95.3	77.9	74.0	101.7	84.5	86.7	85.9	(92.4)	178.3	County of Ventura, General Services Agency	02N/22W-02G01
75.0	97.5	59.8	281.7	118.3	126.2	73.8	118.9	(30.3)	149.2	Dickenson, Bruce E and Janice J Trustees of the B&J Dickenson Revocable Trust August 26, 2015	03N21W-10M01
5,459.6	6,002.2	4,242.9	5,494.9	6,251.1	6,268.2	3,923.3	5,377.5	(4,526.7)	9,904.2	Farmers Irrigation Company, Inc.	03N/21W09R04, 03N/21W12E04, 03N/21W12E08, 03N/21W12F03, 03N/21W16K01, 03N/21W16K02, 03N/21W16K03, 3N/21W19G04, 3N/21W12F06, 03N21W15C04, 3N21W15C02
14.7	11.4	10.7	12.7	12.5	10.8	14.7	12.5	12.5	0.0	Fiano, Michael J. Trust (21)	3N/22W26B02 & 3
167.9	184.9	113.9	155.3	131.6	133.3	133.4	145.8	(67.7)	213.4	Finch Family Trust (formerly Finch, J.J. & H.H.)	3N/22W34Q02, 3N22W34Q03
9.5	7.8	4.1	7.4	6.6	7.5	8.7	7.4	(2.2)	9.6	Garcia, Elias & Guadalupe (15)	3N/22W26B1
11.2	18.0	12.2	11.1	16.3	11.1	12.8	13.2	(29.6)	42.8	Tegland Family Farm LLC (40)	03N/21W16E01
136.6	112.4	101.3	123.7	143.8	130.7	104.7	121.9	20.1	101.8	Gooding Ranch (John F. Gooding)	03N/21W09K02, 03N/21W09K05
44.2	33.2	27.0	33.9	38.4	21.2	15.8	30.5	(22.4)	52.9	Grant Family Ranches, LLC (20) (30)	3N21W20E01
72.7	56.0	44.5	119.4	53.7	51.8	46.5	63.5	(34.1)	97.6	Grether, Elizabeth Broome, Ann B. Priske, John S. Broome Jr. as Trustee of the John S. Broome Jr. Trust	03N/22W-35Q02
10.0	9.7	10.4	10.3	10.5	10.4	10.4	10.2	(2.8)	13.0	Guzman, Yeisi Brayen, Trustee of the Brayen And Mesa Guzman Revocable Family Trust, dated July 24, 2015	03N/21W-19G03

Table "D-1"
IPA's 2017 - 2023 Production & Averages

3/5/2025

2017 (2)	2018 (2)	2019 (2)	2020 (2)	2021 (2)	2022 (2)	2023 (2)	7 Year Average	Avg Over + Under (-)	Acre Feet	Party Name	Well Number
119.7	102.3	46.7	87.1	78.5	88.3	63.0	83.7	(45.5)	129.2	Hadley-Williams Partnership	02N/22W-03E01 (9),
2.4	1.6	3.6	0.1	0.2	0.3	0.0	1.2	1.1	0.1	Hebert Family Trust	03N/22W026P01
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(25.0)	25.0	Held, Family Trust dtd 1-16-03	03N/22W-23F02 - not using part of ranch
							0.0	(45.1)	45.1	JAKRAN VI LLC	02N/22W-01M03, 02N/22W-01M04
83.80	62.93	78.56	89.1	82.4	49.6	37.4	69.1	(55.9)	125.0	JKJ Farms, LLC (29)	3N/21W-16P01 3N/21W-16P02&3
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(2.0)	2.0	JVP Citrus, Inc.	
171.3	120.0	178.1	138.5	167.8	170.1	77.3	146.2	(49.1)	195.3	Leavens Ranches	03N/22W24R01 (13), 03N/22W24R02, 2N22W03F02
1,611.6	1,517.1	982.2	1,372.2	1,307.3	1,508.2	1,168.3	1,352.4	(2,011.5)	3,363.8	Limoneira Company (36, 37)	03N/21W01N02, 03N/21W02Q01, 03N/21W19G02, 03N/21W30F01, 03N/21W30H04, 03N/21W31E03, 3N/21W31L02
											03N/21W11A01
											See Limoneira
30.0	30.0	30.0	63.0	62.3	15.9	0.0	33.0	3.0	30.0	Limoneira Lewis Community Builders, LLC	3N/21W02R02, 03N/21W11B02
1.6	1.6	1.8	2.1	1.3	1.5	1.8	1.7	(8.3)	10.0	Little Clara Ranch LLC (30)	3N22W34E01
242.8	362.2	254.8	358.7	238.6	346.3	199.1	286.1	30.9	255.2	Loza Investments LLC	03N/21W10M01, 02N/22W03K02, 2N/22W03K03, 02N/22W03K05
20.6	23.1	18.8	20.4	19.7	17.8	16.9	19.6	(16.7)	36.3	Malzacher, Fred H. & Elaine C., Trustees of the Fred H. Malzacher and Elaine C. Malzacher Revocable Trust dated January 16, 1992 U/D/T dated November 25, 2009, as amended	03N/21W21G03
32.7	41.8	19.5	45.0	51.7	57.0	42.8	41.5	7.2	34.3	Martinez, Esther	3N21W29G02
22.8	22.6	23.5	23.0	30.2	34.4	29.0	26.5	1.8	24.7	McConica, John II	02N22W03Q01

Table "D-1"
IPA's 2017 - 2023 Production & Averages

3/5/2025

2017 (2)	2018 (2)	2019 (2)	2020 (2)	2021 (2)	2022 (2)	2023 (2)	7 Year Average	Avg Over + Under (-)	Acre Feet	Party Name	Well Number
85.80	66.55	162.47	154.3	134.1	71.6	105.4	111.5	(70.1)	181.6	McGaelic Group	03N/21W17R01 (4), 3N/21W14H01
447.3	430.8	319.9	288.0	251.9	287.8	203.0	318.4	34.8	283.6	McGrath, John & Sons (18)	03N/21W21E05, 3N/21W21E11, 3N/21W-20J04 (17), 3N/21W-20R03
27.3	38.1	14.1	18.0	31.7	29.5	31.4	27.1	(19.6)	46.7	Nichols Associates	03N/22W36H01, 03N/22W36H02
19.3	15.6	23.5	24.1	34.9	28.2	20.0	23.7	(102.7)	126.4	Nutwood Farms	03N/22W-36J01, 36J02 & 36J03
0.1	0.04	0.02	0.0	0.0	0.0	0.0	0.0	(24.6)	24.6	Oba Family Trust dtd 12-22-92	3N/21W17D03(10) - this well is rarely used; splits with Panamerican using a different well, but Panamerican reports all usage
11.8	11.1	11.0	13.2	9.1	7.8	6.4	10.1	(5.0)	15.1	Ohst, Gary	03N/21W10E01, 03N/21W10E02, 03N21W10E03
126.2	111.7	75.8	104.1	102.3	115.0	50.8	98.0	(95.9)	193.9	Rancho Resplandor de Oro, Inc. formerly Orr Ranch Co. (25)	03N/21W-20J03, 3N/21W-20J2
91.0	108.8	86.9	104.9	78.8	91.7	100.4	94.6	56.0	38.6	Ortiz Trust - Joseph & Sons	03N/21W-30E01 3N/21W-30E02, 3N/21W-20H01
343.8	343.9	121.2	314.9	267.0	266.6	216.7	267.7	(142.6)	410.3	Panamerican Seed, aka Ball Horticultural	3N/21W20K01, 3N/21W20M01 03N/21W20P01 & 3N/21W20F04
62.6	57.4	76.1	74.5	57.7	55.7	40.7	60.7	(55.3)	116.0	Petty Ranch LP	03N/22W-36K04, 3N/22W-36K06
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(39.1)	39.1	Pinkerton, Arlene	3N21W17Q01 (5)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(2.0)	2.0	Pinkerton, Jennifer Paulene	
33.8	93.2	57.2	105.9	114.2	123.4	57.0	83.5	21.6	61.9	Pinkerton, Arlene (formerly Pinkerton, Murray)	03N/21W21E01
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(2.0)	2.0	Pinkerton Ranch Trust	
159.0	125.7	72.2	87.8	102.4	77.1	37.1	94.5	(25.1)	119.6	Rancho Filoso, LLC	03N/21W09K03, 3N/21W09K04
								(10.0)	10.0	Rancho Santa Paula, LLC	
1,343.5	1,094.6	966.5	1,144.9	1,139.4	1,320.4	1,021.5	1,147.2	383.7	763.5	GP Saticoy Ranch, LLC (formerly Riverbank Citrus, LLC)	3N/22W36K07 & 3N/22W36Q01, 3N22W36K05, 03N22W36L01S, 03N22W36K02S
198.3	265.7	123.7	214.9	244.2	237.3	226.4	215.8	(148.0)	363.8	Santana, Jaime, L. Trustee of the Survivor's Trust Under the Jaime L. Santana Family Trust dated May 30, 1984 as amended	3N/22W24R01 (13) 03N/21W17Q01 (5) 03N/21W17Q01 (5) 3N21W17R01 (4) listed under McGaelic 3N21W9J01 (24) 2N22W03E01 listed under City Ventura Juanamaria

Table "D-1"
IPA's 2017 - 2023 Production & Averages

3/5/2025

2017 (2)	2018 (2)	2019 (2)	2020 (2)	2021 (2)	2022 (2)	2023 (2)	7 Year Average	Avg Over + Under (-)	Acre Feet	Party Name	Well Number
7.9	7.7	3.4	8.0	7.2	7.7	7.9	7.1	(14.8)	21.9	Santa Paula Hay & Grain and Ranches	03N/21W19A02
63.1	73.8	98.4	71.3	61.2	89.5	68.1	75.0	(59.0)	134.0	Saticoy Foods Corp.	03N/21W30H05 (7), 3N/21W30H06, 3N/21W30H09
167.5	206.0	118.9	158.8	78.2	77.9	72.6	125.7	(41.6)	167.3	Sharp, J. M. Company	03N/21W19M01, 03N/21W19M02
										Shores, John Family Partnership	03N/21W-20J04 (17), 3N/21W-20R02
69.6	98.8	88.1	93.9	87.8	80.1	19.9	76.9	4.7	72.2	Shozi Ventura, LLC	02N/22W03B01, 02N/22W03B02
78.2	71.2	44.9	24.2	21.3	25.7	45.4	44.4	(17.7)	62.1	Strata Holdings LP	03N/21W-17P02
44.9	52.3	34.2	3.0	10.2	64.2	6.8	30.8	(76.7)	107.5	The Nature Conservancy	03N21W29K04S
206.5	165.7	141.6	184.4	141.2	255.8	123.8	174.1	41.6	132.5	TVC Pinkerton Ranch LLC (27)	3N21W-29B4
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(5.8)	5.8	Utility Vault (Newbasis is Parent Co)	3N/21W-29K03 (8)
1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	(7.0)	8.0	Vanoni, David or Mary - Mary Vanoni	02N/22W-02Q01
8.1	2.0	0.0	0.0	0.0	0.0	0.0	1.4	(8.4)	9.8	We 5 Properties (35)	02N/22W-02J03, 02N22W02J04S
1.0	1.0	1.0	1.1	2.0	2.0	10.0	2.6	(25.0)	27.6	Williams, James W. III	03N/22W-23G01
0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	(37.5)	37.5	Wright, Scott	03N/21W11H03
40.4	32.4	27.2	30.2	29.5	28.8	25.4	30.5	(0.5)	31.0	Yoon Family Trust, (Soo Han Yoon)	2N/22W03L01, 02N22W03K04S
23.7	13.8	16.3	8.5	14.3	10.2	7.5	13.5	(7.3)	20.8	Zimmerman, Wade N. III and Patricia B. Zimmerman Trust	3N/21W-21E08 03N/21W-21D02
19,030.4	19,546.7	14,613.1	18,470.5	19,447.6	19,032.1	13,909.5	17,721.4	(9,704.3)	27,425.7	Total Basin IPA Stipulated Parties	
27,466.4	27,466.4	27,466.4	27,466.4	27,466.4	27,466.4	27,466.4	27,466.4		27,466.4	Historical Association IPA With Non-Parties (40.7 AF)	
21,878.1	22,869.4	17,241.8	21,203.9	21,987.5	22,634.8	16,323.8	21,882.6			Total IPA, Ventura, Non-Parties and De Minimus	
21,878.1	22,869.4	17,241.8	21,203.9	21,987.5	22,634.8	16,323.8				United Water Conservation District Totals	
0.0	0.0	(0.0)	0.0	0.0	(0.0)	0.0				Over/Under Amounts (1) (3) (19)	

Footnotes:

Archived notes: 1, 3, 6, 11, 12, 14, 16, 18, 19, 20, 31, 32, 33

(2) Source of production data for 2012-2023: United Water Conservation District, reviewed by the Association.

(4) Shared well among Bender Realty LTD, Santana, Jamie L. and McGaelic Group. Production is split in accordance with each parties metered use.

(5) Shared well need to determine how to allocate production between Santana and Pinkerton, Arlene.

Table "D-1"

IPA's 2017 - 2023 Production & Averages

3/5/2025

2017 (2)	2018 (2)	2019 (2)	2020 (2)	2021 (2)	2022 (2)	2023 (2)	7 Year Average	Avg Over + Under (-)	Acre Feet	Party Name	Well Number
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(7) Saticoy Foods Well number 3N/21W-30H3 should be changed to 3N/21W-30H5.

(8) Newbasis is the reporting party, Utility Vault is parent.

(9) Shared well allocated 356.0 AF/Year of production for 2007 - 2013 between City of San Buenaventura & Hadley Williams Partnership: 64/36% of allocation, production meter to be installed to allocate produced water.

(10) Well number was added Oba.

(13) Shared well (3N/22W-24R01) between Leavens Ranches and Jamie Santana Family Trust. Production is reported separately.

(15) Garcia - Spelling correction

(17) Roger Clow is a 1/3 owner of the Shores well; however, Clow used 100% of the water for 2007 and 2008. Clow's usage totals 30.5 AF for 2007 and 61 AF for 2008 were reallocated from Shores.

(21) Michael Fiano stipulated in 2012, will be leasing all water pumped annually going forward, transfers to date were estimated, any remaining balances will be made current with 2014 recorded production.

(22) Bratcher Cutright IPA From Bender Farms, 6 acre-feet

(23) Bender Reality and Bender Farms are owned by the same person, Bender Farms transferred 4.6 AF to the City of Santa Paula in 2012 and 6.0 AF to Bratcher in 2014, minus numbers reflect remaining allocation for prior years, plus Bratcher reported production for the years reported to United Water Conservation District.

(24) Basso Properties Sold to Jaime Santana Trust 43.4 acre-feet with property

(25) Roger Orr as Trustee of the Orr Family Trust to the Orr Ranch Co. to Bryce R. and Elaine V. Bannatyne Co Trustees of the Bannatyne Trust; August 2019 corporation name change to Rancho Resplendor de Oro, Inc.

(26) County of Ventura over reported 158.62 acre-feet in 2013, (331.2+2.67-158.62=175.2) United Water Conservation District did not recognize that production correction in their records.

(27) Pinkerton, W. J. Estate Ranch 1 & 2, Sold to Pinkerton W. J. Estate Ranch 158.7 AF of IPA and 132.5 AF of IPA to TVC Pinkerton Ranch LLC in 2014, combined production is reflected on TVC Pinkerton

(28) The Judson T. Cook & Suzette H. Cook Revocable Trust dated December 5, 2007 Purchased the Dabney, George and Rebecca Trust Inter Vivos in January 2018

(29) Bender Reality and Bender Farms sold property to JKJ Farms LLC with 225 acre-feet of allocation and JKJ later transferred 100 acre-feet to Brucker Family Trust

(30) Wittenberg-Livingston, Inc. sold 4 acre-feet to Little Clara Ranch and 20.8 acre-feet to Grant Family Ranches

(34) Silva allocation of 108 Acre-Feet was distributed to County of Ventura 47.5, Jakraan 45.1 and Riverpark A LLC 16.2

(35) 2014 Production was reduced to 5.9 AF from 15.01 using SCE Pump Test well was pumping air do to disrepair over recording, also 2015 was reduced to 21.61 from 40.28

(36) 30 AF Transferred from Limoneira to Limoneria Lewis Community Builders LLC, effective February 2020

(37) 94.45 AF Transferred from Limoneira to City of Santa Paula September 2020

(38) 60.71 AF Transferred From Limoneira to City of Santa Paula February 2021

(39) 2017 - 2022 groundwater production numbers were reported incorrectly and updated on 12-18-2023

(40) Patricia L. Gilbert, Trustee of the Gilbert Family Survivor's Trust dated February 19, 1982 sold property to Tegland Family Farm LLC with 42.8af of allocation, effective November 2023

Table "D-2"
De Minimus 2017-2023 Production & Averages
(Production Not to Exceed 5 AFY)

12/13/2024

2017	2018	2019	2020	2021	2022	2023	2017-2023 Average AFY Production	Party Name	Well Number
1.0	1.0	0.6	1.0	1.0	1.0	1.0	0.9	Chapman, Michael (1)	3N/21W21F01S
2.6	2.4	2.4	2.4	2.4	2.4	1.0	2.2	Chavez, Joel and Carmen	3N/21W21E07S
2.6	3.6	3.7	4.3	4.1	3.7	2.7	3.5	Loza, Jesus and Veronica	3N/22W26L01S
8.1	10.0	7.3	4.4	3.7	0.0	0.0	4.8	Rogers, Charles W., Jason C. Rogers, and Aaron W. Rogers	2N/22W-1M02S
4.7	5.0	4.4	5.1	5.0	4.8	4.2	4.8	Santa Paula Airport Association	3N21W14D01S
3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	Sullivan, Russell J.	3N21W21L01S
22.5	25.5	21.9	20.7	19.8	15.3	12.5	19.7	Total De Minimus Producers	

(1) Successor to Kenneth Chapman

Table "D-3"

Non-Party 2017 - 2023 Production & Averages

12/13/2024

2017 (7)	2018 (7)	2019 (7)	2020 (7)	2021 (7)	2022 (7)	2023 (7)	2017-2023 Average AFY Production	Name	Well Number
2.4	3.0	2.3	2.4	2.4	2.6	2.6	2.5	Davis, Linda Trust	3N21W21E04, 3N/21W-21E10 (2)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Catlani Jr., Arnold (5) (2.0 AF)	02N/22W-02N04
1.6	1.6	1.6	1.4	1.3	1.2	1.0	1.4	Minero, Gilbert (5) (1.1 AF)	03N/21W-21M01
11.0	10.7	7.5	7.5	7.5	7.5	7.5	8.5	Sanchez, Martin	3N/21W-21E6
							0.0	Ventura Unified School District (5) (30.8 AF)	02N/22W-03P01
1.9	1.6	1.3	1.5	1.0	1.1	1.6	1.4	Vint, Thomas H. (5) (4.9 AF)	03N/21W-21E03
2.2	2.2	1.9	1.6	2.3	2.0	1.4	1.9	Westerdale Trust (5) 1.0 AF)	03N/21W-21G01
19.1	19.2	14.6	14.4	14.6	14.4	14.1	15.8	Total Average AFY Production (Average 2017-2023)	

Footnotes to Non-Stipulating Pumpers

Achived footnotes: 3, 4, 6

(1) Incorrect well number.

(2) Added well number.

(5) Non-party individuals named in the Original Judgment, 40.7 Acre-Feet 7/28/2011

(7) Source of production data for 2011-2023: United Water Conservation District, reviewed by the Association.

Table "D-4" DRAFT

Temporary Water Transfers

3/5/2025

2017	2018	2019	2020	2021	2022	2023	7 Year Average	Avg Over + Under (-)	AF Annual Allocation	Transferring Parties
1,611.6	1,517.1	982.2	1,372.2	1,307.3	1,508.2	1,168.3	1,352.4	(2,011.5)	3,363.8	Limoneira Company
364.9	660.0									To: Canyon Irrigation Company
	39.4									To: Canyon Irrigation Company for Rancho La Cuesta
			579.6							To: Riverbank Citrus LLC
17.0				23.8	29.4					To: Gooding Ranch
				65.1						To: Limoneira Lewis Community Builders
1,993.5	2,216.4	982.2	1,951.8	1,396.2	1,537.6	1,168.3	1,606.6	(1,757.3)	3,363.8	Limoneira Company Balance
14.7	11.4	10.7	12.7	12.5	10.8	14.7	12.5	12.5	0.0	Fiano, Michael J. Trust
	(30.0)									From: Dan Campbell
14.7	(18.6)	10.7	12.7	12.5	10.8	14.7	8.2	8.2	0.0	Fiano, Michael J. Trust Balance
174.8	140.0	54.2	150.8	163.4	130.4	25.8	119.9	(162.4)	282.3	Campbell, Dan
	30.0									To: Fiano, Michael J. Trust
	90.0									To: Alta Mutual Water Company, Inc.
174.8	260.0	54.2	150.8	163.4	130.4	25.8	137.1	(145.2)	282.3	Campbell, Dan Balance
5,459.6	6,002.2	4,242.9	5,494.9	6,251.1	6,268.2	3,923.3	5,377.5	(4,526.7)	9,904.2	Farmers Irrigation Company
123.4	128.0	588.2	499.7							To: Canyon Irrigation Company
				38.0	197.5					To: Brucker Family Trust
52.4	70.2	48.3	66.3	40.2	53.2	61.6				To: Ortiz Trust - Joseph & Sons
										To: Bender Reality LTD
			76.5	23.2	158.9					To: Loza Investments, LLC
										To: Rancho Filoso, LLC
28.3	39.1	18.2		9.1						To: Schozi Ventura
85.0	132.0	93.0	57.0							To: McGrath, John & Sons
145.8										To: Alta Mutual Water Company
3.7										To: Aramblua, Pedro
295.6	220.4	149.1	279.3	376.6	565.5					To: GP Saticoy Ranch (formerly Riverbank Citrus)
										To: Strata Holdings LP
										To: Grant Family Ranches
		79.4		35.0	124.6					To: TVC Pinkerton Ranch LLC
					8.9					To: McConica, John II
6,193.9	6,591.9	5,219.1	6,473.6	6,773.3	7,367.9	3,984.9	6,086.4	(3,817.8)	9,904.2	Farmers Irrigation Company Balance
772.5	819.5	53.5	227.7	911.3	476.4	5.0	466.5	(206.5)	673.0	Canyon Irrigation Company
123.4	128.0	588.2	499.7							To: City of Santa Paula
(123.4)	(128.0)	(588.2)	(499.7)							From: Farmers Irrigation Company
(364.9)	(699.3)									From: Limoneira Company
407.6	120.2	53.5	227.7	911.3	476.4	5.0	314.5	(358.5)	673.0	Canyon Irrigation Company Balance
4,260.1	4,232.5	4,082.8	4,444.9	4,489.9	4,233.9	3,841.1	4,226.5	(1,488.8)	5,715.3	City of Santa Paula
(123.4)	(128.0)	(588.2)	(499.7)							From: Canyon Irrigation Company
4,136.7	4,104.5	3,494.6	3,945.3	4,489.9	4,233.9	3,841.1	4,035.1	(1,680.2)	5,715.3	City of Santa Paula Balance
136.6	112.4	101.3	123.7	143.8	130.7	104.7	121.9	20.1	101.8	Gooding Ranch (John F. Gooding)
(17.0)				(23.8)	(29.4)					From: Limoneira Company
119.6	112.4	101.3	123.7	120.0	101.3	104.7	111.8	10.0	101.8	Gooding Ranch (John F. Gooding) Balance
85.8	66.6	162.5	154.3	134.1	71.6	105.4	111.5	(70.1)	181.6	McGaelic Group
75.0	51.0			25.0	64.0					To: McGrath, John & Sons
160.8	117.6	162.5	154.3	159.1	135.6	105.4	142.2	(39.4)	181.6	McGaelic Group Balance

Table "D-4" DRAFT

Temporary Water Transfers

3/5/2025

2017	2018	2019	2020	2021	2022	2023	7 Year Average	Avg Over + Under (-)	AF Annual Allocation	Transferring Parties
69.6	98.8	88.1	93.9	87.8	80.1	19.9	76.9	4.7	72.2	Shozi Ventura, LLC
(28.3)	(39.1)	(18.2)		(9.1)						From: Farmers Irrigaton Company
41.3	59.8	69.9	93.9	78.7	80.1	19.9	63.4	(8.8)	72.2	Shozi Ventura, LLC Balance
447.3	430.8	319.9	288.0	251.9	287.8	203.0	318.4	34.8	283.6	McGrath, John & Sons
(75.0)	(51.0)			(25.0)	(64.0)					From: McGaelic Group
(85.0)	(132.0)	(93.0)	(57.0)							From: Farmers Irrigation Company
287.3	247.8	226.9	231.0	226.9	223.8	203.0	235.2	(48.4)	283.6	McGrath, John & Sons Balance
1,343.5	1,094.6	966.5	1,144.9	1,139.4	1,320.4	1,021.5	1,147.2	383.7	763.5	GP Saticoy Ranch Land LLC (formerly Riverbank Citrus LLC)
										From: Limoneira Company
(295.6)	(220.4)	(149.1)	(279.3)	(376.6)	(565.5)					From: Farmers Irrigation Company
(107.1)	(110.9)	(53.8)	(151.2)							From: Nutwood Farms
940.8	763.3	763.5	714.4	762.8	754.9	1,021.5	817.3	53.8	763.5	GP Saticoy Ranch Land LLC Balance
19.3	15.6	23.5	24.1	34.9	28.2	20.0	23.7	(102.7)	126.4	Nutwood Farms
107.1	110.8	53.8	151.2							To: Riverbank Citrus LLC
126.4	126.4	77.4	175.3	34.9	28.2	20.0	84.1	(42.3)	126.4	Nutwood Farms Balance
44.9	52.3	34.2	3.0	10.2	64.2	6.8	30.8	(76.7)	107.5	The Nature Conservancy
25.2										To: Alta Mutual Water Company
	29.4									To: Esther Martinez
70.1	81.7	34.2	3.0	10.2	64.2	6.8	38.6	(68.9)	107.5	The Nature Conservancy Balance
242.8	383.5	400.8	439.2	427.7	413.3	263.4	367.2	90.7	276.5	Brucker Family Trust
			(253.8)	(113.2)	(15.4)					From: JKJ Farms, LLC
				(38.0)	(197.5)					From: Farmers Irrigation Company
242.8	383.5	400.8	185.4	276.5	200.4	263.4	279.0	2.5	276.5	Brucker Family Trust Balance
83.8	62.9	78.6	89.1	82.4	49.6	37.4	69.1	(55.9)	125.0	JKJ Farms, LLC
			253.8	113.2	15.4					To: Brucker Family Trust
83.8	62.9	78.6	342.9	195.6	65.0	37.4	123.7	(1.3)	125.0	JKJ Farms, LLC Balance
91.0	108.8	86.9	104.9	78.8	91.7	100.4	94.6	56.0	38.6	Ortiz Trust - Joseph & Sons
(52.4)	(70.2)	(48.3)	(66.3)	(40.2)	(53.2)	(61.6)				From: Farmers Irrigation Company
38.6	38.5	38.6	38.6	38.6	38.5	38.8	38.6	0.0	38.6	Ortiz Trust - Joseph & Sons Balance
709.1	745.7	292.0	536.7	804.3	509.2	637.0	604.9	(158.2)	763.1	Alta Mutual Water Company
	(90.0)			(53.2)						From: Dan Campbell
										From: The Nature Conservancy
(23.2)										From: Wallace, James III
(145.8)										From: Farmers Irrigation Company
540.1	655.7	292.0	536.7	751.1	509.2	637.0	560.3	(202.8)	763.1	Alta Mutual Water Company Balance
242.8	362.2	254.8	358.7	238.6	346.3	199.1	286.1	30.9	255.2	Loza Investments LLC - Tucker Ranch
			(76.5)	(23.2)	(158.9)					From: Farmers Irrigation Company
2.1										To: Yoon Family Trust
244.8	362.2	254.8	282.2	215.4	187.4	199.1	249.4	(5.8)	255.2	Loza Investments LLC - Tucker Ranch Balance

Table "D-4" DRAFT
Temporary Water Transfers
3/5/2025

2017	2018	2019	2020	2021	2022	2023	7 Year Average	Avg Over + Under (-)	AF Annual Allocation	Transferring Parties
5.1	1.3	1.4	2.0	2.4	2.4	1.9	2.3	(0.6)	2.9	Arambula, Pedro
(3.7)										From: Farmers Irrigation Company
1.4	1.3	1.4	2.0	2.4	2.4	1.9	1.8	(1.1)	2.9	Arambula, Pedro Balance
1.0	1.0	1.0	1.1	2.0	2.0	10.0	2.6	(25.0)	27.6	Williams, James W. III
23.2										To: Alta Mutual Water Company
24.2	1.0	1.0	1.1	2.0	2.0	10.0	5.9	(21.7)	27.6	Williams, James W. III Balance
9.5	7.8	4.1	7.4	6.6	7.5	8.7	7.4	(2.2)	9.6	Garcia, Elias & Guadalupe
(2.4)										From: Castaneda, Albert & Mary
				(16.1)						From: Farmers Irrigation Company
7.1	7.8	4.1	7.4	(9.5)	7.5	8.7	4.7	(4.9)	9.6	Garcia, Elias Balance
71.1	60.4	59.9	87.3	117.8	140.3	57.9	85.0	(16.4)	101.4	Castaneda, Albert & Mary
2.4										To: Garcia, Elias & Guadalupe
73.5	60.4	59.9	87.3	117.8	140.3	57.9	85.3	(16.1)	101.4	Castaneda, Albert & Mary Balance
159.0	125.7	72.2	87.8	102.4	77.1	37.1	94.5	(25.1)	119.6	Rancho Filoso, LLC
(65.5)										From: JM Sharp Company
93.5	125.7	72.2	87.8	102.4	77.1	37.1	85.1	(34.5)	119.6	Rancho Filoso, LLC Balance
206.5	165.7	141.6	184.4	141.2	255.8	123.8	174.1	41.6	132.5	TVC Pinkerton Ranch LLC
		(79.4)		(35.0)	(124.6)					From: Farmers Irrigation Company
206.5	165.7	62.1	184.4	106.2	131.2	123.8	140.0	7.5	132.5	TVC Pinkerton Ranch LLC Balance
40.4	32.4	27.2	30.2	29.5	28.8	25.4	30.5	(0.5)	31.0	Yoon Family Trust
(2.1)					(1.0)					From: Tucker Ranch
38.4	32.4	27.2	30.2	29.5	27.8	25.4	30.1	(0.9)	31.0	Yoon Family Trust Balance
33.8	93.2	57.2	105.9	114.2	123.4	57.0	83.5	21.6	61.9	Pinkerton, Arlene (formerly Pinkerton, Murray)
				(14.0)	(81.9)	(55.3)				From: Arlene Pinkerton
33.8	93.2	57.2	105.9	100.2	41.5	1.7	61.9	0.0	61.9	Pinkerton, Arlene Balance
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(39.1)	39.1	Arlene Pinkerton
				14.0	81.9	55.3				To: Pinkerton, Arlene formerly Murray Pinkerton)
0.0	0.0	0.0	0.0	14.0	81.9	55.3	21.6	(17.5)	39.1	Arlene Pinkerton Balance
32.7	41.8	19.5	45.0	51.7	57.0	42.8	41.5	7.2	34.3	Martinez, Esther
	(29.4)									From: The Nature Conservancy
					(25.2)					From: Clow, Roger
32.7	12.4	19.5	45.0	51.7	31.8	42.8	33.7	(0.6)	34.3	Martinez, Esther Balance
30.0	30.0	30.0	63.0	62.3	15.9	-	33.0	3.0	30.0	Limoneira Lewis Community Builders LLC
				(65.1)						From: Limoneira
30.0	30.0	30.0	63.0	(2.8)	15.9	-	23.7	(6.3)	30.0	Limoneira Lewis Balance

Table "D-4" DRAFT

Temporary Water Transfers

3/5/2025

2017	2018	2019	2020	2021	2022	2023	7 Year Average	Avg Over + Under (-)	AF Annual Allocation	Transferring Parties
22.8	22.6	23.5	23.0	30.2	34.4	29.0	26.5	1.8	24.7	McConica, John II
					(8.9)					From: Farmers Irrigation Company
22.8	22.6	23.5	23.0	30.2	25.5	29.0	25.2	0.5	24.7	McConica, John II Balance
2.4	1.6	3.6	0.1	0.2	0.3	0.0	1.2	1.1	0.1	Hebert Family Trust
										From:
2.4	1.6	3.6	0.1	0.2	0.3	0.0	1.2	1.1	0.1	Hebert Family Trust Balance

The amounts reflected in Red above represent amounts that need to be leased to be compliant

(2) Shores Family Partnership permanently transferred 126.7 and that was retroactively applied wiping out the temporary transfer

(3) A flow meter was installed in June 2013 to record production versus crop factor, during the first year 6.8 acre-feet was recorded so that amount was used for 2013 production and the 3.5 acre-feet reduction represents the over reported amount that United did not adjust to actual.

Table "D-5"

Original and Acquired Allocation of the City of San Buenaventura

2/28/2025

2017 (7)	2018 (7)	2019 (7)	2020 (7)	2021 (7)	2022 (7)	2023 (7)	2017-2023 Average AFY Production	Avg Over + Under (-)	Acre Feet	Party Name	Well Number	Predecessor
212.8	182.2	83.1	154.8	139.5	157.0	112.0	148.8	(71.2)	220.0	City of San Buenaventura	02N/22W03E01(1)	Juanamaria Land Company
							0.0	(5.8)	5.8	City of San Buenaventura (3)	3N/21W21B03	McConica, John R. et al. (3)
							0.0	(23.1)	23.1	City of San Buenaventura (10)	3N/22W34R01	WH Ventura 165 LLC (10)
							0.0	(97.0)	97.0	City of San Buenaventura (9)	03N/22W35N01	Fam, J LLC & Parklands Ventura LLC (9)
212.8	182.2	83.1	154.8	139.5	157.0	112.0	148.8	(197.1)	345.9	Total Aquired by City of San Buenaventura		
2,593.3	3,095.9	2,509.2	2,543.5	2,366.1	3,415.9	2,275.8	2,685.7	(314.3)	3,000.0	City of San Buenaventura	02N/22W02K09 (2) 2N/22W02H02 (8)	
2,806.1	3,278.0	2,592.2	2,698.3	2,505.6	3,572.9	2,387.8	2,834.4	(511.5)	3,345.9	Total City of San Buenaventura		

FOOTNOTES:

Archived footnotes: 4, 5, 6

(1) Shared well allocated 356.0 AF/Year of production for 2007 to 2023 between City of San Buenaventura and Hadley Williams Partnership by 64/36% of allocation a production meter should be used.

(2) Well number was added.

(3) McConica allocation transfer.

(7) Source of production data for 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019 and 2020 was the United Water Conservation District, reviewed by the Association.

(8) New well put online in 2015.

(9) Permanent water transfer from J Fam, LLC to City of Ventura in 2015 (12.0 AF) from Parklands Ventura LLC 2021 (85.0 AF)

(10) Permanent water transfer from WH Ventura 165 LLC to City of Ventura, 2016 (23.1 AF)

PROOF OF SERVICE

I am a citizen of the United States and employed in Santa Barbara County, California. I am over the age of eighteen years and not a party to the within-entitled action. My business address is 1021 Anacapa Street, 2nd Floor, Santa Barbara, California 93101. My electronic service address is Meldridge@bhfs.com. On April 1, 2025, I served a copy of the within document(s):

NOTICE OF SUBMISSION OF THE SANTA PAULA BASIN 2023 ANNUAL REPORT

- ☐ by transmitting via facsimile the document(s) listed above to the fax number(s) set forth below on this date before 5:00 p.m.
- ☒ by placing the document(s) listed above in a sealed envelope with postage thereon fully prepaid, the United States mail at Santa Barbara, California addressed as set forth below.
- ☐ by placing the document(s) listed above in a sealed Federal Express envelope and affixing a pre-paid air bill, and causing the envelope to be delivered to a Federal Express agent for delivery.
- ☐ by personally delivering the document(s) listed above to the person(s) at the address(es) set forth below.
- ☒ by transmitting via e-mail or electronic transmission the document(s) listed above to the person(s) at the e-mail address(es) set forth below.

I am readily familiar with the firm's practice of collection and processing correspondence for mailing. Under that practice it would be deposited with the U.S. Postal Service on that same day with postage thereon fully prepaid in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the above is true and correct. Executed on April 1, 2025, at Santa Barbara, California.


Melissa Eldridge

SERVICE LIST

Neal P. Maguire Joshua S. Hopstone FERGUSON CASE ORR PATERSON LLP 1050 S. Kimball Road Ventura, CA 93004 Telephone: (805) 659-6800 Facsimile: (805) 659-6818 Email: nmaguire@fcoplav.com ; jhopstone@fcoplav.com	<u>VIA U.S. MAIL:</u> United Water Conservation District Mauricio E. Guardado, Jr. General Manager 1701 North Lombard St., Suite 200 Oxnard, CA 93030 Telephone: (805) 525-4431 Email: johnl@unitedwater.org
David Dyer Boyer ATKINSON, ANDELSON, LOYA, RUUD & ROMO 12800 Center Court Drive, Suite 300 Cerritos, CA 90703 Telephone: (562) 653-3200 Email: dboyer@aallrr.com	Javan N. Rad, City Attorney CITY OF VENTURA 501 Poli Street LLP P.O. Box 99 Ventura, CA 93002-0099 Telephone: (805) 654-7818 Email: cityattorney@cityofventura.ca.gov
Miles P. Hogan Senior Assistant City Attorney CITY OF VENTURA 501 Poli Street, Room 213 Ventura, CA 93001 Telephone: (805) 654-7818 Email: mhogan@cityofventura.ca.gov	