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**DRAFT**

# **San Antonio Creek Valley Groundwater Basin Groundwater Sustainability Plan Water Year 2024 Annual Report**

February 2025

Prepared for:

**San Antonio Basin  
Groundwater Sustainability Agency**



Prepared by:

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# San Antonio Creek Valley Groundwater Basin Groundwater Sustainability Plan 2024 Annual Report

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## Abbreviations and Acronyms

1Q2024	first quarter of 2024
2Q2024	second quarter of 2024
3Q2024	third quarter of 2024
AF	acre-feet
AFY	acre-feet per year
amsl	above mean sea level
ASCE	American Society of Civil Engineers
Basin Plan	<i>Water Quality Control Plan for the Central Coastal Basin (RWQCB, 2019)</i>
Basin	San Antonio Creek Valley Groundwater Basin
BMP	best management practice
CCWQP	Central Coast Water Quality Preservation, Inc.
cfs	cubic feet per second
CGPS	Continuous Global Positioning System
CMP	Cooperative Monitoring Program
COC	constituent of concern
COGG	California Oil, Gas, and Groundwater
DDW	Division of Drinking Water
DEHP	di(2-ethylhexyl)phthalate
DWR	California Department of Water Resources
EPA	U.S. Environmental Protection Agency
ET	evapotranspiration
FAO	Food and Agriculture Organization
ft	foot or feet
ft/ft	feet per foot
GAMA	Groundwater Ambient Monitoring and Assessment
GAMA-GIS	Groundwater Ambient Monitoring and Assessment Groundwater Information System
GDE	groundwater-dependent ecosystem
GEI	GEI Consultants, Inc.
gpm	gallons per minute
gpm/ft	gallons per minute per foot
GSI	GSI Water Solutions, Inc.
GSP	Groundwater Sustainability Plan
HCM	hydrogeologic conceptual model
HWY	Highway
ILRP	Irrigated Lands Regulatory Program
InSAR	Interferometric Synthetic Aperture Radar
LACSD	Los Alamos Community Services District
MCL	maximum contaminant level

mg/L	milligrams per liter
OSWCR	Online System for Well Completion Reports
RMS	representative monitoring site
RPE	reference point elevation
RWQCB	Central Coast Regional Water Quality Control Board
SABGSA	San Antonio Basin Groundwater Sustainability Agency
SACIM	San Antonio Creek Integrated Model
SBWA	Santa Barbara County Water Authority
SGM	Sustainable Groundwater Management
SGMA	Sustainable Groundwater Management Act
Slough	Barka Slough
SMCL	secondary maximum contaminant level
SWP	State Water Project
SWRCB	State Water Resources Control Board
SYRWD	Santa Ynez River Valley Water District
TDS	total dissolved solids
UNAVCO	University NAVSTAR Consortium
USGS	U.S. Geological Survey
VSFB	Vandenberg Space Force Base
WCR	well completion report
WMAP	Well Metering Assistance Program
WQO	water quality objective

# Executive Summary (§ 356.2[a])

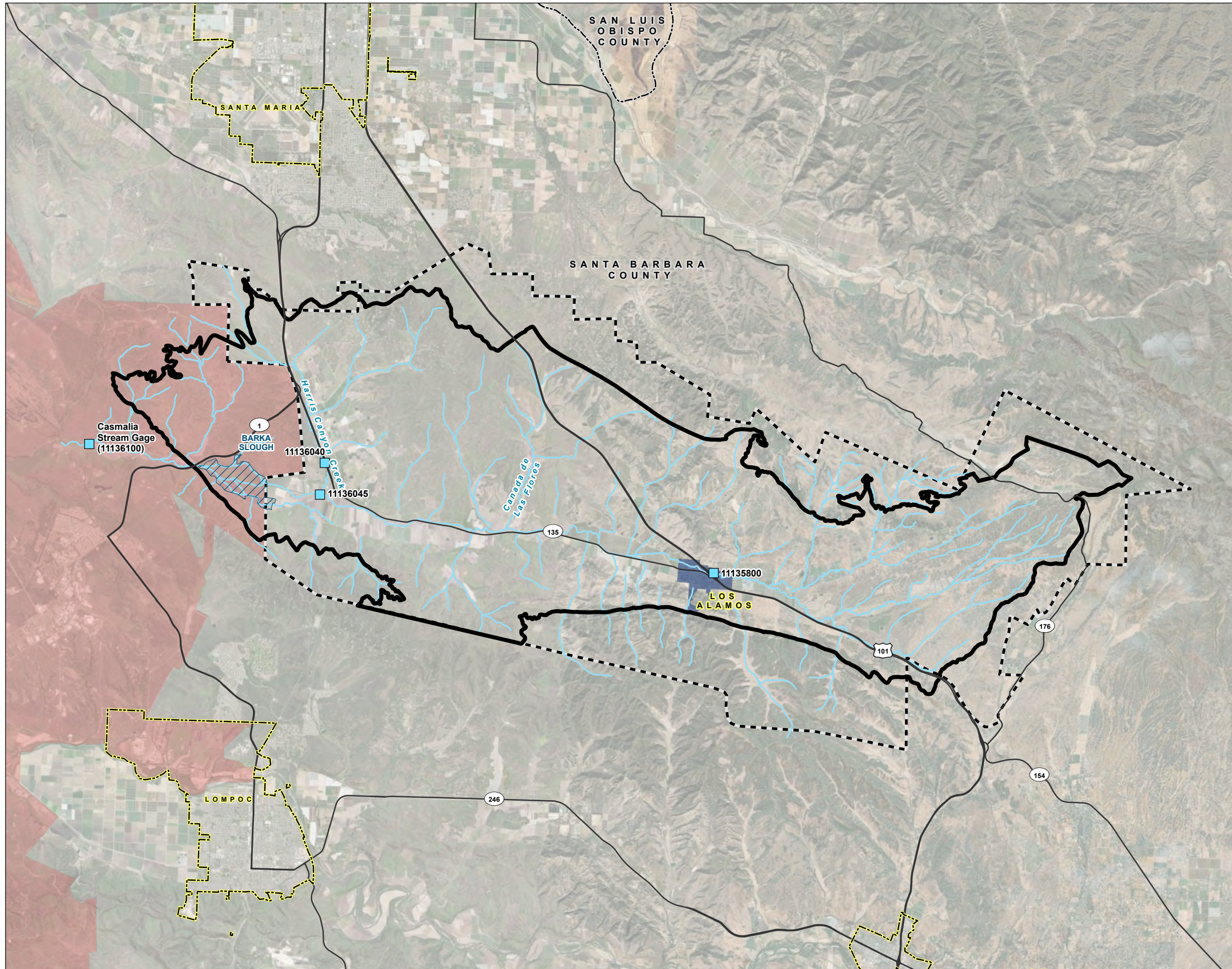
## ES-1 Introduction

This 2024 Annual Report for the San Antonio Creek Valley Groundwater Basin (Basin; see Figure ES-1) has been prepared in accordance with Sustainable Groundwater Management Act (SGMA) regulations. This Annual Report documents conditions in water year 2024. The purpose of reporting on an annual basis is to gauge performance of the Basin relative to the sustainability goals set forth in the GSP.

This Annual Report includes the following sections:

- **Section 1: Introduction.** A brief background of the formation and activities of the San Antonio Basin Groundwater Sustainability Agency (SABGSA) and development and submittal of the GSP and subsequent annual reports (water years 2019 through 2023).
- **Section 2: Basin Setting and Monitoring Networks.** A summary of the basin setting, basin monitoring networks, and ways in which data are used for groundwater management.
- **Section 3: Groundwater Elevations (§ 356.2[b][1]).** A description of recent monitoring data with groundwater elevation contour maps of seasonal high and low groundwater elevations and representative hydrographs.
- **Section 4: Groundwater Extractions (§ 356.2[b][2][b][4]).** Compilation of metered and calculated groundwater extractions by land use sector and approximate locations of extraction.
- **Section 5: Surface Water Use (§ 356.2[b][3]).** No surface water use occurs in the Basin and therefore Section § 356.2[b][3] of DWR GSP Emergency Regulations is not applicable to the Basin.
- **Section 6: Change in Groundwater in Storage (§ 356.2[b][5]).** A description of the methodology and presentation of changes in groundwater in storage based on annual groundwater elevation differences.
- **Section 7: Progress toward Basin Sustainability (§ 356.2[c]).** A summary of management actions taken throughout the Basin by the SABGSA and individual entities toward sustainability of the Basin.
- **Section 8: References.**

**FIGURE ES-1**  
**San Antonio Creek Valley**  
**Groundwater Basin Plan Area**  
 Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



**LEGEND**

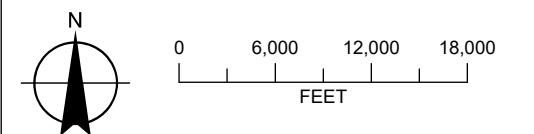
- Stream Gage
- Los Alamos Community Services District
- Vandenberg Space Force Base
- All Other Features**
- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- San Antonio Basin Water District
- County Boundary
- City Boundary
- Major Road
- ~ San Antonio Creek or Tributary



**NOTES**

Casmalia Stream Gage USGS Site Number: 11136100

NAVD 88: North American Vertical Datum of 1988



Date: February 12, 2025  
 Data Sources: USGS, ESRI, DWR,  
 Maxar Imagery (4/10/2024)



## ES-2 Groundwater Elevations

Groundwater elevation trends observed at representative monitoring sites (RMSs) in the Basin during water year 2024 were generally stable with seasonal fluctuations within historical ranges. Groundwater elevations observed in the Paso Robles Formation and Careaga Sand were generally higher during water year 2024 than water year 2023. The higher groundwater elevations are a result of the wet water year types observed during water years 2023 and 2024, and, consequently, a continued reduction in groundwater pumping and above average hydrologic recharge.

## ES-3 Groundwater Extractions

The total groundwater extractions in the Basin for water year 2024 were approximately 14,000 acre-feet (AF). Table ES-1 summarizes the groundwater extractions by water use sector for water years 2018 through 2024.

**Table ES-1. Total Groundwater Extractions by Water Use Sector**

Water Year	LACSD (AF)	VSFB (AF)	Rural Domestic (AF)	Agricultural (AF)	Total (AF)
2018 <sup>1</sup>	280	150	170	21,200	21,800
2019	260	240	170	21,300	22,000
2020	280	280	170	21,900	22,600
2021	290	710	170	21,400	22,600
2022	270	2,600	170	19,200	22,200
2023	260	1,450	180	13,400	15,300
2024	270	420	180	13,100 <sup>2</sup>	14,000
Method of Measure	Metered	Metered	Aerial Photo Survey	Satellite-Based Land Use Survey and ET Calculations	—
Level of Accuracy	High	High	Medium/Low	Medium/High	—

**Notes**

<sup>1</sup> Water year’s historical water budget agricultural pumping volume was revised based on updated data.

<sup>2</sup> The identified “Method of Measure” and “Level of Accuracy” for “Agricultural” total groundwater extractions pertain to water year 2024 only.

Gray shading indicates a water year included in the GSP historical water budget.

— = not applicable

AF = acre-feet

ET = evapotranspiration

LACSD = Los Alamos Community Services District

VSFB = Vandenberg Space Force Base

## ES-4 Surface Water Use

The Basin does not receive imported water from the California State Water Project (SWP), nor does it receive reservoir releases into streams and rivers that enter the Basin from the surrounding watershed. Consequently, surface water use is not applicable to the Basin.

## ES-5 Change in Groundwater in Storage

Annual changes in groundwater elevation in the Paso Robles Formation and Careaga Sand for water year 2024 were derived from comparison of fall groundwater elevation contour maps from water year 2023 to water year 2024. Specifically, the fall 2024 groundwater elevations for the Paso Robles Formation were subtracted from the fall 2023 groundwater elevations for the Paso Robles Formation resulting in a map depicting the changes in groundwater elevations in the Paso Robles Formation that occurred during the 2024 water year (see Figure ES-2). The same process was completed for the Careaga Sand.

Paso Robles Formation groundwater elevation contour maps were generated from a well set located primarily along the axis of the valley, between Los Alamos and the Slough. The Careaga Sand groundwater elevation contours were generated from a well set located within the northern uplands and in the Slough. The SABGSA is working to add additional wells to the Basin groundwater monitoring network through implementation of planned management actions (see Section 6 of GSI and GEI, 2021). Increased data density and spatial coverage will help reduce the degree of uncertainty associated with the generated groundwater elevation contour maps and the calculation of change in groundwater in storage.

The Paso Robles Formation change in groundwater elevation map for water year 2024 (see Figure ES-2), a wet precipitation year, indicates that groundwater levels generally increased by 0 to 10 feet (ft) from Los Alamos to Cañada de Las Flores, and Harris Canyon. Groundwater elevations in the west-southwest side of Los Alamos increased up to 10 to 20 ft. Groundwater elevations west of Cañada de Las Flores and east of Harris Canyon decreased by 0 to 10 ft.

The Careaga Sand change in groundwater elevation map for water year 2024 (see Figure ES-3), a wet precipitation year, indicates that groundwater levels generally increased by 0 to 10 ft northwest of Los Alamos, around the Slough, and Harris Canyon. Groundwater elevations in Cañada de Las Flores, its tributaries, and to east of Harris Canyon decreased 0 to 10 ft.

Table ES-2 presents the annual changes of groundwater in storage calculated for water years 2015 through 2024.

**Table ES-2. Annual Changes in Groundwater in Storage**

Water Year	Paso Robles Formation (AF)	Careaga Sand (AF)	Total Annual Change in Groundwater in Storage <sup>1</sup> (AF)
2015	—	—	-26,400
2016	—	—	-23,600
2017	—	—	-2,900
2018	—	—	-23,700
2019	-15,400	-370	-15,800
2020	-18,800	-410	-19,200
2021	-20,500	-540	-21,000
2022	-14,900	-200	-15,100
2023	19,600	10	19,600
2024	4,500	5	4,500
Cumulative Change in Groundwater in Storage <sup>1</sup>	-45,500	-1,500	-123,600

**Notes**

<sup>1</sup> As a result of rounding, totals do not correspond to the sum of all figures shown.

Gray shading indicates a water year included in the historical water budget. A total annual change in groundwater in storage was calculated for the Basin during development of the Basin GSP per SGMA regulations.

— = not calculated

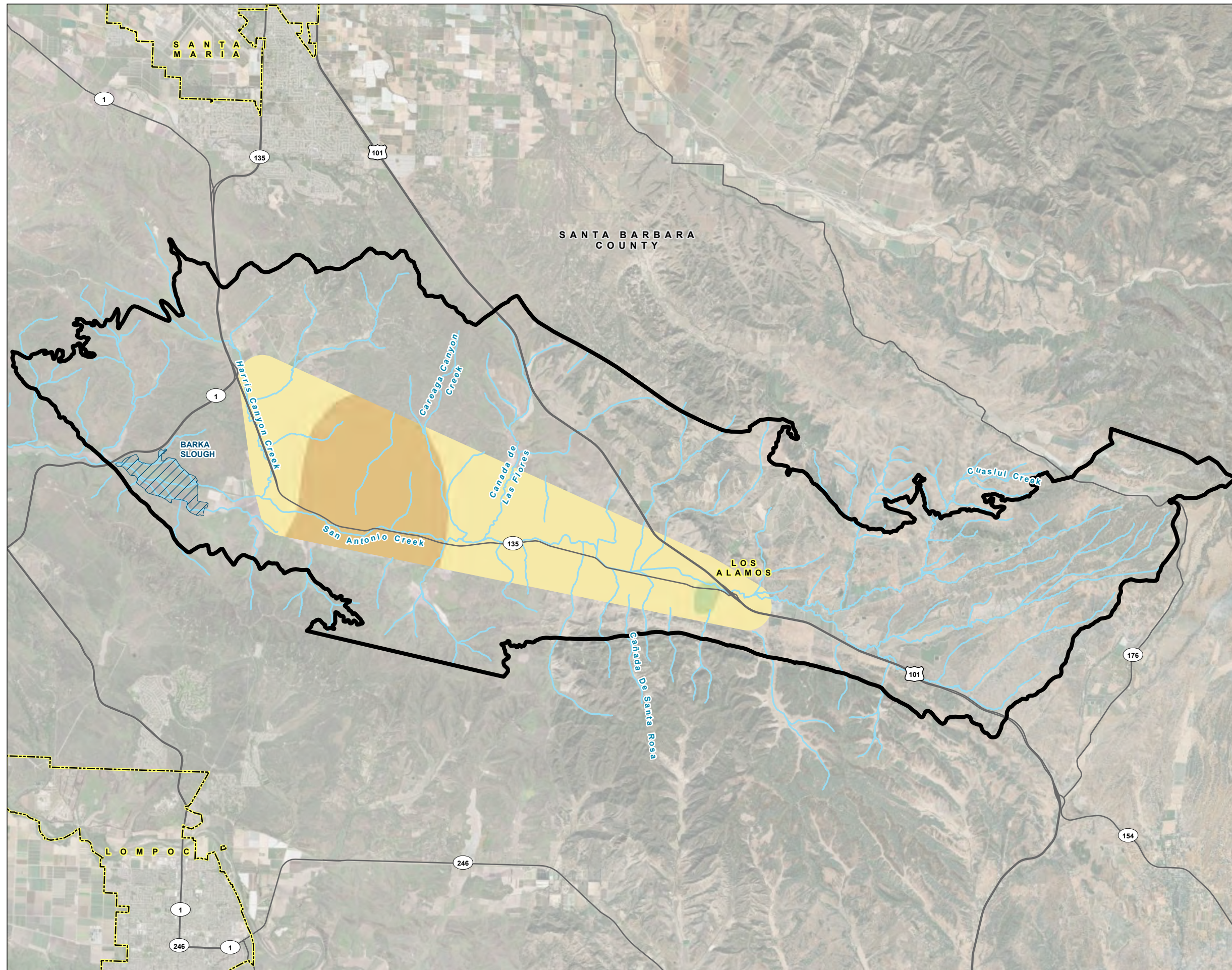
AF = acre-feet

SGMA = Sustainable Groundwater Management Act

## FIGURE ES-2

### Paso Robles Formation Annual Change in Groundwater Elevation Fall 2023 to Fall 2024

Groundwater Sustainability Plan  
2024 Annual Report  
San Antonio Creek Valley  
Groundwater Basin



#### LEGEND

##### Change in Groundwater Elevation (feet NAVD 88)<sup>1</sup>

- 10 to 20
- 0 to 10
- 10 to 0

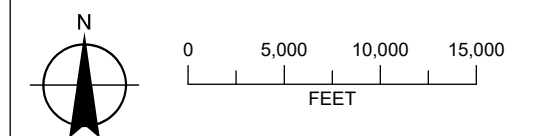
##### All Other Features

- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- San Antonio Creek or Tributary

#### NOTES

1. The change in groundwater elevation extents are bound by the lateral limits of the subject aquifer (see Figure 2) and available groundwater elevation data.
2. San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

NAVD 88: North American Vertical Datum of 1988



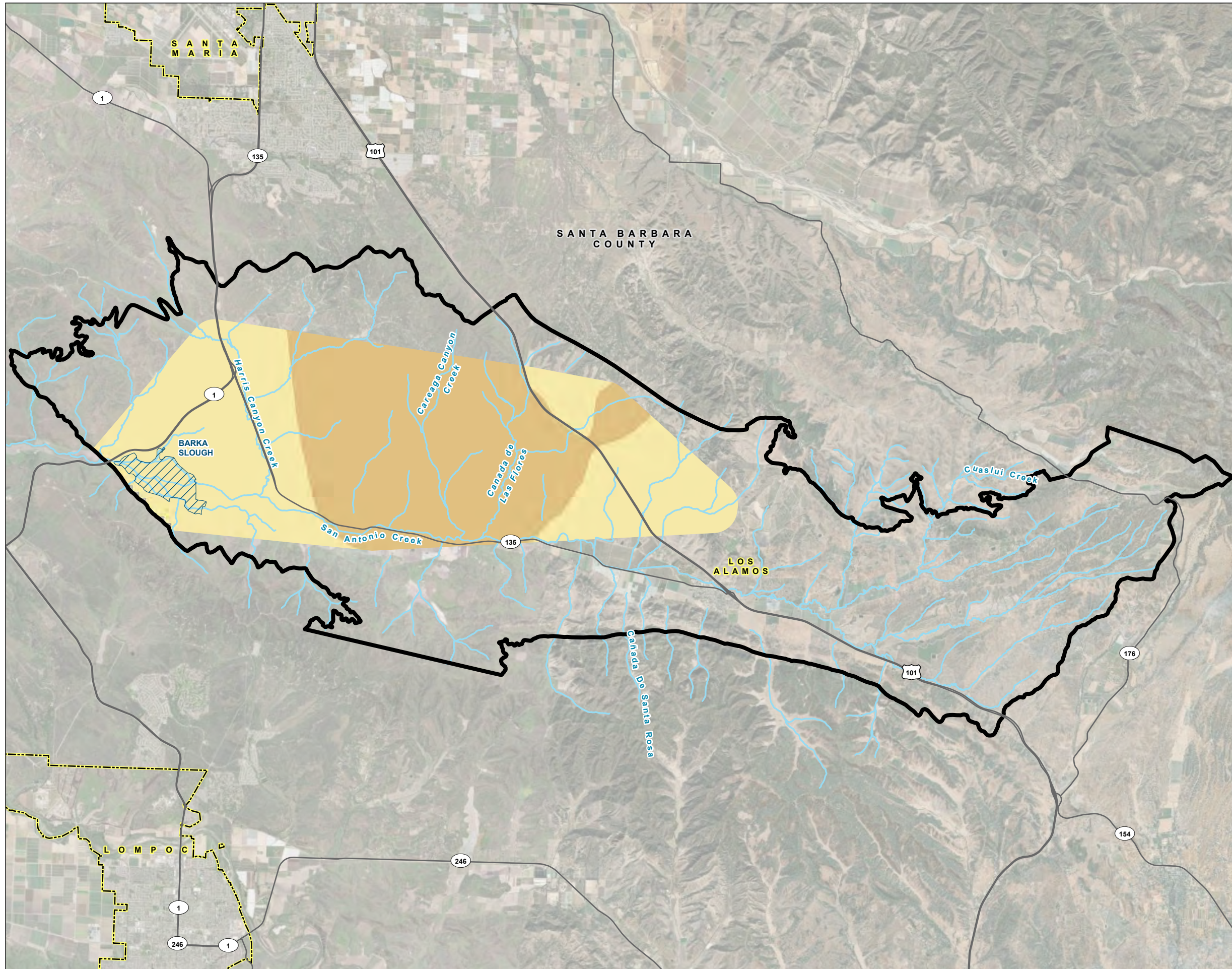
Date: February 12, 2025  
Data Sources: USGS, ESRI, DWR,  
Maxar Imagery (4/10/2024)





**FIGURE ES-3**  
**Careaga Sand**  
**Annual Change in**  
**Groundwater Elevation**  
**Fall 2023 to Fall 2024**

Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



**LEGEND**

**Change in Groundwater Elevation (feet NAVD 88)<sup>1</sup>**

- 0 to 10
- 10 to 0

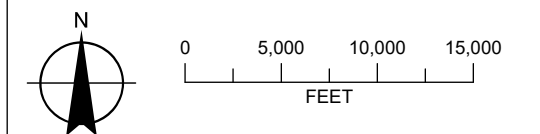
**All Other Features**

- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- San Antonio Creek or Tributary

**NOTES**

1. The change in groundwater elevation extents are bound by the lateral limits of the subject aquifer (see Figure 2) and available groundwater elevation data.
2. San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

NAVD 88: North American Vertical Datum of 1988



Date: February 12, 2025  
 Data Sources: USGS, ESRI, DWR,  
 Maxar Imagery (4/10/2024)



## ES-6 Progress toward Meeting Basin Sustainability

Below, is a list of notable developments or progress toward management actions that occurred during water year 2024. See Section 7 for further item descriptions.

**Groundwater Monitoring Network Expansion.** The SABGSA expanded its monitoring network by securing a well access agreement during water year 2024. The SABGSA also plans to leverage the completed well registration program to identify existing wells in the Basin that may be incorporated into the Basin Monitoring Network. The SABGSA continues to conduct public outreach efforts to contact well owners throughout the Basin to discuss potential enrollment in the Basin groundwater level monitoring network.

In addition to working toward filling data gaps, the SABGSA also continues to improve and maintain the Basin groundwater level monitoring network. The SABGSA approved the purchase of five additional transducers to be installed in select Basin monitoring network wells, totaling 15 installed transducers. The SABGSA also performed vegetation trimming, twice, along access trails to monitoring wells on VSFB Property near the Slough.

In consultation with Santa Barbara County, the SABGSA determined fifteen wells in the Basin groundwater level monitoring network have RPEs that do not meet accuracy standards based on DWR best management practices.<sup>1</sup> An additional nine wells in the Basin groundwater level monitoring network have no reference elevation data available.<sup>2</sup> This was completed as a preliminary task to the SABGSA performing an RPE survey.

**Well Registration Program and Well Meter Installation & Extraction Program.** In February 2022, the SABGSA formed an Ad Hoc Committee—comprised of two members of the SABGSA Board of Directors, two members of the SABGSA Advisory Committee (including a representative from the County of Santa Barbara), and the Executive Directors of both the SABGSA and San Antonio Basin Water District—to establish a framework for the Well Registration and Well Meter Installation & Extraction Reporting (Metering) Program to be developed and implemented in two phases. Phase 1 – Well Registration was completed in Spring 2023. Phase 2 – Well Meter Installation & Extraction Reporting (Metering) Program has included program development and outreach efforts including a stakeholder workshop on October 15, 2024 (after the end of water year 2024). On November 20, 2024, the SABGSA Board of Directors directed staff to initiate the public hearing process to consider adoption of a proposed Ordinance. It is anticipated that the first reading of the Ordinance will occur in January 2025 and the second reading/adoption in February 2025. The effective date of the Ordinance is 30 days after the adoption.

**Well Verification - Rescission of Executive Orders N-7-22 and N-3-23.** On September 5, 2024, Governor Newsom issued Executive Order N-3-24 which terminated the drought state of emergency in Santa Barbara amongst 19 other counties. Related Executive Order's N-7-22 and N-3-23 (requiring written verifications from Groundwater Sustainability Agencies) were rescinded. The Urgency Ordinance for Santa Barbara County (No. 5158) was also terminated. SABGSA's Resolution 22-001 Approving a Well Verification Policy and Resolution 22-002 Approving a Well Verification Fee & Deposit Agreement in compliance with EO-N-22 both automatically terminate. The well permitting process in unincorporated areas of Santa Barbara County will

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<sup>1</sup> The SABGSA has been denied access to 2 of the 15 wells and does not have access to an additional 5 of the 15 wells.

<sup>2</sup> No state well numbers could be identified for the 9 wells. Consequently, no elevation data could be determined through available public databases. Five of the 8 wells are LACSD wells, and an additional 3 of the 8 wells were recently added to the Basin groundwater level monitoring network.

revert to previous well permitting requirements (Santa Barbara County Code Chapter 34A - Wells). Santa Barbara County Environmental Health Services is no longer requesting written verification from SABGSA.

**Well Metering Assistance Program.** The Santa Barbara County Water Agency (SBCWA) has implemented a Well Metering Assistance Program (WMAP) designed to provide funding to offset up to \$500 of the equipment cost of qualifying water meters. Once SABGSA's Metering Ordinance takes effect, the WMAP will be available to Basin landowners.

**GSP Approval & Consultation with DWR.** The GSP for the San Antonio Creek Valley Groundwater Basin was approved on January 18, 2024. A consultation meeting between the California Department of Water Resource (DWR) groundwater sustainability plan (GSP) review staff and representatives from the San Antonio Basin Groundwater Sustainability Agency (SABGSA), and GSI Water Solutions, Inc. (GSI) occurred on April 9, 2024 to discuss the findings and potential corrective actions identified in the DWR GSP Assessment Staff Report, dated January 18, 2024.

**Groundwater Quality.** The minimum threshold for the degraded groundwater quality sustainability indicator (see Section 4.8 of GSI and GEI, 2021) was not exceeded during this reporting period.

Water quality data for water year 2024 was obtained through the SWRCB GAMA Groundwater Information System (GAMA-GIS).<sup>3</sup> Average concentrations, by well and constituent of concern (COC), were further categorized as pre-SGMA enactment (2015), post-SGMA (2015 to last measured), and water year 2024. Available water quality data for wells included in the Basin groundwater quality monitoring network for water year 2024 was reported for 8 municipal and 27 irrigation supply wells, however, analytical water quality data was reported for nitrate only in the municipal wells. Reported constituent concentrations in all 8 municipal wells were below the respective WQO, MCL, and SMCL. In 2 of the 27 irrigation supply wells, nitrate concentrations exceeded the respective MCL (10 milligrams per liter (mg/L)), and 4 wells exceeded the respective WQO (5 mg/L). In 7 of the 27 irrigation supply wells, TDS concentrations exceeded the respective WQO (600 mg/L), and no wells exceeded the respective TDS MCL.

The USGS, in cooperation with the SWRCB, initiated the COGG Program in 2015.<sup>4</sup> The objective of the COGG Program is to determine where and to what extent groundwater quality may be adversely impacted by proximal oil and gas development activities (Davis, et al., 2018). Anders et al. (2022) determined most groundwater in the area of the Orcutt Oil Field appears to be of good quality with respect to the constituents analyzed because most groundwater samples, as well as available inorganic historical chemistry data, do not indicate the presence of water from oil-bearing formations in groundwater.

**Land Subsidence.** Based on data available from the University NAVSTAR Consortium (UNAVCO) Continuous Global Positioning System (CGPS) Station ORES, located in Los Alamos, and InSAR no land subsidence in the Basin has occurred at rates exceeding the minimum threshold during water year 2024 (see Appendix F for UNAVCO CGPS Station ORES displacement data). InSAR measured land subsidence from October 2023 to October 2024 indicate a vertical displacement of land surface elevation of plus or minus 0.0591 ft.<sup>5</sup> UNAVCO CGPS Station ORES measured vertical displacement during water year 2024 was -0.02 ft.

**Interconnected Surface Water.** The minimum threshold for the interconnected surface water sustainability indicator was not reached during water year 2024. The lowest average measured stream flow recorded at

<sup>3</sup> The GAMA-GIS is available at <https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/>. (Accessed February 11, 2025.)

<sup>4</sup> Description available at <https://webapps.usgs.gov/cogg/>. (Accessed February 11, 2025.)

<sup>5</sup> InSAR data accurately models vertical displacement in ground surface elevation to an accuracy tested to be 18 millimeters (0.7086 inches or 0.0591 ft) at 95% confidence (Towill, 2023).

the Casmalia stream gage between the months of June to September during water year 2024 was 0.32 cfs (recorded July 17, 2024).<sup>6</sup> Summaries of stream flow measurements collected from the Casmalia stream gage for water year 2023 are included in Appendix G.

Because of the short duration of time between the adoption of the Basin GSP and the submittal of this Annual Report, additional time is necessary to continue to implement projects and managements actions and to evaluate their effectiveness and quantitative impacts. However, it is anticipated that the projects and management actions will enable the Basin to work toward sustainable management of groundwater and achievement of sustainability goals as defined in the Basin GSP.

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<sup>6</sup> Casmalia stream gage data is available at <https://waterdata.usgs.gov/monitoring-location/11136100/#parameterCode=00065&period=P7D>. (Accessed February 11, 2025.)

## SECTION 1: Introduction

The 2024 Annual Report for the San Antonio Creek Valley Groundwater Basin (Basin) has been prepared for the San Antonio Basin Groundwater Sustainability Agency (SABGSA) in accordance with the Sustainable Groundwater Management Act (SGMA) regulations (§ 356.2. Annual Reports) (see Appendix A). This Annual Report conveys monitoring and water use data for water year 2024 (October 1, 2023 through September 30, 2024).

### 1.1 Setting and Background

The Basin GSP was prepared by GSI Water Solutions, Inc. (GSI) and GEI Consultants, Inc. (GEI) (GSI and GEI, 2021), on behalf of and in cooperation with the SABGSA. The GSP, and subsequent Annual Reports, include the entire Basin (Figure 1). The Basin occupies approximately 130 square miles (DWR, 2003) in western Santa Barbara County. The Basin is bound on the north by the Solomon-Casmalia Hills and the Santa Maria Valley groundwater adjudication boundary and on the east by the San Rafael Mountains and a watershed divide separating the adjoining Santa Ynez River Valley groundwater basin. Average annual precipitation in the Basin is approximately 15.38 inches (County of Santa Barbara Public Works Department, n.d.). There are no natural lakes or water supply reservoirs in the Basin. San Antonio Creek and its tributaries are the major waterbodies. San Antonio Creek discharges into Barka Slough (Slough), an unmanaged 660-acre wetland (Martin, 1985) at the west edge of the Basin. The Basin is bound on the south by the Purisima Hills and on the west by the approximate western boundary of the Slough. The valley is drained by San Antonio Creek (DWR, 2018) (see Figure 1). The San Antonio Creek Basin has not been adjudicated. The town of Los Alamos is the largest community in the Basin. U.S. Highway (HWY) 101 is the most significant north-south highway in the Basin, with California State HWY 135 running east-west across the Basin.

### 1.2 Organization of This Report

The required contents of an Annual Report are provided in the SGMA regulations (§ 356.2) (see Appendix A). Organization of the report is meant to follow the regulations where possible to assist in the review of the document. This Annual Report is organized as follows:

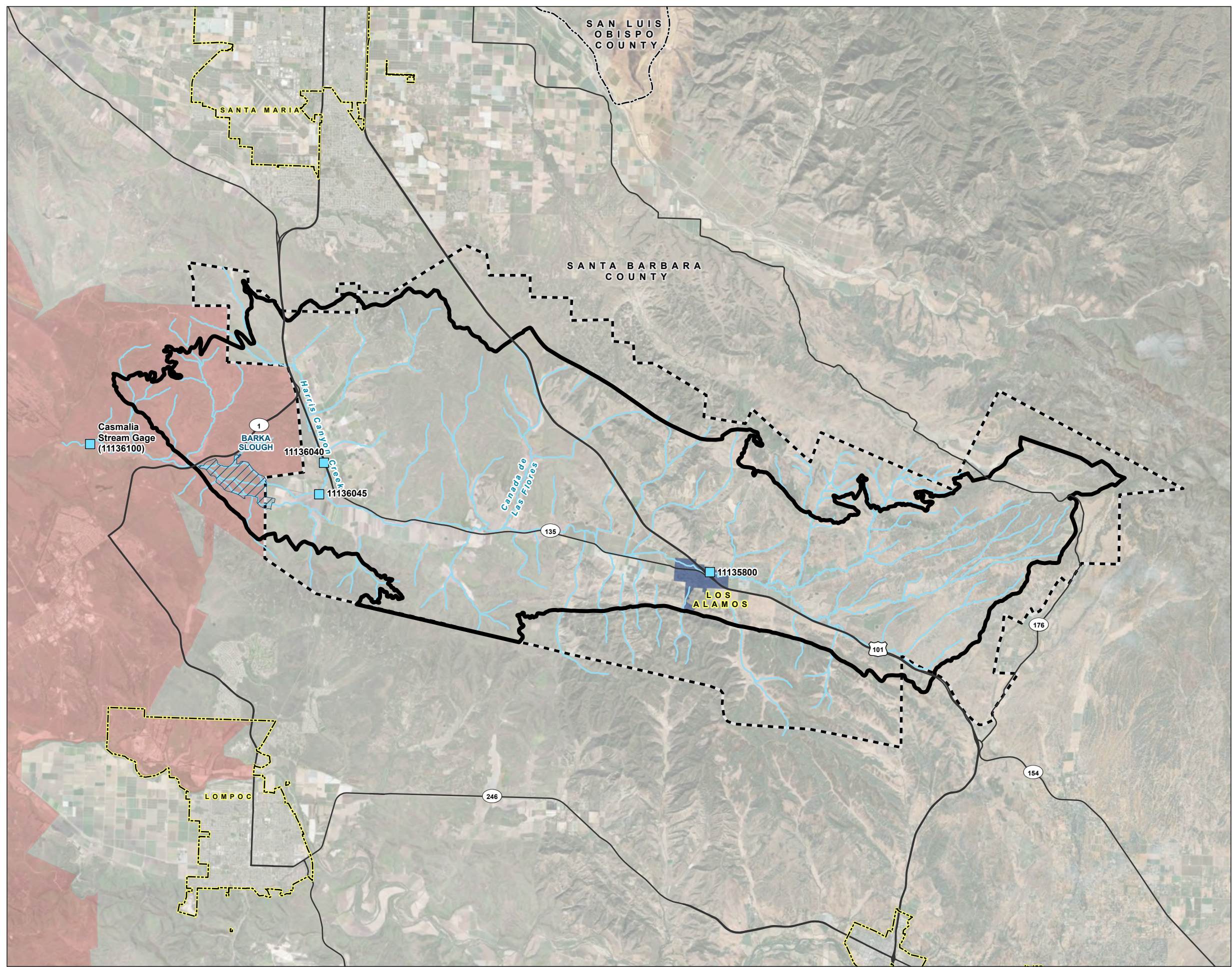
- **Section 1: Introduction.** A brief background of the formation and activities of the SABGSA and development and submittal of the GSP and subsequent annual reports (water years 2019 through 2023).
- **Section 2: Basin Setting and Monitoring Networks.** A summary of the basin setting, basin monitoring networks, and the ways in which data are used for groundwater management.
- **Section 3: Groundwater Elevations (§ 356.2[b][1]).** A description of recent monitoring data with groundwater elevation contours for seasonal high and low groundwater elevations and representative hydrographs.
- **Section 4: Groundwater Extractions (§ 356.2[b][2][b][4]).** Compilation of metered and estimated groundwater extractions by land use sector and approximate locations of extraction.
- **Section 5: Surface Water Use (§ 356.2[b][3]).** No surface water use occurs in the Basin and therefore Section § 356.2[b][3] of DWR GSP Emergency Regulations is not applicable to the Basin.
- **Section 6: Change in Groundwater in Storage (§ 356.2[b][5]).** A description of the methodology and presentation of changes in groundwater in storage based on annual groundwater elevation differences.
- **Section 7: Progress toward Basin Sustainability (§ 356.2[c]).** A discussion of applicable outstanding Basin sustainability indicators, a comparison of Basin conditions to the respective sustainability criteria,

and summary of management actions taken throughout the Basin by the SABGSA and individual entities toward sustainability of the Basin.











- **Section 8: References.**

**FIGURE 1**

**San Antonio Creek Valley  
Groundwater Basin Plan Area**  
Groundwater Sustainability Plan  
2024 Annual Report  
San Antonio Creek Valley  
Groundwater Basin



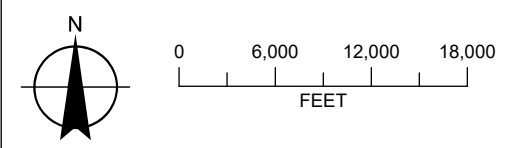
**LEGEND**

-  Stream Gage
-  Los Alamos Community Services District
-  Vandenberg Space Force Base
- All Other Features**
-  San Antonio Creek Valley Groundwater Basin
-  Barka Slough
-  San Antonio Basin Water District
-  County Boundary
-  City Boundary
-  Major Road
-  San Antonio Creek or Tributary



**NOTES**

Casmalia Stream Gage USGS Site Number: 11136100  
NAVD 88: North American Vertical Datum of 1988



Date: February 12, 2025  
Data Sources: USGS, ESRI, DWR,  
Maxar Imagery (4/10/2024)



## SECTION 2: Basin Setting and Monitoring Networks

### 2.1 Introduction

This section provides a summary of the Basin setting and the groundwater management monitoring programs described in detail in the GSP, as well as any notable events affecting monitoring activities or the quality of monitoring results in the reported water year 2024. Much of the information in this Annual Report was taken from the GSP prepared by GSI and GEI (2021) and preceding GSP Annual Report (GSI, 2024).

### 2.2 Basin Setting

The Basin is long, narrow, and structurally controlled by the underlying Los Alamos Syncline (Hutchinson, 1980). Topographical highs within the Basin occur at an elevation of approximately 1,200 ft above mean sea level (amsl) along the ridges that define the northern (Casmalia Hills and Solomon Hills) and southern (Purisima Hills and Burton Mesa) Basin boundaries. Topographical lows of the Basin occur along the relatively flat and narrow valley floor, coincident with the axis of the Los Alamos Syncline. Ground surface elevations along the valley floor occur at elevations ranging from approximately 800 ft amsl to the east to 250 ft amsl at the western edge of the Slough. No surface water or groundwater flow into the Basin. San Antonio Creek meanders along the valley floor and is fed by tributaries including Cuaslui Creek, Cañada De Santa Rosa, and Harris Canyon Creek. Groundwater and surface water discharge into the Slough at the western end of the Basin before discharging from the Slough into a leg of San Antonio Creek west of the Basin boundary. There are no natural lakes or water supply reservoirs in the Basin.

Figure 1 shows the lateral boundaries of the Basin as defined by DWR in Bulletin 118. The bottom of the Basin is generally defined as the base of the Pliocene-age Careaga Sand. The Basin bottom is considered a barrier to flow because the geologic units underlying the Careaga Sand are considered impermeable and produce limited quantities of water. In addition, groundwater is generally suspected to be of poor quality (Muir, 1964). Therefore, these units are not considered part of the Basin. Figures 2 and 3 include a geological map with cross section locations and geological cross sections, respectively, that illustrate the vertical boundaries of the Basin and the approximate depth to the bottom of the Careaga Sand.

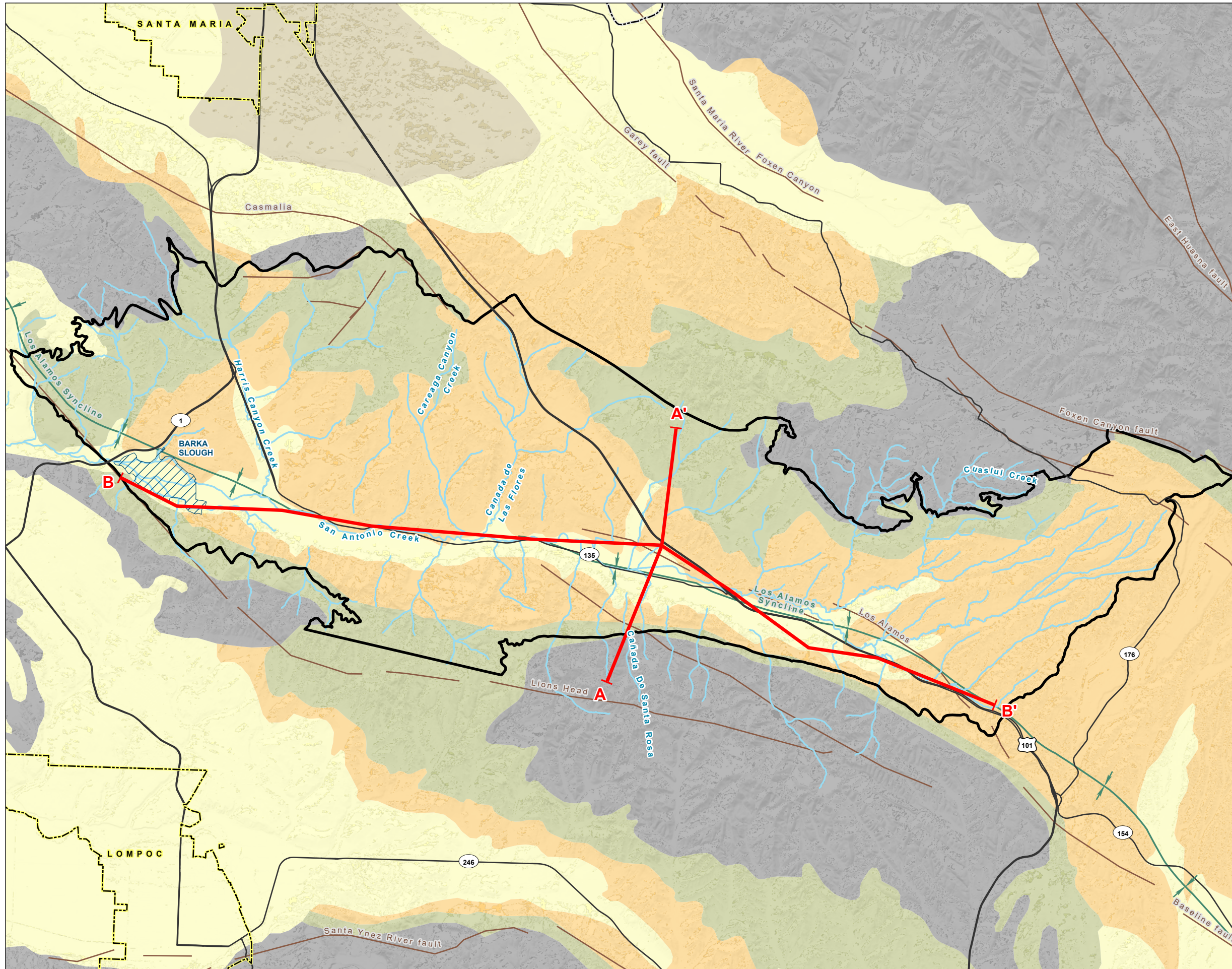
The Basin lateral boundaries are as follows:

- The western boundary of the Basin is defined by a bedrock ridge underlying the western edge of the Slough. The bedrock ridge forces virtually all groundwater to the surface as base flow in the San Antonio Creek or as vertical flux into the Slough (see Figure 4 for conceptualized surface and groundwater discharge into the Slough).
- The northern boundary of the Basin is defined by the outcropping of the impermeable consolidated bedrock underlying the Careaga Sand in the Casmalia and Solomon Hills.
- The eastern boundary of the Basin is defined by the outcropping of the impermeable consolidated bedrock underlying the Careaga Sand in the San Rafael Mountains.
- The southern boundary is defined by the outcropping of the impermeable consolidated bedrock underlying the Careaga Sand in the Purisima Hills.



**FIGURE 2**  
**Geologic Map of the**  
**San Antonio Creek Valley**  
**Groundwater Basin**

Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin

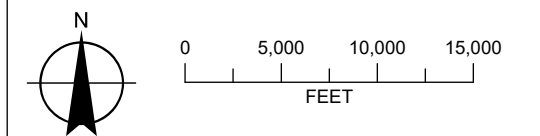


**LEGEND**

- Cross Section Line
- Geology**
- Fault
- Syncline
- Channel Alluvium
- Paso Robles Formation
- Lake Deposits
- Careaga Sand
- Bedrock
- All Other Features**
- B118 San Antonio Creek Valley Groundwater Basin
- Barka Slough
- County Boundary
- City Boundary
- Major Road
- San Antonio Creek or Adjacent Tributary

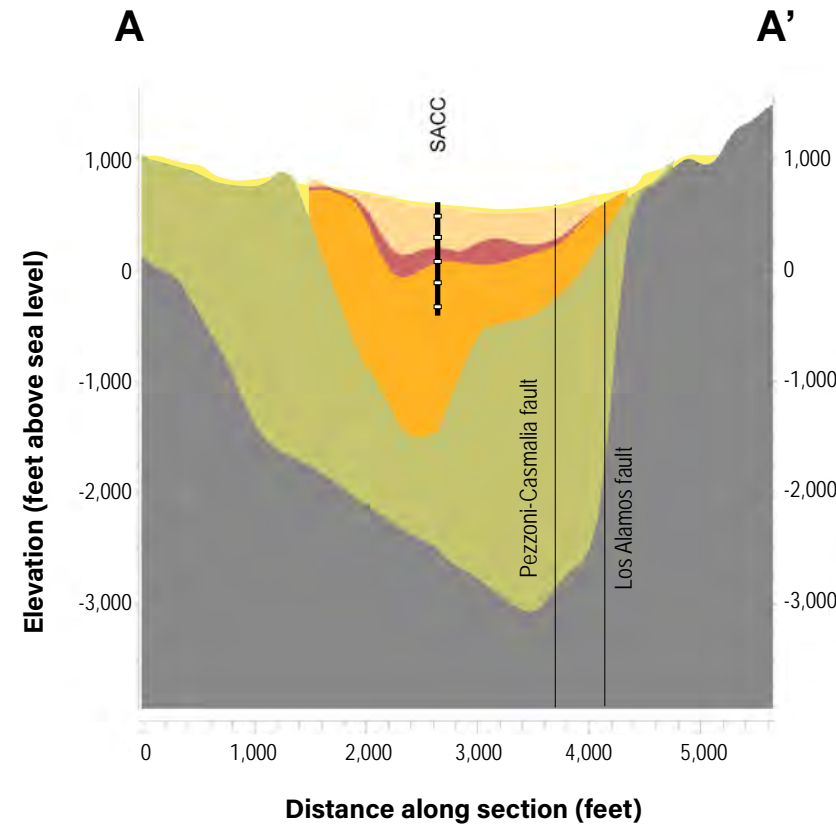
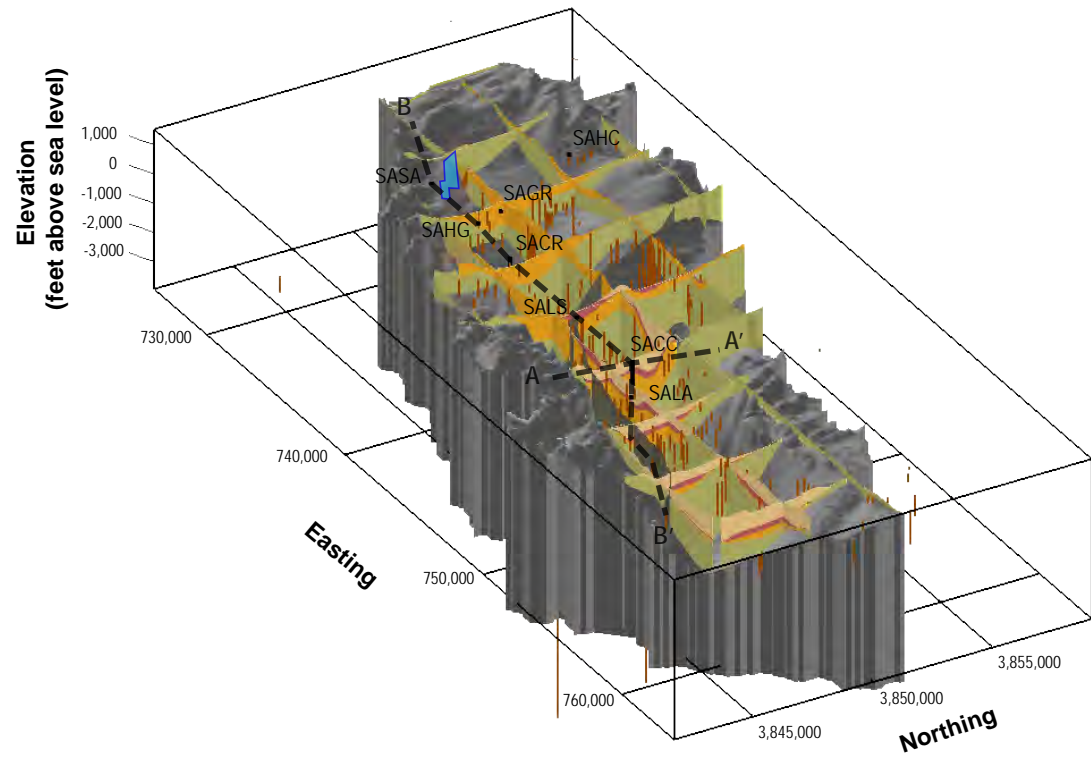
**NOTES**

1. San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.
2. Geologic cross sections shown on Figure 3.



Date: January 21, 2025  
 Data Sources: USGS, ESRI, DWR

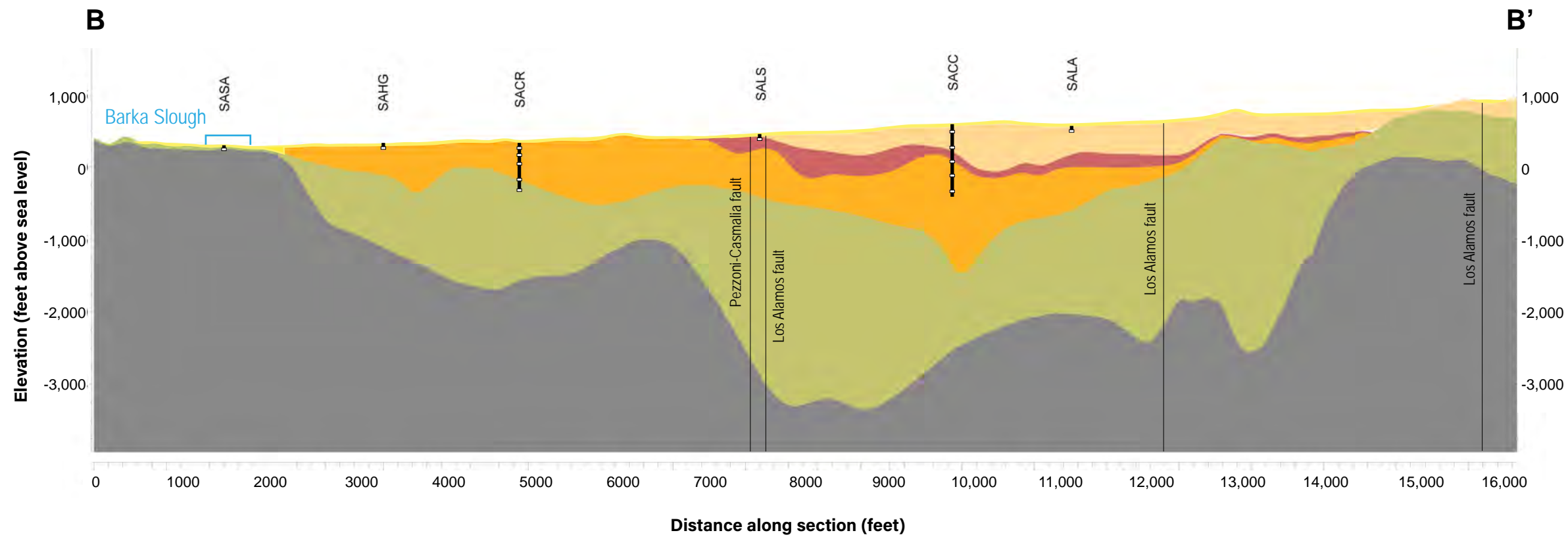
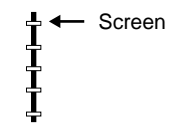
**FIGURE 3**  
**Geologic Cross Sections,**  
**San Antonio Creek Valley**  
**Groundwater Basin**  
 Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



**LEGEND**

- Channel Alluvium
- Upper member - Paso Robles Formation
- Middle member - Paso Robles Formation
- Lower member - Paso Robles Formation
- Careaga Sand
- Consolidated bedrock

**WELL LEGEND**

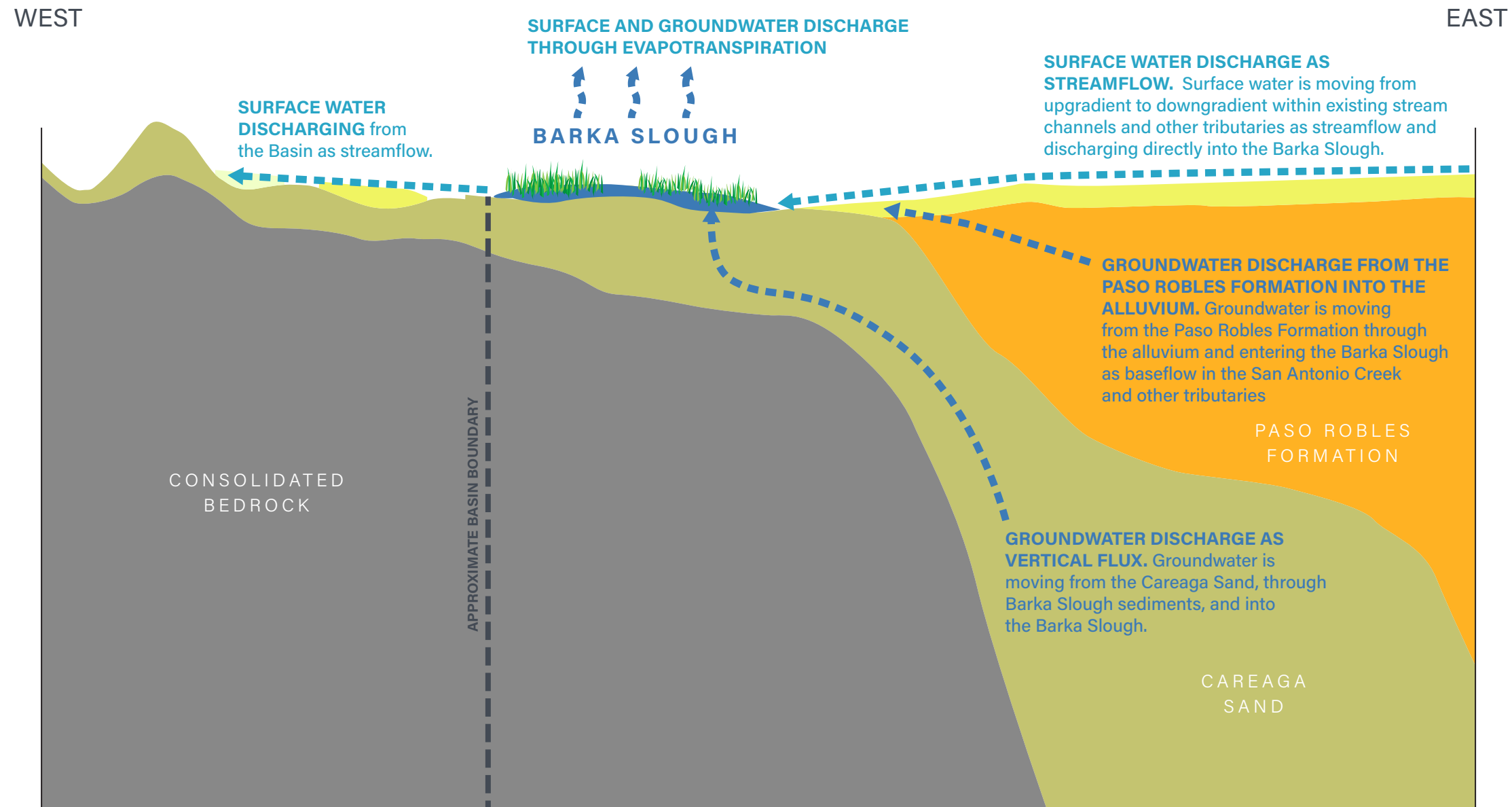


**NOTE**

Geologic cross section locations shown on Figure 2.  
 Date: February 11, 2025  
 Data Sources: USGS (2020b)



**FIGURE 4**  
**Conceptualized Surface Water and Groundwater Discharge into Barka Slough**  
 Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



**LEGEND**

- Channel Alluvium
- Paso Robles Formation
- Careaga Sand
- Consolidated Bedrock

**NOTE**  
 View looking north  
 Date: February 11, 2025  
 Data Sources: USGS (2020b)



Two principal aquifers have been identified in the Basin, the Paso Robles Formation and the Careaga Sand. The Paso Robles Formation is approximately 2,000 ft thick and much of it is saturated. Large exposures of the formation north and east of the valley receive direct infiltration of rainfall, particularly in upper elevations. The Paso Robles Formation is likely also recharged by seepage from the alluvium present beneath San Antonio Creek and its tributaries and from upward leakage from the underlying Careaga Sand in some areas of the Basin. Vertical heterogeneity in the water-bearing properties of the Paso Robles Formation is the result of coarse-grained beds that yield water freely to wells alternating with fine-grained beds that do not. Higher well yields are typically attributed to the wells that penetrate several of the coarse-grained lenses. Yields of 500 gallons per minute (gpm) and specific capacities of 5 gpm to 15 gallons per minute per foot (gpm/ft) of drawdown are common (see Appendix D). A storage coefficient of 0.15 was calculated for the Paso Robles Formation (Martin, 1985). Historically, artesian groundwater occurred locally in the Paso Robles Formation (Muir, 1964). Artesian conditions exist presently within the Paso Robles Formation (although, they are less frequently observed than in the past) and were observed in a completed agricultural well as recently as 2020. Artesian conditions within the Basin are due to localized confining layers created by the synclinal structure of the Basin, the presence of overlying fine-grained deposits, and/or faults present within the Basin, such as the Los Alamos Fault and the Pezzoni-Casmalia Fault (Carlson, 2019; Cromwell et al., 2022).

As shown on Figure 3, the U.S. Geological Survey (USGS) divided the Paso Robles Formation into three members (unofficial geologic units) during development of the San Antonio Creek integrated model and associated hydrogeologic characterization of the San Antonio Creek Valley Watershed (Cromwell et al., 2022) based on differences in lithologic and hydraulic properties. The middle member of the Paso Robles Formation was identified as a confining layer inhibiting vertical flow of groundwater in the Paso Robles Formation.

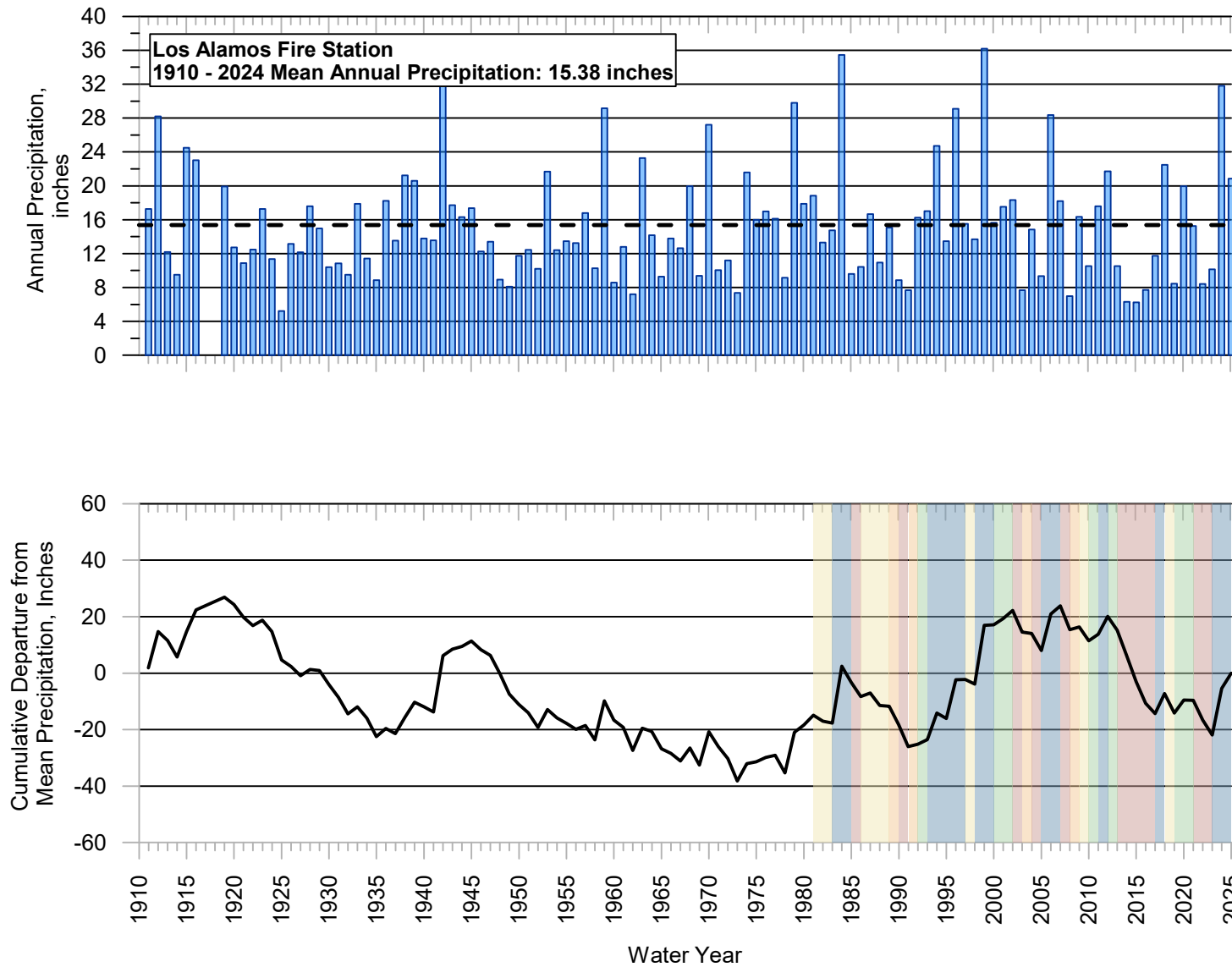
The Careaga Sand is approximately 1,500 ft thick and much of the formation is saturated. There are large exposures of the formation in the Purisima Hills, Solomon Hills, and the Casmalia Hills that receive direct infiltration of rainfall at higher elevations. The formation is present below the valley at a depth of several thousand feet. Two members have been identified in the Careaga Sand: a fine-grained lower member, referred to locally as the Cebada member; and a coarse-grained upper member, referred to locally as the Graciosa member. Geologically, the two members are often mapped together. The Careaga Sand has a large storage capacity and transmits water readily to wells and to the overlying younger formations (Muir, 1964). Yields of less than 100 and exceeding 1,000 gpm and specific capacities of less than 10 to more than 30 gpm/ft of drawdown have been measured in wells completed in the Careaga Sand (see Appendix D). A storage coefficient of 0.001 for the confined portion (the Slough area) of the Careaga Sand was calculated (Martin, 1985).

The primary components of groundwater recharge to the Basin aquifers are mountain front recharge, streamflow percolation, deep percolation of direct precipitation, and agricultural irrigation return flow. Natural groundwater discharge from the Basin aquifers occurs through springs and seeps, evapotranspiration (ET), and discharge to surface water bodies. The most significant component of groundwater discharge is pumping of groundwater from wells. The regional direction of groundwater flow is from east to west. Because of the synclinal structure of the Basin, there is no significant flow of groundwater between the Basin and adjacent groundwater basins. Virtually all natural groundwater discharge in the Basin occurs as discharge to San Antonio Creek (as baseflow where the Paso Robles Formation pinches out) or as vertical flux into the Slough (from the Careaga Sand) due to the bedrock high underlying the western portion of the Slough.

## 2.3 Precipitation and Climatic Periods

Annual precipitation recorded at the Los Alamos Fire Station precipitation station (Santa Barbara County station 204), cumulative departure from mean annual precipitation, and water year type are presented in Figure 5. The long-term average annual precipitation for the period 1910 through 2024 at the Los Alamos Fire Station is 15.38 inches per water year. Water year types were identified using DWR guidance criteria (DWR, 2021). Water years are categorized according to the following designations: wet, above normal, below normal, dry, and critical (see Table 1). Historical precipitation records are provided in Appendix B.

**FIGURE 5**  
**Los Alamos Fire Station**  
**Annual Precipitation and**  
**Cumulative Departure from**  
**Mean Annual Precipitation**  
 Groundwater Sustainability  
 Plan 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



Date: January 31, 2025  
 Data Sources: County of  
 Santa Barbara Public  
 Works Department (n.d.)



**Table 1. San Antonio Creek Valley Groundwater Basin Water Year Types**

Water Year	Sum of Annual Precipitation (inches)	Water Year Index <sup>1</sup>	Water Year Type <sup>1</sup>
1981	13.3	15.51	Below Normal
1982	14.8	14.17	Below Normal
1983	35.4	27.16	Wet
1984	9.6	19.94	Wet
1985	10.4	10.11	Critical
1986	16.7	14.17	Below Normal
1987	10.9	13.22	Below Normal
1988	15.1	13.41	Below Normal
1989	8.9	11.34	Dry
1990	7.7	8.15	Critical
1991	16.3	12.82	Dry
1992	17.0	16.70	Above Normal
1993	24.7	21.63	Wet
1994	13.5	17.96	Wet
1995	29.1	22.84	Wet
1996	15.5	20.94	Wet
1997	13.7	14.42	Below Normal
1998	36.2	27.19	Wet
1999	15.7	23.87	Wet
2000	17.5	16.77	Above Normal
2001	18.3	18.00	Above Normal
2002	7.7	11.95	Critical
2003	14.8	11.97	Dry
2004	9.4	11.54	Critical
2005	28.4	20.76	Wet
2006	18.2	22.27	Wet
2007	7.0	11.48	Critical
2008	16.3	12.59	Dry
2009	10.5	12.84	Below Normal
2010	17.6	14.77	Above Normal
2011	21.7	20.07	Wet
2012	10.5	15.00	Above Normal
2013	6.3	7.99	Critical
2014	6.2	6.27	Critical
2015	7.7	7.12	Critical
2016	11.7	10.12	Critical

Water Year	Sum of Annual Precipitation (inches)	Water Year Index <sup>1</sup>	Water Year Type <sup>1</sup>
2017	22.5	18.19	Wet
2018	8.5	14.07	Below Normal
2019	19.9	15.35	Above Normal
2020	15.2	17.13	Above Normal
2021	8.4	11.14	Critical
2022	10.1	9.44	Critical
2023	31.8	23.14	Wet
2024	20.8	25.23	Wet

#### Notes

<sup>1</sup> As defined in DWR's SGMA Water Year Type Dataset Development Report (DWR, 2021) using precipitation measured at the Los Alamos Fire Station.

This table includes corrections to the sum of annual precipitation, water year index, and water year type from preceding annual reports because of a discrepancy in the definition of a water year in the data source.

DWR = California Department of Water Resources

GSP = Groundwater Sustainability Plan

## 2.4 Groundwater Elevation Monitoring (§ 356.2[b])

This section provides a brief description of the groundwater monitoring and management programs and notable events, if any, impacting monitoring activities or the quality of monitoring results.

### 2.4.1 Groundwater Elevation Monitoring Locations

The GSP provided a summary of existing groundwater monitoring efforts promulgated under various existing local, state, and federal programs. SGMA requires that monitoring networks be developed to provide sufficient data quality, frequency, and spatial distribution to characterize groundwater and surface water in the Basin, and to evaluate changing aquifer conditions in response to GSP implementation. The monitoring network developed in the GSP is intended to support efforts to do the following:

- Monitor changes in groundwater conditions and demonstrate progress toward achieving measurable objectives and minimum thresholds documented in the GSP.
- Quantify annual changes in water use.
- Monitor impacts to the beneficial uses and users of groundwater.

Monitoring networks are developed for each of the five sustainability indicators applicable to the Basin:

- Chronic lowering of groundwater levels
- Reduction of groundwater in storage
- Degraded water quality
- Land subsidence
- Depletion of interconnected surface water



Monitoring for the first two sustainability indicators (chronic lowering of water levels and reduction of groundwater in storage) is implemented using the same representative monitoring sites (RMSs). The GSP identifies an existing network of 15 RMSs (wells) for water level monitoring (GSI and GEI, 2021). Of these 15 wells, 8 wells are screened in the Paso Robles Formation, and 7 wells are screened in the Careaga Sand (Figure 6). Groundwater elevation hydrographs and associated location map for the 15 RMSs in the Basin groundwater level monitoring network are presented in Appendix C. Hydrographs for non-RMS wells included in the Basin groundwater level monitoring network are also presented in Appendix C.

Currently, the SABGSA has access agreements for 11 of the 15 RMS wells. Five representative wells are production wells used for agricultural irrigation. While not ideal for use as monitoring wells, these five production wells are currently included as RMSs because of their location in the Basin, available well construction information, and long period of record. These five wells have been matched individually with nearby observation wells (non-pumping wells) that provide comparable spatial coverage of the Basin, have known well construction and aquifer completion data, but do not have a long period of record. Therefore, the five sets of paired wells will continue to be monitored until the period of record for the observation wells is adequate to identify trends in groundwater elevations and confirm that the observation wells are representative of the pumping well that will be eventually replaced in the monitoring program. Wells without current well access agreements, including RMS wells, are planned to be evaluated for replacement using existing Monitoring Network wells and potential candidate wells to be identified using the data collected from the SABGSA Well Registration Program (see Section 2.4.2).

## 2.4.2 Water Level Monitoring Data Gaps

Although the existing groundwater level monitoring network satisfies the well density guidance cited in the best management practice (BMP) guidance for monitoring networks developed by DWR (DWR, 2016a, 2016b), there are areas identified within the Basin (see Figure 5-3 in GSI and GEI, 2021) where the addition of monitoring wells would improve the hydrogeologic conceptual model (HCM) discussed in this section. Two areas with a low density of wells in both principal aquifers were identified in the Basin: the eastern uplands and the central to northwestern uplands. The State Water Resources Control Board (SWRCB) Irrigated Lands Regulatory Program (ILRP) indicates that private agricultural supply wells have been identified in the eastern uplands area. An effort is being made during GSP implementation to contact owners of wells in the eastern uplands area to determine whether they can be included in the monitoring program. Including these additional wells in the groundwater level monitoring network would minimize the uncertainty of groundwater elevation trends and benefit sustainable management of the Basin. Two wells in the central to northwestern uplands area, completed in the Careaga Sand, were previously monitored by the USGS or the SABGSA. However, well access has been denied by the well owners. The SABGSA continues to negotiate access to these wells.

The SABGSA applied for grant funding through DWR's SGMA Round 2 Grant Program in December 2022 (see Section 7.3.6). Included in the SABGSA's grant application was a proposal to construct up to four groundwater monitoring wells in the Basin data gap areas. The SABGSA was not included in DWR's final list of recipients to be awarded the subject grant funding, announced September 2023.

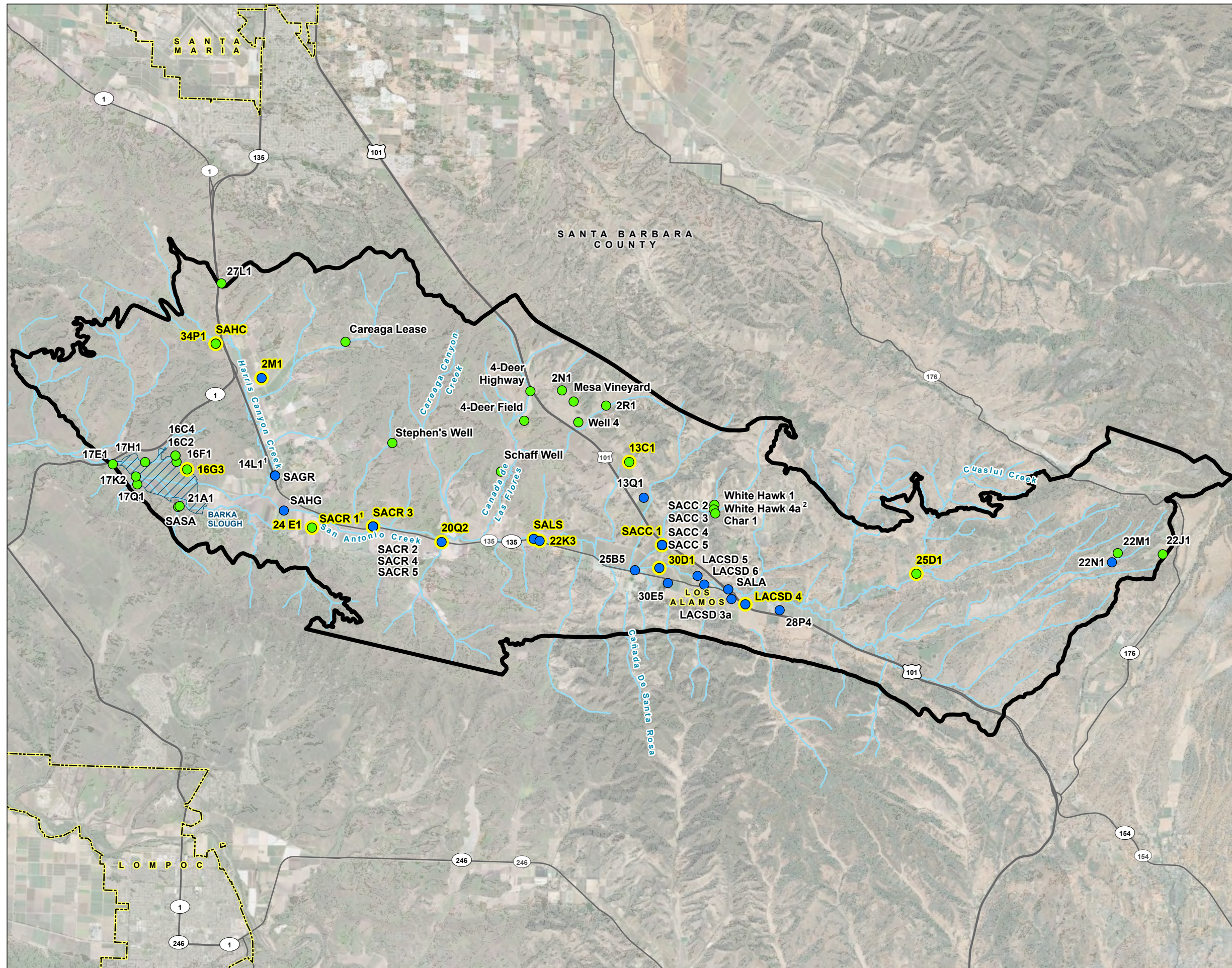
Well completion reports (WCRs) are available online through DWR's Online System for Well Completion Reports (OSWCR) database; however, the WCR identification numbers are unknown for many of the wells in the groundwater level monitoring network and therefore it is not possible to always identify the associated WCRs. These are data gaps that the SABGSA is working to address to improve the accuracy of the HCM and understanding of groundwater flow in the Basin.

The SABGSA Well Registration and Well Meter Installation/Extraction Measurement Program (see Section 7) will aid the SABGSA's effort to identify wells and landowners that could be included in the Basin's groundwater level monitoring network, particularly in areas with a low-density of wells. The Well Registration

Program requires all groundwater production wells, including wells used by “de minimis” pumpers, to be registered with the SABGSA. The program is intended to establish the location and type of each well located within the Basin and help the SABGSA gain an accurate count and a better understanding of the wells in active use.

**FIGURE 6**  
**Wells Included in the**  
**San Antonio Creek Valley**  
**Groundwater Basin**  
**Groundwater Monitoring Network**

Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin

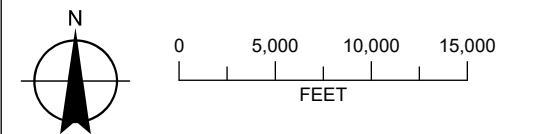


**LEGEND**

- Representative Well
- All Other Features**
- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- ~ San Antonio Creek or Tributary
- Wells (by screened aquifer)**
- Screened Aquifer**
- Paso Robles Formation
- Careaga Sand

**NOTES**

1. SACR 1 and 14L1 are screened in the Careaga Sand.
2. White Hawk 4 was destroyed in December 2023. Replacement well White Hawk 4a was constructed and completed in June 2024.



Date: February 11, 2025  
 Data Sources: USGS, ESRI, DWR,  
 Maxar Imagery (4/10/2024)



## 2.5 Groundwater Quality Monitoring

The minimum threshold for the degraded groundwater quality sustainability indicator (see Section 4.8 of GSI and GEI, 2021) was not exceeded during this reporting period. No minimum thresholds have been established for contaminants because state regulatory agencies, including the Central Coast Regional Water Quality Control Board (RWQCB) and the Department of Toxic Substances Control, have the responsibility and authority to regulate and direct actions that address contamination (see Section 4.8 of GSI and GEI, 2021). The water quality objectives (WQOs) for salt and nutrients are the minimum thresholds for TDS, chloride, sulfate, boron, sodium, and nitrate as measured by SWRCB ILRP and Division of Drinking Water (DDW) programs in 20 percent of wells monitored. In cases where the ambient (prior to January 2015) water quality exceeds the WQO, the minimum threshold concentration is 110 percent of the ambient water quality in 20 percent of the wells.

Evaluation of the water quality sustainability indicator is achieved through existing groundwater quality monitoring networks, including the SWRCB DDW public supply well water quality program and the SWRCB ILRP. Constituents of concern (COCs) identified in the GSP are based on state and federal regulatory standards (maximum contaminant levels [MCLs] and secondary MCLs [SMCLs]) for drinking water established by the SWRCB DDW and the U.S. Environmental Protection Agency (EPA), respectively.<sup>7</sup> For agricultural uses, COCs are based on basin WQOs presented in the *Water Quality Control Plan for the Central Coastal Basin* (Basin Plan) (RWQCB, 2019). COCs that have the potential to impact suitability of water for public supply or agricultural use include total dissolved solids (TDS), sodium, chloride, sulfate, arsenic, nitrate, boron, and di(2-ethylhexyl)phthalate (DEHP). There are no known point source contaminant plumes in groundwater in the Basin.

The groundwater quality monitoring network includes eight municipal drinking water supply wells. Four of these wells are completed in the Paso Robles Formation, and four are completed in the Careaga Sand. The wells completed in the Paso Robles Formation are owned and operated by the Los Alamos Community Services District (LACSD) and located near Los Alamos. The wells completed in the Careaga Sand are owned and operated by Vandenberg Space Force Base (VSFB) and located on the north side of the Slough.

There are a total of 81 ILRP wells in the groundwater quality monitoring network; 21 wells were determined to be domestic supply wells based on their USGS Groundwater Ambient Monitoring and Assessment (GAMA) program identification number, and 60 wells were determined to be agricultural supply wells. Figure 7 shows wells included in the groundwater quality monitoring network.

In comparison to reported pre-SGMA conditions, the number of wells with average concentrations of COCs exceeding their respective water quality objective increased for chloride (by 4 wells), sodium (by 2 wells), sulfate (by 5 wells), and TDS (by 9 wells) during the post-SGMA period. Similarly, the reported average concentration for COCs in ILRP wells increased for sodium and sulfate from 68.13 to 70.93 milligrams per liter (mg/L) and 129.66 to 132.45 mg/L, respectively, but decreased for chloride (98.97 to 98.56 mg/L), nitrate (2.92 to 2.47 mg/L), and TDS (594.35 to 590.78 mg/L), during the post-SGMA period compared to the pre-SGMA period.<sup>8</sup> During the pre-SGMA period, reported concentrations of chloride and TDS exceeded the respective SMCL in 1 and 4 wells, respectively. During the post-SGMA period, reported concentrations of chloride and TDS exceeded the respective SMCL in 1 and 5 wells, respectively. Nitrate is the only COC with reported concentrations exceeding the primary MCL (10 mg/L) in the pre- or post-SGMA period. Reported

<sup>7</sup> The list of MCLs and SMCLs is available at [https://www.waterboards.ca.gov/drinking\\_water/certlic/drinkingwater/Chemicalcontaminants.html](https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Chemicalcontaminants.html). (Accessed February 11, 2025.)

<sup>8</sup> Based on GAMA water quality data available at <https://gamagroundwater.waterboards.ca.gov/gama/datadownload>. (Accessed February 11, 2025.)

nitrate concentrations exceeded the MCL in 1 and 4 wells during the pre- and post-SGMA period, respectively. Average concentrations of nitrate during the pre- and post-SGMA period were 2.68 and 2.30 mg/L, respectively.

According to the California Department of Conservation, Geologic Energy Management Division online Well Finder, or WellSTAR, tool, nine named oil and gas fields are within or adjacent to the Basin: Cat Canyon, Zaca, Barham Ranch, Los Alamos, Lompoc, Harris Canyon (abandoned), Careaga, Orcutt, and Four Deer (abandoned) (see Figure 3-47 of GSI and GEI, 2021).<sup>9</sup> The USGS, in cooperation with the SWRCB, initiated the California Oil, Gas, and Groundwater (COGG) Program in 2015.<sup>10</sup> The objective of the COGG Program is to determine where and to what extent groundwater quality may be adversely impacted by proximal oil and gas development activities (Davis et al., 2018).

As part of the COGG Program, a groundwater quality analysis was completed for the area near the Orcutt Oil Field (Anders et al., 2022). The analysis evaluated the occurrence of water and thermogenic gas from oil-bearing formation in groundwater. Anders et al. (2022) determined most groundwater in the area of the Orcutt Oil Field appears to be of good quality with respect to the constituents analyzed because most groundwater samples, as well as available inorganic historical chemistry data, do not indicate the presence of water from oil-bearing formations in groundwater. These results reportedly support previous water-quality studies, which have noted irrigation return flow, natural-occurring water-rock interaction, and lateral seepage from the surrounding outcrops of marine rocks are the predominant processes contributing to the salinity in groundwater in the study area. Of the 15 groundwater wells included in the study, groundwater analytical results in 3 of the wells indicated potential mixing with water and/or hydrocarbon gas from oil-bearing formations. There are no known risks of these gases in drinking water, and regulatory thresholds have not been developed for these gases. The study was unable to conclusively differentiate between occurrences and movements of oil-related (thermogenic) gases mobilized by oil-field operations and natural occurrences and movements of thermogenic gases. The potential sources/pathways for the occurrence of water and thermogenic gas in groundwater near the Orcutt Oil Field included: (1) upward movement from oil-producing formations as a result of, (a) anthropogenic activity such as injection and/or movement along leaky wells/wellbores, or (b) natural migration through formations and/or faults; and (2) non-producing oil-bearing formations overlying and adjacent to the oil field. Further insights could be gained through additional analysis, including examination of existing borehole resistivity and temperature data, conduction of oil-well integrity assessments, as well as implementation of more comprehensive groundwater quality and water level monitoring with a focus on sampling at various depths near active oil wells (Anders et al., 2022).

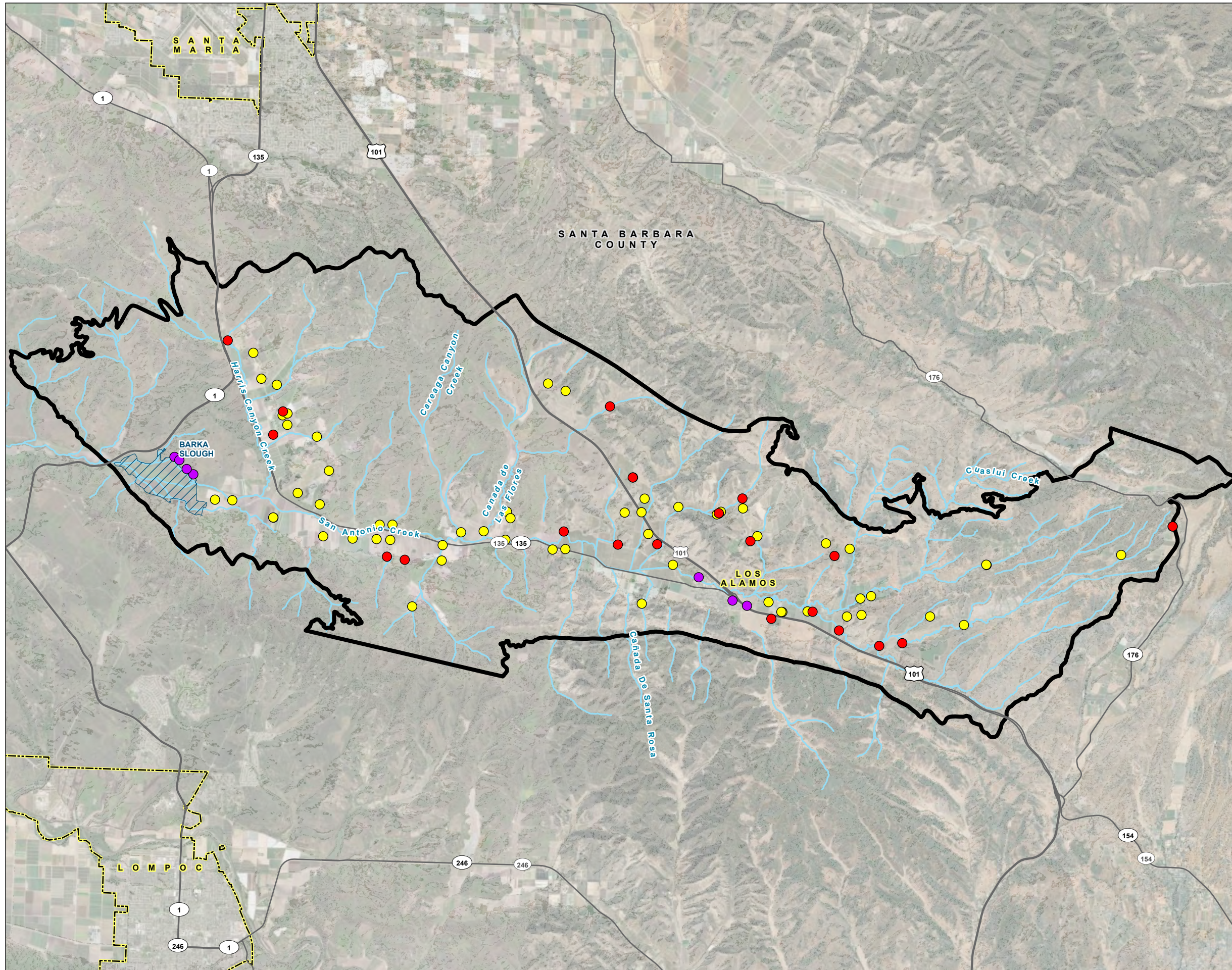
<sup>9</sup> The tool is available at <https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx>. (Accessed February 11, 2025.)

<sup>10</sup> Description available at <https://webapps.usgs.gov/cogg/>. (Accessed February 11, 2025.)

**FIGURE 7**

**Groundwater Quality Monitoring Network**

Groundwater Sustainability Plan  
2024 Annual Report  
San Antonio Creek Valley  
Groundwater Basin



**LEGEND**

**Well Type**

- Agricultural
- Domestic
- Municipal

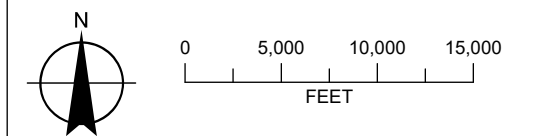
**All Other Features**

- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- San Antonio Creek or Tributary

**NOTES**

\*SACR 1 and 14L1 are screened in the Careaga Sand.

San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.



Date: January 21, 2025  
Data Sources: USGS, ESRI, DWR,  
Maxar Imagery (4/10/2024)



## 2.6 Land Subsidence Monitoring

Land subsidence in the Basin is monitored at the University NAVSTAR Consortium (UNAVCO) Continuous Global Positioning System (CGPS) Station ORES in the town of Los Alamos, near Los Alamos Park. Land subsidence in the Basin is also measured using interferometric synthetic-aperture radar (InSAR) data collected using microwave satellite imagery provided by DWR. Available data to date indicate (1) land subsidence rates have not exceeded rates observed from 2000 through 2020 at the UNAVCO CGPS ORES (0.02 ft during water year 2024);<sup>11</sup> and (2) land subsidence has not occurred that causes significant and unreasonable damage to groundwater supply, land uses (including agricultural, residential, rural residential, and town buildings), infrastructure (including LACSD wells, wastewater treatment plant, and associated infrastructure), and property interests. The SABGSA will annually assess subsidence using the UNAVCO CGPS and InSAR data provided by DWR. See Figure 8 for measured land subsidence from October 2023 to October 2024 in the Basin according to DWR InSAR raster data and measured displacement from the UNAVCO CGPS Station ORES during water year 2024. InSAR raster data from October 2023 to October 2024 indicate a vertical displacement of land surface elevation of plus or minus 0.0591 ft.<sup>12</sup> Figure 9 presents InSAR measured land subsidence data and UNAVCO CGPS Station ORES for June 2016 to October 2024 (InSAR period of record through water year 2024). Although less than the Basin's minimum threshold for the land subsidence sustainably indicator, InSAR data presented on Figure 9 indicates areas of greater negative vertical displacement primarily within a few mile radius of Los Alamos. There are also areas of greater negative vertical displacement west of Los Alamos along California State HWY 135 and in the central uplands between Harris Canyon and U.S. HWY 101. The maximum negative vertical displacement in the Basin is up to approximately 0.3 ft (over the available InSAR period of record).

## 2.7 Interconnected Surface Water Monitoring

The interconnected surface water monitoring network includes monitoring stream flow recorded at the USGS-operated Casmalia stream gage (USGS Monitoring Location 11136100; see Figure 1) located 2.5 miles west of the Slough. Measured surface water flow at the Casmalia stream gage averaged above 0.15 cubic feet per second (cfs) over 3 consecutive months from June to September (Depletion of Interconnected Surface Water Minimum Threshold) during water year 2024 (see Appendix H).<sup>13</sup>

The SABGSA understands the USGS, in cooperation with the Santa Barbara County Water Authority (SBWA) and VSFB, are assessing the effects of future climate scenarios in the Basin on the Slough. The scope of work includes the installation of one stream gage along San Antonio Creek (upstream of the Slough at San Antonio Road) and the reactivation of a second stream gage along Harris Canyon Creek. The Harris Canyon and San Antonio Creek (at San Antonio Rd) stream gages were put into service in January and March 2023, respectively.

The SABGSA plans to improve the monitoring network through installation of two surface water gages on San Antonio Creek: one upstream and one downstream of the Slough to measure surface water inflow and outflow to the Slough and assess surface water depletion and potential for impacts to the Slough. The SABGSA is working with the USGS and VSFB to continue operation of the San Antonio Creek (at San Antonio Road) and Harris Canyon Creek stream gages following completion of the climate assessment described

<sup>11</sup> DWR provided InSAR and UNAVCO CGPS subsidence data is available at <https://sgma.water.ca.gov/webgis/?appid=SGMADDataViewer#landsub>. (Accessed February 11, 2025.)

<sup>12</sup> InSAR data accurately models vertical displacement in ground surface elevation to an accuracy tested to be 18 millimeters (0.7086 inches or 0.0591 ft) at 95% confidence (Towill, 2023).

<sup>13</sup> Casmalia stream gage data is available at <https://waterdata.usgs.gov/monitoring-location/11136100/#parameterCode=00065&period=P7D>. (Accessed February 11, 2025.)

above. Installation of additional stream gages upstream or downstream of the Slough may not be feasible based on private property access limitations.

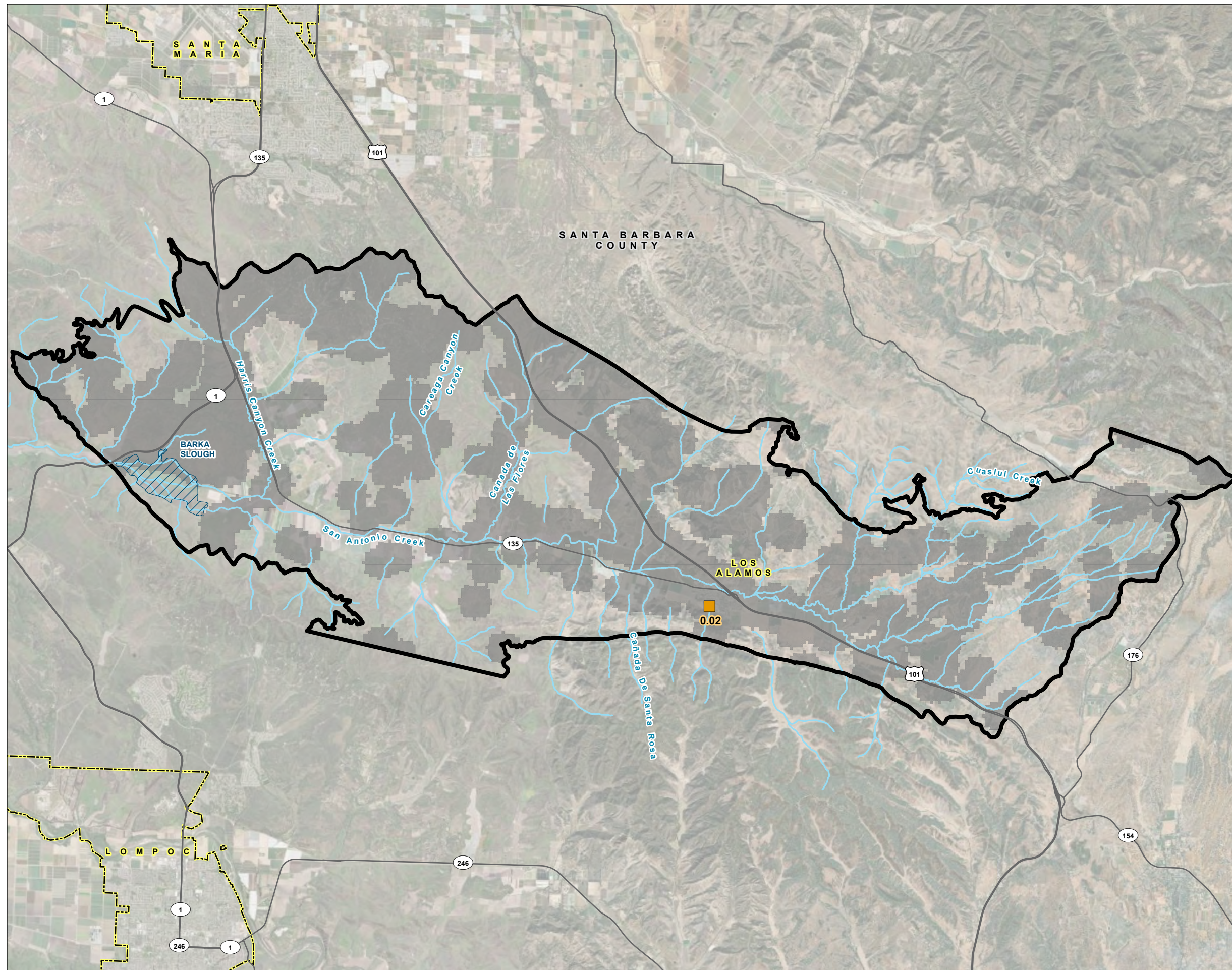
The SABGSA also plans to assess the feasibility of installing shallow piezometers within the sediments underlying the Slough. If achievable, the piezometers will provide important data regarding the elevation of the water table relative to the plant rooting depths in the Slough.

DWR released guidance documents on depletion of interconnected surface water in February and September of 2024. The purpose of the documents is to discuss the technical aspects of interconnected surface water and quantification of depletions of interconnected surface water caused by groundwater pumping. The SABGSA plans to reference these guidance documents during planning and evaluation of identified areas of interconnected surface water within the Basin.



**FIGURE 8**

**InSAR Measured Land Subsidence  
October 2023 to October 2024**  
Groundwater Sustainability Plan  
2024 Annual Report  
San Antonio Creek Valley  
Groundwater Basin



**LEGEND**

UNAVCO CGPS Station ORES  
Vertical Displacement in Feet

**Land Subsidence**

*Vertical Displacement (InSAR)*

-0.0591 - 0.0591 feet

**All Other Features**

San Antonio Creek Valley  
Groundwater Basin

Barka Slough

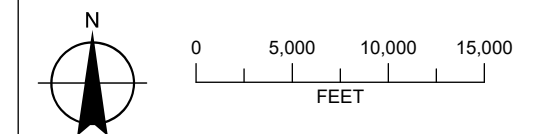
City Boundary

Major Road

San Antonio Creek or Tributary

**NOTE**

InSAR data accurately models vertical displacement in ground surface elevation to an accuracy tested to be 18 mm (0.7086 inches or 0.0591 feet) at 95% confidence (Towill, 2023).

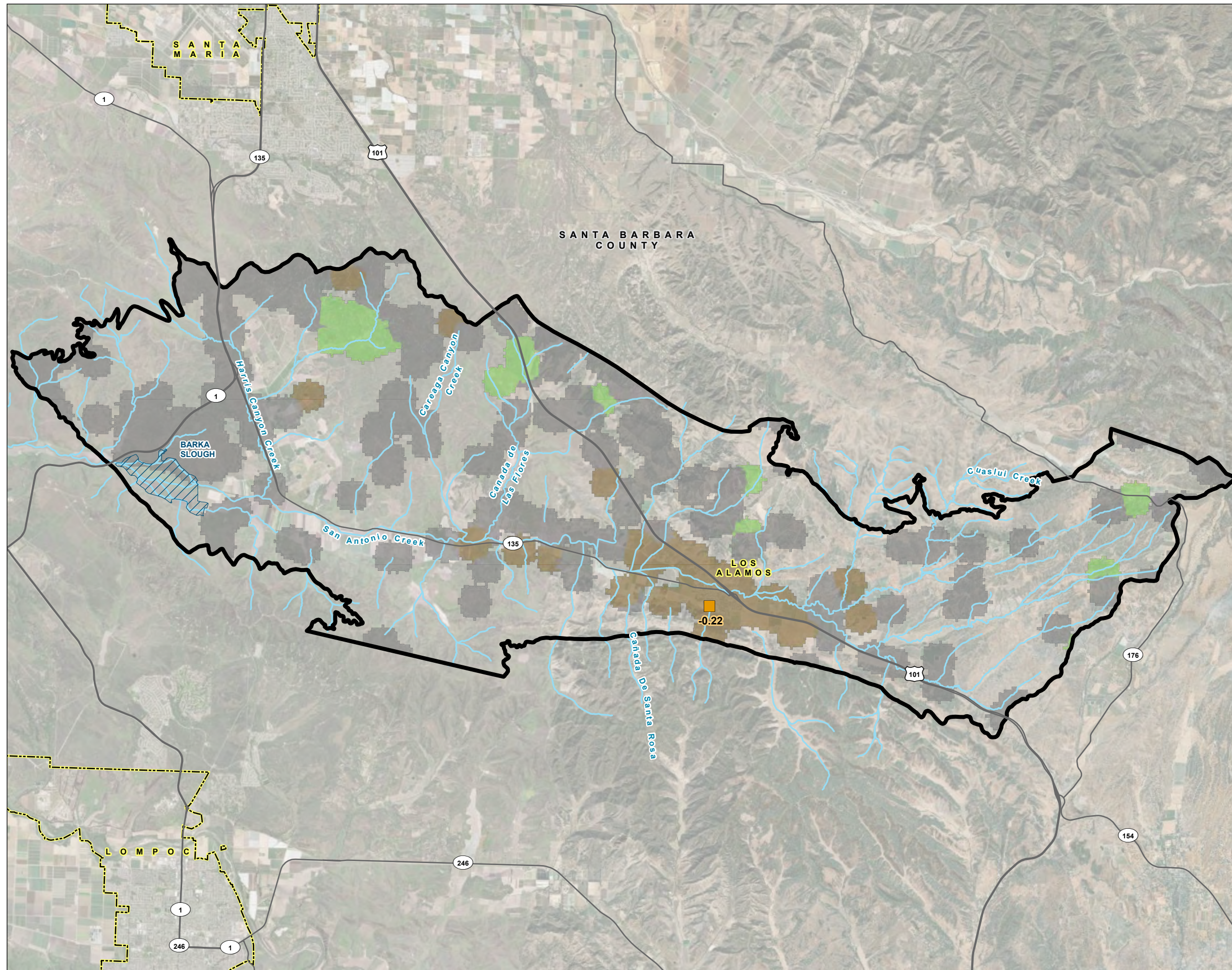


Date: February 12, 2025  
Data Sources: USGS, ESRI, DWR,  
Maxar Imagery (4/10/2024)



**FIGURE 9**

**InSAR Measured Land Subsidence  
June 2016 to October 2024**  
Groundwater Sustainability Plan  
2024 Annual Report  
San Antonio Creek Valley  
Groundwater Basin



**LEGEND**

UNAVCO CGPS Station ORES  
Vertical Displacement in Feet

**Land Subsidence**

*Vertical Displacement (InSAR)*

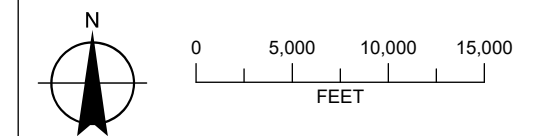
- > 0.0591 to 0.1986 feet
- 0.0591 to 0.0591 feet
- < -0.0591 to -0.2970 feet

**All Other Features**

- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- San Antonio Creek or Tributary

**NOTE**

InSAR data accurately models vertical displacement in ground surface elevation to an accuracy tested to be 18 mm (0.7086 inches or 0.0591 feet) at 95% confidence (Towill, 2023).



Date: February 14, 2025  
Data Sources: USGS, ESRI, DWR,  
Maxar Imagery (4/10/2024)



## SECTION 3: Groundwater Elevations (§ 356.2[b][1])

### 3.1 Introduction

This section provides a description of groundwater elevations in the Basin during water year 2024. This Annual Report presents four groundwater elevation maps—for spring 2024 and fall 2024 for each principal aquifer. These maps present the most up-to-date seasonal conditions in the Basin. The data presented characterizes conditions in the Paso Robles Formation and the Careaga Sand. Monitoring data is reviewed for quality and an appropriate time frame is chosen to provide the highest consistency in the wells used for each reporting period.

Paso Robles Formation groundwater elevation contour maps were generated from a well set located primarily along the axis of the valley, between Los Alamos and the Slough. The Careaga Sand groundwater elevation contours were generated from a well set located within the northern uplands and in the Slough. The SABGSA is working to add additional wells to the Basin groundwater monitoring network through implementation of planned management actions (see Section 6 of GSI and GEI, 2021). Increased data density and spatial coverage will help reduce the degree of uncertainty associated with the generated groundwater elevation contour maps and the calculation of change in groundwater in storage.

As discussed in Section 2, two principal aquifers have been identified in the Basin. The Paso Robles Formation Aquifer is up to 2,000 ft thick and has been divided into three members (unofficial geologic units). The middle member has been identified by the USGS as a confining layer inhibiting vertical flow of groundwater within the Paso Robles Formation (Cromwell et al., 2022). The Careaga Sand Aquifer is up to 1,500 ft thick, underlies the Paso Robles Formation, and consists of two members as defined by the USGS (Cromwell et al., 2022): a fine-grained lower member, Cebada; and a coarse-grained upper member, Graciosa. Geologically, the two members are often mapped together.

### 3.2 Seasonal High and Low (Spring and Fall) (§ 356.2[b][1][A])

The assessment of groundwater elevation conditions in the Basin as described in the GSP is largely based on data from the Basin groundwater level monitoring network and the LACSD. To maintain consistency with the GSP and represent conditions that can be easily compared from year to year, this Annual Report attempts to use the same set of wells as was used in the Basin GSP and the preceding Basin Annual Report to generate groundwater elevation contours. As described in the Basin GSP, 15 wells included in the Basin have been identified as RMSs for the purpose of monitoring sustainability indicators. As implementation of the Basin GSP progresses, additional wells may be added or existing wells may be replaced based on access, location, well construction data, and representative hydrograph signatures, to the Basin groundwater level monitoring network.

In accordance with the SGMA regulations, the following information is presented based on available data:

- Groundwater elevation contour maps for the seasonal high and seasonal low groundwater conditions for the previous water year (Figures 10 through 13).
- A map depicting the change in groundwater elevation for the preceding water year (Figures 15 and 16).
- Hydrographs for RMS and non-RMS wells included in the Basin groundwater level monitoring network (Appendix C).

### 3.2.1 Paso Robles Formation Aquifer Groundwater Elevation Contours

Seasonal high and low groundwater elevation data for the Basin for spring 2024 through fall 2024 for the Paso Robles Formation were contoured to assess spatial variations, yearly fluctuations, trends in groundwater conditions, groundwater flow directions, and horizontal groundwater gradients. Change in groundwater gradients for wells completed above and below the middle Paso Robles Formation confining layer and wells that may reflect more unconfined conditions near the aquifer margins is currently not well understood because of a lack of available information (Cromwell et al., 2022; Woolfenden et al., 2022).<sup>14</sup> Contour maps were prepared for the seasonal high groundwater levels, which typically occur in the spring, and the seasonal low groundwater levels, which typically occur in the fall. In general, the spring groundwater data are collected in March, and the fall groundwater data are collected in September. For consistency with the GSP, best attempts were made to use the same well data sets for contouring.

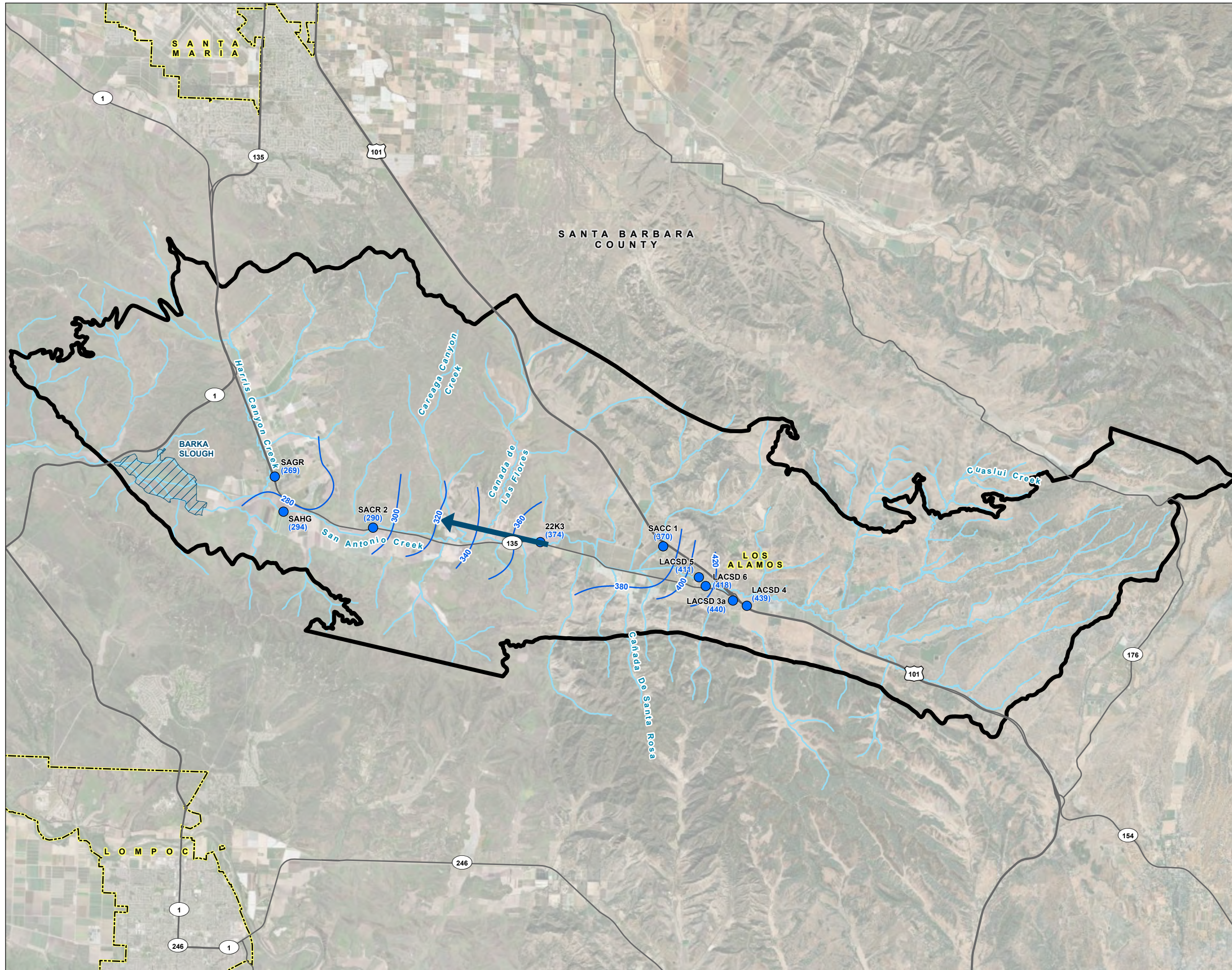
Figures 10 and 11 present contours of groundwater elevations in the Paso Robles Formation for spring 2024 and fall 2024, respectively. Overall, groundwater flow conditions in the Basin in the spring and fall of 2024 were similar, with similar flow directions and hydraulic gradients. Groundwater elevations in the fall were observed to generally be lower than in the spring, a typical seasonal trend for the Basin. Groundwater flow direction in the Basin is generally to the west. Groundwater flow in the Paso Robles Formation tends to converge toward San Antonio Creek, coincident with the axis of the valley and underlying synclinal structure, and ultimately the Slough before discharging from the Basin. Groundwater contours indicate flatter gradients west of Los Alamos (from SACC 1 to 22K3), east of the Slough (from SACR 2 to SAHG), and in Harris Canyon, and steeper gradients immediately west of Los Alamos (from LACSD 3a to SACC 1) and along California State HWY 135 (from 22K3 to SACR 2). The steeper groundwater gradients transitioning to flatter gradients are suspected to be a result of proximal groundwater pumping creating a localized depression in the groundwater surface. The depression can become more pronounced in the dry season during reduced precipitation, streamflow, and increased irrigation, as indicated by the groundwater elevation contours between LACSD 3a and SACC 1 in Figures 10 and 11. The flatter groundwater gradient on the western end of the Basin (i.e., Harris Canyon and the Slough) could be a result of the Basin's geological structure and resulting discharge of groundwater to surface in this area (see Figure 4), groundwater pumping, or a combination of the two. The horizontal groundwater gradient between Los Alamos and the Slough was approximately 0.003 feet per foot (ft/ft) in the spring and fall.

Measured groundwater elevations in the Paso Robles Formation were generally higher during water year 2024 than water year 2023. The higher groundwater elevations are a result of the wet water year type observed during water years 2023 and 2024, and, consequently, a continued reduction in groundwater pumping and above average hydrologic recharge of the aquifer.

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<sup>14</sup> The SABGSA plans to continue to analyze factors such as variable groundwater gradients and locations of more unconfined or confined aquifer conditions through implementation of management actions, review of recently available USGS publications for the Basin (Cromwell et al., 2022; Woolfenden et al., 2022), review and possible implementation of the USGS groundwater numerical model for the Basin, and review of recently published SkyTEM geophysical data for the Basin.

**FIGURE 10**  
**Paso Robles Formation**  
**Groundwater Elevation Contours**  
**Spring 2024**  
 Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



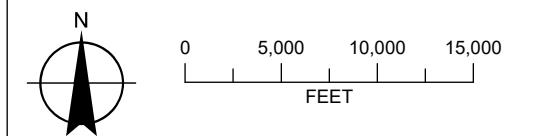
**LEGEND**

- Paso Robles Formation Well  
Groundwater Elevation (NAVD 88)
- ~ Groundwater Elevation Contours, ft NAVD 88
- ➔ General Direction of Groundwater Flow
- All Other Features**
- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- ~ San Antonio Creek or Tributary

**NOTES**

San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

NAVD 88: North American Vertical Datum of 1988

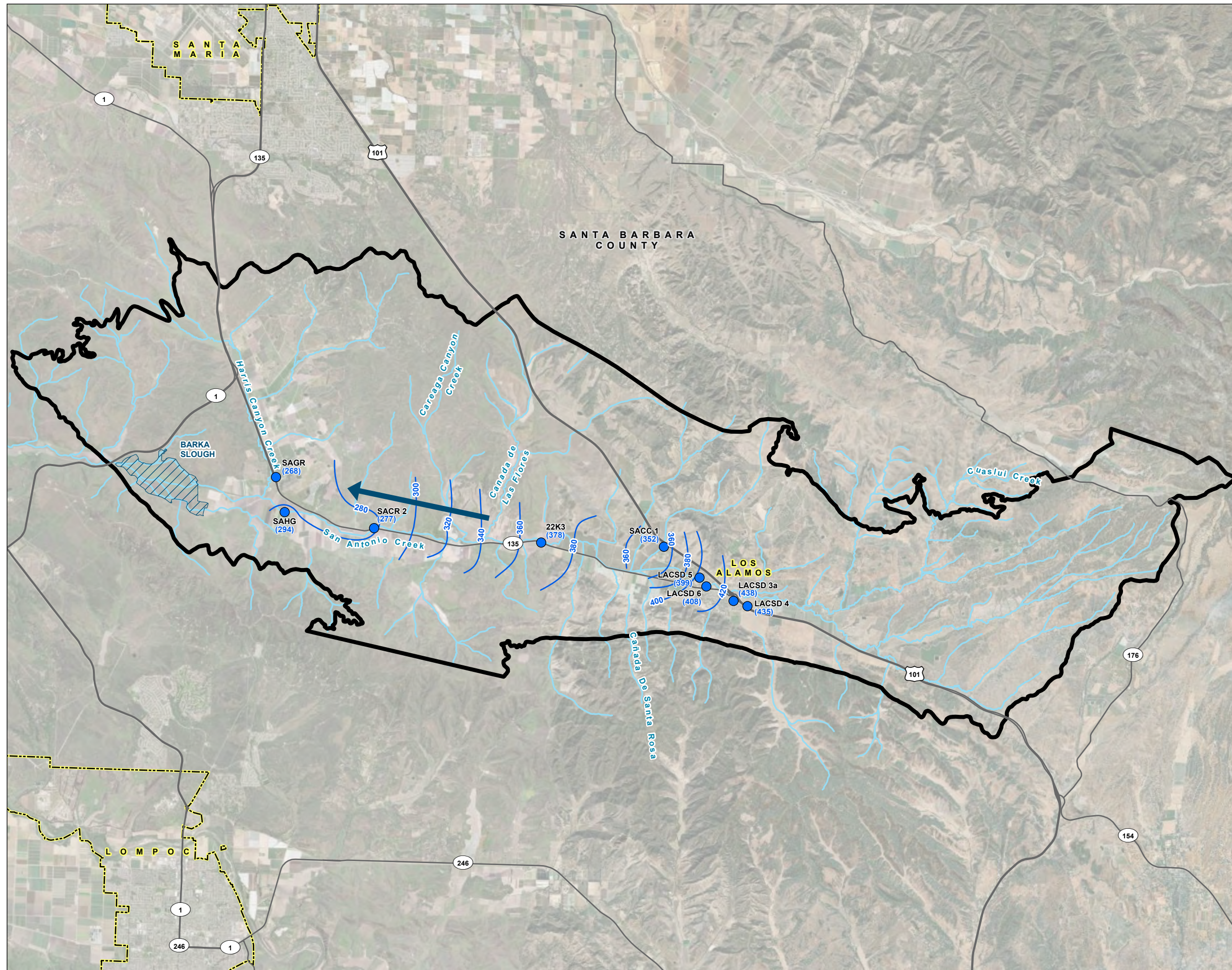


Date: February 12, 2025  
 Data Sources: USGS, ESRI, DWR,  
 Maxar Imagery (4/10/2024)



**FIGURE 11**  
**Paso Robles Formation**  
**Groundwater Elevation Contours**  
**Fall 2024**

Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



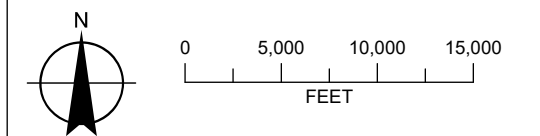
**LEGEND**

- Paso Robles Formation Well  
Groundwater Elevation (NAVD 88)
- Groundwater Elevation Contours, ft NAVD 88
- ➔ General Direction of Groundwater Flow
- All Other Features**
- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- ~ San Antonio Creek or Tributary

**NOTES**

San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

NAVD 88: North American Vertical Datum of 1988



Date: February 12, 2025  
 Data Sources: USGS, ESRI, DWR,  
 Maxar Imagery (4/10/2024)



### 3.2.2 Careaga Sand Aquifer Groundwater Elevation Contours

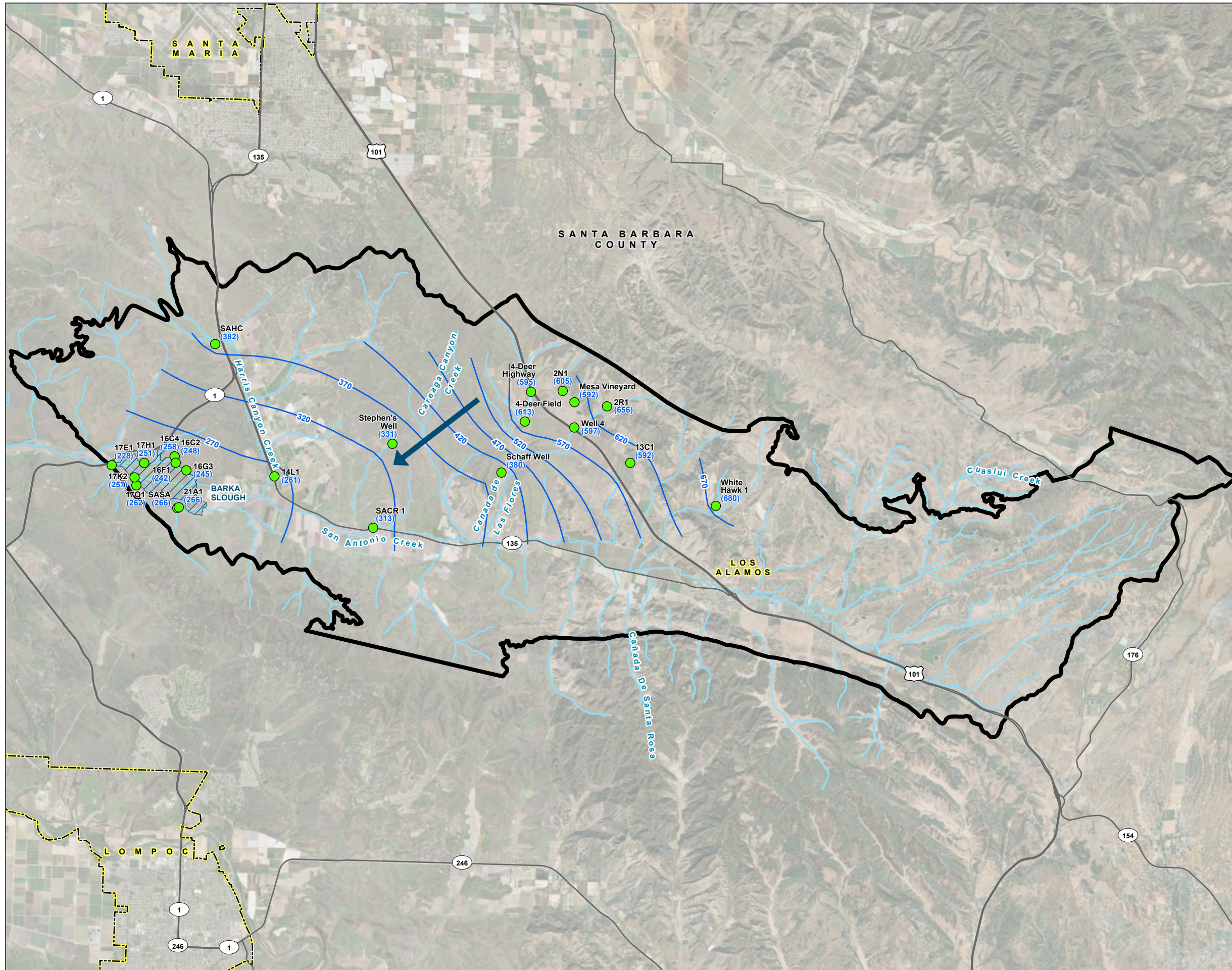
Seasonal high and low groundwater elevation data for the Basin for spring 2024 through fall 2024 for the Careaga Sand were contoured to assess spatial variations, yearly fluctuations, trends in groundwater conditions, groundwater flow directions, and horizontal groundwater gradients. Contour maps were prepared for the seasonal high groundwater levels, which typically occur in the spring, and the seasonal low groundwater levels, which typically occur in the fall. In general, the spring groundwater data are for March and the fall groundwater data are for September. For consistency with the GSP, best attempts were made to use the same well data sets for contouring.

Figures 12 and 13 present contours of groundwater elevations in the Careaga Sand for spring 2024 and fall 2024, respectively. Overall, groundwater flow conditions in the Basin in the spring and fall of 2024 were similar, with similar flow directions and hydraulic gradients. Groundwater elevations in the fall were observed to generally be lower than in the spring, a typical seasonal trend for the Basin. Groundwater flow direction in the Basin is generally to the southwest. Groundwater flow in the Careaga Sand tends to converge toward San Antonio Creek, coincident with the axis of the valley and underlying synclinal structure, and ultimately the Slough before discharging from the Basin. Groundwater contours indicate steep groundwater gradients within Cañada de Las Flores and flatter groundwater gradients between the Slough, SAHC, and Stephen's Well, and east of U.S. HWY 101 (4-Deer Field to 2R1). The steep groundwater gradients are suspected to be controlled by the Basin's geological structure (localized anticlinal structure and confined aquifer conditions [Woodring et al., 1950, Carlson, 2019]). The flatter groundwater gradients may be a result of the Basin's geological structure, groundwater pumping, or a combination of the two. The horizontal groundwater gradient between U.S. HWY 101 northwest of Los Alamos and the Slough was approximately 0.009 ft/ft in the spring and fall.

Measured groundwater elevations in the Careaga Sand were generally consistent between water year 2024 and water year 2023, resulting in little change. Groundwater elevations remained stable as a result of the wet water year type observed during water years 2023 and 2024, and, consequently, a continued reduction in groundwater pumping and above average hydrologic recharge of the aquifer.

**FIGURE 12**  
**Careaga Sand**  
**Groundwater Elevation Contours**  
**Spring 2024**

Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



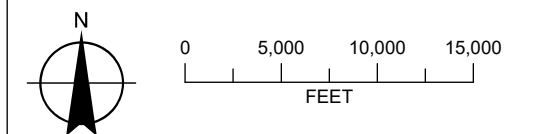
**LEGEND**

- Careaga Sand Well
- Groundwater Elevation (NAVD 88)
- ~ Groundwater Elevation Contours, ft NAVD 88
- ➔ General Direction of Groundwater Flow
- All Other Features**
- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- ~ San Antonio Creek or Tributary

**NOTES**

San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

NAVD 88: North American Vertical Datum of 1988



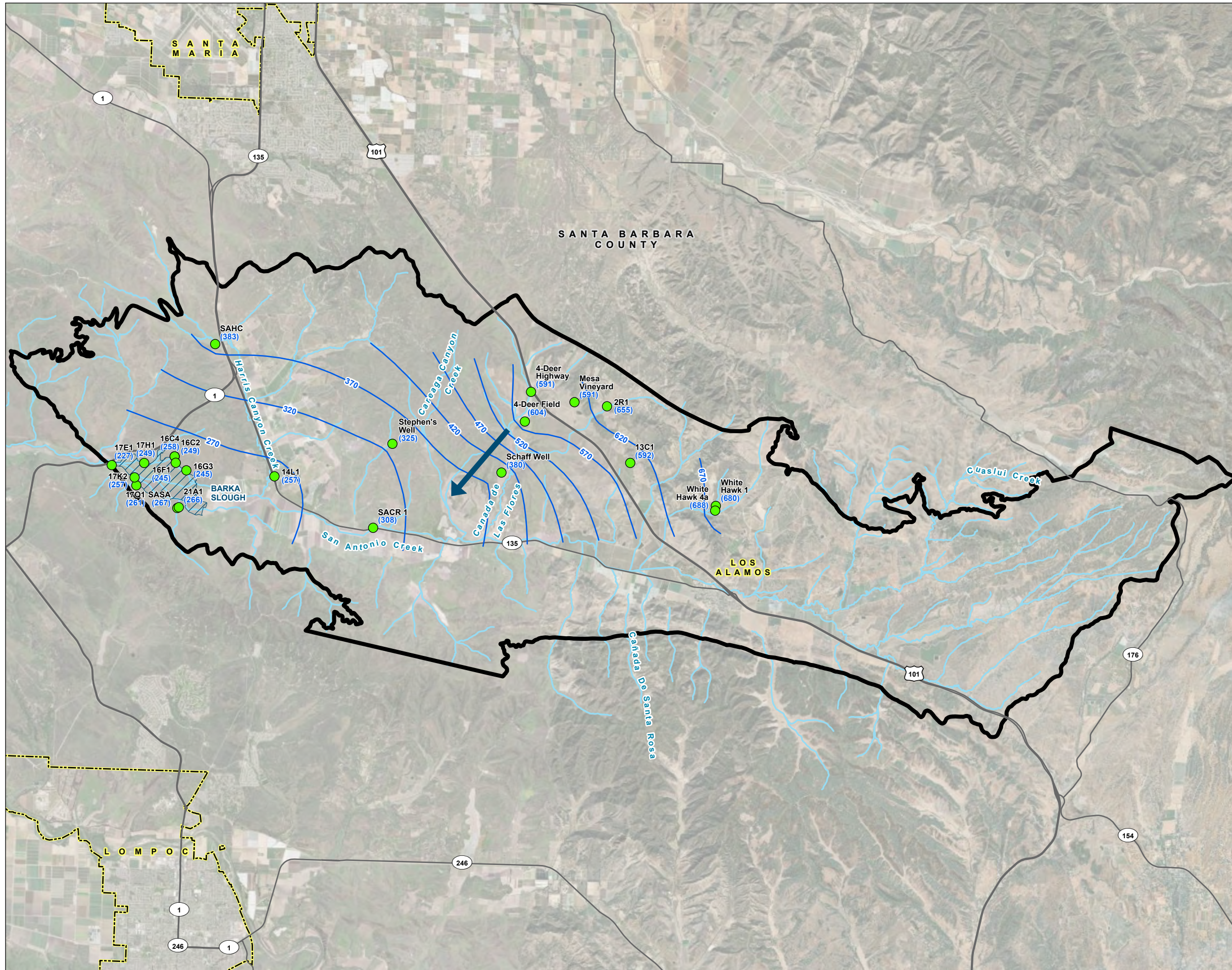
Date: February 12, 2025  
 Data Sources: USGS, ESRI, DWR,  
 Maxar Imagery (4/10/2024)





**FIGURE 13**  
**Careaga Sand**  
**Groundwater Elevation Contours**  
**Fall 2024**

Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



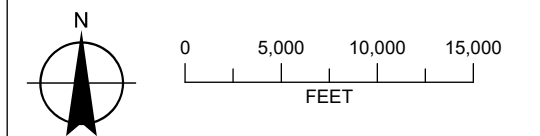
**LEGEND**

- Careaga Sand Well
- Groundwater Elevation (NAVD 88)
- ~ Groundwater Elevation Contours, ft NAVD 88
- ➔ General Direction of Groundwater Flow
- All Other Features**
- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- ~ San Antonio Creek or Tributary

**NOTES**

San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

NAVD 88: North American Vertical Datum of 1988



Date: February 12, 2025  
 Data Sources: USGS, ESRI, DWR,  
 Maxar Imagery (4/10/2024)



### 3.3 Hydrographs (§ 356.2[b][1][B])

Of the 15 RMS hydrographs presented in Appendix C, none of the RMSs exhibit current groundwater elevations below the minimum threshold. Hydrographs for non-RMS wells included in the Basin groundwater level monitoring network are also presented in Appendix C.

Groundwater elevation hydrographs are used to evaluate groundwater conditions over time and trends relative to sustainable management criteria.<sup>15</sup> Changes in groundwater elevation in the Basin can result from many influencing factors. Factors can include changing hydrologic trends, seasonal variations in precipitation, varying basin groundwater extractions, changing inflows and outflows, and influence from localized pumping conditions. Climatic variation can be one of the most significant factors affecting groundwater elevations over time. For this reason, the hydrographs also display DWR (2020) based water year type categorized as wet, above normal, below normal, dry, or critical.

Groundwater elevation hydrographs and associated location map for the RMSs and non-RMS well included in the Basin groundwater level monitoring network are presented in Appendix C. These hydrographs include principal aquifer of completion, available well construction data, as well as measurable objectives and minimum thresholds for each RMS that were developed during the preparation of the GSP. Many of the hydrographs illustrate a condition of declining water levels over the well's period of record, although some hydrographs indicate relative water level stability in the last 5 to 10 years. Groundwater levels in most wells were generally consistent with water levels observed in 2023. Groundwater levels in the LACSD wells and wells on the northeast side of the Slough continued an upward trend that started in 2023. The response in groundwater levels to climatic conditions is generally more rapid and apparent in Paso Robles Formation wells, and more delayed and muted in Careaga Sand wells. Groundwater levels lowered from the seasonal high when dry conditions and regular irrigation returned, consistent with the seasonal trends of higher spring groundwater elevations compared with fall. Of the 11 accessible RMSs, groundwater levels in 10 were measured.<sup>16</sup> Two RMSs were measured above the respective measurable objective during the 2024 water year. No RMS water levels were measured below the respective minimum threshold during the 2024 water year.

Interim milestones for Basin groundwater levels were described in Section 4 of the GSP. Interim milestones demonstrate how the SABGSA may move from current conditions to meeting the measurable objectives in the 20-year GSP implementation horizon. For the Basin, interim milestones are proposed every 5 years, beginning after the GSP was submitted in 2022 and continuing through 2042 (see Table 2). Based on fall 2024 groundwater elevations measured in 10 Basin RMSs, water levels in 8 of the RMSs are above the respective water year 2022 interim milestone.

---

<sup>15</sup> Spring 2015 groundwater levels measured at the RMSs were selected as the measurable objectives, and minimum thresholds are set 25 ft below fall 2018 groundwater levels measured at RMSs (GSI and GEI, 2021).

<sup>16</sup> No water level measurement was collected from well 2M1 due to the risk of the sounder becoming stuck in the well. Historically there have been instances of the sounder becoming stuck in the well during monitoring. Groundwater level monitoring at well 2M1 has been halted pending the installation of a sounding tube. A water level measurement at well 2M1 was last recorded during the 1Q2022 monitoring event. Installation of a sounding tube at 2M1 has been evaluated, however installation costs may preclude completion of the work. Therefore, well 14L1 is being evaluated as a replacement RMS well for 2M1 due to their locations within Harris Canyon, consistent water levels, and water level trends.

**Table 2. Chronic Lowering of Groundwater Levels Interim Milestones for the Paso Robles Formation and the Careaga Sand**

RMS ID <sup>1</sup>	Interim Milestones (feet NAVD 88)					Groundwater Elevation (feet NAVD 88)
	2022	2027	2032	2037	2042 <sup>5</sup>	Fall 2024
<b>Paso Robles Formation</b>						
LACSD 4	434	435	437	438	440	437
30D1 <sup>2</sup>	374	377	381	384	388	—
SACC 1 <sup>3</sup>	358	—	—	—	—	352
22K3 <sup>2</sup>	362	364	366	368	370	378
SALS <sup>3</sup>	420	—	—	—	—	431
20Q2 <sup>2</sup>	322	325	328	332	335	—
SACR 3 <sup>3</sup>	243	—	—	—	—	244
2M1	268	271	276	281	286	—
<b>Careaga Sand</b>						
25D1	661	661	661	661	661	—
13C1	583	586	589	593	597	592
24E1 <sup>2</sup>	252	253	254	255	257	—
SACR 1 <sup>3</sup>	314	—	—	—	—	308
34P1 <sup>4</sup>	386	386	386	386	386	—
SAHC <sup>4</sup>	382	—	—	—	—	383
16G3	249	249	250	250	251	245

**Notes**

<sup>1</sup> Refer to Figure 6 for representative well locations.

<sup>2</sup> Production well proposed to be replaced with subsequent observation well.

<sup>3</sup> Observation well proposed to replace RMS production well. The well was constructed after spring 2015 (measurable objective water levels) and a measurable objective will be selected during the GSP-implementation period.

<sup>4</sup> 34P1 will be removed from the Basin groundwater level monitoring network due to an encountered obstruction or collapse. SAHC is currently being evaluated as a replacement RMS.

<sup>5</sup> Value is equal to the measurable objective at the RMS for the respective sustainability indicator.

— = Value to be selected during the GSP-implementation period or value not applicable due to well access status.

LACSD = Los Alamos Community Services District

NAVD 88 = North American Vertical Datum of 1988

RMS = representative monitoring site

### 3.4 2024 Quarterly Groundwater Level Monitoring

Pursuant to the groundwater leveling monitoring program described in the Basin GSP, quarterly monitoring of the Basin groundwater leveling monitoring network was completed during the 2024 calendar year.

Groundwater level measurements were collected manually on a quarterly basis in 40 of the 41 accessible

wells included in the Basin groundwater level monitoring network.<sup>17</sup> Water level data was collected at more frequent intervals using existing data-recording pressure transducers (transducers) installed in 10 of the 40 wells. Groundwater level data was downloaded from the transducers and calibrated with manual depth to water readings on a quarterly basis.

In August 2024 the SABGSA approved the purchase of five additional transducers to be installed in select Basin monitoring network wells. The transducers were installed during the fourth quarter of 2024, after the completion of the 2024 water year.

Prior to each quarterly monitoring event, well owners are contacted to coordinate access to the wells and request that well owners shut off the well for at least 8 hours before the monitoring event so that a static measurement can be obtained. If access to any of the wells was restricted (e.g., by well owner request, road conditions as a result of weather, or biological concerns), water levels were not measured in affected wells.

At the conclusion of each quarterly monitoring event, a brief technical memorandum was generated that presented an overview of that quarter's monitoring activities and a table of the results of the groundwater level monitoring. The intent of these reports is to regularly update the SABGSA on the status of the monitoring program. Additionally, the quarterly reports memorialize important changes in the monitoring program that may influence data collection and can be reviewed at a later date. The quarterly technical memoranda were provided to SABGSA within two weeks after each monitoring event and provided the following information:

- Summary tables listing measured depth to groundwater and groundwater elevation in each monitoring well,
- Maps of the well locations in the monitoring network, including access status and updates for the addition or removal of wells from the network,
- Summary of noteworthy observations or differences between monitoring events, including but not limited to well access, changes in reference points, equipment repairs/replacements, and challenges associated with data collection, and
- Recommendations for future monitoring events.

### 3.4.1 Data Summary

A discussion of groundwater level data is included in preceding Sections 3.2 and 3.3.

### 3.4.2 Changes to the Monitoring Network, Maintenance, Issues, and Recommendations

A summary of issues encountered, maintenance completed, changes to the Basin groundwater level monitoring network, and recommendations provided during the 2024 calendar year are included below:

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<sup>17</sup> Groundwater levels in RMS 2M1 have not been measured since first quarter of 2022 because of the risk of the water level sounding device becoming stuck in the well. This has occurred on multiple instances in the past. Groundwater level monitoring at well 2M1 has been halted pending the installation of a sounding tube. Installation of a sounding tube at 2M1 has been evaluated, however installation costs may preclude completion of the work. Therefore, well 14L1 is being evaluated as a replacement RMS well for 2M1 due to their locations within Harris Canyon, consistent water levels, and water level trends.

## Issues

Wells with active well access agreements that did not have a groundwater level measurement collected during at least one quarterly monitoring event were 2M1, White Hawk 4a, 2N1, 17K2, Stephen's Well, 34P1, and Well 4.

- The groundwater level monitoring device, or sounder, used to manually measure depth to groundwater has become temporarily stuck in well 2M1 on multiple instances in the past. It is advised that the SABGSA install a sounding tube to avoid the sounder becoming stuck in the well during future monitoring events. Currently, well 2M1 is an RMS in the Basin's groundwater level monitoring network. Groundwater levels in well 2M1 have not been measured since the first quarter of 2022 because of the risk of the sounder becoming stuck in the well. Groundwater level monitoring at well 2M1 is planned to resume pending the installation of a sounding tube. Installation of a sounding tube at 2M1 has been evaluated, however installation costs may preclude completion of the work. Therefore, well 14L1 is being evaluated as a replacement RMS for 2M1 due to their locations within Harris Canyon, consistent water levels, and water level trends.
- White Hawk 4a, the replacement well for the destroyed White Hawk 4, was completed following the 1Q2024 Basin groundwater monitoring event. The SABGSA received a Well Verification Request for the proposed replacement well in July 2023. The SABGSA verified the proposed well was consistent with the SABGSA's Well Verification Policy and confirmed that the existing access agreement allowing access to the previous White Hawk wells extended access to the newly constructed White Hawk 4a well<sup>18</sup>. The first groundwater level measurement from White Hawk 4a was collected during the 2Q2024 Basin groundwater monitoring event.
- At the well owner's request, no groundwater level measurement was collected from well 2N1 during the 2Q2024 and the third quarter of 2024 (3Q2024) Basin groundwater level monitoring event.
- During the 2Q2024 Basin groundwater monitoring event, 17K2 was not monitored because the route leading to the well, located in the Barka slough, was overgrown with vegetation, blocking safe and efficient access to the well. Vegetation trimming of well access trails in the Barka Slough was performed during the 3Q2024 Basin groundwater monitoring event.
- During the 1Q2024 Basin groundwater level monitoring event, Stephen's Well was not monitored because of the well pump being on within 8 hours prior to the groundwater level measurement attempt. A property representative was not available to turn off the well pump. Consequently, the water level in the well was at a pumping level, below historical water levels, and unrepresentative of static Basin conditions.
- During the 1Q2024 Basin groundwater monitoring event, an obstruction or collapse in 34P1 was encountered at an approximate depth of 72 feet below the RPE. An obstruction at the same depth was encountered during subsequent monitoring events. The last groundwater level measurement collected for 34P1 occurred in the fourth quarter of 2023. 34P1 will be removed from the Basin groundwater level monitoring network and a replacement RMS is being evaluated by the SABGSA.
- During the 3Q2024 Basin groundwater monitoring event, an obstruction in Well 4 was encountered at an approximate depth of 104 feet below the RPE. For the 3 quarters preceding 3Q2024 in which water level data was collected at Well 4, depth to water was consistently measured as 122 feet below the RPE each quarter. The obstruction has been brought to the well owner's attention, and an attempt to resolve the issue is underway with monitoring at Well 4 expected to resume in water year 2025.

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<sup>18</sup> The existing access agreement for White Hawk 4a was confirmed in an email thread between GSI and Stephanie Bertoux, Executive Director of the SABGSA, dated June 5, 2024.

## Maintenance

Vegetation along access trails to monitoring wells included in the Basin's groundwater level monitoring network, specifically on VSFB Property near the Slough, had become overgrown and was trimmed in August 2024. During the 2Q2024 Basin groundwater level monitoring event, the vegetation was observed to have grown back impeding access to Basin groundwater monitoring network wells. Vegetation along access trails to ten wells was trimmed during the 3Q2024 Basin groundwater level monitoring event.

## Changes

- A well access agreement was secured by the SABGSA for one additional well (13Q1) in the Basin groundwater level monitoring network. The first groundwater level measurement was collected during the 1Q2024 Basin groundwater level monitoring event.

## Recommendations

- Fifteen wells in the Basin groundwater level monitoring network have RPEs that do not meet accuracy standards based on DWR best management practices.<sup>19</sup> An additional nine wells in the Basin groundwater level monitoring network have no reference elevation data available.<sup>20</sup> Acquiring accurate reference elevations will benefit the Basin and stakeholders by providing more accurate groundwater elevation data which will result in more accurate groundwater elevation contours and change in storage calculations included in annual reports. The SABGSA has budgeted for this scope of work and was included as a component in the SABGSA's application for DWR SGMA Round 2 grant funding.
- Well construction information (total depth and screened intervals) for 24 wells in the Basin groundwater level monitoring network is unknown.<sup>21</sup> Performing well video surveys of wells included in the Basin groundwater level monitoring network with outstanding well construction information will benefit the Basin and stakeholders by enabling development of a more accurate Basin HCM. It is important to note, however, that due to the age of many of the wells included in the Basin groundwater level monitoring network, the results of well video surveys may be inconclusive.
- Continue public outreach to Basin stakeholders to discuss participation in the Basin's groundwater level monitoring network.
- Collaborate with Central Coast Water Quality Preservation, Inc. to request and share existing Irrigated Lands Regulatory Program well information.<sup>22</sup>
- Review SABGSA Well Registration (see Section 2.4.2) data to identify existing candidate wells to incorporate into the Monitoring Network.
- Continue to perform routine vegetation trimming for access routes to all wells located in the Barka Slough area. The SABGSA has budgeted for this scope of work and was included as a component in the SABGSA's application for DWR SGMA Round 2 grant funding.

<sup>19</sup> The SABGSA has been denied access to 2 of the 15 wells and do not have access (neither approved nor denied) to an additional 5 of the 15 wells.

<sup>20</sup> No state well numbers could be identified for the 9 wells. Consequently, no elevation data could be determined through available public databases. Five of the 8 wells are LACSD wells, and an additional 3 of the 8 wells were recently added to the Basin groundwater level monitoring network.

<sup>21</sup> WCRs could not be located for these well using DWR's OSWCR database. Available at: <https://water.ca.gov/Programs/Groundwater-Management/Wells/Well-Completion-Reports>.

<sup>22</sup> Central Coast Water Quality Preservation, Inc. (CCWQP) manages a Cooperative Monitoring Program and reports to the RWQCB on behalf of the California Central Coast grower community.<sup>22</sup> To implement the monitoring requirements, CCWQP works with a team of independent contractors selected through a competitive bidding process to perform field sampling, subcontract with analytical laboratories, and perform data validation and reporting services (CCWQP, n.d.).

## SECTION 4: Groundwater Extractions (§ 356.2[b][2])

### 4.1 Introduction

This section presents the metered and estimated groundwater extractions from the Basin for the 2024 water year. Metered and estimated groundwater extractions from the Basin for the 2018 through 2023 water years are also included for comparison. The types of groundwater extraction described in this section include municipal (Table 3), agricultural (Table 4), and rural domestic (Tables 5 and 6). Each following subsection includes a description of the method of measurement and a qualitative level of accuracy for each estimate. The level of accuracy is rated on a qualitative scale of low, medium, and high. The annual groundwater extraction volumes for all water use sectors are shown in Table 5.

### 4.2 Municipal Metered Well Production Data

The municipal groundwater extractions documented in this report are metered data. Metered groundwater pumping extraction data are from the LACSD and the VSFB, providing service to the community of Los Alamos and the VSFB, respectively. The data shown in Table 3 reflect metered data reported by the respective agencies. The accuracy level rating of these metered data is high.

**Table 3. Municipal Groundwater Extractions**

Water Year	LACSD (AF)	VSFB (AF)	Total (AF)
2018	280	150	430
2019	260	240	500
2020	280	280	560
2021	290	710	1,000
2022	270	2,600	2,870
2023	260	1,450	1,710
2024	270	420	690

#### Notes

Gray shading indicates a water year included in the historical water budget.

AF = acre-feet

LACSD = Los Alamos Community Services District

VSFB = Vandenberg Space Force Base

### 4.3 Estimate of Agricultural Extraction

Agricultural water use constituted 94 percent of the total groundwater pumping in the Basin in water year 2024. Groundwater extraction for agricultural irrigation was estimated using a combination of two methodologies for water year 2024:

1. Using Santa Ynez River Valley Water District (SYRWD) **crop-specific water use factors** (SYRWCD, 2010; revised by growers in the Basin).
2. Using a **satellite-based method** that measures actual ET at the field level.

Currently, no public annual land use surveys are available for the Basin. A company called Land IQ provides Statewide Crop Mapping for DWR; however, the availability of these data has not been current (as of this writing, the most recent available land use spatial data set is for water year 2023). Consequently, for water year 2024, Land IQ was contracted to provide this service<sup>23</sup> using satellite imagery at a basin scale to improve the accuracy of the agricultural water use estimates and to accurately account for changes in crop categories, distribution, and acreages within the Basin.

Both methods of estimation use a water year 2024-specific land use dataset purchased from Land IQ. The Land IQ dataset encompasses actual planted acreage, and crop types and acreages are verified on the ground. Although not a significant factor in the Basin, the Land IQ dataset also documents multi-cropping that occurs throughout the growing season.

To estimate agricultural groundwater extraction, water year 2024 specific land use data from Land IQ was used in conjunction with the OpenET ensemble model.<sup>24</sup> OpenET provides satellite-based estimates of the total amount of water that is transferred from the land surface to the atmosphere through the process of ET. The OpenET ensemble model uses Landsat satellite data to produce ET data at a spatial resolution of 30 meters by 30 meters (0.22 acres per pixel). Additional inputs include gridded weather variables such as solar radiation, air temperature, humidity, wind speed, and precipitation (OpenET, 2024). OpenET provides estimates of ET for the entire land surface, or in other words, “wall to wall.” To produce an estimate of ET specific to the irrigated crop acreage in the Basin the OpenET ensemble model results are screened by the Land IQ land use data set, thereby removing any potential estimated ET volumes associated with bare ground, non-irrigated crops, or native vegetation.

A total of 22 irrigated crop types were identified in the water year 2024 Land IQ spatial dataset. These 22 crop types have been grouped into seven basic crop groups: vineyard, field crops, truck and berry crops, tree crops, pasture, nursery, and greenhouse (see Figure 14). A summary of acreage by crop type is presented in Table 4. Irrigated agricultural crop types were identified by inspection of monthly ET for each mapped crop type versus monthly ET for fallow ground. Essentially, crop types were considered irrigated if monthly ET remained high throughout the latter part of the growing season as opposed to the diminishing monthly ET following the rainy season on fallow ground. ET resulting from effective precipitation,<sup>25</sup> rather than applied irrigation water, were removed from the analysis. Applied irrigation volumes are estimated by scaling up the estimated irrigated crop ET volumes using assumed crop specific irrigation efficiency factors.<sup>26</sup> The resulting volumes are summed by water year, which then represent estimated annual agricultural groundwater extraction. Deficit irrigation is captured in the satellite-based method through the measurement of actual ET. Groundwater extractions for frost protection are captured to the extent that the produced water results in

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<sup>23</sup> Land IQ can classify all agriculture in the Basin within 97 percent accuracy with clean topology and Multi-cropping attributes.

<sup>24</sup> OpenET uses reference ET data calculated using the American Society of Civil Engineers (ASCE) Standardized Penman-Monteith equation for a grass reference surface, and usually notated as ‘ET<sub>o</sub>’. For California, OpenET uses Spatial CIMIS meteorological datasets generated by DWR to compute ASCE grass reference ET. OpenET provides ET data from multiple satellite-driven models, and also calculates a single “ensemble value” from those models. The models currently included are ALEXI/DisALEXI, eeMETRIC, geeSEBAL, PT-JPL, SIMS, and SSEBop. More information about these models can be found at: <https://openetdata.org/methodologies/>. All of the models included in the OpenET ensemble have been used by government agencies with responsibility for water use reporting and management in the western U.S., and some models are widely used internationally (OpenET, 2023).

<sup>25</sup> Effective precipitation (the portion of rainfall that remains available to crops after runoff, evaporation, and deep percolation are removed) was calculated monthly for each field based on gridded precipitation values from gridMET using analytical formulas presented in the Food and Agriculture Organization (FAO) (1989). gridMET is a public domain dataset of daily high-spatial resolution (~4-km, 1/24th degree) surface meteorological data covering the contiguous United States from 1979-yesterday. The dataset is available through OpenET. The methodology behind gridMET is described in Abatzoglou (2013).

<sup>26</sup> Irrigation efficiencies were assigned based on FAO (1989) and Martin (2011). Vineyard, the dominant crop in the Basin was assigned an irrigation efficiency of 90 percent.



increased ET. It is assumed that the remainder of the water produced for frost protection remains within the Basin and percolates back to groundwater.

**Table 4. Water Year 2024 Irrigated Acres by Basic Crop Group**

Basic Crop Group	Irrigated Acreage
Vineyard	6,145
Field Crops	90
Truck and Berry Crops	3,830
Tree Crops	302
Pasture	151
Nursery	482
Greenhouse	26
Total	11,026

**Note**

Basic Crop Group and Irrigated Acreage based on Land IQ (2024).

Agricultural groundwater extraction estimates for irrigated acreage categorized as greenhouse in water year 2024 specific land use data from Land IQ was calculated using crop-specific water use factors rather than the satellite-based method described above. The difference in methodology for the greenhouse crop type is because of the increased error of measuring the ET of covered crops. Greenhouse water use was calculated using DWR ET zones (DWR, n.d.) and SYRWCD crop-specific water use factors (SYRWCD, 2010; revised by growers in the Basin).<sup>27</sup>

The Basin Annual Report for water year 2022 (GSI, 2023a) included estimates of groundwater extraction for agricultural irrigation in water year 2022 from the crop-specific water use factors and the satellite-based method. The similarity in results between the methods demonstrated the utility of the satellite-based method. The satellite-based method is considered more accurate because it directly measures actual ET as it varies spatially and temporally throughout the Basin and throughout the year, thereby capturing nuances in crop irrigation practices, such as deficit irrigation. The similarity in results between the methods also indicates the determined crop-specific water use factors are representative of the Basin at a basin scale; however, the accuracy of the agricultural extraction calculation using this method can only be implemented with an accurate land use dataset. The crop-specific water use factors method is a more limited approach that does not capture ET variability in the Basin and does not fully capture the actual climatic variability or nuanced crop irrigation practices that may occur each year. Based on the similarity in results and the stated benefits of the satellite-based method, the SABGSA has adopted the satellite-based method for estimating groundwater extractions for irrigated agriculture. The resulting estimated groundwater extractions for agricultural demands are summarized in Table 4. The accuracy level rating of this satellite-based method estimated volume is medium-high. A comparison of the previously reported crop-specific water use factors based results versus the satellite-based method results is presented in Table 5. Total irrigated acreage and water year type for each year are included for reference.

**Table 5. Agricultural Irrigation Groundwater Extractions**

<sup>27</sup> Crop-specific water use factors were calculated by evapotranspiration zones 3 and 6 and are according to SYRWCD (2010) and the basin stakeholders (except for cannabis/hemp, which are from Battany, 2019).

Water Year	Agricultural Demand (AF)		Irrigated Acres <sup>2</sup>	Water Year Type
	Crop Water Duty Factors	Satellite-Based Method <sup>1</sup>		
2018 <sup>3</sup>	21,200	—	—	Below Normal
2019	21,300	—	—	Above Normal
2020	21,900	—	—	Above Normal
2021	21,400	—	—	Critical
2022	<del>18,800</del>	19,200	10,947	Critical
2023	—	13,400	11,390	Wet
2024	—	13,100	11,026	Wet

**Notes**

<sup>1</sup>Satellite-based method using Food and Agriculture Organization (FAO) (1989) based calculation of effective precipitation.

<sup>2</sup> Irrigated acreage based on water year specific land use data from Land IQ (2024).

<sup>3</sup> Water year’s historical water budget agricultural pumping volume was revised based on updated data.

Gray shading indicates a water year included in the historical water budget.

Gray strikethrough text indicates value not used.

— = not calculated

AF = acre-feet

## 4.4 Rural Domestic Extraction

Rural domestic pumping is all domestic pumping that occurs outside of LACSD. Rural domestic pumping was calculated by conducting an aerial photo survey to identify land parcels with home sites in the area outside the LACSD service area in 2018. The 2018 domestic demand for each of these land parcels was calculated using variable demand factors based on parcel acreage, as specified in Tetra Tech (2010) (see Table 6). The calculated 2018 rural domestic demand was then scaled through time using a compilation of census data for nearby communities.

**Table 6. Rural Domestic Demand Factors Based on Lot Size**

Lot Size (acres)	Annual Water Use (AFY per lot)
0.16	0.14
0.5	0.52
1	0.82
5	0.98
10	1.15

**Notes**

Source: Tetra Tech, 2010

AFY = acre-feet per year

Rural domestic demand was estimated based on an aerial photo survey, published estimated water demand based on parcel size, and census data. Consequently, the uncertainty of these calculations is considered medium to low. Calculated rural domestic groundwater demand for water years 2018 to 2024 is included in Table 7.

**Table 7. Rural Domestic Groundwater Extractions**

Water Year	Rural Domestic (AF)
2018	170
2019	170
2020	170
2021	170
2022	170
2023	180
2024	180

**Notes**

Gray shading indicates a water year included in the historical water budget.

AF = acre-feet

## 4.5 Total Groundwater Extraction Summary

Total groundwater extractions in the Basin for water year 2024 is 14,000 acre-feet (AF). Table 8 summarizes the total water use by sector and indicates the method of measure and associated level of accuracy. Land IQ land use spatial data for water year 2024, OpenET ET data for estimated agricultural groundwater extractions (see Section 4.3), and metered pumping from the LACSD and VSFB were used to represent general location and volume of groundwater extractions across the Basin in terms of acre-feet per year (AFY) by water year (see Figure 14).

**Table 8. Total Groundwater Extractions by Water Use Sector**

Water Year	LACSD (AF)	VSFB (AF)	Rural Domestic (AF)	Agricultural (AF)	Total (AF)
2018 <sup>1</sup>	280	150	170	21,200	21,800
2019	260	240	170	21,300	22,000
2020	280	280	170	21,900	22,600
2021	290	710	170	21,400	22,600
2022	270	2,600	170	19,200	22,200
2023	260	1,450	180	13,400	15,300
2024	270	420	180	13,100 <sup>2</sup>	14,000
Method of Measure	Metered	Metered	Aerial Photo Survey	Satellite-Based Land Use Survey and ET Calculations	—
Level of Accuracy	High	High	Medium/Low	Medium/High	—

**Notes**

<sup>1</sup> The 2018 water year’s historical water budget agricultural pumping volume was revised based on updated data.

<sup>2</sup> The identified “Method of Measure” and “Level of Accuracy” for “Agricultural” total groundwater extractions pertain to water year 2024 only.

Gray shading indicates a water year included in the historical water budget.

— = not applicable

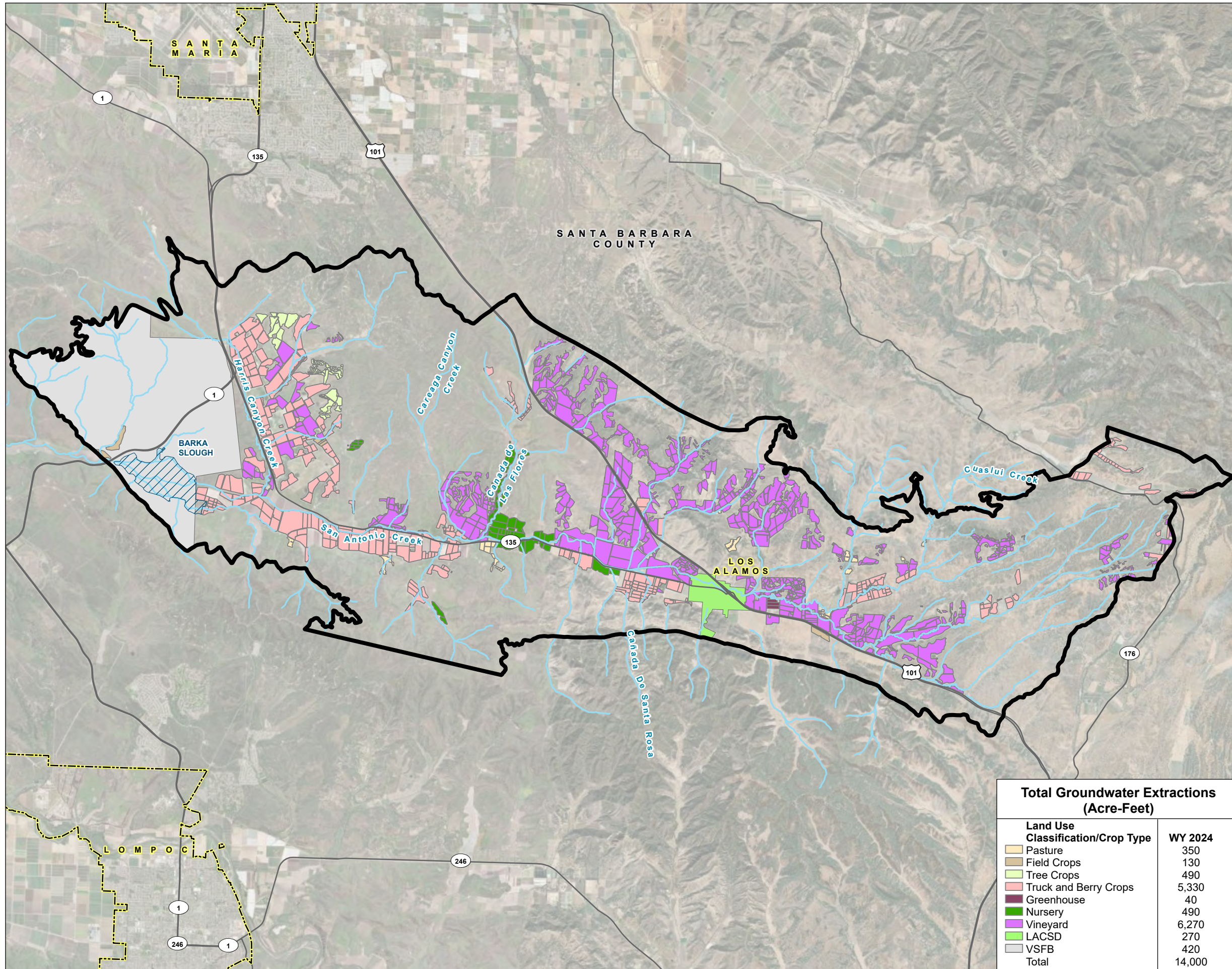
AF = acre-feet

ET = evapotranspiration

LACSD = Los Alamos Community Services District

VSFB = Vandenberg Space Force Base

**FIGURE 14**  
**General Location and Volumes**  
**of Groundwater Extractions**  
 Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



**LEGEND**

**Land Use Classification/Crop Type**

- Pasture
- Field Crops
- Tree Crops
- Truck and Berry Crops
- Greenhouse
- Nursery
- Vineyard
- Los Alamos Community Services District (LACSD)
- Vandenberg Space Force Base (VSFB)

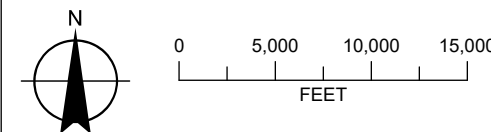
**All Other Features**

- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- San Antonio Creek or Tributary

**NOTES**  
 San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

Land Use Classification / Crop Type as defined in Land IQ, 2024 and SYRWCD, 2010.

AFY: Acre-Feet Per Year  
 WY: Water Year



Total Groundwater Extractions (Acre-Feet)	
Land Use Classification/Crop Type	WY 2024
Pasture	350
Field Crops	130
Tree Crops	490
Truck and Berry Crops	5,330
Greenhouse	40
Nursery	490
Vineyard	6,270
LACSD	270
VSFB	420
<b>Total</b>	<b>14,000</b>

## SECTION 5: Surface Water Use (§ 356.2[b][3])

The Basin does not receive imported water from the California State Water Project (SWP), nor does it receive reservoir releases into streams and rivers that enter the Basin from the surrounding watershed. Consequently, surface water use is not applicable to the Basin.

## SECTION 6: Change in Groundwater in Storage (§ 356.2[b][5])

### 6.1 Annual Changes in Groundwater Elevation (§ 356.2[b][5][A])

Annual changes in groundwater elevation in the Paso Robles Formation and Careaga Sand for water year 2024 were derived from comparison of fall groundwater elevation contour maps from water year 2023 to water year 2024. Specifically, the fall 2024 groundwater elevations for the Paso Robles Formation (see Figure 11) were subtracted from the fall 2023 groundwater elevations for the Paso Robles Formation resulting in a map depicting the changes in groundwater elevations in the Paso Robles Formation that occurred during the 2024 water year (see Figure 15). The same was completed for the Careaga Sand.

Paso Robles Formation groundwater elevation contour maps were generated from a well set located primarily along the axis of the valley, between Los Alamos and the Slough. The Careaga Sand groundwater elevation contours were generated from a well set located within the northern uplands and in the Slough. The SABGSA is working to add additional wells to the Basin groundwater monitoring network through implementation of planned management actions (see Section 6 of GSI and GEI, 2021). Increased data density and spatial coverage will help reduce the degree of uncertainty associated with the generated groundwater elevation contour maps and the calculation of change in groundwater in storage.

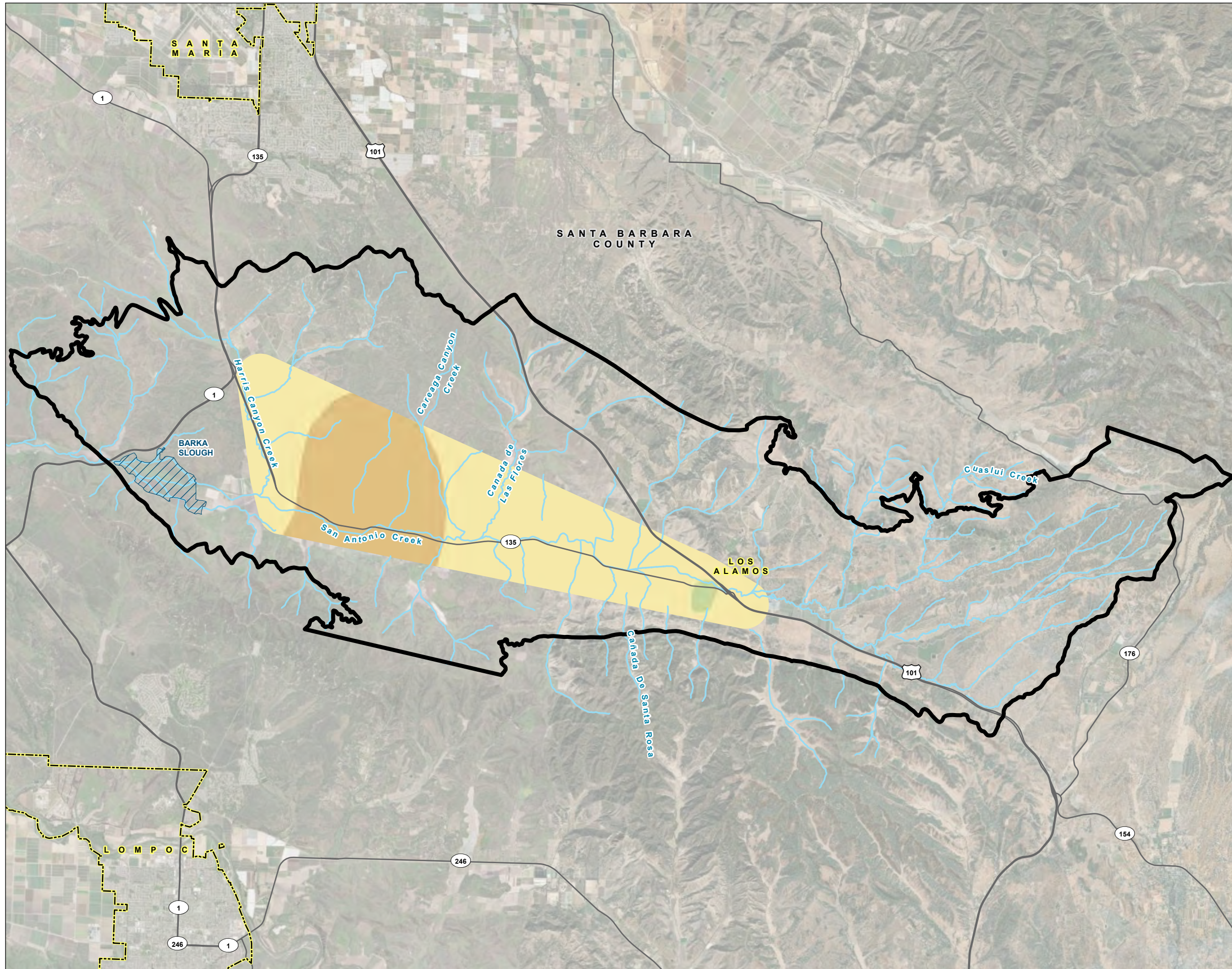
The Paso Robles Formation change in groundwater elevation map for water year 2024 (see Figure ES-2), a wet precipitation year, indicates that groundwater levels generally increased by 0 to 10 feet (ft) from Los Alamos to Cañada de Las Flores, and Harris Canyon. Groundwater elevations in the west-southwest side of Los Alamos increased up to 10 to 20 ft. Groundwater elevations west of Cañada de Las Flores and east of Harris Canyon decreased by 0 to 10 ft.

The Careaga Sand change in groundwater elevation map for water year 2024 (see Figure ES-3), a wet precipitation year, indicates that groundwater levels generally increased by 0 to 10 ft northwest of Los Alamos, around the Slough, and Harris Canyon. Groundwater elevations in Cañada de Las Flores, its tributaries, and to east of Harris Canyon decreased 0 to 10 ft.

**FIGURE 15**

**Paso Robles Formation  
Annual Change in  
Groundwater Elevation  
Fall 2023 to Fall 2024**

Groundwater Sustainability Plan  
2024 Annual Report  
San Antonio Creek Valley  
Groundwater Basin



**LEGEND**

**Change in Groundwater Elevation (feet NAVD 88)<sup>1</sup>**

- 10 to 20
- 0 to 10
- 10 to 0

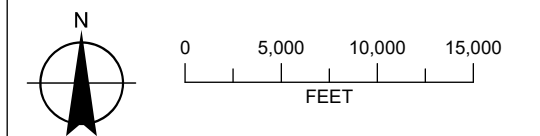
**All Other Features**

- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- San Antonio Creek or Tributary

**NOTES**

1. The change in groundwater elevation extents are bound by the lateral limits of the subject aquifer (see Figure 2) and available groundwater elevation data.
2. San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

NAVD 88: North American Vertical Datum of 1988



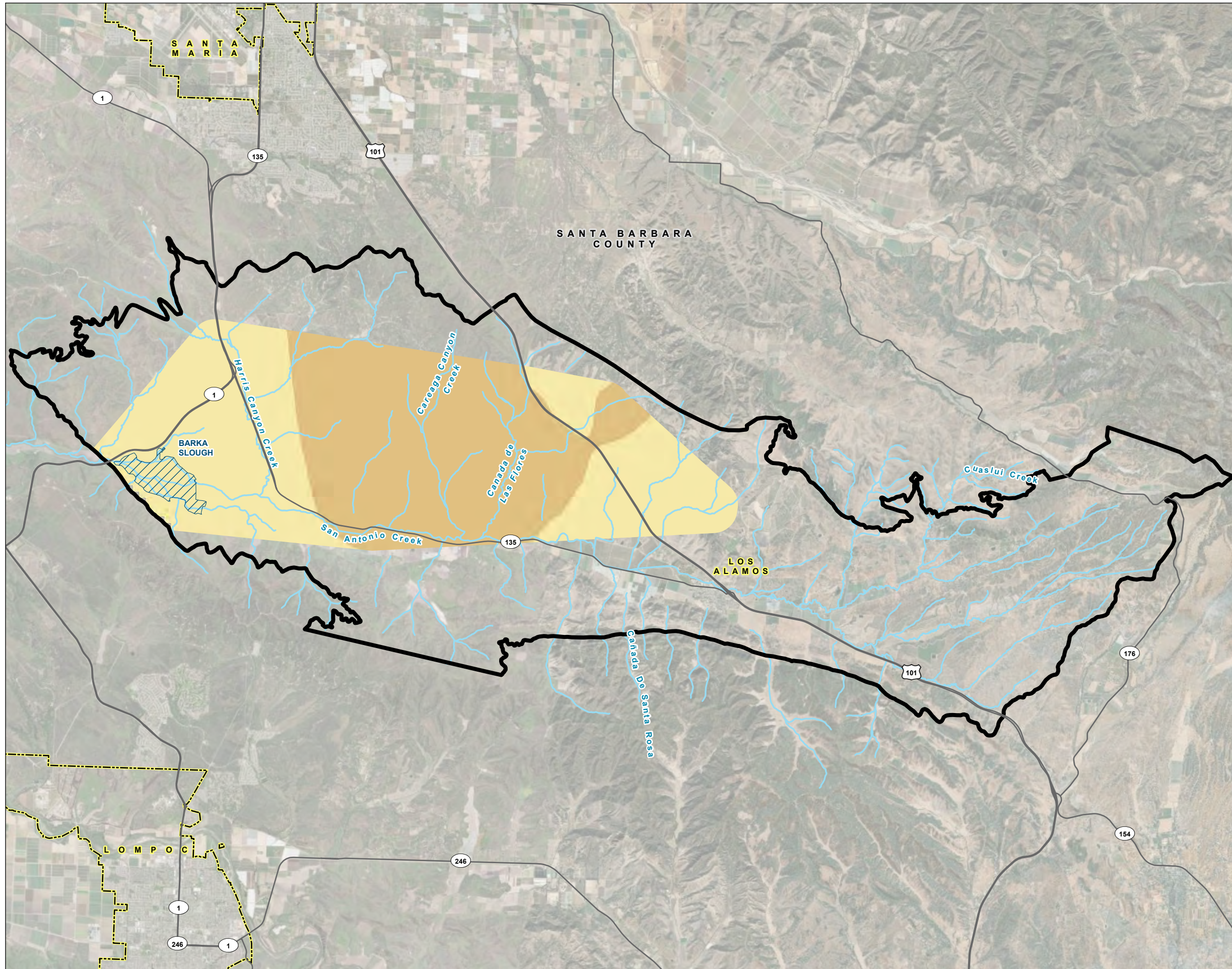
Date: February 12, 2025  
Data Sources: USGS, ESRI, DWR,  
Maxar Imagery (4/10/2024)





**FIGURE 16**  
**Careaga Sand**  
**Annual Change in**  
**Groundwater Elevation**  
**Fall 2023 to Fall 2024**

Groundwater Sustainability Plan  
 2024 Annual Report  
 San Antonio Creek Valley  
 Groundwater Basin



**LEGEND**

**Change in Groundwater Elevation (feet NAVD 88)<sup>1</sup>**

- 0 to 10
- 10 to 0

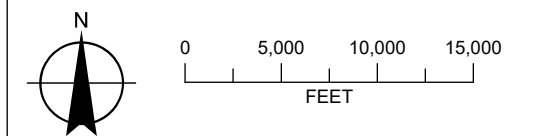
**All Other Features**

- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- San Antonio Creek or Tributary

**NOTES**

1. The change in groundwater elevation extents are bound by the lateral limits of the subject aquifer (see Figure 2) and available groundwater elevation data.
2. San Antonio Creek Valley Groundwater Basin Boundary as defined in the California Department of Water Resources Bulletin 118.

NAVD 88: North American Vertical Datum of 1988



Date: February 12, 2025  
 Data Sources: USGS, ESRI, DWR,  
 Maxar Imagery (4/10/2024)



## 6.2 Annual and Cumulative Change in Groundwater in Storage Calculations (§ 356.2[b][5][B])

The groundwater elevation change maps (Figures 15 and 16) represent a volume change within the Paso Robles Formation and Careaga Sand during water year 2024. The volume change depicted on each map represents a total volume, including the volume of the aquifer material and the volume of groundwater stored within the void space of the aquifer. The portion of void space in the aquifer that can be utilized for groundwater storage is represented by the aquifer storage coefficient (S). Storage coefficient is a unitless factor that is multiplied by the total volume change between water years to derive the change in groundwater in storage. Based on work completed for the GSP (GSI and GEI, 2021) and Martin, 1985, S is estimated to be 0.15 for the Paso Robles Formation and 0.001 for the confined portion (the Slough area) of the Careaga Sand. The annual changes of groundwater in storage calculated for water years 2015 through 2024 are presented in Table 9. Annual and cumulative change in groundwater in storage since 1981 are presented on Figure 17.

**Table 9. Annual Changes in Groundwater in Storage**

Water Year	Paso Robles Formation (AF)	Careaga Sand (AF)	Total Annual Change in Groundwater in Storage <sup>1</sup> (AF)
2015	—	—	-26,400
2016	—	—	-23,600
2017	—	—	-2,900
2018	—	—	-23,700
2019	-15,400	-370	-15,800
2020	-18,800	-410	-19,200
2021	-20,500	-540	-21,000
2022	-14,900	-200	-15,100
2023	19,600	10	19,600
2024	4,500	-5	4,500
Cumulative Change in Groundwater in Storage <sup>1</sup>	-45,500	-1,500	-123,600

### Notes

<sup>1</sup> As a result of rounding, totals do not correspond to the sum of all figures shown.

Gray shading indicates a water year included in the historical water budget. A total annual change in groundwater in storage was calculated for the Basin during development of the Basin GSP per SGMA regulations.

— = not calculated

AF = acre-feet

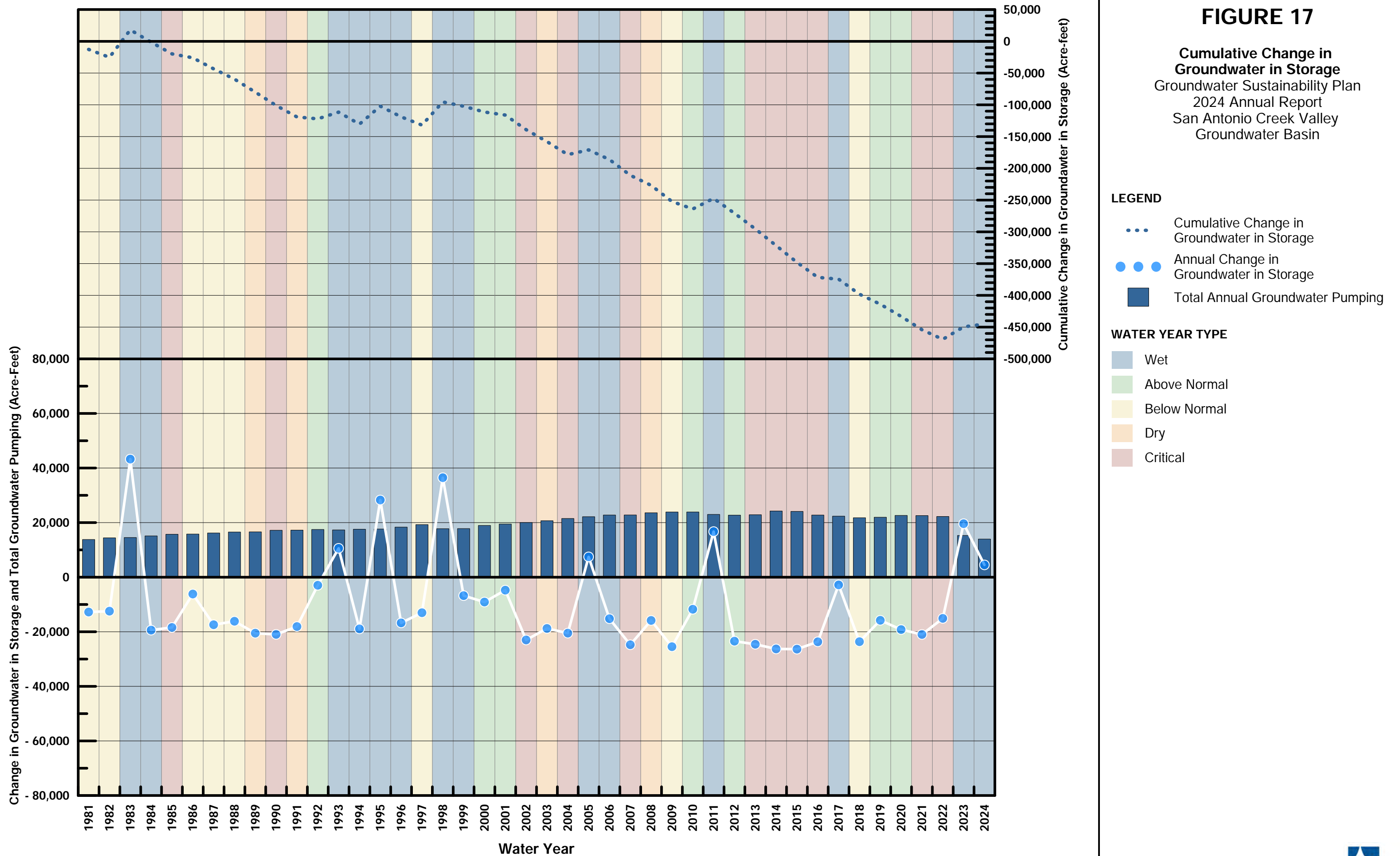
Basin = San Antonio Creek Valley Groundwater Basin

GSP = Groundwater Sustainability Plan

SGMA = Sustainable Groundwater Management Act

**FIGURE 17**

**Cumulative Change in Groundwater in Storage**  
Groundwater Sustainability Plan  
2024 Annual Report  
San Antonio Creek Valley  
Groundwater Basin



## SECTION 7: Progress Toward Basin Sustainability (§ 356.2[c])

### 7.1 Introduction

This section summarizes several management actions that are in the process of being implemented in the Basin to avoid undesirable results and to attain sustainability. This section also provides a brief discussion of land subsidence, potential depletion of interconnected surface waters, and groundwater quality trends that have occurred during water year 2024.

### 7.2 Tier 1 Management Actions

Tier 1 management actions are described in the GSP (GSI and GEI, 2021) and include:

- Address Data Gaps
  - Expand Monitoring Well Network in the Basin to Increase Spatial Coverage and Well Density
  - Perform Reference Point Elevation and Video Surveys in Representative Wells That Currently Do Not Have Adequate Construction Records to Confirm Well Construction
  - Install Stream Gages and Shallow Piezometers at Barka Slough
  - LACSD Wellfield Pumping Coordination/Offsite Well Impact Mitigation
  - Review/Update Water Usage Factors and Crop Acreages and Update Water Budget
  - Survey and Investigate Potential Groundwater-Dependent Ecosystems (GDEs) in the Basin
  - Review USGS Groundwater Model/Update HCM
- Groundwater Pumping Fee Program
- Well Registration Program and Well Meter Installation Program
- Water Use Efficiency Programs

The SABGSA member agencies committed to initiate work on Tier 1 management actions within 1 year of GSP adoption. These management actions are focused primarily on filling identified data gaps, developing funding for SABGSA operations and future basin monitoring, registering and metering wells, and developing new and expanding existing water use efficiency programs for implementation within the Basin.

The SABGSA member agencies will monitor the effectiveness of these Tier 1 management actions on an annual basis to determine if they will be sufficient to achieve groundwater basin sustainability. The overall effectiveness of individual management actions will also be evaluated annually to determine if continued investment in those actions is warranted or if other actions should be considered.

### 7.3 Management Action Implementation Approach

Using authorities outlined in §§ 10725 to 10726.9 of the California Water Code, the SABGSA will ensure the maximum degree of local control and flexibility consistent with the GSP to commence management actions. The effect of the management actions will be reviewed annually, and additional higher tiered management actions and priority projects will be implemented as necessary to avoid undesirable results.

In general, basin-wide management actions will apply to all areas within the Basin and reflect basic GSP implementation requirements, such as extraction measurement, monitoring, reporting and outreach, necessary studies and early planning work, and filling data gaps, Annual Reports and GSP updates, and implementing an allocation program that includes limitations on groundwater pumping aimed at both keeping groundwater levels stable and avoiding undesirable results. The SABGSA anticipates that new policies, ordinances, and regulations will be required in advance of the implementation of some of the planned management actions. Public meetings and hearings will be held during the process of determining

when and where in the basin management actions and priority projects are to be implemented to maximize benefits to the Basin. Some of these may require California Environmental Quality Act compliance and legal support and guidance. A proportional and equitable approach to funding implementation of the GSP and any optional actions will be developed in accordance with all State laws and applicable public process requirements. During these meetings and hearings, input from the public, interested stakeholders, and groundwater pumpers will be considered and incorporated into the decision-making process. The SABGSA will annually assess the effectiveness that management actions and priority projects have achieved in stabilizing groundwater levels and meeting the basin sustainability goals described in the GSP and will reassess the need for continuing and/or expanding these actions. At a minimum, the reassessment process will be done annually as part of the annual reporting process or as part of the required 5-year review and report to DWR.

The following subsections discuss notable developments or progress toward management actions that occurred during water year 2024.

### 7.3.1 Groundwater Monitoring Network Expansion and Maintenance

Three wells (13Q1, Well 4, and Char 1) were added to the Basin groundwater level monitoring network during the 2024 water year (see Section 3.4).<sup>28</sup>

The SABGSA completed a well registration program in 2023 in partnership with Wallace Group Engineering (see Section 7.3.4). The SABGSA plans to review the well registration data to identify existing wells in the Basin that may be incorporated into the Basin Monitoring Network, enabling the SABGSA to fill existing data gaps identified in the Basin GSP.

The SABGSA continues to conduct public outreach efforts to contact well owners throughout the Basin to discuss potential enrollment in the Basin groundwater level monitoring network. Specifically, owners of wells that are included in the Basin groundwater level monitoring network but no access agreement has been secured. Expanding the Basin groundwater level monitoring network would improve the HCM and inform sustainable management of the Basin.

In August 2024 the SABGSA approved the purchase of five additional transducers to be installed in select Basin monitoring network wells. The transducers were installed during the fourth quarter of 2024, after the completion of the 2024 water year, totaling 15 installed transducers in the Basin groundwater level monitoring network..

Vegetation along access trails to monitoring wells included in the Basin's groundwater level monitoring network, specifically on VSFB Property near the Slough, had become overgrown and was trimmed in August 2024. During the 2Q2024 Basin groundwater level monitoring event, the vegetation was observed to have grown back impeding access to Basin groundwater monitoring network wells. Vegetation along access trails to ten wells was again trimmed during the 3Q2024 Basin groundwater level monitoring event.

During water year 2024 the SABGSA, in consultation with Santa Barbara County, determined fifteen wells in the Basin groundwater level monitoring network have RPEs that do not meet accuracy standards based on DWR best management practices.<sup>29</sup> An additional nine wells in the Basin groundwater level monitoring

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<sup>28</sup> The SABGSA secured an access agreement for Char 1 during the 2024 water year, but the first groundwater level measurement was not collected from the well until the fourth quarter of 2024.

<sup>29</sup> The SABGSA has been denied access to 2 of the 15 wells and does not have access to an additional 5 of the 15 wells.

network have no reference elevation data available.<sup>30</sup> Acquiring accurate reference elevations will benefit the Basin and stakeholders by providing more accurate groundwater elevation data which will result in more accurate groundwater elevation contours and change in storage calculations included in annual reports. The SABGSA has budgeted for this scope of work and was included as a component in the SABGSA's application for DWR SGMA Round 2 grant funding.

### 7.3.2 Estimation of Agricultural Extraction

The first Basin Annual Report (water years 2019 through 2021; GSI and GEI, 2021) and the Basin Annual Report for water year 2022 (GSI, 2023a) included estimates of groundwater extraction for agricultural irrigation from the crop-specific water use factors. The Basin Annual Report for water year 2022 (GSI, 2023a) also included a satellite-based method (see Section 4.3). The similarity in results between the methods demonstrated the utility of the satellite-based method. The satellite-based method is considered more accurate because it directly measures actual ET as it varies spatially and temporally throughout the Basin and throughout the year, thereby capturing nuances in crop irrigation practices, such as deficit irrigation. The similarity in results between the methods also indicates the determined crop-specific water use factors are representative of the Basin at a basin scale; however, the accuracy of the agricultural extraction calculation using this method can only be implemented with an accurate land use dataset. The crop-specific water use factors method is a more limited approach that does not capture ET variability in the Basin and does not fully capture the actual climatic variability or nuanced crop irrigation practices that may occur each year. Based on the similarity in results and the stated benefits of the satellite-based method, the SABGSA has adopted the satellite-based method for estimating groundwater extractions for irrigated agriculture, and was used during development of the Basin Annual Report for water year 2023 (GSI, 2024) and 2024.

### 7.3.3 San Antonio Creek Integrated Model

The SABGSA understands that the USGS, in cooperation with the SBWA and VSFB, are assessing the effects of future climate scenarios in the Basin on Barka Slough. This assessment will extend the San Antonio Creek Integrated Model (SACIM) 3 years from water years 2019 through 2021 and will be updated using available groundwater level, streamflow, climate, land use, and groundwater pumping data. Two 30-year future climate scenarios (water years 2022 through 2051) will be developed to extend and run the SACIM. Results from the future climate scenarios will be evaluated to identify potential climatic effects on streamflow, groundwater flow, recharge, and other hydrologic conditions in Barka Slough, and potential effects on riparian species.

For future reporting and analysis, the SABGSA may consider use of the SACIM for the purpose of modeling proposed Basin project and management actions (e.g., recharge projects, allocation programs, water market, varying climate scenarios), revising the Basin HCM, or calculating change in groundwater in storage for the Basin GSP annual reporting.

### 7.3.4 Well Registration Program and Well Meter Installation/Extraction Reporting Program

In February 2022, the SABGSA formed an Ad Hoc Committee—comprised of two members of the SABGSA Board of Directors, two members of the SABGSA Advisory Committee (including a representative from the County of Santa Barbara), and the Executive Directors of both the SABGSA and San Antonio Basin Water

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<sup>30</sup> No state well numbers could be identified for the 9 wells. Consequently, no elevation data could be determined through available public databases. Five of the 8 wells are LACSD wells, and an additional 3 of the 8 wells were recently added to the Basin groundwater level monitoring network.

District—to establish a framework for the Well Registration and Well Meter Installation & Extraction Reporting (Metering) Program to be developed and implemented in two phases.

### Phase 1 – Well Registration

The Well Registration program was completed in Spring 2023. Following two consecutive public hearings held on October 18, 2022, and November 15, 2022, the SABGSA adopted Ordinance No. 2022-01 requiring all landowners within the Basin to complete a well registration form and file it with the SABGSA no later than March 31, 2023.

As outlined in the GSP, the need for all groundwater production wells, including wells used by “de minimis” pumpers, to be registered with the SABGSA is identified as a Tier 1 Management Action and is a pre-cursor to the implementation of other projects and management actions vital to achieving sustainability. The data collected from well registration assisted the SABGSA in establishing the location and type of each well located within the Basin and helped the SABGSA gain an accurate count and a better understanding of the wells in active use. The SABGSA well registration form also queried landowners to identify which wells currently have meters and what type. This information was critical to designing a well metering and reporting program that meets the practical needs of landowners while also facilitating groundwater sustainability.

### Phase 2 – Well Meter Installation & Extraction Reporting (Metering) Program Program Development and Outreach Efforts:

The framework for the Metering Program was developed over the course of the last year and half (May 2023 – November 2024). Each iteration of the proposed policies, actions, compliance forms, and timeline for implementation was posted on SABGSA’s website and discussed regularly during SABGSA Board meetings where Basin stakeholders had an opportunity to comment and ask questions. The intent of posting the documents in draft form was to provide landowners with advance notice of policies being considered by the SABGSA with ample time to form a plan for compliance.

- July 18, 2023 – Conceptual Framework
- August 16, 2023 – Conceptual Framework
- October 17, 2023 – Conceptual Framework
- November 28, 2023 – Installation and Reporting Forms
- March 19, 2024 – Frequently Asked Questions
- May 21, 2024 – Draft Ordinance with Rules & Regulations
- July 16, 2024 – Draft Administrative Enforcement Policy, Frequently Asked Questions
- August 20, 2024 – Stakeholder Workshop Outline and Flyer
- September 18, 2024 – Draft Appeal Form, Draft Appeal Fee & Deposit Agreement

On October 15, 2024, SABGSA held a stakeholder workshop for the metering program. Following the workshop, SABGSA provided a 30-day public comment period to solicit additional feedback from Basin stakeholders.

### Program Components and Timeline for Implementation:

On November 20, 2024, the SABGSA Board of Directors directed staff to initiate the public hearing process to consider adoption of a proposed Ordinance. It is anticipated that the first reading of the Ordinance will occur in January 2025 and the second reading/adoption in February 2025. The effective date of the Ordinance is 30 days after the adoption.

The proposed Ordinance requires well owners within the San Antonio Creek Valley Groundwater Basin (Basin No. 3-014) to install a flow meter equipped with a direct reading rate-of-flow indicator and a visual, volume-recording totalizer on their wells, submit documentation of installation and calibration compliance by April 1, 2026, and report monthly groundwater extraction readings to the SABGSA on a twice-a-year basis, through a form provided by the SABGSA. De minimis extractors who extract two acre-feet or less per year solely for domestic purposes would be exempt. The tentative due date for the first reporting period (April 2026 – September 2026) is November 1, 2026.

The final Well Registration Program and Metering Program may include a system for reporting and accounting for water conservation initiatives, voluntary irrigated land fallowing (temporary and permanent), storm water capture projects, or other activities that individual pumpers may elect to implement. The Well Registration and Well Metering Program will aid the SABGSA's effort to identify wells and landowners that could be included in the Basin's groundwater level monitoring network, particularly in areas with a low-density of wells (see Section 2.4.2). The information collected would be used to account for pumping that would have otherwise occurred, to provide additional information to be used by the SABGSA for analyzing projected basin conditions, updating the HCM, and completing annual reports and 5-year GSP assessment reports as required by the DWR.

#### **Well Metering Assistance Program (WMAP):**

The Santa Barbara County Water Agency has implemented a Well Metering Assistance Program (WMAP)<sup>31</sup> designed to provide funding to offset up to \$500 of the equipment cost of qualifying water meters. Once SABGSA's Metering Ordinance takes effect, the WMAP will be available to Basin landowners. Rules of the WMAP include:

- The groundwater well installation must be located within DWR Bulletin 118 groundwater basin boundary in the following basins:
  - Carpinteria Groundwater Basin
  - Cuyama Valley Groundwater Basin
  - Montecito Groundwater Basin
  - San Antonio River Valley Groundwater Basin
  - Santa Ynez River Valley Groundwater Basin
- Eligibility is limited to 1 meter per applicant
- The program participant must agree to the terms and conditions summarized in the WMAP Application.
- The well meter must meet guidelines, if any, established by the basin's GSA.

### **7.3.5 Well Verification – Recission of Executive Orders N-7-22 and N-3-23**

On September 5, 2024, Governor Newsom issued Executive Order N-3-24 which terminated the drought state of emergency in Santa Barbara amongst 19 other counties. Related Executive Order's N-7-22 and N-3-23 (requiring written verifications from Groundwater Sustainability Agencies) were rescinded. The Urgency Ordinance for Santa Barbara County (No. 5158) was also terminated. SABGSA's Resolution 22-001 Approving a Well Verification Policy and Resolution 22-002 Approving a Well Verification Fee & Deposit Agreement in compliance with EO-N-22 both automatically terminate. The well permitting process in unincorporated areas of Santa Barbara County will revert to previous well permitting requirements (Santa

<sup>31</sup> More information regarding the Santa Barbara County Water Agency WMAP can be found at: <https://www.countyofsb.org/2568/Well-Metering-Assistance-Program-WMAP>



Barbara County Code Chapter 34A - Wells). Santa Barbara County Environmental Health Services is no longer requesting written verification from SABGSA.

### 7.3.6 Attempts to Acquire Funding

On October 18, 2022, the SABGSA Board of Directors passed Resolution 22-003 authorizing an application be made to DWR to obtain a grant under the 2021 Sustainable Groundwater Management (SGM) Grant Program SGMA Implementation Grant pursuant to the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Pub. Resources Code, § 80000, et seq.) and the Budget Acts of 2021 and 2022.

The SABGSA's grant application requested a total of \$2,300,000 for various projects and management actions. The SABGSA's application received a score of 23 points out of 28 possible points. DWR did not award any funding to the SABGSA.

The SABGSA considered the U.S. Bureau of Reclamation Water SMART grants during water year 2024 but determined the SABGSA was ineligible. The SABGSA will continue to identify possible grant funding sources for implementation of the GSP.

### 7.3.7 Groundwater Sustainability Plan Approval and Consultation with DWR

The GSP for the San Antonio Creek Valley Groundwater Basin was approved on January 18, 2024. A consultation meeting between DWR GSP review staff and representatives from the SABGSA occurred on April 9, 2024, to discuss the findings and potential corrective actions identified in the DWR GSP Assessment Staff Report, dated January 18, 2024.

### 7.3.8 DWR Statewide Airborne Electromagnetic Surveys

DWR announced the results of the Survey Area 10 Airborne Electromagnetic surveys were available on November 8, 2024. Although this was after the end of water year 2024, the SABGSA plans to use the data to confirm or revise the Basin HCM.

## 7.4 Summary of Progress toward Meeting Basin Sustainability

This 2024 Annual Report indicates that groundwater trends are consistent with historical conditions reported in the GSP (GSI and GEI, 2021). The first Annual Report (water years 2019 through 2021) and second Annual Report (water year 2022) indicated groundwater elevations decreased or remained the same in all RMSs, resulting in an overall decrease in total groundwater in storage. Water year 2023 data, however, indicated groundwater elevations generally increased across the Basin as a result of the wet water year type observed during water year 2023, and, consequently, a reduction in groundwater pumping. Water year 2024 data indicated a continuation of gradually increasing or stable groundwater elevations due to the wet water year type and continued reduced groundwater pumping.

Current basin conditions, comparison of current and historical groundwater elevation contour maps, and the basin historical water budget presented in the GSP, indicate groundwater pumping in excess of the sustainable yield has created challenging conditions for sustainable management. Tier 1 management actions (as outlined in Section 6 of GSI and GEI, 2021, and summarized in the above bulleted list) are planned to address data gaps through improvement of the monitoring and data-collection networks, as well program implementation for better measurement of groundwater pumping and to promote stakeholder accountability and sustainable groundwater use.

## 7.4.1 Groundwater Quality

The minimum threshold for the degraded groundwater quality sustainability indicator (see Section 4.8 of GSI and GEI, 2021) was not exceeded during this reporting period. The sustainability indicator for groundwater quality takes into consideration protection of municipal drinking water supplies, domestic uses, and agricultural uses of groundwater in the Basin. For municipal wells and drinking water supplied by domestic wells, state and federal regulatory standards (MCLs and SMCLs) established by the SWRCB DDW and EPA, respectively, were used to establish thresholds and identify COCs. For agricultural uses, thresholds and COCs were established using WQOs presented in the Basin Plan (RWQCB, 2019). The SABGSA has no responsibility to manage groundwater quality unless it can be shown that water quality degradation is caused by pumping in the Basin, or the SABGSA implements a project that degrades water quality. Potential degradation of groundwater quality caused by groundwater pumping will be monitored as part of the Basin's water quality monitoring network (see Section 5 of GSI and GEI, 2021). Likewise, potential degradation of water quality because of implementation of projects and management actions (see Section 6 of GSI and GEI, 2021) will be evaluated during the planning stage of the respective action and monitored at a minimum as part of the Basin's water quality monitoring network. No minimum thresholds have been established for contaminants because state regulatory agencies, including the RWQCB and the Department of Toxic Substances Control, have the responsibility and authority to regulate and direct actions that address contamination (see Section 4.8 of GSI and GEI, 2021). The WQOs for salt and nutrients are the minimum thresholds for TDS, chloride, sulfate, boron, sodium, and nitrate as measured by SWRCB ILRP and DDW programs in 20 percent of wells monitored. In cases where the ambient (prior to January 2015) water quality exceeds the WQO, the minimum threshold concentration is 110 percent of the ambient water quality in 20 percent of the wells.

Identified COCs that have the potential to impact suitability of water for public supply or agricultural use in the Basin include TDS, sodium, chloride, sulfate, arsenic, nitrate, boron, and DEHP. There are no known point source contaminant plumes in groundwater in the Basin (GSI and GEI, 2021).

Historically, groundwater in the Basin is of widely varying quality and generally decreases in quality from east to west. Concentrations of TDS generally increase from east to west along San Antonio Creek; and are greatest near the Slough, along western San Antonio Creek, and in Harris Canyon. Concentrations of boron, sodium, and chloride are also elevated near the Slough, along western San Antonio Creek, and in Harris Canyon. Historical chloride concentrations exceeding the WQO were collected from wells located in the western portion of the Basin along San Antonio Creek, near the Slough, or in Harris Canyon. Historical boron concentrations exceeding the WQO were collected from wells located in the western portion of the Basin along San Antonio Creek, near the Slough, or in Harris Canyon. Based on available information, the east to west trend of increasing TDS and salts concentrations is consistent between the Paso Robles Formation and the Careaga Sand. Historical analytical results from samples collected from a nested monitoring well (SACR) along San Antonio Creek, in the western portion of the Basin, indicate that concentrations of TDS decreased with depth.

Water quality data for water year 2024 was obtained through the SWRCB GAMA Groundwater Information System (GAMA-GIS).<sup>32</sup> Average concentrations, by well and COC, were further categorized as pre-SGMA enactment (2015), post-SGMA (2015 to last measured), and water year 2024. Available water quality data for wells included in the Basin groundwater quality monitoring network for water year 2024 included 8 municipal wells, however, analytical water quality data was reported for nitrate only. Reported constituent

<sup>32</sup> The GAMA-GIS is available at <https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/>. (Accessed February 11, 2025.)

concentrations for nitrate in all 8 wells were below the respective WQO, MCL, and SMCL. A discussion of Basin water quality results is presented in Section 2.5

According to the California Department of Conservation, Geologic Energy Management Division online Well Finder, or WellSTAR, tool, nine named oil and gas fields are within or adjacent to the Basin: Cat Canyon, Zaca, Barham Ranch, Los Alamos, Lompoc, Harris Canyon (abandoned), Careaga, Orcutt, and Four Deer (abandoned) (see Figure 3-47 of GSI and GEI, 2021).<sup>33</sup> The USGS, in cooperation with the SWRCB, initiated the COGG Program in 2015.<sup>34</sup> The objective of the COGG Program is to determine where and to what extent groundwater quality may be adversely impacted by proximal oil and gas development activities (Davis, et al., 2018). A discussion of COGG Program findings is included in Section 2.5.

## 7.4.2 Land Subsidence

Land subsidence is the lowering of the land surface. Land subsidence can be caused by a number of factors, including (1) lowering of groundwater levels as a result of pumping if the subsurface geology is prone to subsidence (i.e., contains substantial clay beds), (2) oil and gas production, and (3) tectonic activity. For subsidence to occur as a result of groundwater extraction, water levels would need to drop below historical levels for extended periods of time.

Based on data available from the UNAVCO CGPS Station ORES, located in Los Alamos, and InSAR no land subsidence in the Basin has occurred at rates exceeding the minimum threshold of 0.05 feet per year, described in the GSP, during water year 2024 (see Appendix F for UNAVCO CGPS Station ORES displacement data). A discussion of InSAR and UNAVCO CGPS Station ORES measure land subsidence is included in Section 2.6.

## 7.4.3 Interconnected Surface Water

Lack of stream gauging data and the ephemeral nature of surface water flows in the Basin make it difficult to assess the interconnectivity of surface water and groundwater and to quantify the degree to which surface water depletion has occurred. According to the USGS National Hydrography Dataset, three springs or seeps were identified in the Basin (see Figure 3-9 of GSI and GEI, 2021). Based on location, the three springs or seeps are suspected to be overlying the Paso Robles Formation. Two additional springs or seeps were identified by basin stakeholders and are located northeast of Los Alamos on Price Ranch within a tributary to San Antonio Creek and in the Las Flores watershed, a tributary to San Antonio Creek, in the low-lying grassland areas immediately west of U.S. HWY 101 (CRCD, 2003) (see Figure 3-9 of GSI and GEI, 2021). Based on location, the spring or seep in the Las Flores watershed overlies the Paso Robles Formation and the Price Ranch spring or seep is located near the contact between the Paso Robles Formation and the Careaga Sand. Without additional analysis, it is unknown whether the groundwater source of these springs or seeps is from the underlying principal aquifer or from perched water within the channel alluvium. As discussed in Section 3.1.3.1 of GSI and GEI (2021), artesian conditions exist in the Basin and are due to localized confining layers created by the synclinal structure of the Basin, the presence of overlying fine-grained deposits, and or faults present within the Basin (Carlson, 2019; Cromwell et al., 2022). Planned additional analysis of these areas are described in Section 6 of the Basin GSP.

Interconnected surface water and groundwater within the Paso Robles Formation and Careaga Sand occurs where the groundwater in these units is forced upward by a subsurface bedrock groundwater barrier. See Figure 4 for a conceptual model of groundwater flow as it reaches the Slough. The depletion of interconnected surface water sustainability indicator is measured by monitoring streamflow recorded at the

<sup>33</sup> The tool is available at <https://www.conservation.ca.gov/calgem/Pages/WellFinder.aspx>. (Accessed February 11, 2025.)

<sup>34</sup> Description available at <https://webapps.usgs.gov/cogg/>. (Accessed February 11, 2025.)

Casmalia stream gage (USGS Monitoring Location 11136100; see Figure 1). The minimum threshold for the depletion of interconnected surface water sustainability indicator is an average streamflow of 0.15 cfs measured at the Casmalia stream gage over three consecutive months between June to September. This minimum threshold was not reached. The lowest average measured stream flow recorded at the Casmalia stream gage between the months of June to September during water year 2024 was 0.32 cfs (recorded July 17, 2024).<sup>35</sup> Summaries of stream flow measurements collected from the Casmalia stream gage for water year 2024 are included in Appendix G.

DWR released guidance documents on depletion of interconnected surface water in February and September of 2024. The purpose of the documents is to discuss the technical aspects of interconnected surface water and quantification of depletions of interconnected surface water caused by groundwater pumping. The SABGSA plans to reference these guidance documents during planning and evaluation of identified areas of interconnected surface water within the Basin.

#### 7.4.4 Summary of Changes in Basin Conditions

Many of the Basin groundwater level monitoring network well hydrographs illustrate a condition of declining water levels over the well's respective period of record, although some hydrographs indicate relative water level stability in the last 5 to 10 years. Groundwater levels in most wells were generally consistent with the water levels observed in 2023. Groundwater levels in the LACSD wells and wells on the northeast side of the Slough continued an upward trend that started in 2023. The response in groundwater levels to climatic conditions is generally more rapid and apparent in Paso Robles Formation wells, and more delayed and muted in Careaga Sand wells. Groundwater levels lowered from the seasonal high when dry conditions and regular irrigation returned, consistent with the seasonal trends of higher spring groundwater elevations compared with fall. Of the 10 measured, 2 RMSs were measured above the respective measurable objective during the 2024 water year. No RMS water levels were measured below the respective minimum threshold during the 2024 water year. Calculated groundwater in storage in the Basin increased by approximately 4,500 AF from the end of water year 2023 through the end of water year 2024. Groundwater elevations in the Basin were generally consistent between water year 2023 and water year 2024. This consistency is a result of the wet water year types observed during water years 2023 and 2024, and, consequently, a continued reduction in groundwater pumping (approximately 1,300 AF less groundwater pumping during water year 2024 than water year 2023). Total groundwater pumping for water year 2024 (14,000 AF) remained above the Basin's estimated sustainable yield (8,900 AFY).

#### 7.4.5 Summary of Impacts of Projects and Management Actions

Because of the short duration of time between the adoption of the Basin GSP and the submittal of this Annual Report, additional time is necessary to continue to implement projects and managements actions and to evaluate their effectiveness and quantitative impacts. However, it is anticipated that the projects and management actions will enable the Basin to work toward sustainable management of groundwater and achievement of sustainability goals as defined in the Basin GSP.

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<sup>35</sup> Casmalia stream gage data is available at <https://waterdata.usgs.gov/monitoring-location/11136100/#parameterCode=00065&period=P7D>. (Accessed February 11, 2025.)

## SECTION 8: References

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## APPENDIX A

Sustainable Groundwater Management Act Groundwater  
Sustainability Plan Regulations for Annual Reports

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## § 356.2. Annual Reports

Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:

(a) General information, including an executive summary and a location map depicting the basin covered by the report.

(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:

(1) Groundwater elevation data from monitoring wells identified in the monitoring network shall be analyzed and displayed as follows:

(A) Groundwater elevation contour maps for each principal aquifer in the basin illustrating, at a minimum, the seasonal high and seasonal low groundwater conditions.

(B) Hydrographs of groundwater elevations and water year type using historical data to the greatest extent available, including from January 1, 2015, to current reporting year.

(2) Groundwater extraction for the preceding water year. Data shall be collected using the best available measurement methods and shall be presented in a table that summarizes groundwater extractions by water use sector, and identifies the method of measurement (direct or estimate) and accuracy of measurements, and a map that illustrates the general location and volume of groundwater extractions.

(3) Surface water supply used or available for use, for groundwater recharge or in-lieu use shall be reported based on quantitative data that describes the annual volume and sources for the preceding water year.

(4) Total water use shall be collected using the best available measurement methods and shall be reported in a table that summarizes total water use by water use sector, water source type, and identifies the method of measurement (direct or estimate) and accuracy of measurements. Existing water use data from the most recent Urban Water Management Plans or Agricultural Water Management Plans within the basin may be used, as long as the data are reported by water year.

(5) Change in groundwater in storage shall include the following:

(A) Change in groundwater in storage maps for each principal aquifer in the basin.

(B) A graph depicting water year type, groundwater use, the annual change in groundwater in storage, and the cumulative change in groundwater in storage for the basin based on historical data to the greatest extent available, including from January 1, 2015, to the current reporting year.

(c) A description of progress towards implementing the Plan, including achieving interim milestones, and implementation of projects or management actions since the previous annual report.

Note: Authority cited: Section 10733.2, Water Code.

Reference: Sections 10727.2, 10728, and 10733.2, Water Code.

## APPENDIX B

Precipitation Data

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County of Santa Barbara  
 Daily Rainfall Record - through 08-31-2024

#204 - Los Alamos Fire Station  
 Lat 34-44-43, Long 120-16-48, Elev 580 ft

Daily Rainfall (in inches) recorded as of 8am for the previous 24 hours (PST)  
 Codes: PR = Preliminary data, E = Estimated from nearby gauge

station id	water year	year	month	day	daily rain	code
204	1910	1909	10	3	0.90	
204	1910	1909	10	29	0.05	
204	1910	1909	11	9	0.96	
204	1910	1909	11	11	0.13	
204	1910	1909	11	26	0.17	
204	1910	1909	11	27	0.43	
204	1910	1909	12	5	1.20	
204	1910	1909	12	7	0.37	
204	1910	1909	12	8	0.71	
204	1910	1909	12	9	2.35	
204	1910	1909	12	20	0.66	
204	1910	1909	12	21	0.31	
204	1910	1909	12	22	0.20	
204	1910	1910	1	1	1.47	
204	1910	1910	1	2	0.33	
204	1910	1910	1	12	0.06	
204	1910	1910	1	15	0.19	
204	1910	1910	1	16	1.05	
204	1910	1910	1	23	0.18	
204	1910	1910	1	24	0.30	
204	1910	1910	2	6	0.10	
204	1910	1910	2	19	0.08	
204	1910	1910	2	23	0.05	
204	1910	1910	3	14	0.70	
204	1910	1910	3	17	0.15	
204	1910	1910	3	21	1.03	
204	1910	1910	3	22	0.43	
204	1910	1910	3	23	0.10	
204	1910	1910	3	25	0.22	
204	1910	1910	3	27	1.45	
204	1910	1910	3	28	0.10	
204	1911	1910	9	14	0.14	
204	1911	1910	9	15	0.70	
204	1911	1910	10	11	0.12	
204	1911	1910	11	4	0.18	
204	1911	1910	11	25	0.40	
204	1911	1910	12	3	0.03	
204	1911	1910	12	10	0.10	
204	1911	1910	12	18	0.20	
204	1911	1910	12	19	0.13	
204	1911	1911	1	9	1.00	
204	1911	1911	1	10	0.45	

204	1911	1911	1	11	0.03
204	1911	1911	1	12	0.11
204	1911	1911	1	13	0.15
204	1911	1911	1	14	0.47
204	1911	1911	1	15	0.18
204	1911	1911	1	19	0.15
204	1911	1911	1	24	0.84
204	1911	1911	1	25	0.63
204	1911	1911	1	28	0.60
204	1911	1911	1	29	2.95
204	1911	1911	1	30	1.10
204	1911	1911	1	31	0.87
204	1911	1911	2	3	0.72
204	1911	1911	2	4	0.48
204	1911	1911	2	11	0.84
204	1911	1911	2	12	0.15
204	1911	1911	2	14	0.38
204	1911	1911	2	26	0.06
204	1911	1911	2	27	0.26
204	1911	1911	2	28	0.75
204	1911	1911	3	1	2.66
204	1911	1911	3	2	0.22
204	1911	1911	3	3	0.61
204	1911	1911	3	4	0.95
204	1911	1911	3	5	0.92
204	1911	1911	3	6	1.06
204	1911	1911	3	7	3.10
204	1911	1911	3	8	0.98
204	1911	1911	3	9	1.16
204	1911	1911	3	10	0.55
204	1911	1911	3	21	0.20
204	1911	1911	4	1	0.92
204	1911	1911	4	5	0.23
204	1911	1911	4	6	0.07
204	1911	1911	4	26	0.25
204	1912	1911	12	4	0.42
204	1912	1911	12	6	0.70
204	1912	1911	12	7	0.06
204	1912	1911	12	17	0.15
204	1912	1911	12	28	0.17
204	1912	1911	12	29	0.35
204	1912	1912	1	2	0.55
204	1912	1912	1	10	0.41
204	1912	1912	1	11	0.11
204	1912	1912	1	16	0.22
204	1912	1912	1	26	0.30
204	1912	1912	3	1	0.09
204	1912	1912	3	2	0.11
204	1912	1912	3	3	0.15
204	1912	1912	3	4	0.71
204	1912	1912	3	5	1.11
204	1912	1912	3	6	0.27

204	1912	1912	3	9	0.60
204	1912	1912	3	10	1.00
204	1912	1912	3	12	1.85
204	1912	1912	3	13	0.25
204	1912	1912	3	16	0.05
204	1912	1912	3	21	0.42
204	1912	1912	3	26	0.16
204	1912	1912	4	8	0.12
204	1912	1912	4	9	0.08
204	1912	1912	4	10	0.11
204	1912	1912	4	11	0.42
204	1912	1912	4	29	0.12
204	1912	1912	5	6	0.10
204	1912	1912	5	7	0.17
204	1912	1912	5	8	0.17
204	1912	1912	5	25	0.68
204	1913	1912	11	10	0.30
204	1913	1912	12	15	0.16
204	1913	1913	1	9	0.62
204	1913	1913	1	10	0.30
204	1913	1913	1	14	0.03
204	1913	1913	1	15	1.44
204	1913	1913	1	16	0.37
204	1913	1913	1	17	0.10
204	1913	1913	1	18	0.02
204	1913	1913	2	8	0.53
204	1913	1913	2	21	0.37
204	1913	1913	2	22	0.27
204	1913	1913	2	23	0.31
204	1913	1913	2	24	1.32
204	1913	1913	2	25	0.42
204	1913	1913	3	18	0.25
204	1913	1913	3	21	0.20
204	1913	1913	3	22	0.05
204	1913	1913	3	23	0.25
204	1913	1913	4	14	0.14
204	1913	1913	4	17	0.19
204	1913	1913	4	18	0.09
204	1913	1913	4	22	0.08
204	1913	1913	5	28	0.15
204	1913	1913	6	26	0.30
204	1913	1913	6	27	0.05
204	1913	1913	8	28	1.20
204	1914	1913	11	1	0.10
204	1914	1913	11	12	0.30
204	1914	1913	11	13	0.95
204	1914	1913	11	14	0.05
204	1914	1913	11	18	0.75
204	1914	1913	11	19	0.20
204	1914	1913	11	29	0.10
204	1914	1913	12	14	0.40
204	1914	1913	12	19	0.07



204	1914	1913	12	23	0.60
204	1914	1913	12	25	1.02
204	1914	1913	12	30	0.85
204	1914	1913	12	31	0.11
204	1914	1914	1	1	0.10
204	1914	1914	1	2	0.10
204	1914	1914	1	15	1.20
204	1914	1914	1	16	0.15
204	1914	1914	1	18	1.25
204	1914	1914	1	19	2.10
204	1914	1914	1	22	0.23
204	1914	1914	1	23	0.04
204	1914	1914	1	24	1.93
204	1914	1914	1	25	2.75
204	1914	1914	1	26	0.35
204	1914	1914	1	27	1.10
204	1914	1914	2	18	2.36
204	1914	1914	2	20	3.50
204	1914	1914	2	21	0.40
204	1914	1914	3	27	0.07
204	1914	1914	3	29	0.90
204	1914	1914	4	4	0.07
204	1914	1914	4	5	0.03
204	1914	1914	4	22	0.35
204	1915	1914	12	1	1.20
204	1915	1914	12	3	0.10
204	1915	1914	12	4	0.13
204	1915	1914	12	5	0.18
204	1915	1914	12	6	0.15
204	1915	1914	12	10	0.74
204	1915	1914	12	11	0.58
204	1915	1914	12	12	0.15
204	1915	1914	12	17	1.27
204	1915	1914	12	18	0.20
204	1915	1914	12	20	0.19
204	1915	1914	12	27	0.23
204	1915	1915	1	4	0.25
204	1915	1915	1	5	0.20
204	1915	1915	1	8	0.38
204	1915	1915	1	14	0.25
204	1915	1915	1	20	0.06
204	1915	1915	1	24	0.22
204	1915	1915	1	27	0.07
204	1915	1915	1	28	0.86
204	1915	1915	1	29	2.15
204	1915	1915	1	30	0.90
204	1915	1915	2	2	1.36
204	1915	1915	2	3	0.46
204	1915	1915	2	8	0.95
204	1915	1915	2	9	2.08
204	1915	1915	2	10	0.84
204	1915	1915	2	11	0.12

204	1915	1915	2	16	0.25
204	1915	1915	2	17	0.48
204	1915	1915	2	19	0.06
204	1915	1915	2	20	0.69
204	1915	1915	2	24	0.51
204	1915	1915	2	28	0.36
204	1915	1915	3	1	0.05
204	1915	1915	3	7	0.16
204	1915	1915	3	28	0.40
204	1915	1915	4	7	0.05
204	1915	1915	4	21	1.25
204	1915	1915	4	22	0.05
204	1915	1915	4	23	0.10
204	1915	1915	4	26	0.25
204	1915	1915	4	28	0.35
204	1915	1915	4	29	0.09
204	1915	1915	5	1	0.14
204	1915	1915	5	2	0.46
204	1915	1915	5	4	0.70
204	1915	1915	5	5	0.03
204	1915	1915	5	12	0.12
204	1915	1915	5	17	0.20
204	1918	1917	12	26	0.04
204	1918	1918	1	13	0.30
204	1918	1918	1	14	0.04
204	1918	1918	1	26	0.07
204	1918	1918	2	6	0.04
204	1918	1918	2	7	0.30
204	1918	1918	2	17	0.83
204	1918	1918	2	18	0.12
204	1918	1918	2	19	0.14
204	1918	1918	2	20	5.81
204	1918	1918	2	21	2.32
204	1918	1918	2	22	1.12
204	1918	1918	2	24	1.10
204	1918	1918	2	26	0.10
204	1918	1918	3	5	0.55
204	1918	1918	3	6	0.39
204	1918	1918	3	7	1.25
204	1918	1918	3	8	0.10
204	1918	1918	3	10	0.26
204	1918	1918	3	11	0.76
204	1918	1918	3	18	0.81
204	1918	1918	3	19	3.01
204	1918	1918	3	27	0.05
204	1918	1918	8	13	0.03
204	1918	1918	8	14	0.05
204	1918	1918	8	27	0.12
204	1919	1918	9	13	0.03
204	1919	1918	9	14	0.05
204	1919	1918	9	27	0.12
204	1919	1918	10	1	0.30

204	1919	1918	11	4	0.17
204	1919	1918	11	5	0.15
204	1919	1918	11	14	0.31
204	1919	1918	11	15	0.18
204	1919	1918	11	18	0.98
204	1919	1918	11	19	0.38
204	1919	1918	11	23	0.77
204	1919	1918	12	7	1.69
204	1919	1918	12	8	0.28
204	1919	1918	12	9	0.30
204	1919	1918	12	20	0.06
204	1919	1918	12	21	0.30
204	1919	1919	1	19	0.46
204	1919	1919	2	1	0.40
204	1919	1919	2	2	0.04
204	1919	1919	2	9	0.10
204	1919	1919	2	10	0.43
204	1919	1919	2	11	1.05
204	1919	1919	2	15	0.04
204	1919	1919	2	22	0.04
204	1919	1919	2	23	0.19
204	1919	1919	2	24	0.04
204	1919	1919	2	26	0.36
204	1919	1919	2	27	0.04
204	1919	1919	2	28	0.02
204	1919	1919	3	1	0.03
204	1919	1919	3	2	0.13
204	1919	1919	3	13	0.97
204	1919	1919	3	14	0.52
204	1919	1919	4	26	0.06
204	1919	1919	5	28	1.11
204	1919	1919	5	29	0.24
204	1920	1919	9	1	0.02
204	1920	1919	9	2	0.56
204	1920	1919	10	24	0.16
204	1920	1919	10	25	0.02
204	1920	1919	11	26	0.03
204	1920	1919	11	27	0.11
204	1920	1919	11	30	0.03
204	1920	1919	12	1	0.04
204	1920	1919	12	2	0.17
204	1920	1919	12	4	0.62
204	1920	1919	12	5	0.97
204	1920	1919	12	6	0.32
204	1920	1919	12	8	0.05
204	1920	1919	12	11	0.50
204	1920	1920	1	4	0.14
204	1920	1920	1	22	0.07
204	1920	1920	1	23	0.18
204	1920	1920	2	1	0.40
204	1920	1920	2	2	0.54
204	1920	1920	2	9	0.02

204	1920	1920	2	19	0.66
204	1920	1920	2	22	0.84
204	1920	1920	2	23	0.18
204	1920	1920	2	27	0.18
204	1920	1920	2	29	0.15
204	1920	1920	3	1	0.46
204	1920	1920	3	2	0.11
204	1920	1920	3	9	0.06
204	1920	1920	3	10	0.22
204	1920	1920	3	16	0.44
204	1920	1920	3	21	0.93
204	1920	1920	3	22	0.94
204	1920	1920	3	23	0.16
204	1920	1920	3	25	0.06
204	1920	1920	3	26	0.37
204	1920	1920	4	9	0.26
204	1920	1920	4	10	0.03
204	1920	1920	4	15	0.36
204	1920	1920	4	16	0.06
204	1921	1920	9	24	0.03
204	1921	1920	10	6	0.04
204	1921	1920	10	9	0.29
204	1921	1920	10	18	0.15
204	1921	1920	10	19	0.10
204	1921	1920	11	7	1.15
204	1921	1920	11	15	0.18
204	1921	1920	12	7	0.45
204	1921	1920	12	8	0.02
204	1921	1920	12	10	0.25
204	1921	1920	12	11	0.06
204	1921	1920	12	19	0.41
204	1921	1920	12	24	0.10
204	1921	1921	1	17	0.07
204	1921	1921	1	18	1.39
204	1921	1921	1	19	0.12
204	1921	1921	1	20	0.71
204	1921	1921	1	21	0.06
204	1921	1921	1	22	0.14
204	1921	1921	1	26	0.12
204	1921	1921	1	27	0.58
204	1921	1921	1	30	0.58
204	1921	1921	2	5	0.07
204	1921	1921	2	14	0.94
204	1921	1921	2	15	0.02
204	1921	1921	2	17	0.70
204	1921	1921	2	21	0.07
204	1921	1921	3	6	0.04
204	1921	1921	3	11	0.07
204	1921	1921	3	12	0.28
204	1921	1921	3	13	0.43
204	1921	1921	3	14	0.17
204	1921	1921	3	22	0.07

204	1921	1921	4	11	0.32
204	1921	1921	4	13	0.02
204	1921	1921	5	5	0.43
204	1921	1921	5	6	0.28
204	1921	1921	5	20	0.31
204	1921	1921	5	21	0.31
204	1921	1921	5	22	0.14
204	1922	1921	9	1	0.16
204	1922	1921	9	17	0.34
204	1922	1921	9	18	0.34
204	1922	1921	10	23	0.32
204	1922	1921	12	18	0.34
204	1922	1921	12	19	0.84
204	1922	1921	12	20	1.40
204	1922	1921	12	21	0.45
204	1922	1921	12	22	1.15
204	1922	1921	12	23	0.17
204	1922	1921	12	24	0.20
204	1922	1921	12	25	0.59
204	1922	1921	12	26	0.21
204	1922	1921	12	27	0.22
204	1922	1921	12	28	0.16
204	1922	1921	12	29	0.04
204	1922	1922	1	1	0.45
204	1922	1922	1	2	0.29
204	1922	1922	1	3	0.06
204	1922	1922	1	4	0.08
204	1922	1922	1	6	0.32
204	1922	1922	1	7	0.13
204	1922	1922	1	29	1.38
204	1922	1922	1	30	1.28
204	1922	1922	1	31	0.36
204	1922	1922	2	8	0.22
204	1922	1922	2	9	0.74
204	1922	1922	2	10	0.21
204	1922	1922	2	11	0.26
204	1922	1922	2	20	1.79
204	1922	1922	2	21	0.04
204	1922	1922	2	22	0.06
204	1922	1922	2	24	0.05
204	1922	1922	2	27	0.23
204	1922	1922	3	11	0.98
204	1922	1922	3	16	1.36
204	1922	1922	3	17	0.04
204	1922	1922	3	23	0.11
204	1922	1922	3	27	0.06
204	1922	1922	3	31	0.03
204	1922	1922	4	5	0.13
204	1922	1922	4	12	0.13
204	1922	1922	5	9	0.39
204	1923	1922	10	27	0.52
204	1923	1922	10	28	0.03

204	1923	1922	11	6	0.02
204	1923	1922	11	7	0.06
204	1923	1922	11	8	0.10
204	1923	1922	11	9	1.08
204	1923	1922	12	1	0.33
204	1923	1922	12	2	0.31
204	1923	1922	12	3	0.12
204	1923	1922	12	6	0.25
204	1923	1922	12	7	0.09
204	1923	1922	12	10	0.25
204	1923	1922	12	12	0.99
204	1923	1922	12	13	0.95
204	1923	1922	12	14	0.24
204	1923	1922	12	15	0.09
204	1923	1922	12	17	0.11
204	1923	1922	12	27	0.42
204	1923	1923	2	1	0.13
204	1923	1923	2	8	0.05
204	1923	1923	2	9	0.13
204	1923	1923	2	11	0.82
204	1923	1923	2	12	0.13
204	1923	1923	3	3	0.35
204	1923	1923	4	1	0.35
204	1923	1923	4	2	0.19
204	1923	1923	4	3	0.07
204	1923	1923	4	4	0.01
204	1923	1923	4	5	0.72
204	1923	1923	4	6	0.92
204	1923	1923	4	10	0.58
204	1923	1923	4	18	0.76
204	1923	1923	6	15	0.05
204	1924	1923	9	25	0.12
204	1924	1923	9	26	0.03
204	1924	1923	10	7	0.05
204	1924	1923	11	8	0.13
204	1924	1923	11	9	0.03
204	1924	1923	11	30	0.02
204	1924	1923	12	14	0.22
204	1924	1923	12	19	0.03
204	1924	1923	12	30	0.02
204	1924	1923	12	31	0.09
204	1924	1924	1	1	0.03
204	1924	1924	1	27	0.47
204	1924	1924	1	28	0.07
204	1924	1924	1	29	0.02
204	1924	1924	2	8	0.03
204	1924	1924	2	9	0.16
204	1924	1924	3	2	0.68
204	1924	1924	3	3	0.27
204	1924	1924	3	4	0.05
204	1924	1924	3	17	0.43
204	1924	1924	3	19	0.01

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204	1924	1924	3	23	0.35
204	1924	1924	3	24	0.02
204	1924	1924	3	26	1.28
204	1924	1924	3	28	0.05
204	1924	1924	4	1	0.30
204	1924	1924	4	3	0.03
204	1924	1924	4	4	0.02
204	1924	1924	4	23	0.36
204	1925	1924	10	6	0.38
204	1925	1924	10	10	0.10
204	1925	1924	10	16	0.04
204	1925	1924	10	28	0.06
204	1925	1924	10	29	0.24
204	1925	1924	11	8	0.07
204	1925	1924	11	9	0.56
204	1925	1924	11	10	0.22
204	1925	1924	12	6	0.62
204	1925	1924	12	7	0.07
204	1925	1924	12	8	0.30
204	1925	1924	12	16	0.24
204	1925	1924	12	17	0.10
204	1925	1924	12	22	0.09
204	1925	1924	12	30	0.01
204	1925	1925	1	14	0.15
204	1925	1925	1	25	0.48
204	1925	1925	1	26	0.21
204	1925	1925	2	6	0.22
204	1925	1925	2	8	0.44
204	1925	1925	2	12	0.54
204	1925	1925	2	13	0.04
204	1925	1925	2	19	0.05
204	1925	1925	2	20	0.05
204	1925	1925	2	23	0.41
204	1925	1925	3	6	0.40
204	1925	1925	3	7	0.41
204	1925	1925	3	8	0.04
204	1925	1925	3	9	0.03
204	1925	1925	3	10	0.06
204	1925	1925	3	26	0.06
204	1925	1925	3	27	0.10
204	1925	1925	3	29	1.34
204	1925	1925	3	31	1.08
204	1925	1925	4	1	0.03
204	1925	1925	4	3	0.56
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204	1925	1925	4	5	0.26
204	1925	1925	4	20	0.06
204	1925	1925	4	22	0.10
204	1925	1925	5	10	0.04
204	1925	1925	5	13	0.41
204	1925	1925	5	16	0.03

204	1925	1925	5	20	0.73
204	1925	1925	6	3	0.08
204	1926	1925	10	12	0.81
204	1926	1925	10	13	0.01
204	1926	1925	11	3	0.10
204	1926	1925	11	5	0.10
204	1926	1925	11	24	0.05
204	1926	1925	12	1	0.25
204	1926	1925	12	3	0.51
204	1926	1925	12	19	0.86
204	1926	1925	12	29	0.03
204	1926	1926	1	17	0.05
204	1926	1926	1	29	0.86
204	1926	1926	1	31	0.96
204	1926	1926	2	1	0.20
204	1926	1926	2	2	0.90
204	1926	1926	2	3	0.02
204	1926	1926	2	4	0.01
204	1926	1926	2	11	0.06
204	1926	1926	2	12	0.86
204	1926	1926	2	13	0.73
204	1926	1926	2	14	0.19
204	1926	1926	2	15	0.10
204	1926	1926	2	16	0.05
204	1926	1926	3	3	0.04
204	1926	1926	3	4	0.16
204	1926	1926	3	5	0.08
204	1926	1926	3	6	0.02
204	1926	1926	3	18	0.02
204	1926	1926	4	2	0.04
204	1926	1926	4	4	0.07
204	1926	1926	4	5	1.57
204	1926	1926	4	6	0.38
204	1926	1926	4	7	0.98
204	1926	1926	4	8	0.84
204	1926	1926	4	9	0.04
204	1926	1926	4	19	0.05
204	1926	1926	4	29	0.12
204	1926	1926	5	3	0.03
204	1927	1926	10	2	0.49
204	1927	1926	11	12	0.06
204	1927	1926	11	24	2.12
204	1927	1926	11	25	0.16
204	1927	1926	11	26	2.05
204	1927	1926	11	27	0.29
204	1927	1926	12	3	0.40
204	1927	1926	12	6	0.05
204	1927	1926	12	18	0.02
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204	1927	1926	12	22	0.02
204	1927	1926	12	23	0.12
204	1927	1927	1	6	0.38



204	1927	1927	1	10	0.33
204	1927	1927	1	11	0.53
204	1927	1927	1	12	0.27
204	1927	1927	1	19	0.05
204	1927	1927	1	20	0.27
204	1927	1927	1	26	0.08
204	1927	1927	2	4	1.06
204	1927	1927	2	13	0.47
204	1927	1927	2	14	1.55
204	1927	1927	2	15	0.86
204	1927	1927	2	16	1.42
204	1927	1927	2	17	0.02
204	1927	1927	2	18	0.40
204	1927	1927	2	21	0.02
204	1927	1927	2	22	0.06
204	1927	1927	2	24	0.16
204	1927	1927	3	3	1.41
204	1927	1927	3	4	0.20
204	1927	1927	3	8	0.03
204	1927	1927	3	9	0.16
204	1927	1927	3	28	0.20
204	1927	1927	3	29	0.07
204	1927	1927	3	30	0.09
204	1927	1927	4	3	0.27
204	1927	1927	4	10	1.08
204	1927	1927	4	16	0.08
204	1927	1927	5	7	0.08
204	1928	1927	10	25	0.08
204	1928	1927	10	26	0.34
204	1928	1927	10	27	1.70
204	1928	1927	10	31	1.29
204	1928	1927	11	5	0.04
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204	1928	1927	11	21	0.03
204	1928	1927	12	9	0.15
204	1928	1927	12	10	0.41
204	1928	1927	12	14	0.25
204	1928	1927	12	21	0.32
204	1928	1927	12	25	2.92
204	1928	1927	12	26	0.11
204	1928	1927	12	29	0.20
204	1928	1927	12	30	0.14
204	1928	1928	1	22	0.06
204	1928	1928	1	23	0.06
204	1928	1928	2	1	0.12
204	1928	1928	2	2	0.06
204	1928	1928	2	3	1.29
204	1928	1928	2	4	1.26
204	1928	1928	2	5	0.26
204	1928	1928	3	3	0.89
204	1928	1928	3	5	0.01
204	1928	1928	3	6	0.02

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204	1928	1928	3	24	1.11
204	1928	1928	3	25	0.09
204	1928	1928	3	27	0.22
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204	1928	1928	4	4	0.04
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204	1928	1928	5	8	0.89
204	1928	1928	5	9	0.02
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204	1929	1928	11	3	0.14
204	1929	1928	11	13	1.16
204	1929	1928	11	14	1.37
204	1929	1928	11	15	0.12
204	1929	1928	12	2	0.14
204	1929	1928	12	3	0.92
204	1929	1928	12	10	0.37
204	1929	1928	12	11	0.12
204	1929	1928	12	12	0.26
204	1929	1928	12	13	0.37
204	1929	1929	1	16	0.57
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204	1929	1929	2	7	0.01
204	1929	1929	2	18	0.35
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204	1929	1929	3	24	0.36
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204	1929	1929	4	6	0.12
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204	1929	1929	6	8	0.03
204	1929	1929	6	16	0.07
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204	1930	1930	1	9	0.95
204	1930	1930	1	10	0.19
204	1930	1930	1	11	0.68
204	1930	1930	1	12	0.66
204	1930	1930	1	13	0.16

204	1930	1930	1	14	0.28
204	1930	1930	1	15	0.04
204	1930	1930	1	18	0.08
204	1930	1930	1	19	0.02
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204	1930	1930	2	23	0.12
204	1930	1930	2	26	0.17
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204	1930	1930	3	4	0.37
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204	1930	1930	3	16	0.11
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204	1930	1930	3	18	0.11
204	1930	1930	3	19	0.02
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204	1930	1930	5	4	0.13
204	1930	1930	5	5	0.03
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204	1930	1930	5	16	0.10
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204	1931	1930	11	13	0.14
204	1931	1930	11	15	0.09
204	1931	1930	11	16	0.17
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204	1931	1931	1	6	0.04
204	1931	1931	1	7	0.72
204	1931	1931	1	8	0.31
204	1931	1931	1	13	0.45
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204	1931	1931	2	12	0.36
204	1931	1931	2	13	0.11
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204	1931	1931	2	18	0.02
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204	1931	1931	4	27	0.12
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204	1931	1931	5	24	0.98
204	1931	1931	5	25	0.12
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204	1932	1931	11	15	0.78
204	1932	1931	11	17	0.02
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204	1932	1931	12	25	1.37
204	1932	1931	12	27	0.41
204	1932	1931	12	28	1.98
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204	1932	1932	1	13	0.28
204	1932	1932	1	15	1.45
204	1932	1932	1	16	0.02
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204	1932	1932	2	2	0.35
204	1932	1932	2	6	0.15
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204	1932	1932	2	9	0.72
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204	1932	1932	2	14	0.06
204	1932	1932	2	16	0.29
204	1932	1932	2	17	0.07
204	1932	1932	3	14	0.06
204	1932	1932	3	15	0.12
204	1932	1932	4	26	0.59
204	1932	1932	4	27	0.17
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204	1933	1933	1	23	0.54
204	1933	1933	1	24	0.02
204	1933	1933	1	25	0.66
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204	1934	1933	12	13	1.45
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204	1934	1933	12	15	0.27
204	1934	1933	12	16	0.07
204	1934	1933	12	30	0.48
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204	1934	1934	2	6	0.03
204	1934	1934	2	15	0.49
204	1934	1934	2	16	0.25
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204	1934	1934	2	23	0.43
204	1934	1934	2	24	1.23
204	1934	1934	2	26	0.13
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204	1934	1934	5	26	0.34
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204	1934	1934	6	6	0.13
204	1935	1934	10	17	0.66
204	1935	1934	10	18	0.76
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204	1935	1934	11	15	0.37

204	1935	1934	11	16	0.38
204	1935	1934	11	17	0.40
204	1935	1934	11	18	1.64
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204	1935	1934	12	9	0.07
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204	1935	1935	1	9	1.03
204	1935	1935	1	10	0.28
204	1935	1935	1	11	0.15
204	1935	1935	1	15	0.98
204	1935	1935	1	16	0.03
204	1935	1935	1	17	0.04
204	1935	1935	1	18	0.06
204	1935	1935	1	19	0.30
204	1935	1935	2	4	0.69
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204	1935	1935	2	7	0.05
204	1935	1935	2	8	0.05
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204	1935	1935	3	9	0.05
204	1935	1935	3	19	0.06
204	1935	1935	3	23	0.05
204	1935	1935	3	24	0.94
204	1935	1935	4	3	0.10
204	1935	1935	4	4	0.57
204	1935	1935	4	7	0.29
204	1935	1935	4	8	0.93
204	1935	1935	4	9	0.17
204	1935	1935	4	14	0.06
204	1935	1935	4	15	0.07
204	1935	1935	4	16	0.13
204	1935	1935	4	29	0.22
204	1935	1935	4	30	0.04
204	1935	1935	5	1	0.17
204	1935	1935	8	26	0.15
204	1936	1935	10	1	0.04
204	1936	1935	10	11	0.07
204	1936	1935	10	15	0.45
204	1936	1935	11	2	0.29
204	1936	1935	11	17	0.88

204	1936	1935	11	18	0.04
204	1936	1935	12	3	0.74
204	1936	1935	12	12	0.14
204	1936	1935	12	27	0.02
204	1936	1935	12	29	0.69
204	1936	1935	12	30	0.07
204	1936	1936	1	10	0.11
204	1936	1936	1	11	0.25
204	1936	1936	1	12	0.15
204	1936	1936	1	28	0.04
204	1936	1936	2	1	0.44
204	1936	1936	2	2	1.47
204	1936	1936	2	11	0.29
204	1936	1936	2	12	0.25
204	1936	1936	2	13	0.90
204	1936	1936	2	14	0.26
204	1936	1936	2	15	0.99
204	1936	1936	2	16	0.76
204	1936	1936	2	18	0.48
204	1936	1936	2	19	0.05
204	1936	1936	2	20	0.04
204	1936	1936	2	23	0.97
204	1936	1936	2	24	0.30
204	1936	1936	3	21	0.09
204	1936	1936	3	24	0.57
204	1936	1936	3	31	0.70
204	1936	1936	4	3	0.22
204	1936	1936	4	4	0.39
204	1936	1936	5	29	0.08
204	1936	1936	6	2	0.05
204	1936	1936	8	9	0.02
204	1936	1936	8	10	0.17
204	1937	1936	9	3	0.03
204	1937	1936	9	4	0.04
204	1937	1936	10	17	0.86
204	1937	1936	10	18	0.94
204	1937	1936	10	19	0.38
204	1937	1936	10	31	0.55
204	1937	1936	12	15	0.43
204	1937	1936	12	16	0.08
204	1937	1936	12	17	0.03
204	1937	1936	12	24	0.34
204	1937	1936	12	27	1.58
204	1937	1936	12	28	0.44
204	1937	1936	12	29	0.25
204	1937	1936	12	30	0.13
204	1937	1936	12	31	1.15
204	1937	1937	1	1	0.19
204	1937	1937	1	6	0.63
204	1937	1937	1	7	0.04
204	1937	1937	1	12	0.80
204	1937	1937	1	13	0.39

204	1937	1937	1	16	0.14
204	1937	1937	1	19	0.04
204	1937	1937	1	28	0.05
204	1937	1937	1	29	0.29
204	1937	1937	1	30	0.35
204	1937	1937	1	31	0.74
204	1937	1937	2	2	0.14
204	1937	1937	2	5	0.54
204	1937	1937	2	6	1.12
204	1937	1937	2	7	0.92
204	1937	1937	2	12	0.28
204	1937	1937	2	13	0.02
204	1937	1937	2	14	1.46
204	1937	1937	2	15	0.07
204	1937	1937	2	25	0.69
204	1937	1937	2	26	0.10
204	1937	1937	3	12	0.65
204	1937	1937	3	13	0.93
204	1937	1937	3	15	0.34
204	1937	1937	3	18	0.28
204	1937	1937	3	22	1.37
204	1937	1937	3	23	0.24
204	1937	1937	3	24	0.14
204	1937	1937	3	25	0.73
204	1937	1937	3	28	0.14
204	1937	1937	4	6	0.07
204	1937	1937	4	27	0.16
204	1937	1937	4	28	0.02
204	1938	1937	10	13	0.06
204	1938	1937	12	10	0.35
204	1938	1937	12	11	0.21
204	1938	1937	12	12	1.39
204	1938	1937	12	23	0.07
204	1938	1937	12	26	0.16
204	1938	1938	1	15	1.52
204	1938	1938	1	17	0.05
204	1938	1938	1	18	0.04
204	1938	1938	1	19	0.37
204	1938	1938	1	20	0.09
204	1938	1938	1	29	0.49
204	1938	1938	2	1	1.78
204	1938	1938	2	2	0.10
204	1938	1938	2	3	0.95
204	1938	1938	2	4	0.35
204	1938	1938	2	5	0.06
204	1938	1938	2	9	0.22
204	1938	1938	2	10	0.21
204	1938	1938	2	11	2.15
204	1938	1938	2	12	1.13
204	1938	1938	2	14	0.27
204	1938	1938	2	15	0.06
204	1938	1938	2	18	0.03



204	1938	1938	2	19	0.19
204	1938	1938	2	28	0.17
204	1938	1938	3	1	1.18
204	1938	1938	3	2	0.52
204	1938	1938	3	3	1.98
204	1938	1938	3	4	0.13
204	1938	1938	3	6	0.05
204	1938	1938	3	7	0.27
204	1938	1938	3	8	0.26
204	1938	1938	3	12	0.79
204	1938	1938	3	13	0.44
204	1938	1938	3	14	0.06
204	1938	1938	3	17	0.05
204	1938	1938	3	24	0.06
204	1938	1938	4	5	0.07
204	1938	1938	4	13	0.14
204	1938	1938	4	25	0.80
204	1938	1938	4	26	0.07
204	1938	1938	4	29	0.10
204	1938	1938	4	30	0.25
204	1938	1938	5	1	0.02
204	1939	1938	9	27	0.56
204	1939	1938	9	28	0.33
204	1939	1938	10	13	0.02
204	1939	1938	10	15	0.03
204	1939	1938	10	31	0.11
204	1939	1938	11	30	0.13
204	1939	1938	12	14	0.05
204	1939	1938	12	15	0.33
204	1939	1938	12	16	0.94
204	1939	1938	12	18	0.08
204	1939	1938	12	19	0.15
204	1939	1938	12	20	1.12
204	1939	1938	12	21	0.87
204	1939	1939	1	3	0.11
204	1939	1939	1	5	0.76
204	1939	1939	1	6	0.39
204	1939	1939	1	21	0.76
204	1939	1939	1	22	0.18
204	1939	1939	1	28	0.03
204	1939	1939	1	30	0.82
204	1939	1939	2	1	0.16
204	1939	1939	2	3	0.52
204	1939	1939	2	4	0.49
204	1939	1939	2	7	0.06
204	1939	1939	2	8	0.22
204	1939	1939	2	9	0.20
204	1939	1939	2	10	0.31
204	1939	1939	3	9	0.35
204	1939	1939	3	10	1.47
204	1939	1939	3	20	0.07
204	1939	1939	3	26	0.63

204	1939	1939	3	27	0.32
204	1939	1939	4	1	0.07
204	1939	1939	4	13	0.03
204	1939	1939	5	11	0.05
204	1940	1939	9	25	1.85
204	1940	1939	9	26	0.10
204	1940	1939	10	1	0.06
204	1940	1939	10	7	0.50
204	1940	1939	11	26	1.05
204	1940	1939	12	11	0.48
204	1940	1939	12	24	0.97
204	1940	1940	1	2	0.25
204	1940	1940	1	3	0.12
204	1940	1940	1	4	0.35
204	1940	1940	1	6	0.15
204	1940	1940	1	7	0.10
204	1940	1940	1	8	0.44
204	1940	1940	1	9	0.22
204	1940	1940	1	10	0.41
204	1940	1940	1	11	1.49
204	1940	1940	1	12	0.35
204	1940	1940	1	23	0.20
204	1940	1940	1	24	0.66
204	1940	1940	1	26	0.03
204	1940	1940	2	1	0.10
204	1940	1940	2	2	0.18
204	1940	1940	2	3	0.10
204	1940	1940	2	4	0.73
204	1940	1940	2	7	0.09
204	1940	1940	2	14	0.54
204	1940	1940	2	15	0.17
204	1940	1940	2	18	0.03
204	1940	1940	2	26	0.56
204	1940	1940	2	29	0.25
204	1940	1940	3	27	0.16
204	1940	1940	3	30	0.03
204	1940	1940	3	31	0.87
204	1940	1940	4	1	0.81
204	1940	1940	4	26	0.41
204	1940	1940	4	27	0.71
204	1941	1940	10	8	0.03
204	1941	1940	10	25	0.40
204	1941	1940	10	26	0.03
204	1941	1940	11	18	0.10
204	1941	1940	12	16	0.64
204	1941	1940	12	17	0.97
204	1941	1940	12	18	0.09
204	1941	1940	12	19	0.29
204	1941	1940	12	22	0.95
204	1941	1940	12	23	1.90
204	1941	1940	12	24	0.25
204	1941	1940	12	25	0.39

204	1941	1940	12	27	0.17
204	1941	1940	12	29	0.25
204	1941	1940	12	30	0.10
204	1941	1940	12	31	0.04
204	1941	1941	1	4	0.10
204	1941	1941	1	5	0.19
204	1941	1941	1	7	0.68
204	1941	1941	1	8	0.53
204	1941	1941	1	9	2.10
204	1941	1941	1	10	0.21
204	1941	1941	1	11	0.03
204	1941	1941	1	14	0.28
204	1941	1941	1	16	0.03
204	1941	1941	1	20	0.33
204	1941	1941	1	22	0.81
204	1941	1941	1	23	0.03
204	1941	1941	1	24	0.57
204	1941	1941	1	26	0.55
204	1941	1941	2	6	1.10
204	1941	1941	2	8	0.55
204	1941	1941	2	9	0.03
204	1941	1941	2	10	0.45
204	1941	1941	2	11	0.72
204	1941	1941	2	12	0.60
204	1941	1941	2	15	0.92
204	1941	1941	2	16	0.06
204	1941	1941	2	17	2.12
204	1941	1941	2	18	0.03
204	1941	1941	2	20	0.12
204	1941	1941	2	21	0.28
204	1941	1941	2	22	0.60
204	1941	1941	2	24	0.52
204	1941	1941	2	25	0.05
204	1941	1941	3	1	1.79
204	1941	1941	3	2	0.38
204	1941	1941	3	3	0.12
204	1941	1941	3	4	1.56
204	1941	1941	3	5	0.63
204	1941	1941	3	12	0.32
204	1941	1941	3	13	2.21
204	1941	1941	3	14	0.35
204	1941	1941	3	15	0.17
204	1941	1941	3	29	1.66
204	1941	1941	3	31	0.94
204	1941	1941	4	1	0.81
204	1941	1941	4	2	0.32
204	1941	1941	4	5	0.92
204	1941	1941	4	10	0.11
204	1941	1941	4	11	1.12
204	1941	1941	4	30	0.55
204	1941	1941	5	12	0.06
204	1941	1941	7	26	0.05

204	1941	1941	8	15	0.03
204	1942	1941	10	20	0.19
204	1942	1941	10	22	0.36
204	1942	1941	10	27	0.50
204	1942	1941	11	30	0.32
204	1942	1941	12	3	0.61
204	1942	1941	12	4	0.22
204	1942	1941	12	9	0.03
204	1942	1941	12	10	0.08
204	1942	1941	12	11	0.75
204	1942	1941	12	13	0.05
204	1942	1941	12	15	0.37
204	1942	1941	12	17	0.15
204	1942	1941	12	21	0.04
204	1942	1941	12	26	0.31
204	1942	1941	12	27	0.02
204	1942	1941	12	28	3.87
204	1942	1941	12	29	0.55
204	1942	1941	12	30	0.35
204	1942	1941	12	31	0.51
204	1942	1942	1	1	0.51
204	1942	1942	1	22	0.74
204	1942	1942	1	23	0.02
204	1942	1942	1	25	0.27
204	1942	1942	1	26	0.07
204	1942	1942	1	28	0.24
204	1942	1942	1	29	0.01
204	1942	1942	2	3	0.10
204	1942	1942	2	7	0.03
204	1942	1942	2	22	0.55
204	1942	1942	2	24	0.02
204	1942	1942	3	11	0.50
204	1942	1942	3	12	0.03
204	1942	1942	3	15	1.42
204	1942	1942	4	4	0.35
204	1942	1942	4	5	0.05
204	1942	1942	4	6	0.55
204	1942	1942	4	10	0.08
204	1942	1942	4	11	0.06
204	1942	1942	4	13	0.03
204	1942	1942	4	14	0.54
204	1942	1942	4	17	0.48
204	1942	1942	4	21	0.06
204	1942	1942	4	22	1.35
204	1942	1942	4	28	0.08
204	1942	1942	5	1	0.07
204	1942	1942	5	11	0.06
204	1942	1942	5	26	0.10
204	1942	1942	8	10	0.07
204	1943	1942	10	28	0.11
204	1943	1942	10	29	0.69
204	1943	1942	11	4	0.01

204	1943	1942	11	15	0.11
204	1943	1942	11	18	0.04
204	1943	1942	11	19	0.48
204	1943	1942	11	20	0.08
204	1943	1942	12	7	0.02
204	1943	1942	12	24	1.53
204	1943	1942	12	25	0.38
204	1943	1943	1	21	0.30
204	1943	1943	1	22	2.83
204	1943	1943	1	23	2.14
204	1943	1943	1	24	0.23
204	1943	1943	1	25	0.10
204	1943	1943	1	26	0.30
204	1943	1943	1	27	0.50
204	1943	1943	1	30	0.12
204	1943	1943	1	31	0.31
204	1943	1943	2	8	0.09
204	1943	1943	2	9	0.15
204	1943	1943	2	17	0.12
204	1943	1943	2	21	0.35
204	1943	1943	2	22	0.97
204	1943	1943	2	23	0.25
204	1943	1943	2	24	0.25
204	1943	1943	3	3	0.14
204	1943	1943	3	4	0.95
204	1943	1943	3	5	0.45
204	1943	1943	3	6	0.03
204	1943	1943	3	7	0.05
204	1943	1943	3	8	0.15
204	1943	1943	3	9	0.35
204	1943	1943	3	10	0.24
204	1943	1943	3	11	0.07
204	1943	1943	3	18	0.30
204	1943	1943	3	30	0.11
204	1943	1943	4	6	0.87
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204	1943	1943	4	15	0.01
204	1944	1943	10	19	0.37
204	1944	1943	10	20	0.07
204	1944	1943	10	21	0.03
204	1944	1943	10	27	0.37
204	1944	1943	10	28	0.09
204	1944	1943	11	18	0.04
204	1944	1943	11	20	0.13
204	1944	1943	12	6	0.74
204	1944	1943	12	10	0.09
204	1944	1943	12	11	0.93
204	1944	1943	12	12	0.03
204	1944	1943	12	18	0.02
204	1944	1943	12	20	0.06
204	1944	1943	12	21	0.58
204	1944	1943	12	28	0.58

204	1944	1943	12	29	0.87
204	1944	1943	12	30	0.32
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204	1944	1944	1	3	0.22
204	1944	1944	1	4	0.04
204	1944	1944	1	6	0.22
204	1944	1944	1	24	0.55
204	1944	1944	1	25	0.03
204	1944	1944	1	27	0.03
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204	1944	1944	2	15	0.15
204	1944	1944	2	17	0.03
204	1944	1944	2	20	1.57
204	1944	1944	2	21	0.91
204	1944	1944	2	22	2.13
204	1944	1944	2	23	0.33
204	1944	1944	2	24	0.12
204	1944	1944	2	26	0.09
204	1944	1944	2	27	0.25
204	1944	1944	2	29	0.20
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204	1944	1944	3	2	0.29
204	1944	1944	3	4	0.14
204	1944	1944	3	5	0.35
204	1944	1944	3	14	0.03
204	1944	1944	4	9	0.03
204	1944	1944	4	12	0.05
204	1944	1944	4	27	1.51
204	1944	1944	4	28	0.06
204	1944	1944	5	15	0.04
204	1944	1944	5	18	0.02
204	1945	1944	11	1	0.17
204	1945	1944	11	5	0.28
204	1945	1944	11	10	0.28
204	1945	1944	11	11	0.74
204	1945	1944	11	12	0.77
204	1945	1944	11	13	0.10
204	1945	1944	11	14	0.48
204	1945	1944	11	15	0.35
204	1945	1944	12	2	0.25
204	1945	1944	12	22	0.22
204	1945	1944	12	23	0.50
204	1945	1944	12	28	0.28
204	1945	1944	12	29	0.30
204	1945	1945	1	31	0.10
204	1945	1945	2	1	1.25
204	1945	1945	2	2	1.75
204	1945	1945	2	3	0.69
204	1945	1945	2	4	0.05

204	1945	1945	2	5	0.02
204	1945	1945	2	15	0.04
204	1945	1945	2	28	0.15
204	1945	1945	3	2	0.31
204	1945	1945	3	4	0.25
204	1945	1945	3	15	0.42
204	1945	1945	3	17	0.95
204	1945	1945	3	21	0.14
204	1945	1945	3	22	0.02
204	1945	1945	3	23	0.69
204	1945	1945	3	26	0.45
204	1945	1945	3	27	0.03
204	1945	1945	4	9	0.09
204	1945	1945	5	13	0.02
204	1945	1945	6	4	0.02
204	1945	1945	8	2	0.09
204	1946	1945	10	15	0.02
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204	1946	1945	10	31	0.06
204	1946	1945	11	6	0.09
204	1946	1945	11	7	0.10
204	1946	1945	11	11	0.14
204	1946	1945	11	15	0.04
204	1946	1945	11	25	0.22
204	1946	1945	11	29	0.31
204	1946	1945	12	5	0.41
204	1946	1945	12	6	0.33
204	1946	1945	12	22	2.02
204	1946	1945	12	23	0.70
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204	1946	1945	12	26	0.02
204	1946	1946	1	3	0.33
204	1946	1946	1	5	0.31
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204	1946	1946	2	4	0.30
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204	1946	1946	2	16	0.15
204	1946	1946	2	20	0.03
204	1946	1946	3	13	0.06
204	1946	1946	3	14	0.12
204	1946	1946	3	19	0.92
204	1946	1946	3	20	0.31
204	1946	1946	3	28	0.32
204	1946	1946	3	29	0.63
204	1946	1946	3	30	2.14
204	1946	1946	3	31	0.27
204	1946	1946	4	1	1.18
204	1946	1946	4	7	0.01
204	1946	1946	5	22	0.03
204	1946	1946	5	26	0.05
204	1946	1946	5	27	0.03
204	1947	1946	10	1	0.08

204	1947	1946	10	16	0.22
204	1947	1946	11	8	0.04
204	1947	1946	11	12	0.70
204	1947	1946	11	13	1.20
204	1947	1946	11	14	0.47
204	1947	1946	11	20	1.73
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204	1947	1946	11	24	0.04
204	1947	1946	12	5	0.14
204	1947	1946	12	6	0.08
204	1947	1946	12	7	0.15
204	1947	1946	12	24	0.05
204	1947	1946	12	25	0.23
204	1947	1946	12	26	0.34
204	1947	1946	12	27	0.29
204	1947	1946	12	28	0.05
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204	1947	1947	2	10	0.46
204	1947	1947	2	12	0.02
204	1947	1947	2	13	0.02
204	1947	1947	2	17	0.07
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204	1947	1947	3	20	0.05
204	1947	1947	3	21	0.02
204	1947	1947	3	28	0.39
204	1947	1947	3	29	0.01
204	1947	1947	3	30	0.04
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204	1947	1947	4	4	0.05
204	1947	1947	4	25	0.03
204	1947	1947	5	27	0.11
204	1947	1947	6	7	0.03
204	1947	1947	8	9	0.05
204	1948	1947	10	11	0.14
204	1948	1947	10	17	0.08
204	1948	1947	10	29	0.02
204	1948	1947	10	30	0.10
204	1948	1947	11	2	0.01
204	1948	1947	12	4	0.04
204	1948	1947	12	5	0.14
204	1948	1947	12	6	0.02
204	1948	1947	12	18	0.03
204	1948	1947	12	21	0.33
204	1948	1948	1	3	0.01
204	1948	1948	2	2	0.02
204	1948	1948	2	5	0.70
204	1948	1948	2	6	0.29



204	1948	1948	2	7	0.14
204	1948	1948	2	28	0.20
204	1948	1948	2	29	0.01
204	1948	1948	3	9	0.11
204	1948	1948	3	14	1.10
204	1948	1948	3	15	0.22
204	1948	1948	3	17	0.62
204	1948	1948	3	19	0.05
204	1948	1948	3	20	0.04
204	1948	1948	3	24	0.71
204	1948	1948	3	25	0.34
204	1948	1948	3	29	0.07
204	1948	1948	4	3	0.36
204	1948	1948	4	4	0.02
204	1948	1948	4	6	0.04
204	1948	1948	4	9	0.15
204	1948	1948	4	10	0.26
204	1948	1948	4	11	0.06
204	1948	1948	4	22	0.05
204	1948	1948	4	29	0.78
204	1948	1948	5	19	0.05
204	1948	1948	5	30	0.20
204	1948	1948	5	31	0.51
204	1948	1948	6	4	0.06
204	1949	1948	10	12	0.15
204	1949	1948	12	4	0.25
204	1949	1948	12	6	0.05
204	1949	1948	12	14	0.09
204	1949	1948	12	15	0.09
204	1949	1948	12	17	1.41
204	1949	1948	12	18	0.05
204	1949	1948	12	23	0.05
204	1949	1948	12	25	0.03
204	1949	1948	12	26	0.39
204	1949	1948	12	27	1.05
204	1949	1948	12	28	0.12
204	1949	1949	1	1	0.02
204	1949	1949	1	2	0.11
204	1949	1949	1	12	0.24
204	1949	1949	1	19	0.02
204	1949	1949	1	20	0.34
204	1949	1949	1	22	0.19
204	1949	1949	1	23	0.34
204	1949	1949	1	24	0.02
204	1949	1949	2	3	0.12
204	1949	1949	2	5	0.14
204	1949	1949	2	7	0.37
204	1949	1949	2	8	0.01
204	1949	1949	2	12	0.21
204	1949	1949	2	24	0.22
204	1949	1949	2	25	0.25
204	1949	1949	2	26	0.08

204	1949	1949	2	27	0.21
204	1949	1949	3	2	0.21
204	1949	1949	3	3	0.07
204	1949	1949	3	4	1.19
204	1949	1949	3	5	0.52
204	1949	1949	3	6	0.06
204	1949	1949	3	8	0.06
204	1949	1949	3	10	0.11
204	1949	1949	3	11	0.52
204	1949	1949	3	12	0.20
204	1949	1949	3	16	0.05
204	1949	1949	3	20	0.71
204	1949	1949	3	23	0.34
204	1949	1949	3	24	0.08
204	1949	1949	4	17	0.24
204	1949	1949	5	18	0.16
204	1949	1949	5	19	0.56
204	1949	1949	5	20	0.03
204	1950	1949	10	19	0.02
204	1950	1949	11	8	0.13
204	1950	1949	11	10	1.50
204	1950	1949	12	8	2.33
204	1950	1949	12	9	0.11
204	1950	1949	12	15	0.43
204	1950	1949	12	18	0.21
204	1950	1949	12	19	0.55
204	1950	1950	1	2	0.06
204	1950	1950	1	8	0.10
204	1950	1950	1	9	0.66
204	1950	1950	1	11	0.48
204	1950	1950	1	12	0.15
204	1950	1950	1	14	0.20
204	1950	1950	1	15	0.26
204	1950	1950	1	17	0.15
204	1950	1950	1	24	0.02
204	1950	1950	1	28	0.19
204	1950	1950	1	29	0.25
204	1950	1950	2	5	0.22
204	1950	1950	2	6	0.99
204	1950	1950	2	10	0.23
204	1950	1950	2	11	0.02
204	1950	1950	3	2	0.10
204	1950	1950	3	25	1.39
204	1950	1950	3	26	0.02
204	1950	1950	4	8	0.62
204	1950	1950	5	3	0.15
204	1950	1950	7	10	0.90
204	1951	1950	10	27	0.77
204	1951	1950	10	31	0.09
204	1951	1950	11	13	0.09
204	1951	1950	11	14	0.30
204	1951	1950	11	15	0.05

204	1951	1950	11	17	0.06
204	1951	1950	11	18	0.52
204	1951	1950	11	19	0.25
204	1951	1950	11	20	0.56
204	1951	1950	12	1	0.06
204	1951	1950	12	4	0.40
204	1951	1950	12	7	0.02
204	1951	1950	12	14	0.04
204	1951	1950	12	15	0.13
204	1951	1950	12	26	0.03
204	1951	1951	1	5	0.19
204	1951	1951	1	10	0.50
204	1951	1951	1	11	0.02
204	1951	1951	1	12	0.41
204	1951	1951	1	16	0.16
204	1951	1951	1	18	0.05
204	1951	1951	1	19	0.34
204	1951	1951	1	29	0.42
204	1951	1951	2	5	0.02
204	1951	1951	2	12	0.09
204	1951	1951	2	23	0.10
204	1951	1951	2	25	0.20
204	1951	1951	2	27	1.20
204	1951	1951	3	1	1.14
204	1951	1951	3	2	0.17
204	1951	1951	3	5	0.05
204	1951	1951	3	6	0.06
204	1951	1951	4	4	0.10
204	1951	1951	4	19	0.19
204	1951	1951	4	25	0.65
204	1951	1951	4	26	0.01
204	1951	1951	4	28	0.74
204	1951	1951	5	4	0.02
204	1952	1951	10	25	0.59
204	1952	1951	10	26	0.21
204	1952	1951	11	20	0.95
204	1952	1951	11	21	0.24
204	1952	1951	11	22	0.02
204	1952	1951	12	1	0.05
204	1952	1951	12	2	0.54
204	1952	1951	12	4	0.70
204	1952	1951	12	5	0.83
204	1952	1951	12	12	0.29
204	1952	1951	12	13	0.10
204	1952	1951	12	19	0.43
204	1952	1951	12	29	0.28
204	1952	1951	12	30	0.80
204	1952	1951	12	31	0.29
204	1952	1952	1	7	0.74
204	1952	1952	1	8	0.10
204	1952	1952	1	11	0.05
204	1952	1952	1	12	0.44

204	1952	1952	1	13	0.64
204	1952	1952	1	14	0.05
204	1952	1952	1	15	1.36
204	1952	1952	1	16	1.44
204	1952	1952	1	17	0.30
204	1952	1952	1	18	0.48
204	1952	1952	1	21	0.08
204	1952	1952	1	24	0.04
204	1952	1952	1	27	0.87
204	1952	1952	2	2	0.03
204	1952	1952	2	12	0.18
204	1952	1952	2	17	0.11
204	1952	1952	2	21	0.04
204	1952	1952	3	1	0.47
204	1952	1952	3	2	0.06
204	1952	1952	3	4	0.17
204	1952	1952	3	7	1.97
204	1952	1952	3	8	0.02
204	1952	1952	3	9	0.30
204	1952	1952	3	10	0.07
204	1952	1952	3	11	0.18
204	1952	1952	3	13	0.18
204	1952	1952	3	15	3.58
204	1952	1952	3	16	0.55
204	1952	1952	3	19	0.20
204	1952	1952	3	20	0.03
204	1952	1952	4	7	0.09
204	1952	1952	4	8	0.20
204	1952	1952	4	10	0.19
204	1952	1952	4	11	0.04
204	1952	1952	4	14	0.01
204	1952	1952	4	26	0.04
204	1952	1952	5	12	0.02
204	1952	1952	6	6	0.03
204	1952	1952	7	30	0.02
204	1953	1952	11	14	0.65
204	1953	1952	11	15	1.31
204	1953	1952	11	16	0.66
204	1953	1952	11	23	0.04
204	1953	1952	11	30	0.74
204	1953	1952	12	2	1.13
204	1953	1952	12	6	0.16
204	1953	1952	12	7	0.15
204	1953	1952	12	8	0.15
204	1953	1952	12	20	1.41
204	1953	1952	12	27	0.29
204	1953	1952	12	28	1.01
204	1953	1952	12	31	1.09
204	1953	1953	1	6	0.10
204	1953	1953	1	7	0.07
204	1953	1953	1	8	0.09
204	1953	1953	1	13	0.17

204	1953	1953	1	14	0.75
204	1953	1953	1	15	0.07
204	1953	1953	1	20	0.01
204	1953	1953	3	2	0.39
204	1953	1953	3	10	0.10
204	1953	1953	3	20	0.59
204	1953	1953	4	8	0.03
204	1953	1953	4	20	0.16
204	1953	1953	4	27	0.13
204	1953	1953	4	28	0.95
204	1954	1953	11	5	0.24
204	1954	1953	11	14	2.05
204	1954	1953	11	15	0.07
204	1954	1953	11	20	0.15
204	1954	1953	12	4	0.25
204	1954	1954	1	11	0.43
204	1954	1954	1	12	0.52
204	1954	1954	1	13	0.14
204	1954	1954	1	17	0.02
204	1954	1954	1	18	0.12
204	1954	1954	1	19	0.22
204	1954	1954	1	20	1.24
204	1954	1954	1	23	0.03
204	1954	1954	1	24	0.50
204	1954	1954	1	25	1.42
204	1954	1954	2	13	0.82
204	1954	1954	2	14	0.39
204	1954	1954	2	15	0.05
204	1954	1954	2	17	0.03
204	1954	1954	2	18	0.18
204	1954	1954	3	9	0.15
204	1954	1954	3	10	0.07
204	1954	1954	3	16	0.02
204	1954	1954	3	17	1.39
204	1954	1954	3	18	0.03
204	1954	1954	3	20	1.02
204	1954	1954	3	21	0.34
204	1954	1954	3	24	0.11
204	1954	1954	3	25	0.39
204	1954	1954	3	30	0.79
204	1954	1954	4	28	0.26
204	1954	1954	5	15	0.02
204	1955	1954	11	11	0.31
204	1955	1954	11	12	0.10
204	1955	1954	11	16	0.88
204	1955	1954	12	3	0.32
204	1955	1954	12	4	1.53
204	1955	1954	12	10	0.82
204	1955	1954	12	15	0.01
204	1955	1955	1	1	0.10
204	1955	1955	1	2	0.72
204	1955	1955	1	5	0.02

204	1955	1955	1	10	1.06
204	1955	1955	1	11	0.22
204	1955	1955	1	16	0.62
204	1955	1955	1	17	0.08
204	1955	1955	1	18	1.06
204	1955	1955	1	19	0.47
204	1955	1955	1	20	0.02
204	1955	1955	1	31	0.05
204	1955	1955	2	1	0.01
204	1955	1955	2	17	0.76
204	1955	1955	2	18	0.06
204	1955	1955	2	26	0.12
204	1955	1955	2	27	0.33
204	1955	1955	2	28	0.14
204	1955	1955	3	9	0.01
204	1955	1955	3	10	0.09
204	1955	1955	3	11	0.23
204	1955	1955	4	18	0.06
204	1955	1955	4	21	0.05
204	1955	1955	4	22	1.06
204	1955	1955	4	23	0.02
204	1955	1955	4	26	0.14
204	1955	1955	4	30	0.53
204	1955	1955	5	1	0.10
204	1955	1955	5	2	0.09
204	1955	1955	5	7	0.21
204	1955	1955	5	8	0.79
204	1955	1955	5	30	0.02
204	1955	1955	6	14	0.02
204	1955	1955	8	5	0.01
204	1956	1955	11	14	1.40
204	1956	1955	11	17	0.25
204	1956	1955	11	18	0.11
204	1956	1955	11	21	0.20
204	1956	1955	12	1	0.01
204	1956	1955	12	2	0.13
204	1956	1955	12	4	0.34
204	1956	1955	12	5	0.02
204	1956	1955	12	6	0.12
204	1956	1955	12	7	0.18
204	1956	1955	12	9	0.02
204	1956	1955	12	20	0.04
204	1956	1955	12	23	0.17
204	1956	1955	12	24	1.25
204	1956	1955	12	25	3.15
204	1956	1955	12	26	0.12
204	1956	1955	12	27	0.74
204	1956	1955	12	31	0.18
204	1956	1956	1	2	0.02
204	1956	1956	1	16	0.04
204	1956	1956	1	20	0.02
204	1956	1956	1	21	0.02

204	1956	1956	1	23	0.16
204	1956	1956	1	25	1.17
204	1956	1956	1	26	2.24
204	1956	1956	1	27	0.76
204	1956	1956	1	31	0.27
204	1956	1956	2	18	0.04
204	1956	1956	2	23	0.30
204	1956	1956	2	24	0.18
204	1956	1956	2	26	0.07
204	1956	1956	4	1	0.06
204	1956	1956	4	2	0.02
204	1956	1956	4	11	0.06
204	1956	1956	4	12	0.94
204	1956	1956	4	14	0.04
204	1956	1956	4	15	0.01
204	1956	1956	4	27	0.36
204	1956	1956	4	28	0.39
204	1956	1956	5	4	0.04
204	1956	1956	5	9	0.73
204	1956	1956	5	10	0.42
204	1957	1956	10	2	0.01
204	1957	1956	10	4	0.53
204	1957	1956	10	6	0.04
204	1957	1956	10	7	0.02
204	1957	1956	10	31	0.04
204	1957	1956	12	5	0.06
204	1957	1956	12	6	0.30
204	1957	1957	1	4	0.40
204	1957	1957	1	7	0.04
204	1957	1957	1	12	0.01
204	1957	1957	1	13	1.23
204	1957	1957	1	14	0.02
204	1957	1957	1	20	0.10
204	1957	1957	1	21	0.58
204	1957	1957	1	23	0.03
204	1957	1957	1	24	0.23
204	1957	1957	1	26	0.39
204	1957	1957	1	27	0.01
204	1957	1957	1	29	0.13
204	1957	1957	2	8	0.41
204	1957	1957	2	9	0.47
204	1957	1957	2	10	0.02
204	1957	1957	2	17	0.01
204	1957	1957	2	18	0.03
204	1957	1957	2	20	0.01
204	1957	1957	2	23	0.91
204	1957	1957	2	24	0.04
204	1957	1957	2	28	0.30
204	1957	1957	3	1	0.76
204	1957	1957	3	9	0.05
204	1957	1957	3	10	0.15
204	1957	1957	3	16	0.17

204	1957	1957	3	19	0.11
204	1957	1957	4	14	0.06
204	1957	1957	4	17	0.01
204	1957	1957	4	18	0.97
204	1957	1957	4	20	0.13
204	1957	1957	4	21	0.13
204	1957	1957	5	11	0.02
204	1957	1957	5	12	0.25
204	1957	1957	5	15	0.09
204	1957	1957	5	19	0.60
204	1957	1957	5	20	0.05
204	1957	1957	5	21	0.27
204	1957	1957	6	10	0.08
204	1958	1957	10	11	0.18
204	1958	1957	10	12	0.01
204	1958	1957	10	13	0.06
204	1958	1957	10	14	0.34
204	1958	1957	10	20	0.01
204	1958	1957	10	21	0.22
204	1958	1957	11	3	0.20
204	1958	1957	11	14	0.11
204	1958	1957	11	15	0.09
204	1958	1957	11	17	0.03
204	1958	1957	12	5	1.06
204	1958	1957	12	6	0.54
204	1958	1957	12	15	0.25
204	1958	1957	12	16	0.65
204	1958	1957	12	17	0.91
204	1958	1957	12	18	0.01
204	1958	1957	12	19	0.07
204	1958	1957	12	22	0.02
204	1958	1958	1	2	0.09
204	1958	1958	1	10	0.18
204	1958	1958	1	24	0.01
204	1958	1958	1	25	0.67
204	1958	1958	1	26	1.62
204	1958	1958	1	27	0.29
204	1958	1958	1	30	0.17
204	1958	1958	2	3	1.43
204	1958	1958	2	4	0.79
204	1958	1958	2	5	0.34
204	1958	1958	2	7	0.10
204	1958	1958	2	8	0.26
204	1958	1958	2	13	0.52
204	1958	1958	2	19	1.73
204	1958	1958	2	25	1.84
204	1958	1958	2	26	0.18
204	1958	1958	3	1	0.12
204	1958	1958	3	2	0.01
204	1958	1958	3	6	0.32
204	1958	1958	3	7	0.02
204	1958	1958	3	9	0.02



204	1958	1958	3	11	0.15
204	1958	1958	3	12	0.01
204	1958	1958	3	13	0.11
204	1958	1958	3	14	0.07
204	1958	1958	3	15	0.69
204	1958	1958	3	16	0.81
204	1958	1958	3	17	0.14
204	1958	1958	3	20	0.06
204	1958	1958	3	21	0.63
204	1958	1958	3	22	0.76
204	1958	1958	3	24	0.07
204	1958	1958	3	27	0.97
204	1958	1958	3	28	0.39
204	1958	1958	3	30	0.31
204	1958	1958	3	31	0.19
204	1958	1958	4	1	1.11
204	1958	1958	4	2	0.58
204	1958	1958	4	3	1.61
204	1958	1958	4	4	0.52
204	1958	1958	4	5	1.26
204	1958	1958	4	6	1.31
204	1958	1958	5	1	0.05
204	1958	1958	5	11	0.01
204	1958	1958	5	12	0.02
204	1958	1958	5	22	0.25
204	1959	1958	9	7	0.59
204	1959	1958	9	8	0.32
204	1959	1958	9	23	0.56
204	1959	1958	9	24	0.15
204	1959	1958	11	10	0.10
204	1959	1958	11	11	0.03
204	1959	1958	11	15	0.04
204	1959	1958	12	28	0.10
204	1959	1958	12	29	0.11
204	1959	1959	1	6	2.05
204	1959	1959	1	7	0.07
204	1959	1959	1	10	0.08
204	1959	1959	1	13	0.30
204	1959	1959	2	7	0.02
204	1959	1959	2	8	0.18
204	1959	1959	2	10	0.21
204	1959	1959	2	11	1.57
204	1959	1959	2	12	0.45
204	1959	1959	2	16	0.58
204	1959	1959	2	17	0.34
204	1959	1959	2	18	0.03
204	1959	1959	2	19	0.09
204	1959	1959	2	21	1.32
204	1959	1959	2	22	0.19
204	1959	1959	4	25	0.31
204	1959	1959	4	26	0.19
204	1959	1959	4	27	0.18

204	1960	1959	9	17	0.01
204	1960	1959	9	19	0.04
204	1960	1959	12	10	0.06
204	1960	1959	12	24	0.36
204	1960	1959	12	25	0.47
204	1960	1960	1	1	0.02
204	1960	1960	1	10	2.30
204	1960	1960	1	11	0.12
204	1960	1960	1	12	0.78
204	1960	1960	1	14	0.20
204	1960	1960	1	15	0.53
204	1960	1960	1	23	0.39
204	1960	1960	1	25	0.16
204	1960	1960	2	2	2.02
204	1960	1960	2	3	0.04
204	1960	1960	2	4	0.13
204	1960	1960	2	6	0.13
204	1960	1960	2	9	0.40
204	1960	1960	2	10	0.41
204	1960	1960	2	11	0.05
204	1960	1960	2	19	0.04
204	1960	1960	2	29	0.75
204	1960	1960	3	13	0.29
204	1960	1960	3	23	0.01
204	1960	1960	3	28	0.49
204	1960	1960	4	23	0.17
204	1960	1960	4	24	0.12
204	1960	1960	4	27	1.47
204	1960	1960	4	28	0.89
204	1961	1960	10	6	0.64
204	1961	1960	11	4	0.38
204	1961	1960	11	6	0.67
204	1961	1960	11	12	0.24
204	1961	1960	11	13	0.44
204	1961	1960	11	14	0.08
204	1961	1960	11	26	0.77
204	1961	1960	11	27	0.65
204	1961	1960	12	2	0.95
204	1961	1960	12	11	0.07
204	1961	1961	1	26	0.89
204	1961	1961	1	27	0.01
204	1961	1961	2	1	0.11
204	1961	1961	2	12	0.01
204	1961	1961	3	6	0.08
204	1961	1961	3	15	0.58
204	1961	1961	3	17	0.10
204	1961	1961	3	25	0.09
204	1961	1961	3	27	0.02
204	1961	1961	3	28	0.01
204	1961	1961	4	22	0.25
204	1961	1961	5	7	0.16
204	1962	1961	11	20	2.16

204	1962	1961	11	21	0.47
204	1962	1961	11	25	0.02
204	1962	1961	11	26	0.64
204	1962	1961	11	30	0.06
204	1962	1961	12	2	2.13
204	1962	1961	12	3	0.16
204	1962	1961	12	14	0.04
204	1962	1961	12	15	0.01
204	1962	1961	12	16	0.01
204	1962	1961	12	17	0.01
204	1962	1962	1	13	0.10
204	1962	1962	1	20	2.00
204	1962	1962	1	21	0.34
204	1962	1962	1	22	0.38
204	1962	1962	1	23	0.12
204	1962	1962	2	7	0.32
204	1962	1962	2	8	1.24
204	1962	1962	2	9	0.89
204	1962	1962	2	10	2.61
204	1962	1962	2	11	2.27
204	1962	1962	2	12	0.76
204	1962	1962	2	14	0.17
204	1962	1962	2	15	1.02
204	1962	1962	2	16	0.36
204	1962	1962	2	17	0.04
204	1962	1962	2	19	1.76
204	1962	1962	2	20	0.13
204	1962	1962	2	21	0.40
204	1962	1962	2	24	0.02
204	1962	1962	2	25	0.10
204	1962	1962	2	26	0.42
204	1962	1962	3	2	0.08
204	1962	1962	3	3	0.08
204	1962	1962	3	5	0.05
204	1962	1962	3	6	0.75
204	1962	1962	3	7	0.34
204	1962	1962	3	8	0.02
204	1962	1962	3	15	0.06
204	1962	1962	3	19	0.21
204	1962	1962	3	20	0.02
204	1962	1962	3	21	0.02
204	1962	1962	3	23	0.32
204	1962	1962	3	28	0.02
204	1962	1962	4	28	0.04
204	1962	1962	5	12	0.01
204	1962	1962	5	17	0.08
204	1962	1962	5	27	0.01
204	1963	1962	10	14	0.46
204	1963	1962	11	2	0.01
204	1963	1962	12	16	0.28
204	1963	1962	12	17	0.16
204	1963	1963	1	30	0.06

204	1963	1963	1	31	0.42
204	1963	1963	2	1	0.52
204	1963	1963	2	2	0.32
204	1963	1963	2	9	0.16
204	1963	1963	2	10	2.65
204	1963	1963	2	11	0.86
204	1963	1963	2	13	0.20
204	1963	1963	2	14	0.05
204	1963	1963	3	7	0.02
204	1963	1963	3	9	0.18
204	1963	1963	3	10	0.07
204	1963	1963	3	15	0.16
204	1963	1963	3	16	0.06
204	1963	1963	3	17	1.52
204	1963	1963	3	23	0.46
204	1963	1963	3	28	1.16
204	1963	1963	4	7	0.05
204	1963	1963	4	8	0.12
204	1963	1963	4	9	0.02
204	1963	1963	4	10	0.03
204	1963	1963	4	14	0.68
204	1963	1963	4	15	0.21
204	1963	1963	4	17	0.02
204	1963	1963	4	18	0.02
204	1963	1963	4	19	0.02
204	1963	1963	4	20	0.04
204	1963	1963	4	21	0.43
204	1963	1963	4	26	0.97
204	1963	1963	5	9	0.23
204	1963	1963	5	11	0.01
204	1963	1963	5	25	0.01
204	1963	1963	5	28	0.05
204	1963	1963	6	11	0.14
204	1963	1963	6	12	0.03
204	1963	1963	8	8	0.27
204	1963	1963	8	9	0.04
204	1964	1963	9	5	0.28
204	1964	1963	9	18	0.29
204	1964	1963	9	19	0.44
204	1964	1963	10	10	0.12
204	1964	1963	10	11	0.13
204	1964	1963	10	16	0.89
204	1964	1963	11	3	0.09
204	1964	1963	11	6	0.57
204	1964	1963	11	7	0.04
204	1964	1963	11	15	0.27
204	1964	1963	11	20	0.93
204	1964	1963	11	21	0.05
204	1964	1963	11	24	0.08
204	1964	1963	12	9	0.14
204	1964	1963	12	10	0.02
204	1964	1964	1	18	0.05

204	1964	1964	1	20	0.05
204	1964	1964	1	21	0.68
204	1964	1964	1	22	0.83
204	1964	1964	1	23	0.10
204	1964	1964	1	26	0.10
204	1964	1964	2	16	0.03
204	1964	1964	2	29	0.09
204	1964	1964	3	2	0.17
204	1964	1964	3	8	0.04
204	1964	1964	3	12	0.02
204	1964	1964	3	13	0.12
204	1964	1964	3	22	0.03
204	1964	1964	3	23	1.20
204	1964	1964	3	24	0.30
204	1964	1964	3	25	0.11
204	1964	1964	4	1	1.34
204	1964	1964	4	23	0.02
204	1964	1964	4	24	0.04
204	1964	1964	4	28	0.02
204	1964	1964	4	29	0.07
204	1964	1964	5	5	0.03
204	1964	1964	5	6	0.24
204	1964	1964	5	7	0.14
204	1964	1964	5	17	0.03
204	1964	1964	6	9	0.07
204	1964	1964	7	27	0.02
204	1965	1964	10	27	0.01
204	1965	1964	10	28	0.47
204	1965	1964	10	29	0.98
204	1965	1964	10	30	0.01
204	1965	1964	11	1	0.10
204	1965	1964	11	8	0.16
204	1965	1964	11	9	0.64
204	1965	1964	11	10	0.84
204	1965	1964	11	11	0.06
204	1965	1964	11	12	0.59
204	1965	1964	11	13	0.01
204	1965	1964	11	14	0.01
204	1965	1964	12	18	0.01
204	1965	1964	12	19	0.18
204	1965	1964	12	20	0.18
204	1965	1964	12	21	0.01
204	1965	1964	12	23	0.17
204	1965	1964	12	24	0.11
204	1965	1964	12	27	0.38
204	1965	1964	12	28	0.45
204	1965	1964	12	29	0.03
204	1965	1964	12	30	0.08
204	1965	1964	12	31	0.51
204	1965	1965	1	4	0.14
204	1965	1965	1	5	0.03
204	1965	1965	1	6	0.12

204	1965	1965	1	7	0.23
204	1965	1965	1	24	0.18
204	1965	1965	1	25	0.02
204	1965	1965	2	5	0.40
204	1965	1965	2	6	0.10
204	1965	1965	2	7	0.01
204	1965	1965	3	5	0.50
204	1965	1965	3	6	0.09
204	1965	1965	3	7	0.22
204	1965	1965	3	8	0.21
204	1965	1965	3	9	0.05
204	1965	1965	3	10	0.25
204	1965	1965	3	11	0.02
204	1965	1965	3	31	1.03
204	1965	1965	4	1	0.01
204	1965	1965	4	2	0.19
204	1965	1965	4	3	0.49
204	1965	1965	4	4	0.33
204	1965	1965	4	5	0.07
204	1965	1965	4	6	0.09
204	1965	1965	4	7	0.26
204	1965	1965	4	8	1.43
204	1965	1965	4	9	0.14
204	1965	1965	4	10	1.03
204	1965	1965	4	11	0.12
204	1965	1965	4	12	0.01
204	1965	1965	4	13	0.03
204	1966	1965	10	15	0.01
204	1966	1965	11	13	0.31
204	1966	1965	11	14	0.21
204	1966	1965	11	15	0.63
204	1966	1965	11	16	1.35
204	1966	1965	11	17	0.58
204	1966	1965	11	18	0.03
204	1966	1965	11	22	0.01
204	1966	1965	11	23	0.35
204	1966	1965	11	24	1.98
204	1966	1965	11	25	0.32
204	1966	1965	11	26	0.02
204	1966	1965	12	10	0.02
204	1966	1965	12	12	0.38
204	1966	1965	12	13	0.07
204	1966	1965	12	14	0.13
204	1966	1965	12	25	0.04
204	1966	1965	12	29	1.90
204	1966	1965	12	30	0.49
204	1966	1965	12	31	0.40
204	1966	1966	1	1	0.23
204	1966	1966	1	20	0.12
204	1966	1966	1	26	0.09
204	1966	1966	1	30	1.39
204	1966	1966	1	31	0.20

204	1966	1966	2	2	0.15
204	1966	1966	2	5	0.03
204	1966	1966	2	6	0.59
204	1966	1966	2	8	0.01
204	1966	1966	2	10	0.02
204	1966	1966	2	26	0.07
204	1966	1966	3	2	0.25
204	1966	1966	3	3	0.03
204	1966	1966	4	10	0.09
204	1966	1966	5	5	0.03
204	1966	1966	6	16	0.02
204	1967	1966	9	29	0.09
204	1967	1966	11	7	0.68
204	1967	1966	11	8	0.64
204	1967	1966	11	16	0.03
204	1967	1966	11	20	0.35
204	1967	1966	11	21	0.03
204	1967	1966	11	22	0.09
204	1967	1966	11	29	0.20
204	1967	1967	1	22	1.43
204	1967	1967	1	24	1.05
204	1967	1967	1	25	1.89
204	1967	1967	1	30	0.04
204	1967	1967	1	31	0.26
204	1967	1967	2	25	0.31
204	1967	1967	3	4	0.17
204	1967	1967	3	11	0.12
204	1967	1967	3	12	0.65
204	1967	1967	3	13	0.41
204	1967	1967	3	14	0.23
204	1967	1967	3	17	0.11
204	1967	1967	3	31	0.61
204	1967	1967	4	1	0.21
204	1967	1967	4	2	0.26
204	1967	1967	4	4	0.10
204	1967	1967	4	5	0.40
204	1967	1967	4	7	0.56
204	1967	1967	4	8	0.02
204	1967	1967	4	11	0.84
204	1967	1967	4	12	0.03
204	1967	1967	4	15	0.10
204	1967	1967	4	16	0.10
204	1967	1967	4	18	0.63
204	1967	1967	4	19	0.52
204	1967	1967	4	20	0.21
204	1967	1967	4	21	0.15
204	1967	1967	4	22	0.56
204	1967	1967	4	23	0.01
204	1967	1967	4	24	0.22
204	1967	1967	4	29	0.06
204	1968	1967	9	21	0.05
204	1968	1967	9	28	0.10

204	1968	1967	9	29	0.13	
204	1967	1966	12	3	1.70	E415
204	1967	1966	12	5	0.34	E415
204	1967	1966	12	6	2.00	E415
204	1967	1966	12	7	1.35	E415
204	1968	1967	11	19	0.37	
204	1968	1967	11	20	0.35	
204	1968	1967	11	21	0.44	
204	1968	1967	11	22	0.27	
204	1968	1967	11	27	0.02	
204	1968	1967	11	30	0.61	
204	1968	1967	12	1	0.05	
204	1968	1967	12	4	0.02	
204	1968	1967	12	5	0.05	
204	1968	1967	12	7	0.08	
204	1968	1967	12	19	0.57	
204	1968	1967	12	20	0.23	
204	1968	1967	12	21	0.03	
204	1968	1968	1	10	0.06	
204	1968	1968	1	11	0.18	
204	1968	1968	1	16	0.03	
204	1968	1968	1	27	0.01	
204	1968	1968	1	28	0.82	
204	1968	1968	1	30	0.35	
204	1968	1968	2	13	0.16	
204	1968	1968	2	17	0.62	
204	1968	1968	2	18	0.08	
204	1968	1968	2	21	0.02	
204	1968	1968	3	7	0.09	
204	1968	1968	3	8	1.44	
204	1968	1968	3	9	0.02	
204	1968	1968	3	13	0.91	
204	1968	1968	3	14	0.02	
204	1968	1968	3	17	0.35	
204	1968	1968	4	2	0.97	
204	1968	1968	5	12	0.02	
204	1968	1968	5	13	0.14	
204	1969	1968	10	13	0.20	
204	1969	1968	10	14	1.36	
204	1969	1968	10	30	0.37	
204	1969	1968	11	3	0.16	
204	1969	1968	11	4	0.05	
204	1969	1968	11	15	0.90	
204	1969	1968	11	16	0.05	
204	1969	1968	11	30	0.02	
204	1969	1968	12	10	0.29	
204	1969	1968	12	14	0.14	
204	1969	1968	12	15	0.11	
204	1969	1968	12	16	0.34	
204	1969	1968	12	20	0.10	
204	1969	1968	12	25	0.10	
204	1969	1968	12	26	0.60	



204	1969	1968	12	27	0.01
204	1969	1968	12	29	0.11
204	1969	1969	1	14	0.67
204	1969	1969	1	19	1.19
204	1969	1969	1	20	1.47
204	1969	1969	1	21	1.20
204	1969	1969	1	22	0.36
204	1969	1969	1	24	0.40
204	1969	1969	1	25	2.44
204	1969	1969	1	26	1.07
204	1969	1969	1	27	0.05
204	1969	1969	1	28	0.17
204	1969	1969	1	29	0.35
204	1969	1969	1	31	0.02
204	1969	1969	2	5	0.56
204	1969	1969	2	6	1.00
204	1969	1969	2	7	0.30
204	1969	1969	2	12	0.37
204	1969	1969	2	15	0.37
204	1969	1969	2	16	0.12
204	1969	1969	2	18	0.41
204	1969	1969	2	19	0.50
204	1969	1969	2	20	0.48
204	1969	1969	2	21	0.01
204	1969	1969	2	22	0.80
204	1969	1969	2	23	0.85
204	1969	1969	2	24	0.46
204	1969	1969	2	25	2.46
204	1969	1969	2	26	0.32
204	1969	1969	2	28	0.46
204	1969	1969	3	1	0.58
204	1969	1969	3	10	0.30
204	1969	1969	3	13	0.08
204	1969	1969	3	21	0.17
204	1969	1969	3	22	0.20
204	1969	1969	4	3	0.78
204	1969	1969	4	5	1.08
204	1969	1969	4	6	0.02
204	1969	1969	4	10	0.02
204	1969	1969	5	4	0.10
204	1970	1969	9	6	0.03
204	1970	1969	9	7	0.05
204	1970	1969	9	16	0.03
204	1970	1969	10	16	0.08
204	1970	1969	10	17	0.05
204	1970	1969	11	6	0.86
204	1970	1969	11	7	0.64
204	1970	1969	11	8	0.04
204	1970	1969	12	9	0.15
204	1970	1969	12	20	0.10
204	1970	1969	12	21	0.05
204	1970	1969	12	22	0.08

204	1970	1969	12	25	0.04
204	1970	1969	12	26	0.11
204	1970	1970	1	9	0.11
204	1970	1970	1	10	1.05
204	1970	1970	1	11	0.07
204	1970	1970	1	12	0.14
204	1970	1970	1	15	0.07
204	1970	1970	1	16	1.02
204	1970	1970	1	17	0.40
204	1970	1970	1	20	0.08
204	1970	1970	1	24	0.12
204	1970	1970	2	10	0.10
204	1970	1970	2	11	0.32
204	1970	1970	2	13	0.12
204	1970	1970	2	17	0.06
204	1970	1970	2	28	0.75
204	1970	1970	3	1	1.60
204	1970	1970	3	2	0.50
204	1970	1970	3	5	1.05
204	1970	1970	3	10	0.05
204	1970	1970	3	11	0.05
204	1970	1970	4	14	0.09
204	1970	1970	4	27	0.10
204	1971	1970	10	21	0.03
204	1971	1970	11	4	0.02
204	1971	1970	11	5	0.13
204	1971	1970	11	6	0.14
204	1971	1970	11	7	0.03
204	1971	1970	11	26	1.38
204	1971	1970	11	28	0.15
204	1971	1970	11	29	0.60
204	1971	1970	11	30	0.48
204	1971	1970	12	1	0.04
204	1971	1970	12	2	0.56
204	1971	1970	12	3	0.02
204	1971	1970	12	9	0.11
204	1971	1970	12	14	0.10
204	1971	1970	12	16	0.13
204	1971	1970	12	17	0.51
204	1971	1970	12	18	0.30
204	1971	1970	12	19	1.03
204	1971	1970	12	21	1.03
204	1971	1970	12	22	0.53
204	1971	1970	12	26	0.08
204	1971	1971	1	2	0.23
204	1971	1971	1	12	0.16
204	1971	1971	1	13	0.24
204	1971	1971	1	14	0.16
204	1971	1971	1	20	0.01
204	1971	1971	2	17	0.57
204	1971	1971	2	19	0.05
204	1971	1971	3	13	0.62

204	1971	1971	3	26	0.03
204	1971	1971	3	27	0.01
204	1971	1971	4	14	0.60
204	1971	1971	4	18	0.14
204	1971	1971	5	3	0.05
204	1971	1971	5	6	0.03
204	1971	1971	5	7	0.08
204	1971	1971	5	27	0.10
204	1971	1971	5	28	0.69
204	1972	1971	9	30	0.04
204	1972	1971	10	15	0.09
204	1972	1971	10	16	0.12
204	1972	1971	10	25	0.06
204	1972	1971	11	11	0.01
204	1972	1971	11	12	0.25
204	1972	1971	11	14	0.01
204	1972	1971	11	29	0.09
204	1972	1971	12	3	0.40
204	1972	1971	12	4	0.05
204	1972	1971	12	13	0.23
204	1972	1971	12	22	0.63
204	1972	1971	12	23	0.58
204	1972	1971	12	24	0.26
204	1972	1971	12	25	0.32
204	1972	1971	12	26	0.65
204	1972	1971	12	27	2.75
204	1972	1971	12	28	0.15
204	1972	1972	1	27	0.07
204	1972	1972	1	28	0.02
204	1972	1972	2	5	0.15
204	1972	1972	2	22	0.13
204	1972	1972	4	11	0.10
204	1972	1972	4	12	0.05
204	1972	1972	4	13	0.04
204	1972	1972	5	20	0.10
204	1972	1972	7	30	0.05
204	1973	1972	10	12	0.23
204	1973	1972	10	13	0.08
204	1973	1972	10	15	0.09
204	1973	1972	10	16	0.03
204	1973	1972	10	18	0.10
204	1973	1972	10	19	0.02
204	1973	1972	11	4	0.52
204	1973	1972	11	10	0.34
204	1973	1972	11	11	0.30
204	1973	1972	11	13	0.07
204	1973	1972	11	14	1.07
204	1973	1972	11	15	0.83
204	1973	1972	11	16	0.71
204	1973	1972	12	4	0.53
204	1973	1972	12	5	0.06
204	1973	1972	12	6	0.35

204	1973	1972	12	7	0.25
204	1973	1972	12	8	0.03
204	1973	1973	1	4	0.05
204	1973	1973	1	5	0.14
204	1973	1973	1	8	0.03
204	1973	1973	1	9	0.54
204	1973	1973	1	10	0.35
204	1973	1973	1	16	0.10
204	1973	1973	1	17	1.21
204	1973	1973	1	18	0.17
204	1973	1973	1	19	2.12
204	1973	1973	1	20	0.09
204	1973	1973	1	26	0.02
204	1973	1973	1	29	0.17
204	1973	1973	2	3	0.12
204	1973	1973	2	4	0.67
204	1973	1973	2	5	0.02
204	1973	1973	2	6	0.56
204	1973	1973	2	7	0.61
204	1973	1973	2	8	0.03
204	1973	1973	2	10	0.32
204	1973	1973	2	11	1.94
204	1973	1973	2	12	0.14
204	1973	1973	2	13	0.60
204	1973	1973	2	15	0.13
204	1973	1973	2	24	0.46
204	1973	1973	2	27	0.10
204	1973	1973	2	28	1.51
204	1973	1973	3	4	0.24
204	1973	1973	3	7	0.34
204	1973	1973	3	8	0.35
204	1973	1973	3	9	0.10
204	1973	1973	3	11	0.38
204	1973	1973	3	12	0.17
204	1973	1973	3	13	0.01
204	1973	1973	3	20	1.48
204	1973	1973	3	21	0.03
204	1973	1973	3	22	0.38
204	1973	1973	4	13	0.05
204	1973	1973	5	31	0.19
204	1974	1973	9	5	0.05
204	1974	1973	10	8	0.12
204	1974	1973	10	22	0.05
204	1974	1973	10	23	0.15
204	1974	1973	11	12	0.51
204	1974	1973	11	14	0.04
204	1974	1973	11	17	0.25
204	1974	1973	11	18	0.85
204	1974	1973	11	23	0.74
204	1974	1973	11	26	0.03
204	1974	1973	12	1	1.03
204	1974	1973	12	14	0.07

204	1974	1973	12	22	0.37
204	1974	1973	12	27	0.15
204	1974	1973	12	28	0.61
204	1974	1974	1	1	0.10
204	1974	1974	1	2	0.07
204	1974	1974	1	4	1.51
204	1974	1974	1	5	0.42
204	1974	1974	1	6	0.43
204	1974	1974	1	7	1.38
204	1974	1974	1	8	0.88
204	1974	1974	1	12	0.13
204	1974	1974	1	13	0.02
204	1974	1974	1	17	0.84
204	1974	1974	1	19	0.02
204	1974	1974	1	20	0.03
204	1974	1974	1	21	0.09
204	1974	1974	2	13	0.05
204	1974	1974	2	20	0.08
204	1974	1974	3	1	0.10
204	1974	1974	3	2	0.90
204	1974	1974	3	3	0.27
204	1974	1974	3	4	0.10
204	1974	1974	3	7	0.03
204	1974	1974	3	8	0.98
204	1974	1974	3	26	0.38
204	1974	1974	3	27	0.43
204	1974	1974	3	28	0.06
204	1974	1974	3	29	0.10
204	1974	1974	3	30	0.50
204	1974	1974	3	31	0.15
204	1974	1974	4	2	0.85
204	1974	1974	4	9	0.05
204	1974	1974	4	24	0.06
204	1975	1974	10	8	0.04
204	1975	1974	10	28	0.54
204	1975	1974	10	29	0.43
204	1975	1974	11	1	0.03
204	1975	1974	11	22	0.23
204	1975	1974	12	4	3.14
204	1975	1974	12	28	1.40
204	1975	1974	12	29	0.56
204	1975	1974	12	31	0.02
204	1975	1975	1	7	0.05
204	1975	1975	1	8	0.04
204	1975	1975	1	9	0.07
204	1975	1975	1	31	0.05
204	1975	1975	2	1	0.18
204	1975	1975	2	2	0.65
204	1975	1975	2	3	2.28
204	1975	1975	2	4	0.15
204	1975	1975	2	5	0.45
204	1975	1975	2	9	0.22

204	1975	1975	2	10	0.20
204	1975	1975	2	13	0.05
204	1975	1975	2	14	0.05
204	1975	1975	3	5	0.04
204	1975	1975	3	6	1.35
204	1975	1975	3	7	0.86
204	1975	1975	3	8	1.18
204	1975	1975	3	9	0.03
204	1975	1975	3	10	0.08
204	1975	1975	3	11	0.64
204	1975	1975	3	14	0.40
204	1975	1975	3	16	0.13
204	1975	1975	3	22	0.50
204	1975	1975	3	25	0.06
204	1975	1975	3	26	0.02
204	1975	1975	4	5	0.39
204	1975	1975	4	6	0.35
204	1975	1975	4	25	0.12
204	1976	1975	10	7	0.05
204	1976	1975	10	11	0.50
204	1976	1975	10	27	0.07
204	1976	1975	10	30	0.17
204	1976	1975	10	31	0.05
204	1976	1975	12	12	0.03
204	1976	1975	12	13	0.11
204	1976	1975	12	14	0.03
204	1976	1976	1	11	0.01
204	1976	1976	2	6	0.24
204	1976	1976	2	7	0.53
204	1976	1976	2	8	0.65
204	1976	1976	2	9	1.89
204	1976	1976	2	10	1.05
204	1976	1976	2	11	2.00
204	1976	1976	2	14	0.12
204	1976	1976	2	15	0.03
204	1976	1976	2	19	0.01
204	1976	1976	2	20	0.02
204	1976	1976	2	24	0.14
204	1976	1976	3	2	0.82
204	1976	1976	3	3	0.09
204	1976	1976	3	4	0.76
204	1976	1976	4	5	0.15
204	1976	1976	4	6	0.10
204	1976	1976	4	7	0.03
204	1976	1976	4	9	0.38
204	1976	1976	4	10	0.10
204	1976	1976	4	12	0.08
204	1976	1976	4	14	0.40
204	1976	1976	4	16	0.07
204	1976	1976	5	8	0.03
204	1976	1976	6	11	0.13
204	1976	1976	7	16	0.02

204	1976	1976	8	16	0.07
204	1976	1976	8	19	0.20
204	1976	1976	8	20	0.17
204	1977	1976	9	10	0.14
204	1977	1976	9	11	2.32
204	1977	1976	9	20	0.03
204	1977	1976	9	29	2.18
204	1977	1976	9	30	0.15
204	1977	1976	10	1	0.27
204	1977	1976	10	21	0.06
204	1977	1976	10	23	0.05
204	1977	1976	11	11	0.01
204	1977	1976	11	12	0.26
204	1977	1976	11	13	0.05
204	1977	1976	11	14	0.07
204	1977	1976	12	30	0.48
204	1977	1976	12	31	0.29
204	1977	1977	1	1	0.02
204	1977	1977	1	3	0.84
204	1977	1977	1	5	0.83
204	1977	1977	1	6	0.73
204	1977	1977	1	21	0.08
204	1977	1977	1	28	0.10
204	1977	1977	2	21	0.03
204	1977	1977	2	23	0.05
204	1977	1977	2	24	0.05
204	1977	1977	3	16	1.28
204	1977	1977	3	17	0.09
204	1977	1977	3	25	0.47
204	1977	1977	3	30	0.06
204	1977	1977	3	31	0.12
204	1977	1977	4	9	0.01
204	1977	1977	5	1	0.03
204	1977	1977	5	8	0.66
204	1977	1977	5	9	1.72
204	1977	1977	5	10	0.10
204	1977	1977	5	12	0.07
204	1977	1977	5	13	0.24
204	1977	1977	5	23	0.02
204	1978	1977	11	5	0.14
204	1978	1977	12	15	0.12
204	1978	1977	12	16	0.02
204	1978	1977	12	17	0.03
204	1978	1977	12	18	0.46
204	1978	1977	12	19	0.28
204	1978	1977	12	22	0.19
204	1978	1977	12	23	0.51
204	1978	1977	12	24	0.03
204	1978	1977	12	26	0.12
204	1978	1977	12	27	0.05
204	1978	1977	12	28	1.25
204	1978	1977	12	29	0.04

204	1978	1978	1	3	0.40
204	1978	1978	1	4	0.12
204	1978	1978	1	5	0.52
204	1978	1978	1	6	0.29
204	1978	1978	1	9	0.10
204	1978	1978	1	10	1.01
204	1978	1978	1	11	0.15
204	1978	1978	1	13	0.01
204	1978	1978	1	15	1.23
204	1978	1978	1	16	0.05
204	1978	1978	1	17	1.27
204	1978	1978	1	18	0.13
204	1978	1978	1	19	0.29
204	1978	1978	1	20	0.05
204	1978	1978	2	5	0.10
204	1978	1978	2	6	0.05
204	1978	1978	2	7	0.02
204	1978	1978	2	8	1.18
204	1978	1978	2	9	1.76
204	1978	1978	2	10	3.07
204	1978	1978	2	11	0.45
204	1978	1978	2	13	1.44
204	1978	1978	2	14	0.10
204	1978	1978	2	28	0.05
204	1978	1978	3	1	0.80
204	1978	1978	3	2	0.58
204	1978	1978	3	3	0.33
204	1978	1978	3	4	1.90
204	1978	1978	3	5	1.10
204	1978	1978	3	6	0.07
204	1978	1978	3	9	0.43
204	1978	1978	3	10	0.25
204	1978	1978	3	12	0.26
204	1978	1978	3	22	0.82
204	1978	1978	3	23	0.09
204	1978	1978	3	30	0.04
204	1978	1978	3	31	0.99
204	1978	1978	4	4	0.50
204	1978	1978	4	7	0.49
204	1978	1978	4	8	0.34
204	1978	1978	4	15	0.20
204	1978	1978	4	16	0.95
204	1978	1978	4	17	0.05
204	1978	1978	4	25	0.35
204	1979	1978	9	4	1.89
204	1979	1978	9	5	0.28
204	1979	1978	11	11	0.33
204	1979	1978	11	13	0.60
204	1979	1978	11	14	0.05
204	1979	1978	11	20	0.17
204	1979	1978	11	21	0.47
204	1979	1978	11	22	0.46



204	1979	1978	12	2	0.15
204	1979	1978	12	17	0.70
204	1979	1978	12	18	0.37
204	1979	1978	12	19	0.74
204	1979	1979	1	5	0.27
204	1979	1979	1	6	0.48
204	1979	1979	1	9	0.15
204	1979	1979	1	12	0.04
204	1979	1979	1	14	1.29
204	1979	1979	1	15	0.95
204	1979	1979	1	16	0.18
204	1979	1979	1	17	0.53
204	1979	1979	1	18	0.05
204	1979	1979	1	31	0.65
204	1979	1979	2	1	0.70
204	1979	1979	2	2	0.30
204	1979	1979	2	3	0.29
204	1979	1979	2	14	0.49
204	1979	1979	2	15	0.29
204	1979	1979	2	19	0.09
204	1979	1979	2	21	1.18
204	1979	1979	2	22	0.23
204	1979	1979	2	23	0.20
204	1979	1979	2	25	0.03
204	1979	1979	3	1	0.43
204	1979	1979	3	14	0.04
204	1979	1979	3	16	0.14
204	1979	1979	3	17	0.44
204	1979	1979	3	19	0.45
204	1979	1979	3	20	0.71
204	1979	1979	3	27	1.53
204	1979	1979	3	28	0.79
204	1979	1979	3	29	0.67
204	1979	1979	3	30	0.02
204	1979	1979	5	7	0.04
204	1980	1979	9	29	0.20
204	1980	1979	10	14	0.10
204	1980	1979	10	20	0.63
204	1980	1979	10	26	0.19
204	1980	1979	11	4	0.15
204	1980	1979	11	8	0.52
204	1980	1979	11	26	0.02
204	1980	1979	12	21	0.11
204	1980	1979	12	22	0.03
204	1980	1979	12	24	0.38
204	1980	1979	12	25	1.28
204	1980	1980	1	8	0.08
204	1980	1980	1	9	0.13
204	1980	1980	1	10	1.08
204	1980	1980	1	11	0.53
204	1980	1980	1	12	0.53
204	1980	1980	1	13	0.20

204	1980	1980	1	14	0.80
204	1980	1980	1	15	0.35
204	1980	1980	1	16	0.11
204	1980	1980	1	17	0.14
204	1980	1980	1	18	0.10
204	1980	1980	1	29	0.20
204	1980	1980	2	14	0.05
204	1980	1980	2	15	0.52
204	1980	1980	2	16	1.01
204	1980	1980	2	17	1.84
204	1980	1980	2	18	0.95
204	1980	1980	2	19	0.97
204	1980	1980	2	20	0.83
204	1980	1980	2	21	0.61
204	1980	1980	2	28	0.13
204	1980	1980	3	3	0.45
204	1980	1980	3	5	0.45
204	1980	1980	3	6	1.22
204	1980	1980	3	7	0.05
204	1980	1980	3	22	0.02
204	1980	1980	3	26	0.23
204	1980	1980	4	5	0.01
204	1980	1980	4	6	0.18
204	1980	1980	4	22	0.66
204	1980	1980	4	23	0.35
204	1980	1980	4	24	0.02
204	1980	1980	4	28	0.33
204	1980	1980	5	11	0.27
204	1980	1980	5	20	0.01
204	1980	1980	7	3	0.01
204	1981	1980	12	4	0.70
204	1981	1980	12	5	0.16
204	1981	1981	1	3	0.05
204	1981	1981	1	4	0.02
204	1981	1981	1	23	1.11
204	1981	1981	1	27	0.02
204	1981	1981	1	28	1.08
204	1981	1981	1	29	0.57
204	1981	1981	1	30	0.02
204	1981	1981	2	8	0.04
204	1981	1981	2	9	1.61
204	1981	1981	2	11	0.03
204	1981	1981	2	12	0.02
204	1981	1981	2	13	0.02
204	1981	1981	2	26	1.01
204	1981	1981	2	28	0.02
204	1981	1981	3	1	1.85
204	1981	1981	3	2	0.40
204	1981	1981	3	5	2.45
204	1981	1981	3	14	0.13
204	1981	1981	3	19	0.14
204	1981	1981	3	20	0.54

204	1981	1981	3	21	0.05
204	1981	1981	3	22	0.60
204	1981	1981	3	26	0.08
204	1981	1981	3	27	0.10
204	1981	1981	4	19	0.42
204	1981	1981	4	20	0.06
204	1982	1981	10	1	0.02
204	1982	1981	10	28	0.24
204	1982	1981	10	29	0.31
204	1982	1981	11	14	0.14
204	1982	1981	11	17	0.12
204	1982	1981	11	27	0.41
204	1982	1981	11	28	0.19
204	1982	1981	11	29	0.06
204	1982	1981	12	13	0.01
204	1982	1981	12	21	0.26
204	1982	1981	12	30	0.55
204	1982	1981	12	31	0.04
204	1982	1982	1	1	0.19
204	1982	1982	1	2	0.29
204	1982	1982	1	3	0.08
204	1982	1982	1	5	0.35
204	1982	1982	1	6	0.03
204	1982	1982	1	11	0.02
204	1982	1982	1	19	0.04
204	1982	1982	1	20	0.65
204	1982	1982	1	21	0.96
204	1982	1982	1	27	0.04
204	1982	1982	1	28	0.03
204	1982	1982	1	29	0.22
204	1982	1982	2	8	0.02
204	1982	1982	2	10	0.07
204	1982	1982	2	11	0.33
204	1982	1982	2	14	0.05
204	1982	1982	2	15	0.05
204	1982	1982	2	16	0.27
204	1982	1982	3	1	0.07
204	1982	1982	3	2	0.66
204	1982	1982	3	3	0.04
204	1982	1982	3	11	0.20
204	1982	1982	3	12	0.55
204	1982	1982	3	14	0.14
204	1982	1982	3	15	0.37
204	1982	1982	3	16	0.32
204	1982	1982	3	17	1.14
204	1982	1982	3	18	0.65
204	1982	1982	3	19	0.28
204	1982	1982	3	26	0.35
204	1982	1982	3	29	0.30
204	1982	1982	3	30	0.43
204	1982	1982	4	1	1.30
204	1982	1982	4	2	0.21

204	1982	1982	4	10	0.10
204	1982	1982	4	11	1.01
204	1982	1982	4	12	0.28
204	1983	1982	9	16	0.06
204	1983	1982	9	24	0.04
204	1983	1982	9	26	0.21
204	1983	1982	10	24	0.29
204	1983	1982	10	26	0.34
204	1983	1982	10	29	0.52
204	1983	1982	10	30	0.33
204	1983	1982	11	9	0.73
204	1983	1982	11	10	0.65
204	1983	1982	11	11	0.11
204	1983	1982	11	19	0.68
204	1983	1982	11	23	0.35
204	1983	1982	11	24	0.06
204	1983	1982	11	28	0.13
204	1983	1982	11	29	0.50
204	1983	1982	11	30	1.43
204	1983	1982	12	1	0.59
204	1983	1982	12	2	0.09
204	1983	1982	12	22	0.25
204	1983	1982	12	23	1.53
204	1983	1983	1	19	0.90
204	1983	1983	1	22	0.26
204	1983	1983	1	23	2.35
204	1983	1983	1	24	0.67
204	1983	1983	1	27	2.20
204	1983	1983	1	28	0.38
204	1983	1983	1	29	1.40
204	1983	1983	2	3	0.29
204	1983	1983	2	6	0.54
204	1983	1983	2	7	0.21
204	1983	1983	2	8	1.03
204	1983	1983	2	13	0.75
204	1983	1983	2	24	0.14
204	1983	1983	2	26	1.30
204	1983	1983	2	27	0.77
204	1983	1983	2	28	0.20
204	1983	1983	3	1	2.03
204	1983	1983	3	2	1.40
204	1983	1983	3	3	0.52
204	1983	1983	3	4	0.25
204	1983	1983	3	5	0.40
204	1983	1983	3	6	0.05
204	1983	1983	3	7	0.10
204	1983	1983	3	14	0.45
204	1983	1983	3	17	0.36
204	1983	1983	3	18	0.47
204	1983	1983	3	19	0.19
204	1983	1983	3	21	1.10
204	1983	1983	3	23	0.36

204	1983	1983	3	24	0.79
204	1983	1983	3	25	0.12
204	1983	1983	3	28	0.08
204	1983	1983	4	6	0.02
204	1983	1983	4	12	0.36
204	1983	1983	4	18	1.01
204	1983	1983	4	19	0.63
204	1983	1983	4	20	1.08
204	1983	1983	4	21	0.32
204	1983	1983	4	28	0.28
204	1983	1983	4	29	0.03
204	1983	1983	4	30	0.45
204	1983	1983	5	1	0.15
204	1983	1983	5	2	0.09
204	1983	1983	5	6	0.02
204	1983	1983	8	19	0.31
204	1984	1983	9	30	0.05
204	1984	1983	10	1	1.22
204	1984	1983	11	1	0.22
204	1984	1983	11	2	0.44
204	1984	1983	11	11	0.22
204	1984	1983	11	12	0.29
204	1984	1983	11	13	0.15
204	1984	1983	11	14	0.04
204	1984	1983	11	17	0.07
204	1984	1983	11	18	0.17
204	1984	1983	11	20	0.42
204	1984	1983	11	21	0.36
204	1984	1983	11	25	0.82
204	1984	1983	12	1	0.04
204	1984	1983	12	4	0.86
204	1984	1983	12	9	0.11
204	1984	1983	12	10	0.72
204	1984	1983	12	11	0.01
204	1984	1983	12	12	0.17
204	1984	1983	12	25	1.30
204	1984	1983	12	26	0.25
204	1984	1983	12	27	0.15
204	1984	1984	1	17	0.01
204	1984	1984	2	2	0.08
204	1984	1984	2	10	0.15
204	1984	1984	2	14	0.04
204	1984	1984	2	16	0.14
204	1984	1984	3	14	0.54
204	1984	1984	3	31	0.03
204	1984	1984	4	6	0.35
204	1984	1984	4	19	0.24
204	1985	1984	10	12	0.20
204	1985	1984	10	15	0.50
204	1985	1984	11	8	0.42
204	1985	1984	11	13	1.19
204	1985	1984	11	16	0.62

204	1985	1984	11	17	0.04
204	1985	1984	11	25	0.57
204	1985	1984	11	28	0.30
204	1985	1984	12	3	0.10
204	1985	1984	12	8	0.32
204	1985	1984	12	10	0.33
204	1985	1984	12	16	0.54
204	1985	1984	12	18	0.08
204	1985	1984	12	19	1.44
204	1985	1984	12	20	0.82
204	1985	1985	1	7	0.28
204	1985	1985	1	10	0.12
204	1985	1985	1	29	0.18
204	1985	1985	2	2	0.24
204	1985	1985	2	8	0.03
204	1985	1985	2	9	0.70
204	1985	1985	3	3	0.08
204	1985	1985	3	6	0.20
204	1985	1985	3	7	0.33
204	1985	1985	3	11	0.11
204	1985	1985	3	18	0.04
204	1985	1985	3	19	0.04
204	1985	1985	3	27	0.39
204	1985	1985	3	28	0.21
204	1985	1985	8	17	0.02
204	1986	1985	10	22	0.41
204	1986	1985	11	11	0.80
204	1986	1985	11	12	0.15
204	1986	1985	11	24	0.01
204	1986	1985	11	25	0.70
204	1986	1985	11	26	0.42
204	1986	1985	11	29	0.96
204	1986	1985	11	30	0.45
204	1986	1985	12	2	0.37
204	1986	1985	12	3	0.02
204	1986	1985	12	29	0.03
204	1986	1985	12	30	0.02
204	1986	1986	1	5	0.60
204	1986	1986	1	15	0.02
204	1986	1986	1	30	0.23
204	1986	1986	1	31	0.34
204	1986	1986	2	1	0.25
204	1986	1986	2	3	0.10
204	1986	1986	2	12	0.06
204	1986	1986	2	13	1.33
204	1986	1986	2	14	0.42
204	1986	1986	2	15	1.69
204	1986	1986	2	18	0.47
204	1986	1986	2	19	0.38
204	1986	1986	3	8	0.27
204	1986	1986	3	9	0.80
204	1986	1986	3	10	0.72

204	1986	1986	3	11	0.32
204	1986	1986	3	12	0.27
204	1986	1986	3	13	0.85
204	1986	1986	3	16	1.49
204	1986	1986	3	17	0.65
204	1986	1986	4	6	0.15
204	1986	1986	4	7	0.03
204	1986	1986	4	8	0.09
204	1987	1986	9	24	0.25
204	1987	1986	9	25	0.52
204	1987	1986	9	26	0.01
204	1987	1986	11	18	1.25
204	1987	1986	12	6	0.68
204	1987	1986	12	16	0.30
204	1987	1986	12	20	0.27
204	1987	1987	1	4	0.74
204	1987	1987	1	5	0.10
204	1987	1987	1	7	0.55
204	1987	1987	1	23	0.03
204	1987	1987	1	28	0.12
204	1987	1987	1	30	0.01
204	1987	1987	2	9	0.02
204	1987	1987	2	10	0.08
204	1987	1987	2	12	0.71
204	1987	1987	2	13	0.17
204	1987	1987	2	22	0.38
204	1987	1987	2	24	0.15
204	1987	1987	2	25	0.28
204	1987	1987	2	26	0.05
204	1987	1987	3	5	1.36
204	1987	1987	3	6	1.49
204	1987	1987	3	9	0.40
204	1987	1987	3	13	0.08
204	1987	1987	3	16	0.22
204	1987	1987	3	21	0.41
204	1987	1987	3	22	0.28
204	1987	1987	4	4	0.30
204	1987	1987	6	6	0.50
204	1988	1987	10	23	0.56
204	1988	1987	10	24	0.05
204	1988	1987	10	27	0.28
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204	1988	1987	10	29	0.05
204	1988	1987	10	31	0.35
204	1988	1987	11	1	0.06
204	1988	1987	11	4	0.07
204	1988	1987	11	5	0.65
204	1988	1987	11	14	0.19
204	1988	1987	11	17	0.32
204	1988	1987	11	20	0.09
204	1988	1987	12	5	0.99
204	1988	1987	12	7	0.10

204	1988	1987	12	9	0.05
204	1988	1987	12	16	0.80
204	1988	1987	12	17	0.26
204	1988	1987	12	28	0.30
204	1988	1987	12	29	0.60
204	1988	1987	12	30	0.58
204	1988	1988	1	6	0.82
204	1988	1988	1	9	0.03
204	1988	1988	1	17	0.47
204	1988	1988	1	18	0.62
204	1988	1988	2	27	0.10
204	1988	1988	2	28	0.98
204	1988	1988	2	29	1.34
204	1988	1988	3	1	0.88
204	1988	1988	3	2	0.15
204	1988	1988	4	15	1.40
204	1988	1988	4	20	1.06
204	1988	1988	4	21	0.12
204	1988	1988	4	23	0.41
204	1988	1988	5	6	0.02
204	1988	1988	5	29	0.09
204	1988	1988	6	24	0.19
204	1989	1988	11	14	0.22
204	1989	1988	11	17	0.08
204	1989	1988	11	24	0.25
204	1989	1988	11	25	0.51
204	1989	1988	12	16	0.82
204	1989	1988	12	17	1.23
204	1989	1988	12	18	0.38
204	1989	1988	12	20	0.08
204	1989	1988	12	21	0.65
204	1989	1988	12	23	0.25
204	1989	1988	12	25	0.74
204	1989	1988	12	30	0.12
204	1989	1989	1	5	0.03
204	1989	1989	1	6	0.21
204	1989	1989	1	7	0.09
204	1989	1989	1	24	0.06
204	1989	1989	2	3	0.03
204	1989	1989	2	4	0.28
204	1989	1989	2	5	0.12
204	1989	1989	2	8	0.36
204	1989	1989	2	9	0.32
204	1989	1989	2	20	0.05
204	1989	1989	3	2	0.42
204	1989	1989	3	3	0.10
204	1989	1989	3	11	0.02
204	1989	1989	3	25	0.12
204	1989	1989	3	26	0.04
204	1989	1989	4	24	0.07
204	1989	1989	4	25	0.11
204	1989	1989	4	26	0.04



204	1989	1989	5	8	0.08
204	1989	1989	5	9	0.36
204	1990	1989	9	16	0.16
204	1990	1989	9	17	0.08
204	1990	1989	9	19	0.08
204	1990	1989	9	29	0.30
204	1990	1989	10	22	0.03
204	1990	1989	10	24	0.44
204	1990	1989	10	25	0.01
204	1990	1989	11	27	0.27
204	1990	1990	1	2	0.42
204	1990	1990	1	13	1.30
204	1990	1990	1	14	0.54
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204	1990	1990	4	16	0.28
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204	1990	1990	5	24	0.02
204	1990	1990	5	28	0.37
204	1991	1990	9	21	0.02
204	1991	1990	9	22	0.16
204	1991	1990	9	23	0.05
204	1991	1990	11	20	0.09
204	1991	1990	11	26	0.20
204	1991	1990	12	16	0.15
204	1991	1990	12	20	0.39
204	1991	1991	1	3	0.12
204	1991	1991	1	4	0.39
204	1991	1991	1	5	0.08
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204	1991	1991	2	28	1.54
204	1991	1991	3	1	1.77
204	1991	1991	3	2	0.25
204	1991	1991	3	5	0.78
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204	1991	1991	3	19	3.69
204	1991	1991	3	20	0.77
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204	1992	1992	3	2	0.36
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204	1992	1992	3	6	0.72
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204	1992	1992	3	23	0.60
204	1992	1992	3	26	0.01
204	1992	1992	3	27	0.19
204	1992	1992	3	31	0.19
204	1992	1992	7	9	0.04
204	1992	1992	7	13	0.04
204	1993	1992	10	21	0.07
204	1993	1992	10	22	0.02
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204	1993	1993	3	24	0.10
204	1993	1993	3	25	1.76
204	1993	1993	3	26	1.66
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204	1993	1993	5	25	0.28
204	1993	1993	6	5	0.11
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204	1994	1993	10	18	0.10
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204	1994	1993	11	13	0.14
204	1994	1993	11	22	0.03
204	1994	1993	11	30	0.52
204	1994	1993	12	12	1.04
204	1994	1993	12	15	0.52
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204	1994	1994	1	24	0.57
204	1994	1994	1	25	1.11

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204	1994	1994	2	8	0.79
204	1994	1994	2	9	0.04
204	1994	1994	2	11	0.03
204	1994	1994	2	17	0.94
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204	1994	1994	2	20	1.04
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204	1994	1994	3	7	0.18
204	1994	1994	3	19	0.23
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204	1995	1994	9	28	0.03
204	1995	1994	9	29	0.02
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204	1995	1994	11	8	0.13
204	1995	1994	11	10	1.09
204	1995	1994	11	16	0.27
204	1995	1994	11	26	0.24
204	1995	1994	12	13	0.28
204	1995	1994	12	14	0.06
204	1995	1994	12	15	0.12
204	1995	1994	12	25	0.73
204	1995	1995	1	3	1.23
204	1995	1995	1	4	0.85
204	1995	1995	1	5	1.65
204	1995	1995	1	6	0.04
204	1995	1995	1	7	0.80
204	1995	1995	1	9	0.55
204	1995	1995	1	10	2.50
204	1995	1995	1	11	1.12
204	1995	1995	1	12	0.34
204	1995	1995	1	13	0.02
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204	1995	1995	1	16	0.48
204	1995	1995	1	17	0.01
204	1995	1995	1	21	0.47
204	1995	1995	1	23	0.24
204	1995	1995	1	24	0.98

204	1995	1995	1	25	2.20
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204	1995	1995	3	22	0.13
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204	1995	1995	3	24	0.05
204	1995	1995	4	14	0.07
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204	1995	1995	5	14	0.10
204	1995	1995	5	15	0.50
204	1995	1995	5	16	0.05
204	1995	1995	6	15	0.25
204	1995	1995	6	16	0.54
204	1996	1995	11	1	0.25
204	1996	1995	12	13	0.73
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204	1996	1995	12	23	0.30
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204	1996	1996	1	19	0.15
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204	1996	1996	1	25	0.47
204	1996	1996	1	28	0.19
204	1996	1996	1	31	0.20
204	1996	1996	2	1	0.75
204	1996	1996	2	3	0.50
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204	1996	1996	2	5	0.42
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204	1996	1996	2	16	0.16
204	1996	1996	2	19	0.29
204	1996	1996	2	20	2.47
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204	1996	1996	2	22	0.33
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204	1996	1996	2	26	0.27
204	1996	1996	2	27	0.62
204	1996	1996	3	1	0.04

204	1996	1996	3	4	0.30
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204	1996	1996	3	6	0.02
204	1996	1996	3	13	0.85
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204	1996	1996	4	17	0.16
204	1996	1996	4	18	0.15
204	1996	1996	5	16	0.20
204	1996	1996	5	17	0.02
204	1996	1996	6	26	0.03
204	1997	1996	10	25	0.03
204	1997	1996	10	26	0.04
204	1997	1996	10	30	2.18
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204	1997	1996	11	20	0.16
204	1997	1996	11	21	0.65
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204	1997	1996	11	23	0.09
204	1997	1996	12	7	0.33
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204	1997	1996	12	12	0.35
204	1997	1996	12	13	0.05
204	1997	1996	12	22	0.85
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204	1997	1997	1	3	0.36
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204	1997	1997	1	15	0.04
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204	1997	1997	1	20	0.51
204	1997	1997	1	21	0.04
204	1997	1997	1	22	0.29
204	1997	1997	1	23	0.53
204	1997	1997	1	24	0.01
204	1997	1997	1	25	0.02
204	1997	1997	1	26	0.36
204	1997	1997	1	27	0.21
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204	1998	1997	9	3	0.54
204	1998	1997	11	10	0.07
204	1998	1997	11	11	0.30
204	1998	1997	11	12	0.02

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204	1998	1997	11	19	0.07
204	1998	1997	11	20	0.16
204	1998	1997	11	26	0.93
204	1998	1997	11	27	0.53
204	1998	1997	11	30	0.75
204	1998	1997	12	1	0.23
204	1998	1997	12	5	0.86
204	1998	1997	12	6	1.68
204	1998	1997	12	9	0.39
204	1998	1997	12	10	0.11
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204	1998	1998	1	10	0.90
204	1998	1998	1	11	0.14
204	1998	1998	1	13	0.21
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204	1998	1998	1	16	0.82
204	1998	1998	1	19	0.53
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204	1998	1998	2	1	0.03
204	1998	1998	2	2	3.22
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204	1998	1998	5	29	0.26
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204	1999	1999	3	25	1.17
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204	2000	2000	2	28	0.32
204	2000	2000	2	29	0.02
204	2000	2000	3	1	0.05
204	2000	2000	3	3	0.11
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204	2001	2001	2	10	0.76	
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204	2001	2001	2	20	0.64	
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204	2001	2001	2	23	0.20	
204	2001	2001	2	24	0.17	
204	2001	2001	2	25	0.40	
204	2001	2001	2	26	0.22	
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204	2002	2001	10	30	0.22
204	2002	2001	10	31	0.32
204	2002	2001	11	6	0.01
204	2002	2001	11	11	0.36
204	2002	2001	11	12	0.01
204	2002	2001	11	13	1.16
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204	2002	2001	11	29	0.51
204	2002	2001	11	30	0.02
204	2002	2001	12	2	0.01
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204	2002	2001	12	20	0.08
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204	2002	2001	12	23	0.02
204	2002	2001	12	29	0.21
204	2002	2001	12	30	0.04
204	2002	2001	12	31	0.21
204	2002	2002	1	3	0.21
204	2002	2002	1	12	0.01
204	2002	2002	1	27	0.18
204	2002	2002	1	28	0.44
204	2002	2002	1	29	0.09
204	2002	2002	1	30	0.01
204	2002	2002	2	7	0.01
204	2002	2002	2	17	0.25
204	2002	2002	3	7	0.26
204	2002	2002	3	8	0.06
204	2002	2002	3	18	0.10
204	2002	2002	3	23	0.02
204	2002	2002	3	24	0.22
204	2002	2002	4	17	0.01
204	2002	2002	4	26	0.10
204	2002	2002	4	27	0.08
204	2002	2002	5	20	0.00
204	2002	2002	5	21	0.15
204	2002	2002	8	22	0.01
204	2003	2002	9	6	0.00
204	2003	2002	9	29	0.01
204	2003	2002	11	7	0.14
204	2003	2002	11	8	1.31
204	2003	2002	11	9	1.01
204	2003	2002	11	10	0.14
204	2003	2002	11	27	0.01
204	2003	2002	12	5	0.01

204	2003	2002	12	7	0.03
204	2003	2002	12	15	0.35
204	2003	2002	12	17	1.70
204	2003	2002	12	18	0.23
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204	2003	2003	2	12	0.49
204	2003	2003	2	13	0.48
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204	2003	2003	2	25	0.50
204	2003	2003	2	26	0.03
204	2003	2003	2	27	0.31
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204	2004	2003	11	12	0.01
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204	2004	2003	12	7	0.01
204	2004	2003	12	8	0.05
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204	2004	2003	12	20	0.02
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204	2004	2003	12	24	0.05

204	2004	2003	12	25	0.13
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204	2004	2004	1	3	0.06
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204	2004	2004	1	28	0.20
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204	2004	2004	2	27	0.03
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204	2004	2004	3	26	0.19
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204	2005	2004	12	29	0.61
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204	2005	2004	12	31	1.51
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204	2005	2005	1	26	0.01
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204	2005	2005	1	28	0.04
204	2005	2005	1	29	0.04
204	2005	2005	2	11	0.21

204	2005	2005	2	12	0.04
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204	2005	2005	3	23	1.61
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204	2005	2005	3	28	0.10
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204	2005	2005	6	18	0.01
204	2006	2005	9	17	0.04
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204	2006	2005	10	24	0.02
204	2006	2005	10	26	0.01
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204	2006	2005	11	10	0.47
204	2006	2005	11	11	0.03
204	2006	2005	11	12	0.01
204	2006	2005	12	2	0.63
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204	2006	2005	12	29	0.01
204	2006	2005	12	30	0.01
204	2006	2005	12	31	0.04
204	2006	2006	1	1	0.97

204	2006	2006	1	2	3.11
204	2006	2006	1	3	0.17
204	2006	2006	1	13	0.01
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204	2006	2006	1	15	0.04
204	2006	2006	1	18	0.09
204	2006	2006	1	19	0.01
204	2006	2006	1	21	0.01
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204	2006	2006	3	3	0.67
204	2006	2006	3	4	0.07
204	2006	2006	3	5	0.01
204	2006	2006	3	6	0.25
204	2006	2006	3	7	0.48
204	2006	2006	3	10	0.33
204	2006	2006	3	11	0.32
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204	2006	2006	3	22	0.01
204	2006	2006	3	26	0.07
204	2006	2006	3	28	0.41
204	2006	2006	3	29	0.21
204	2006	2006	3	30	0.03
204	2006	2006	3	31	0.04
204	2006	2006	4	1	0.10
204	2006	2006	4	3	0.43
204	2006	2006	4	4	1.54
204	2006	2006	4	5	0.81
204	2006	2006	4	6	0.19
204	2006	2006	4	11	0.05
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204	2006	2006	4	15	0.19
204	2006	2006	4	17	0.01
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204	2006	2006	4	22	0.03
204	2006	2006	4	23	0.04
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204	2006	2006	4	27	0.42
204	2006	2006	4	30	0.01
204	2006	2006	5	4	0.01
204	2006	2006	5	21	0.02
204	2006	2006	5	22	0.81
204	2006	2006	5	23	0.01

204	2007	2006	10	5	0.01
204	2007	2006	10	13	0.08
204	2007	2006	10	14	0.59
204	2007	2006	10	18	0.01
204	2007	2006	11	14	0.04
204	2007	2006	11	27	0.17
204	2007	2006	12	9	0.09
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204	2007	2006	12	11	0.13
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204	2007	2006	12	22	0.16
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204	2007	2006	12	28	0.10
204	2007	2007	1	5	0.03
204	2007	2007	1	17	0.04
204	2007	2007	1	18	0.01
204	2007	2007	1	27	0.08
204	2007	2007	1	28	0.39
204	2007	2007	1	29	0.66
204	2007	2007	2	11	0.59
204	2007	2007	2	12	0.08
204	2007	2007	2	13	0.01
204	2007	2007	2	21	0.01
204	2007	2007	2	22	0.02
204	2007	2007	2	23	0.74
204	2007	2007	2	25	0.09
204	2007	2007	2	27	0.42
204	2007	2007	2	28	0.24
204	2007	2007	3	21	0.03
204	2007	2007	3	27	0.10
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204	2007	2007	4	20	0.40
204	2007	2007	4	21	0.04
204	2007	2007	4	22	0.01
204	2007	2007	4	23	0.09
204	2007	2007	5	4	0.03
204	2007	2007	5	5	0.01
204	2007	2007	8	30	0.03
204	2008	2007	9	1	0.01
204	2008	2007	9	23	0.69
204	2008	2007	10	13	0.20
204	2008	2007	10	15	0.01
204	2008	2007	10	17	0.18
204	2008	2007	10	19	0.02
204	2008	2007	10	28	0.11
204	2008	2007	11	10	0.01
204	2008	2007	11	11	0.01
204	2008	2007	12	7	0.33
204	2008	2007	12	8	0.03
204	2008	2007	12	18	0.36
204	2008	2007	12	19	1.82



204	2008	2007	12	21	0.06
204	2008	2008	1	5	1.96
204	2008	2008	1	6	0.41
204	2008	2008	1	7	0.49
204	2008	2008	1	8	0.01
204	2008	2008	1	9	0.06
204	2008	2008	1	17	0.01
204	2008	2008	1	22	0.13
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204	2008	2008	1	27	1.02
204	2008	2008	1	28	1.64
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204	2008	2008	3	16	0.01
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204	2009	2009	1	22	0.06
204	2009	2009	1	23	0.04
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204	2009	2009	1	25	0.01
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204	2009	2009	3	23	0.01
204	2009	2009	4	8	0.07
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204	2010	2009	10	15	0.13
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204	2010	2010	2	27	1.32
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204	2010	2010	3	7	0.04
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204	2012	2012	3	26	0.30
204	2012	2012	3	29	0.01
204	2012	2012	4	1	0.17
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204	2023	2022	9	20	0.32
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204	2023	2022	10	8	0.01
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204	2023	2022	10	14	0.01
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204	2023	2022	11	7	0.03
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204	2023	2023	3	22	0.87
204	2023	2023	3	23	0.56
204	2023	2023	3	29	0.49
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204	2024	2023	12	2	0.01
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204	2024	2024	1	3	0.34
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204	2024	2024	1	16	0.01
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204	2024	2024	1	21	0.06
204	2024	2024	1	22	0.63
204	2024	2024	1	23	0.04
204	2024	2024	1	24	0.01
204	2024	2024	1	25	0.06
204	2024	2024	1	27	0.01
204	2024	2024	2	1	1.40
204	2024	2024	2	2	0.33
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204	2024	2024	2	12	0.01
204	2024	2024	2	15	0.01
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204	2024	2024	2	19	2.05
204	2024	2024	2	20	0.09



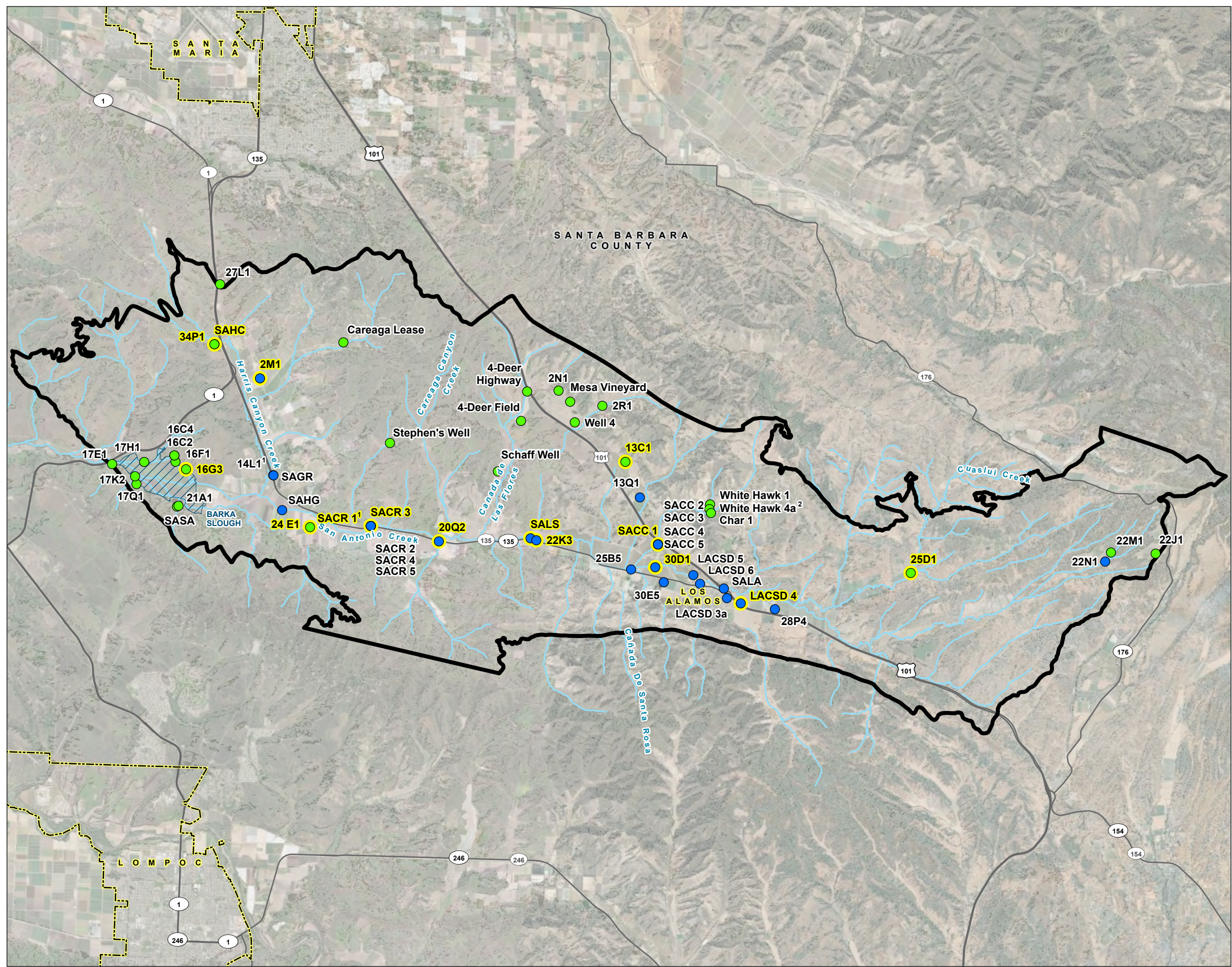

## APPENDIX C

Representative Monitoring Site Location Map and Hydrographs

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# Wells Included in the San Antonio Creek Valley Groundwater Basin Groundwater Monitoring Network

Groundwater Sustainability Plan  
2024 Annual Report  
San Antonio Creek Valley  
Groundwater Basin

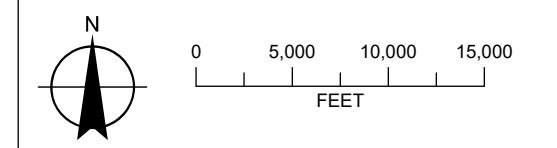


**LEGEND**

- Representative Well
- All Other Features**
- San Antonio Creek Valley Groundwater Basin
- Barka Slough
- City Boundary
- Major Road
- ~ San Antonio Creek or Tributary
- Wells (by screened aquifer)**
- Screened Aquifer**
- Paso Robles Formation
- Careaga Sand

**NOTES**

1. SACR 1 and 14L1 are screened in the Careaga Sand.
2. White Hawk 4 was destroyed in December 2023. Replacement well White Hawk 4a was constructed and completed in June 2024.

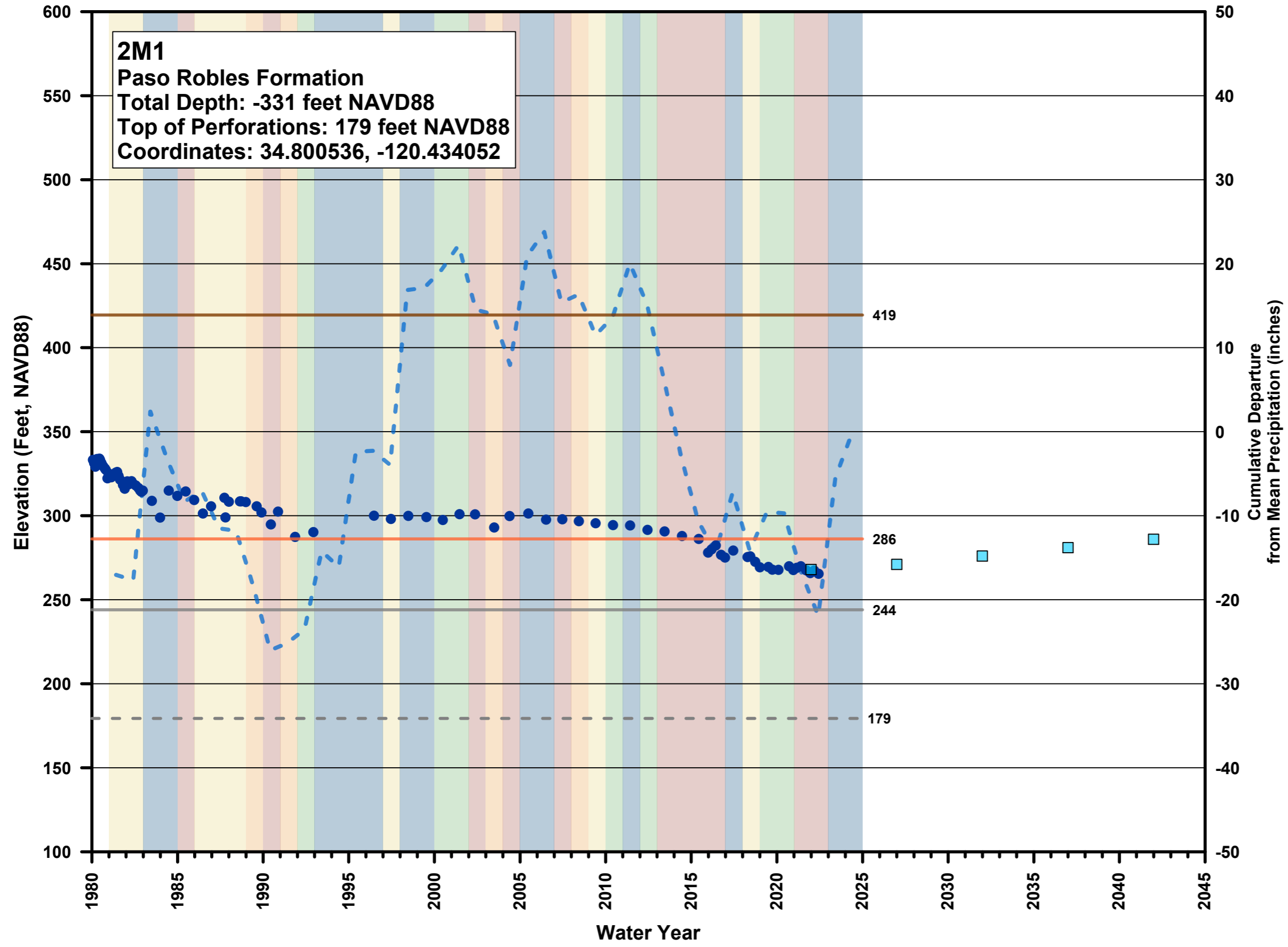


Date: February 11, 2025  
Data Sources: USGS, ESRI, DWR,  
Maxar Imagery (4/10/2024)



### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report



**LEGEND**

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- - - Top of Well Perforated Interval
- Measureable Objective
- Ground Surface Elevation
- Minimum Threshold
- Interim Milestones

**WATER YEAR TYPE**

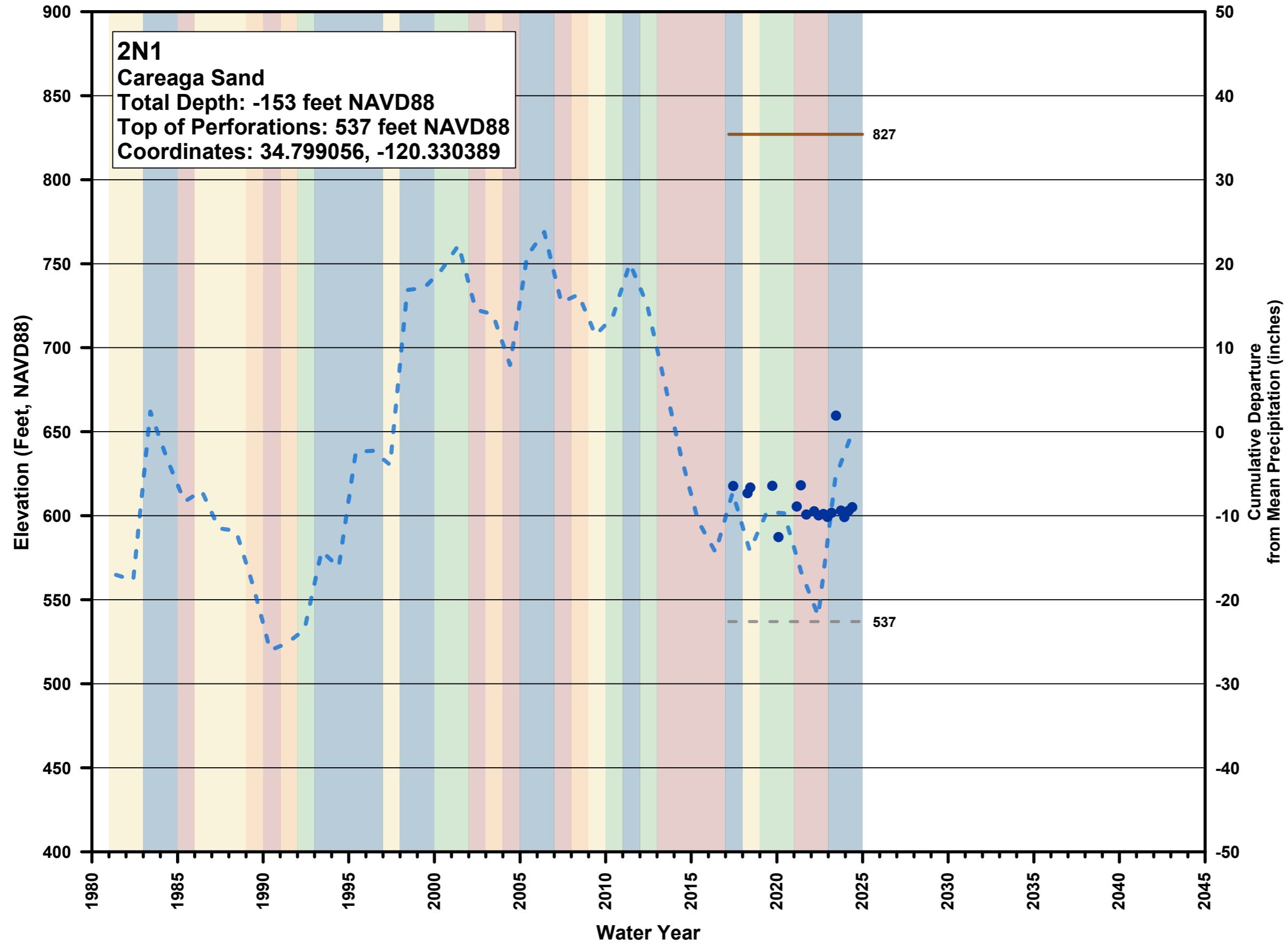
- Wet
- Above Normal
- Below Normal
- Dry
- Critical





### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report



**LEGEND**

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- - - Cumulative Departure from Mean Precipitation
- - - Top of Perforated Interval
- Ground Surface Elevation

**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

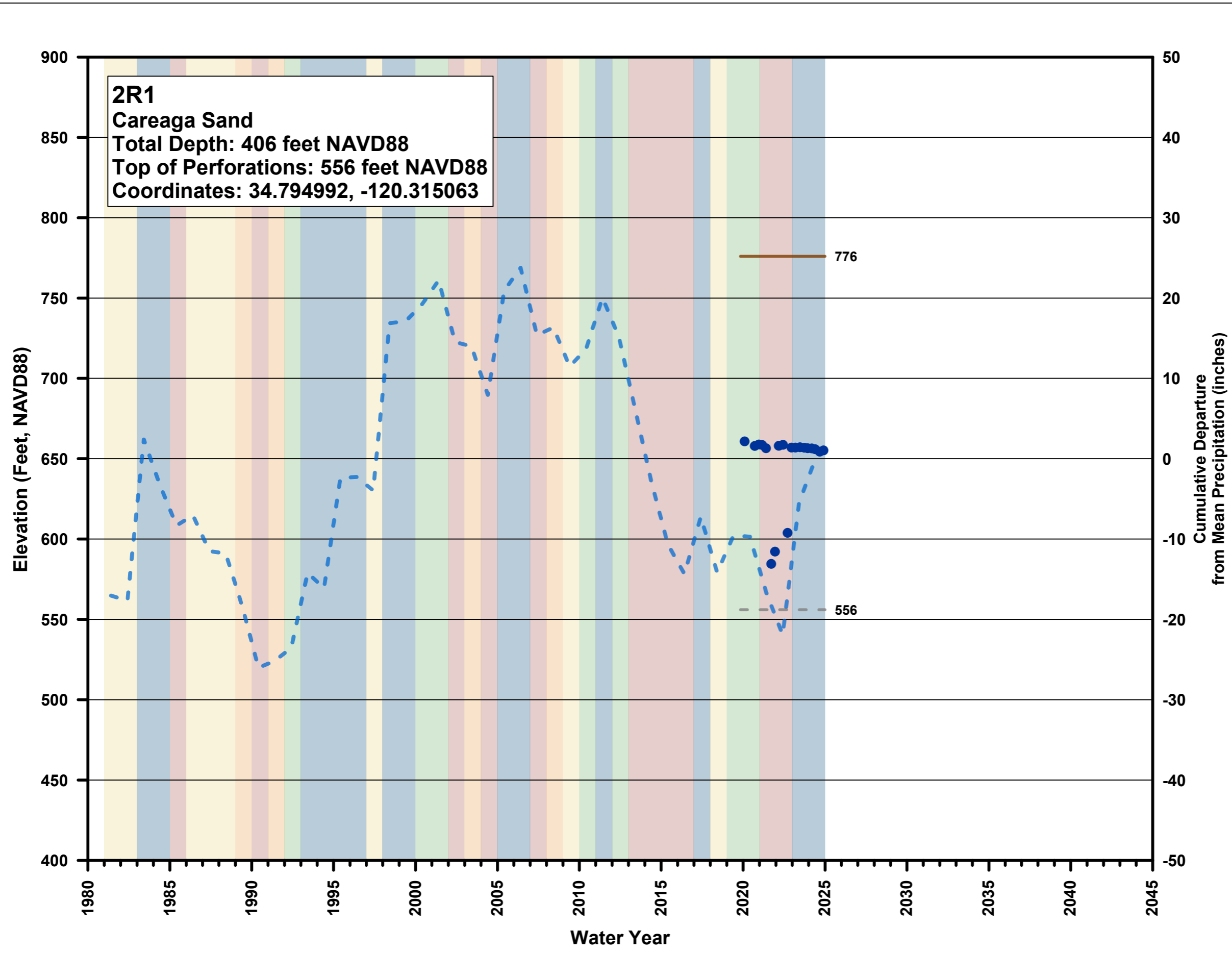
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- - - Top of Perforated Interval
- Ground Surface Elevation

#### WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

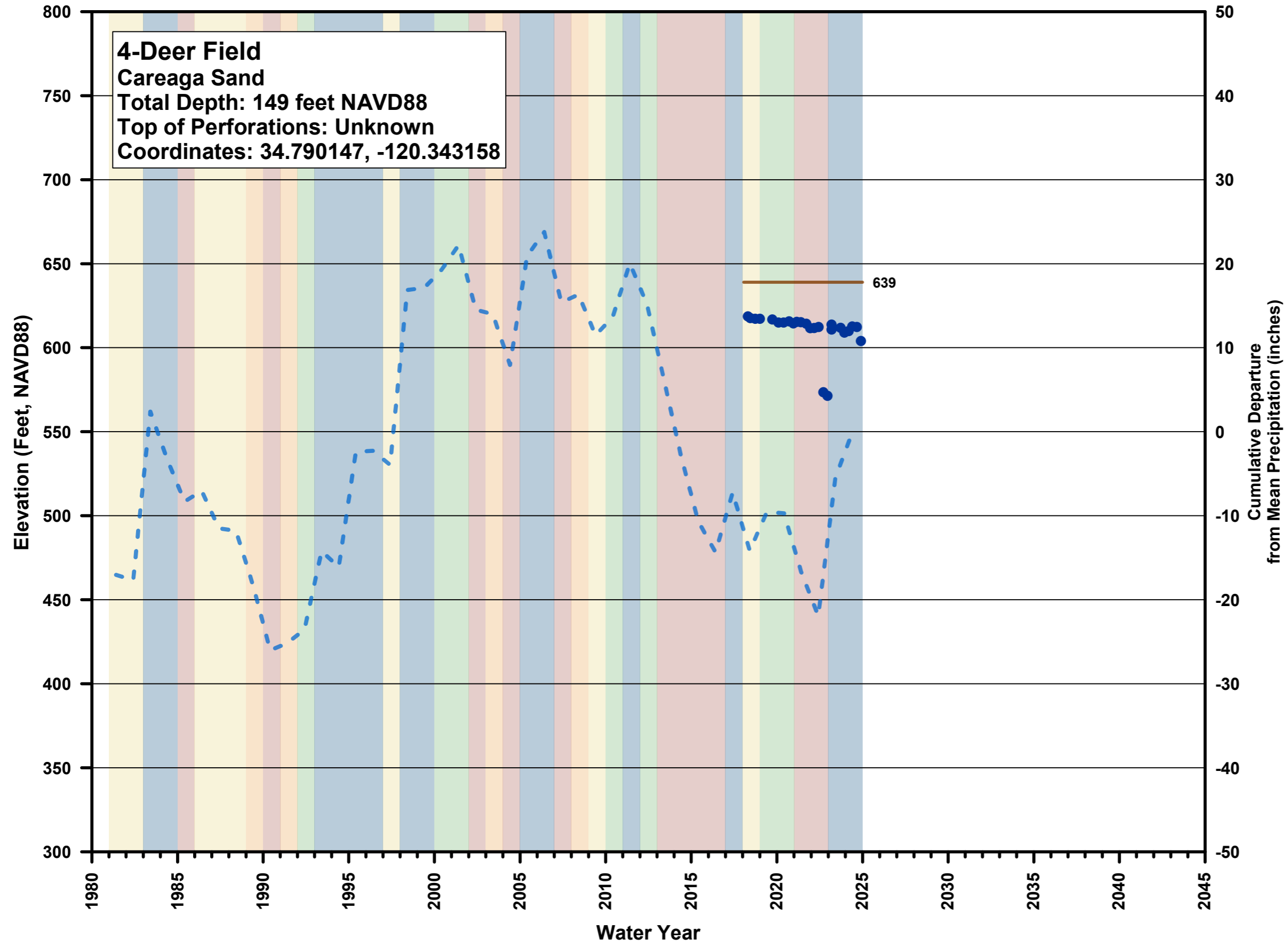
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

#### WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

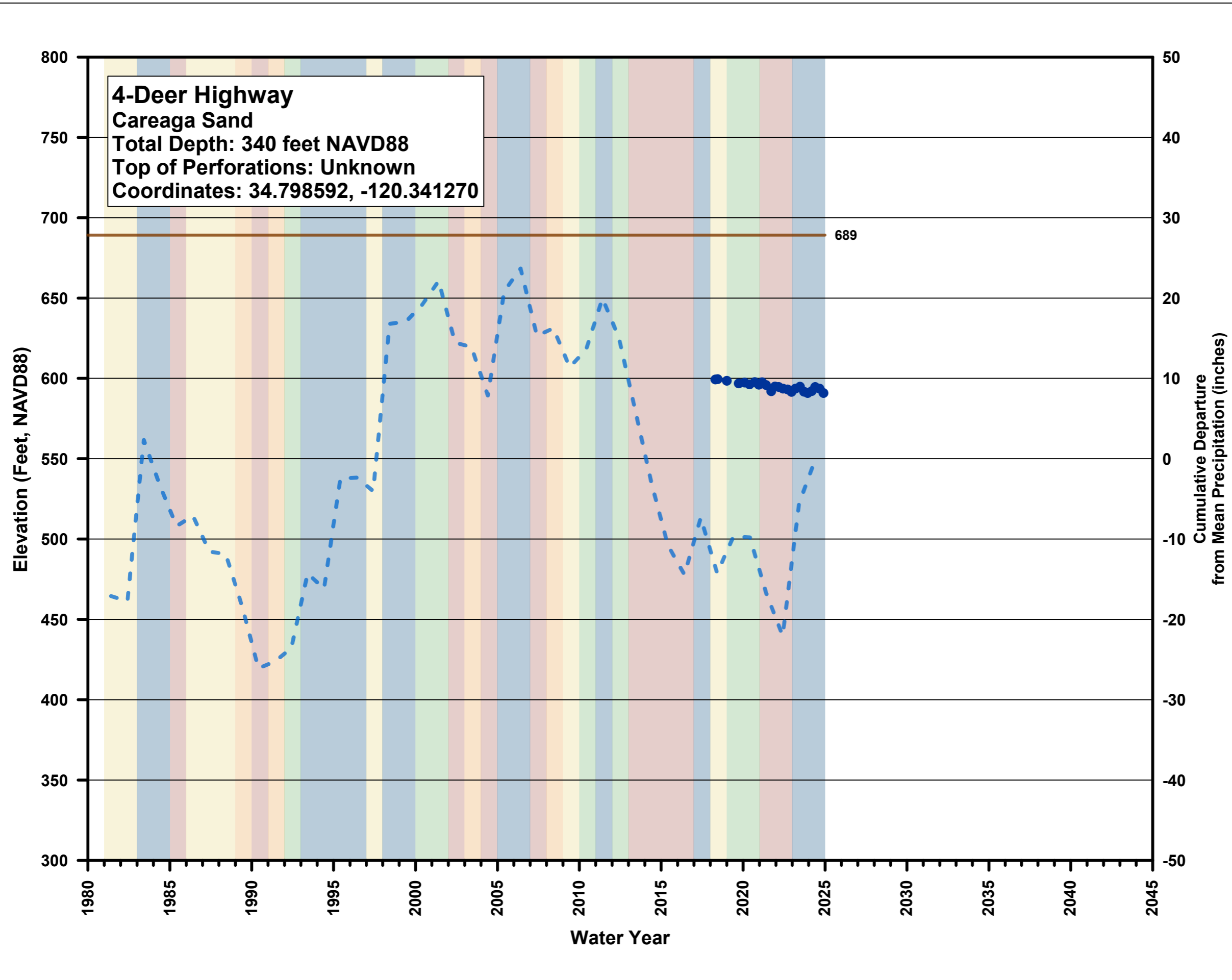
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report

#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

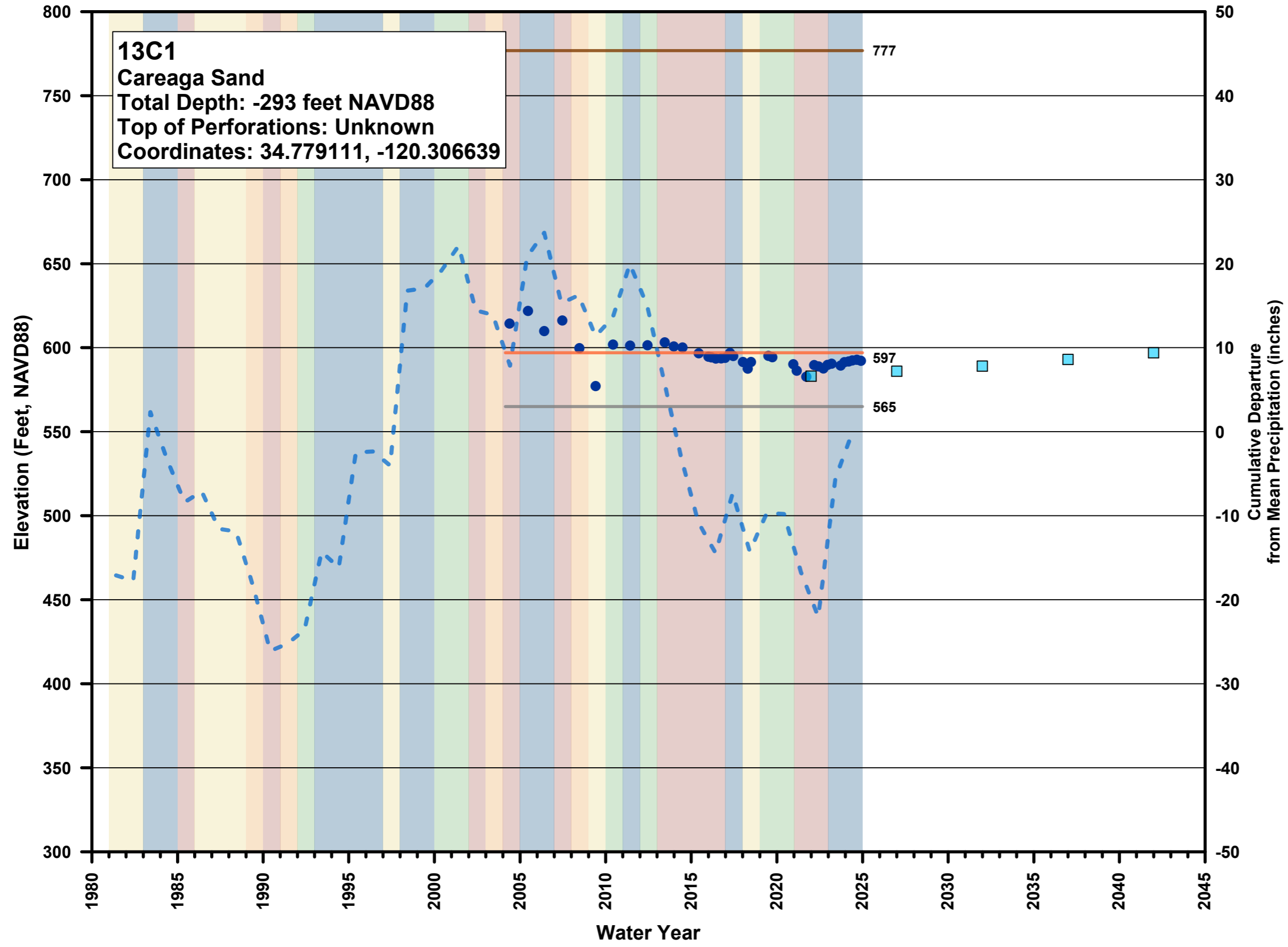
#### WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
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**LEGEND**

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation
- Measureable Objective
- Minimum Threshold
- Interim Milestones

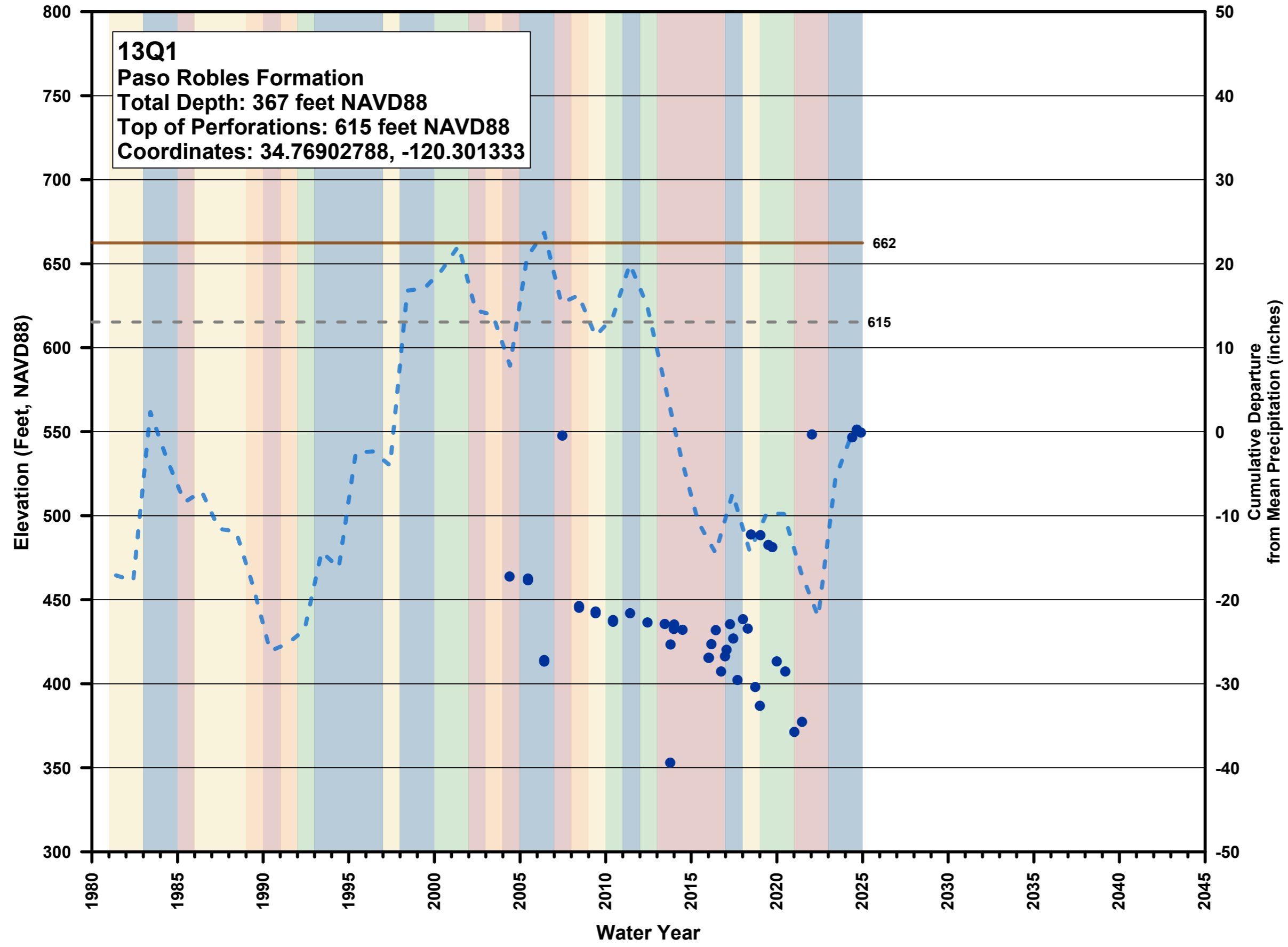
**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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**LEGEND**

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation
- - - Top of Well Perforated Interval

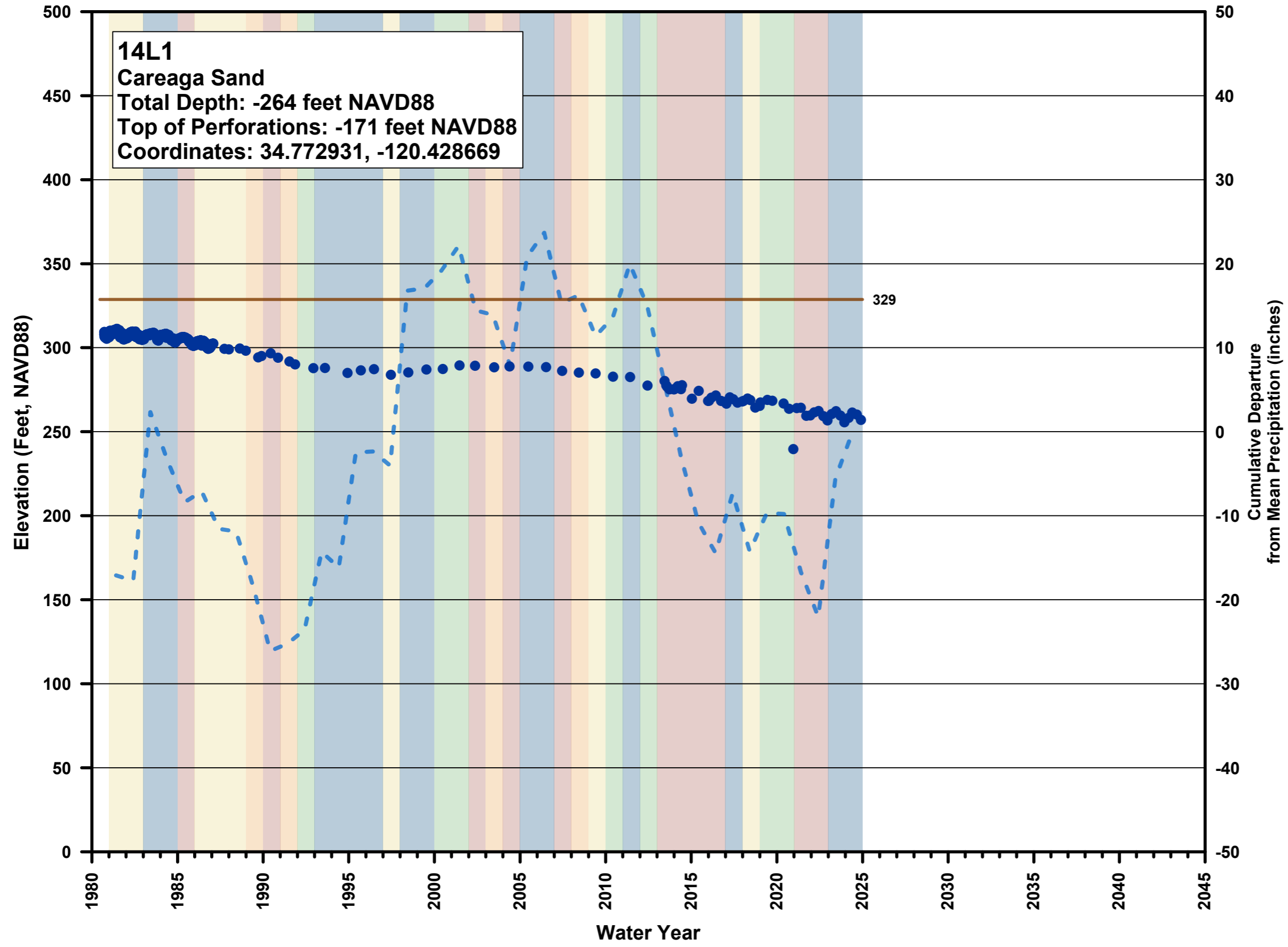
**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



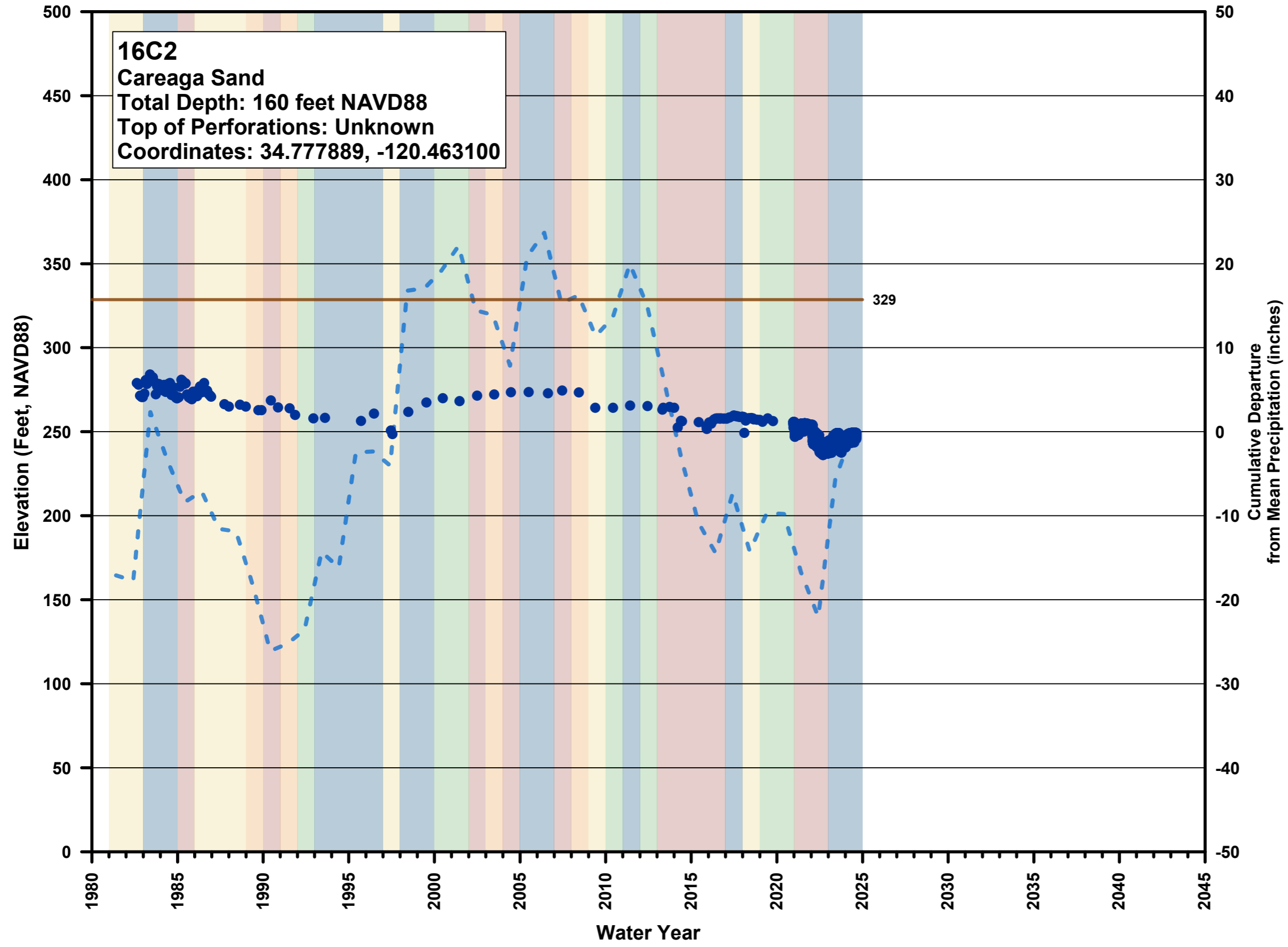
### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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### Groundwater Elevation Hydrograph

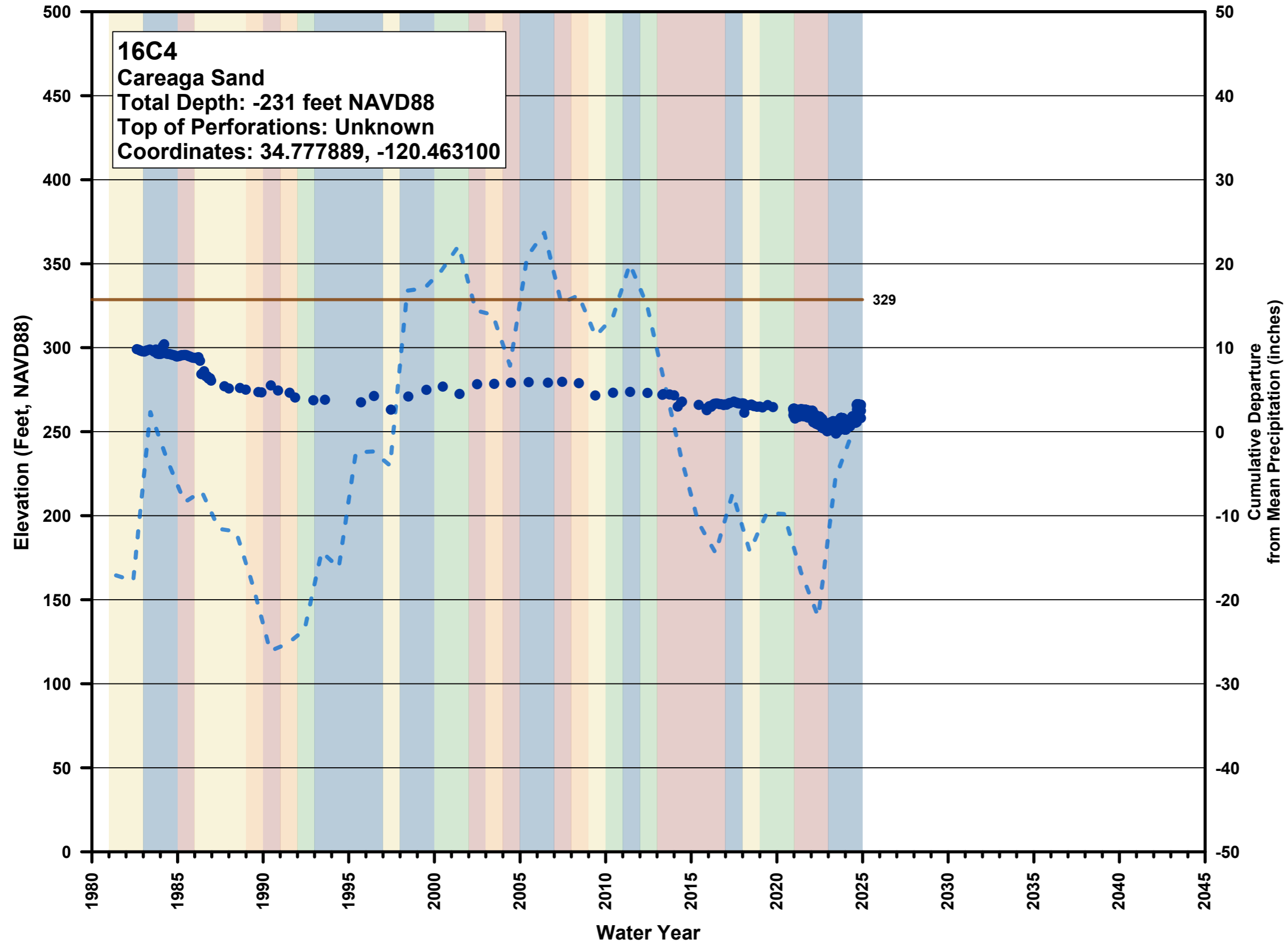
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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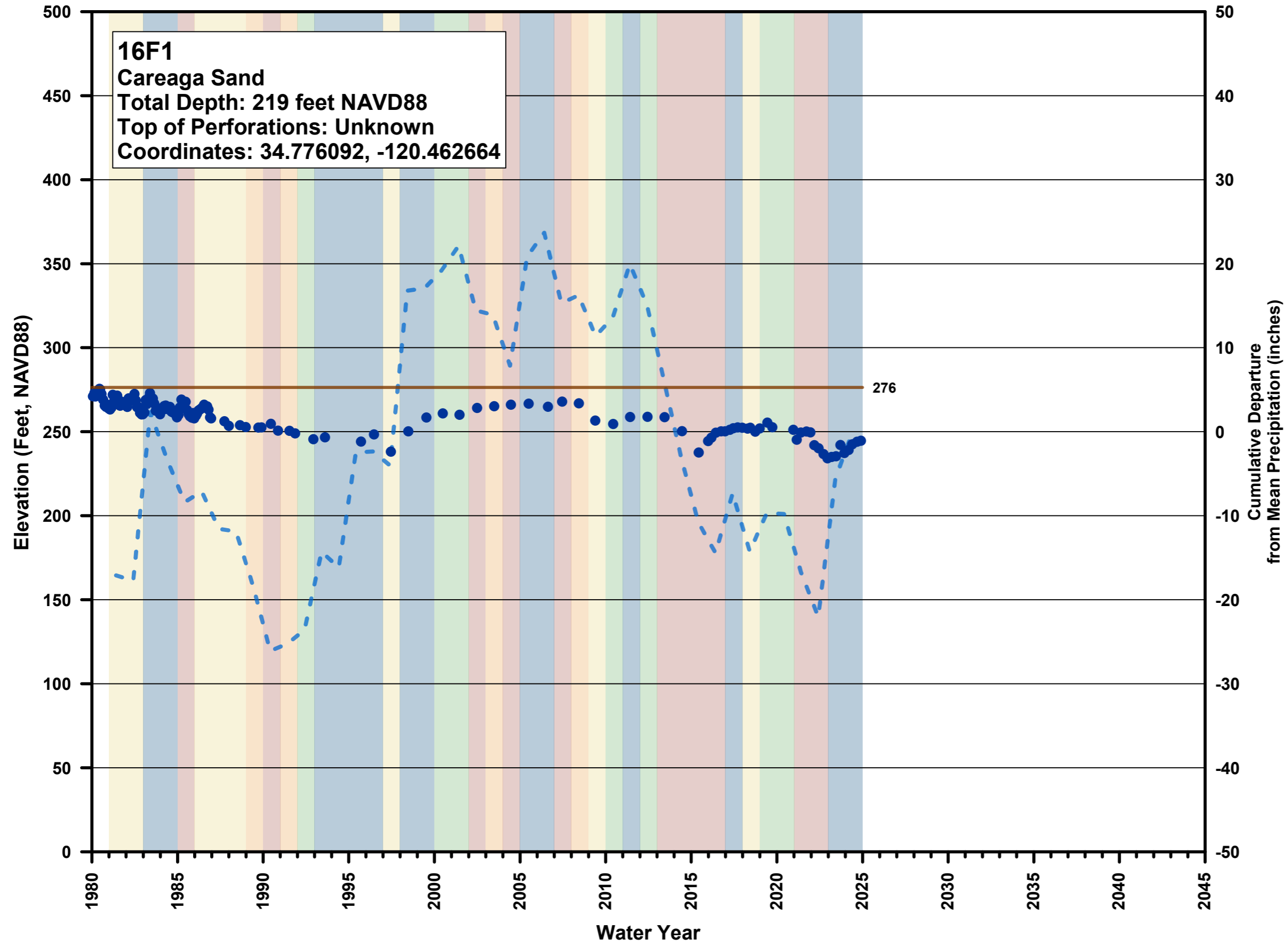
### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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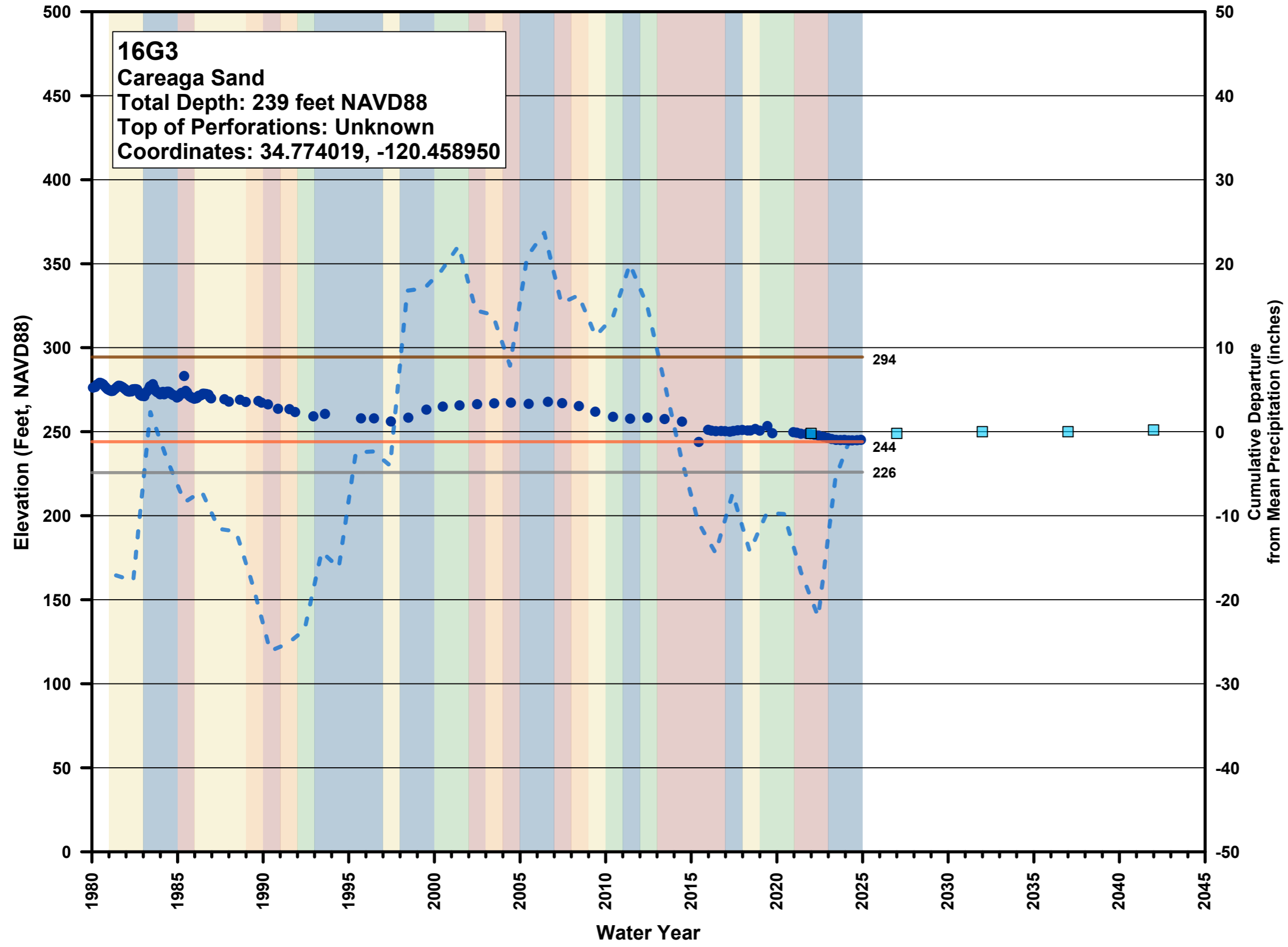
### Groundwater Elevation Hydrograph

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Groundwater Basin Groundwater  
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### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report



**LEGEND**

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Measureable Objective
- Ground Surface Elevation
- Minimum Threshold
- Interim Milestones

**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

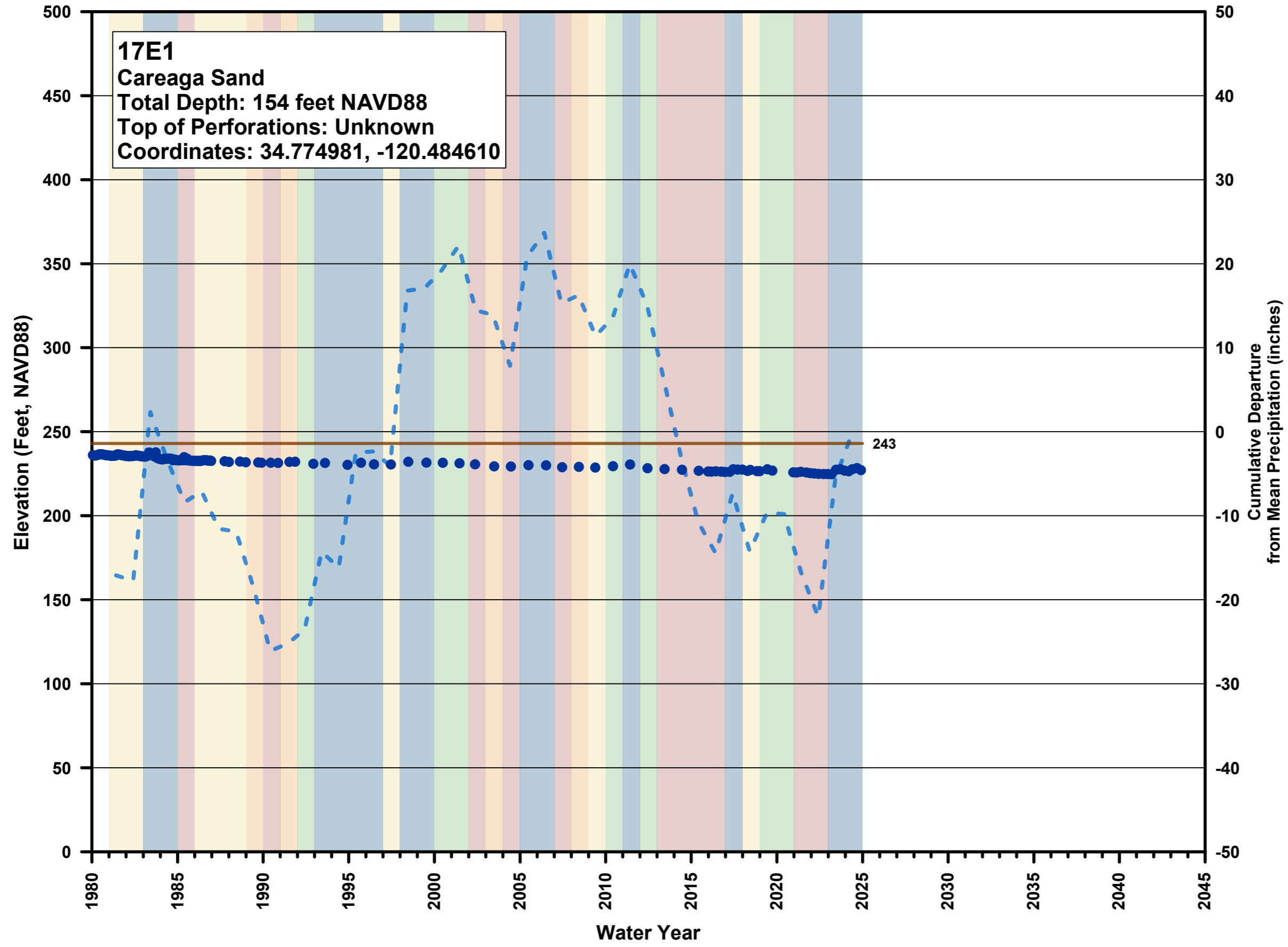
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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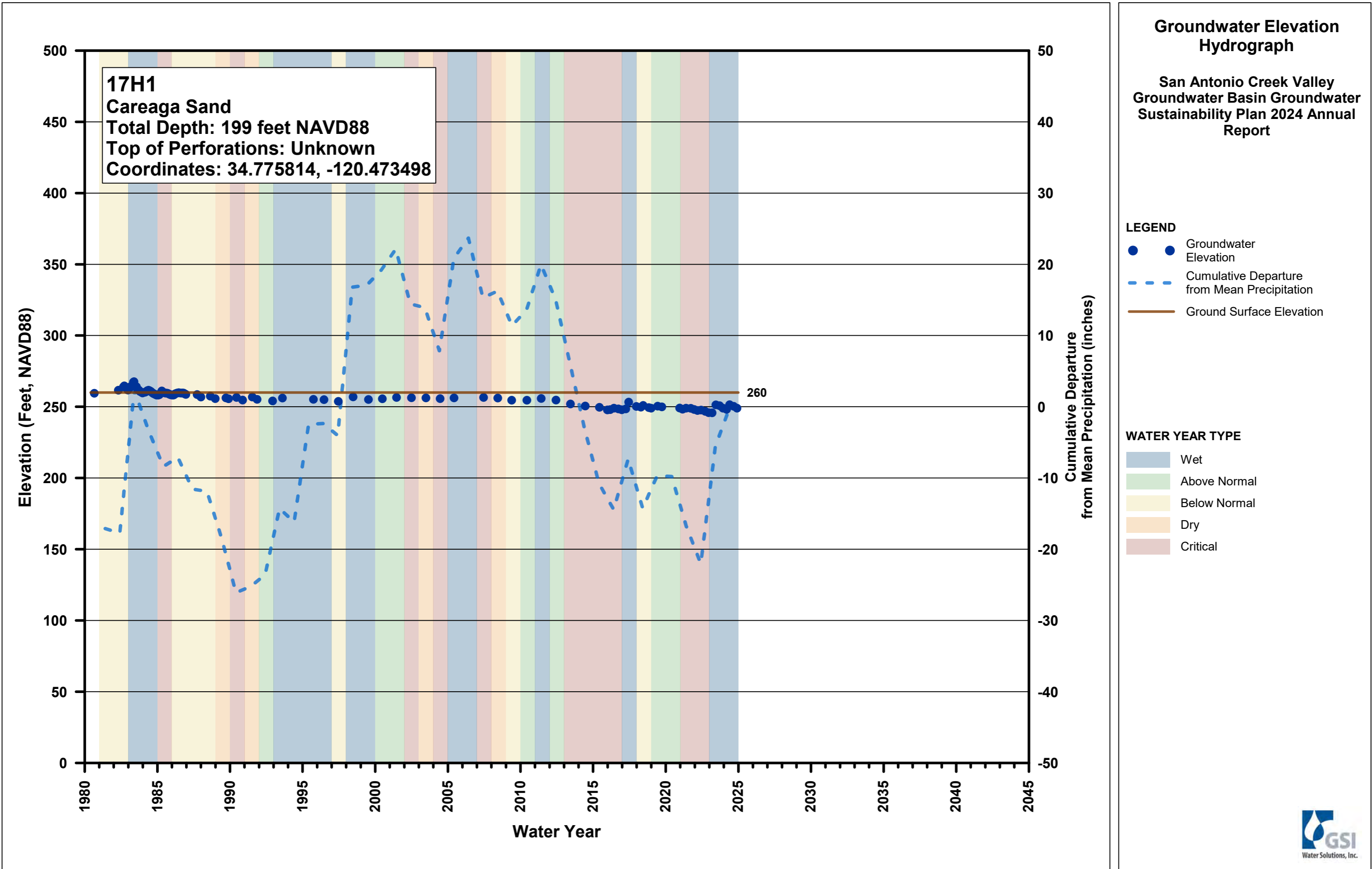
#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

#### WATER YEAR TYPE

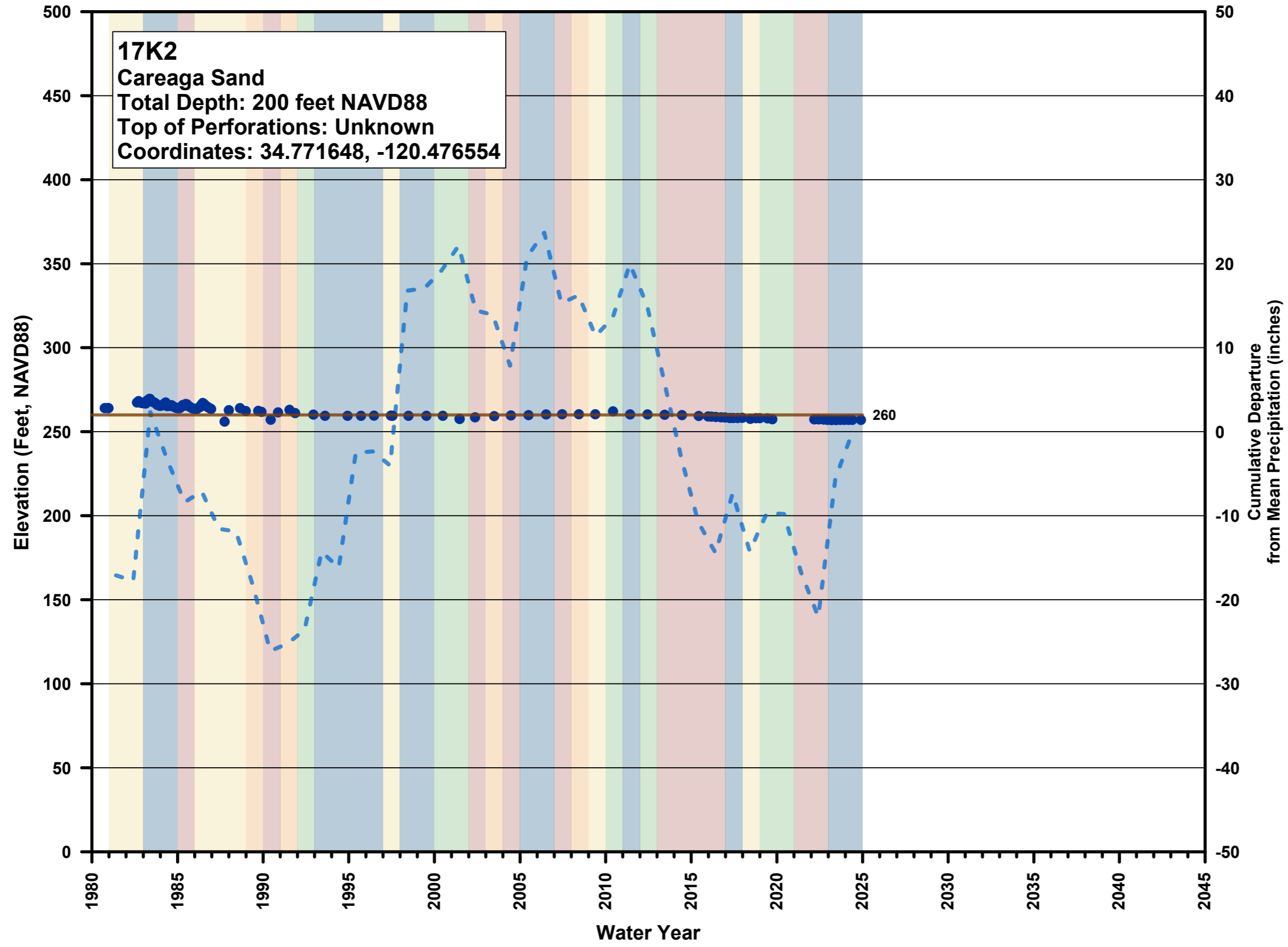
- Wet
- Above Normal
- Below Normal
- Dry
- Critical





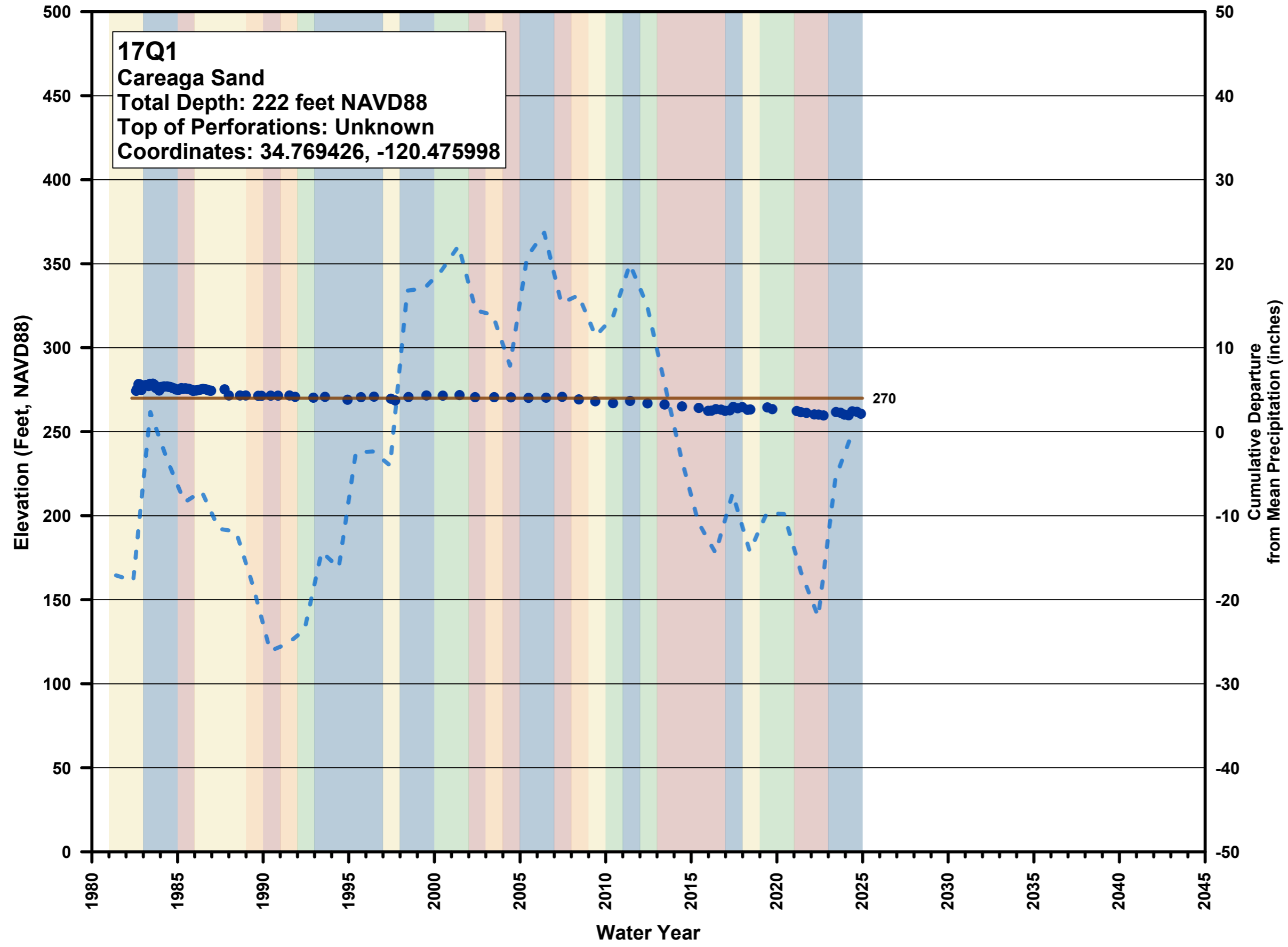
### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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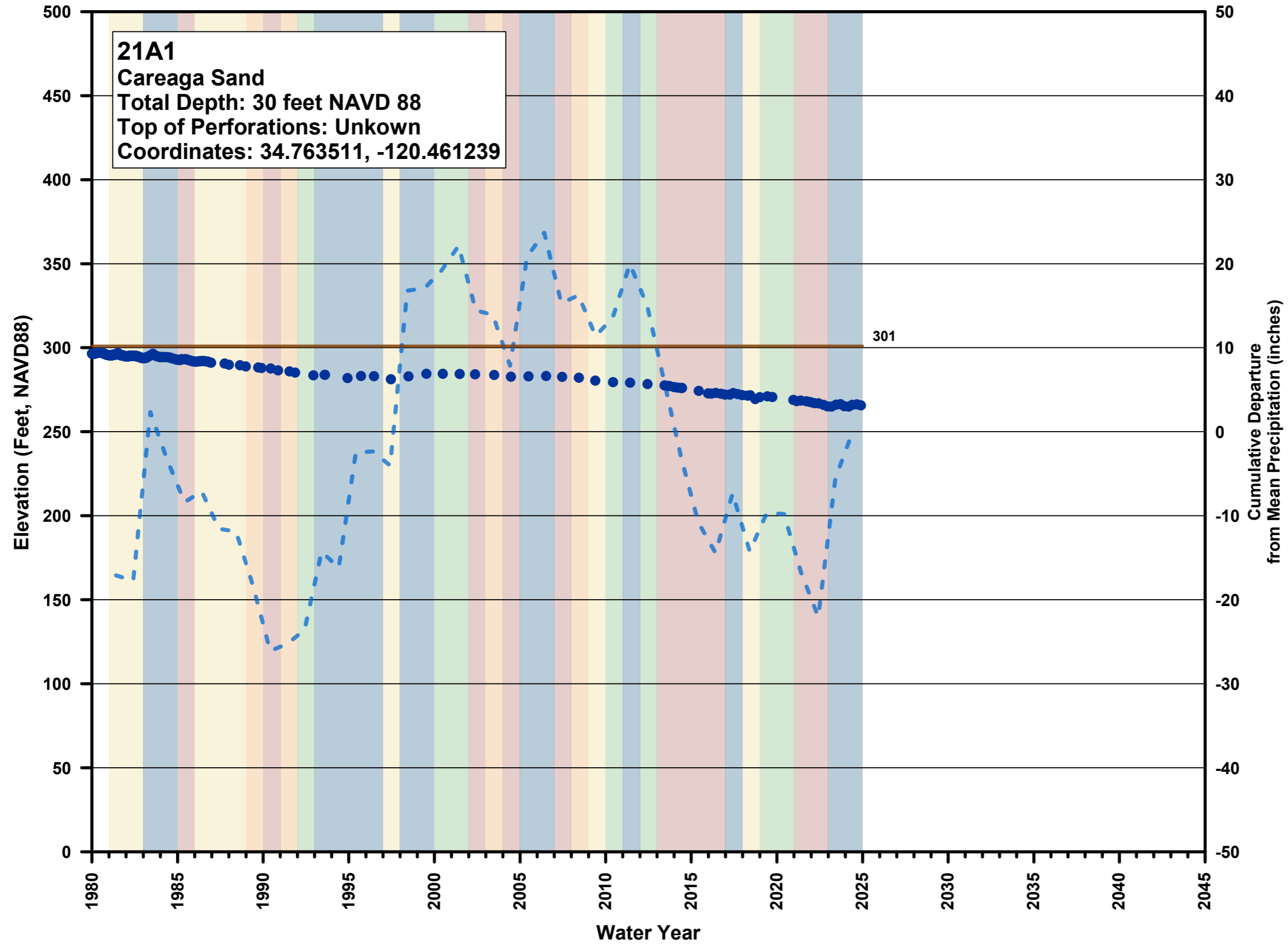
### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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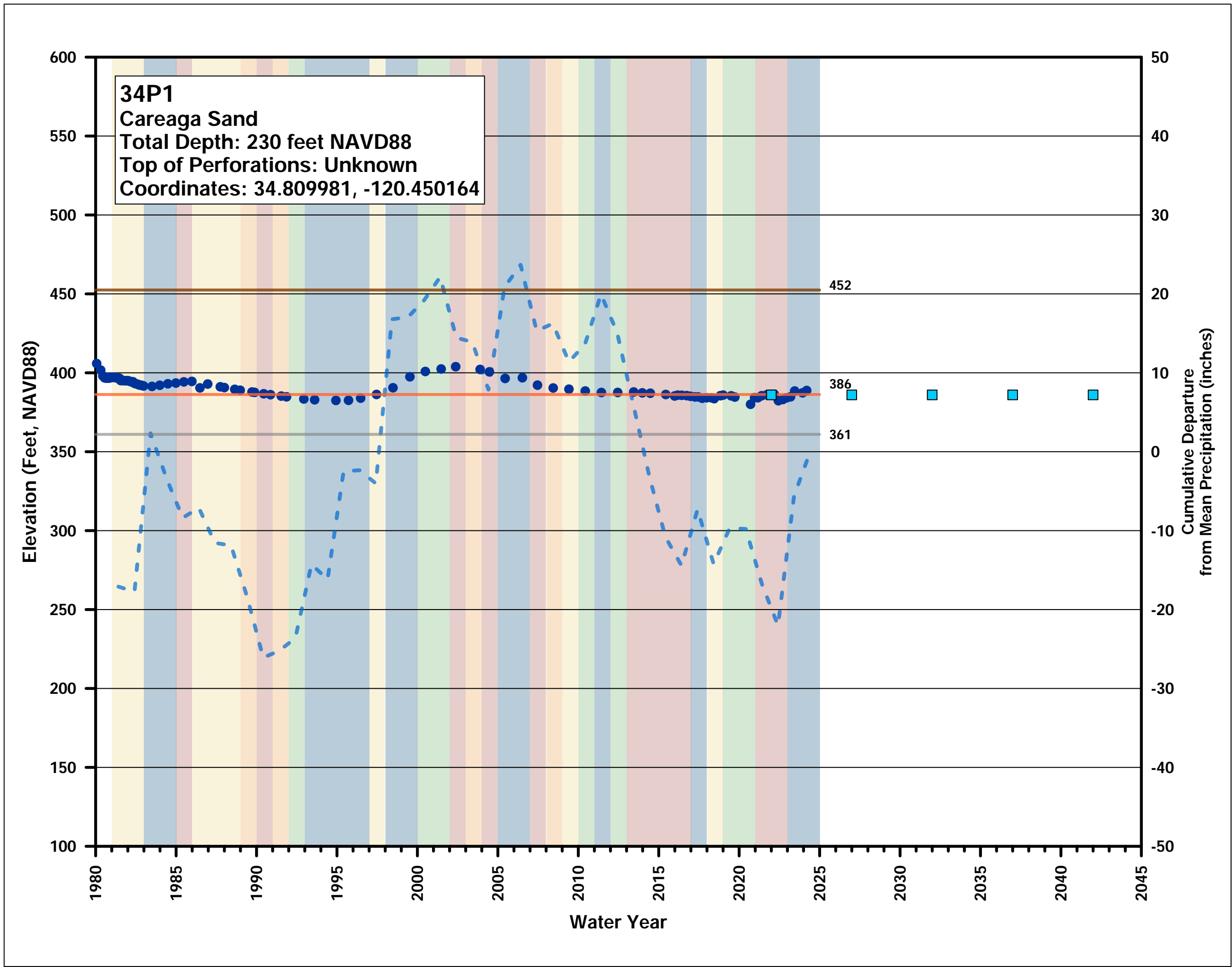


### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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### Groundwater Elevation Hydrograph


**San Antonio Creek Valley  
 Groundwater Basin Groundwater  
 Sustainability Plan 2024 Annual  
 Report**

**LEGEND**

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Measureable Objective
- Ground Surface Elevation
- Minimum Threshold
- Interim Milestones

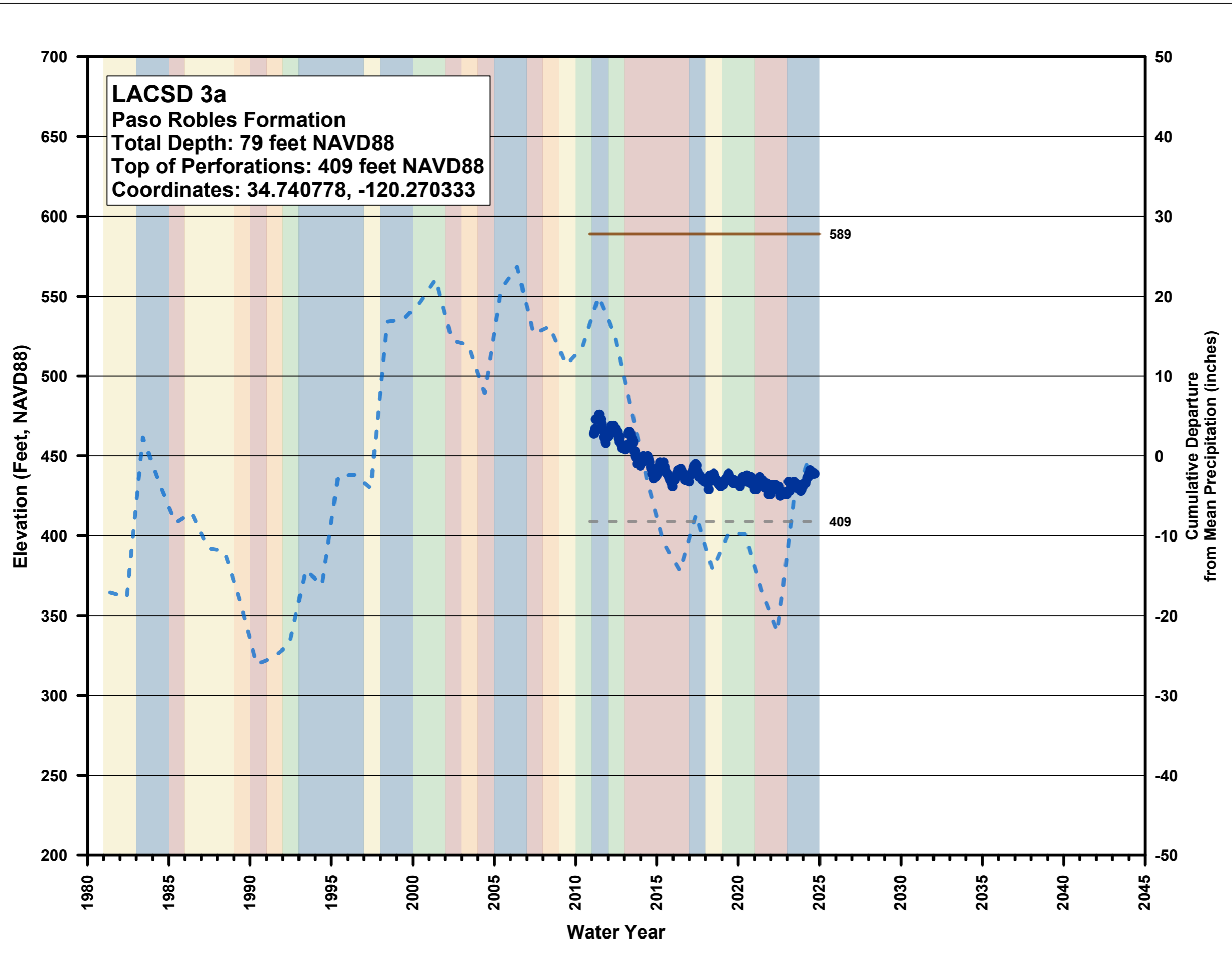
**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



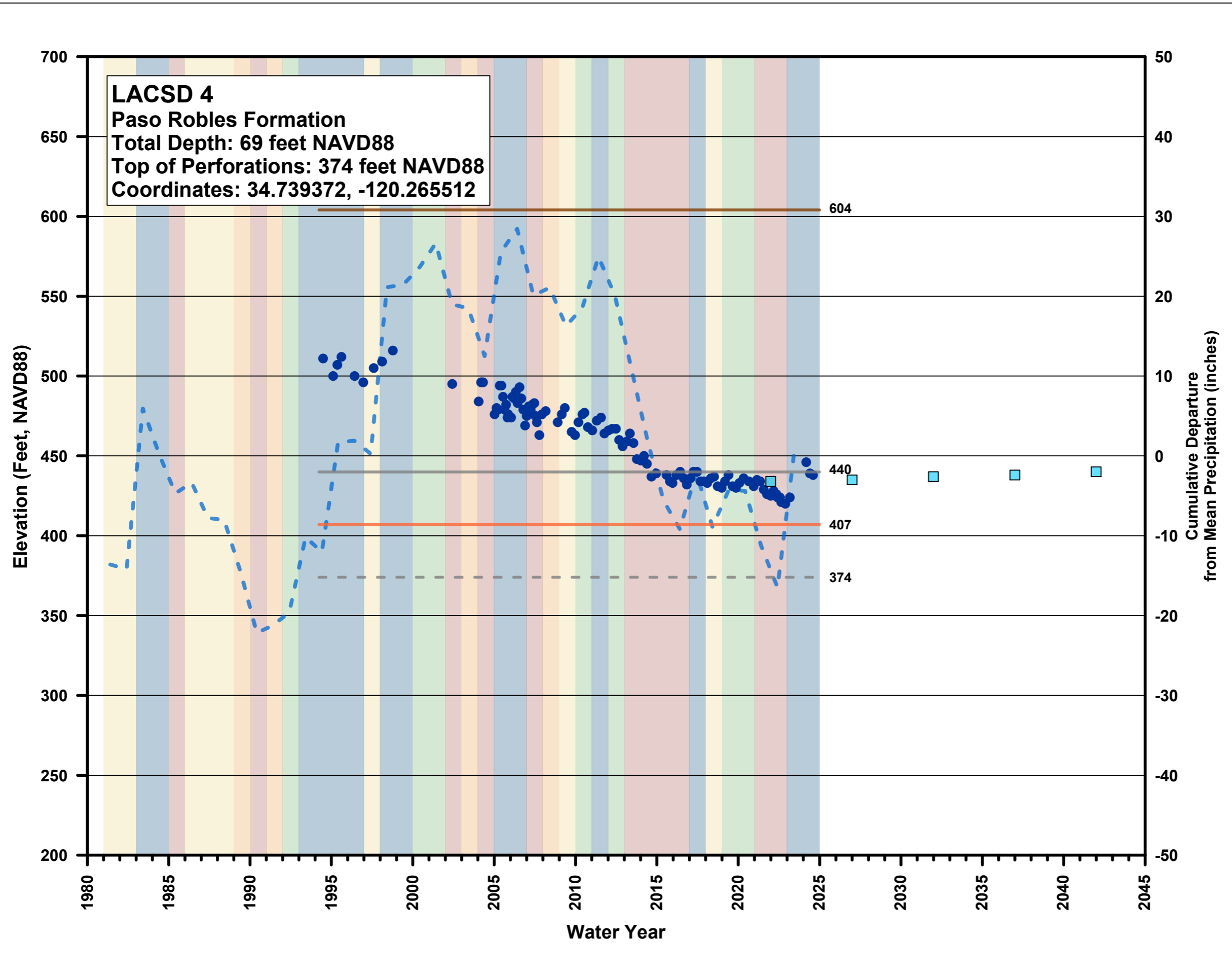
### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
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Report



**LEGEND**

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### Groundwater Elevation Hydrograph

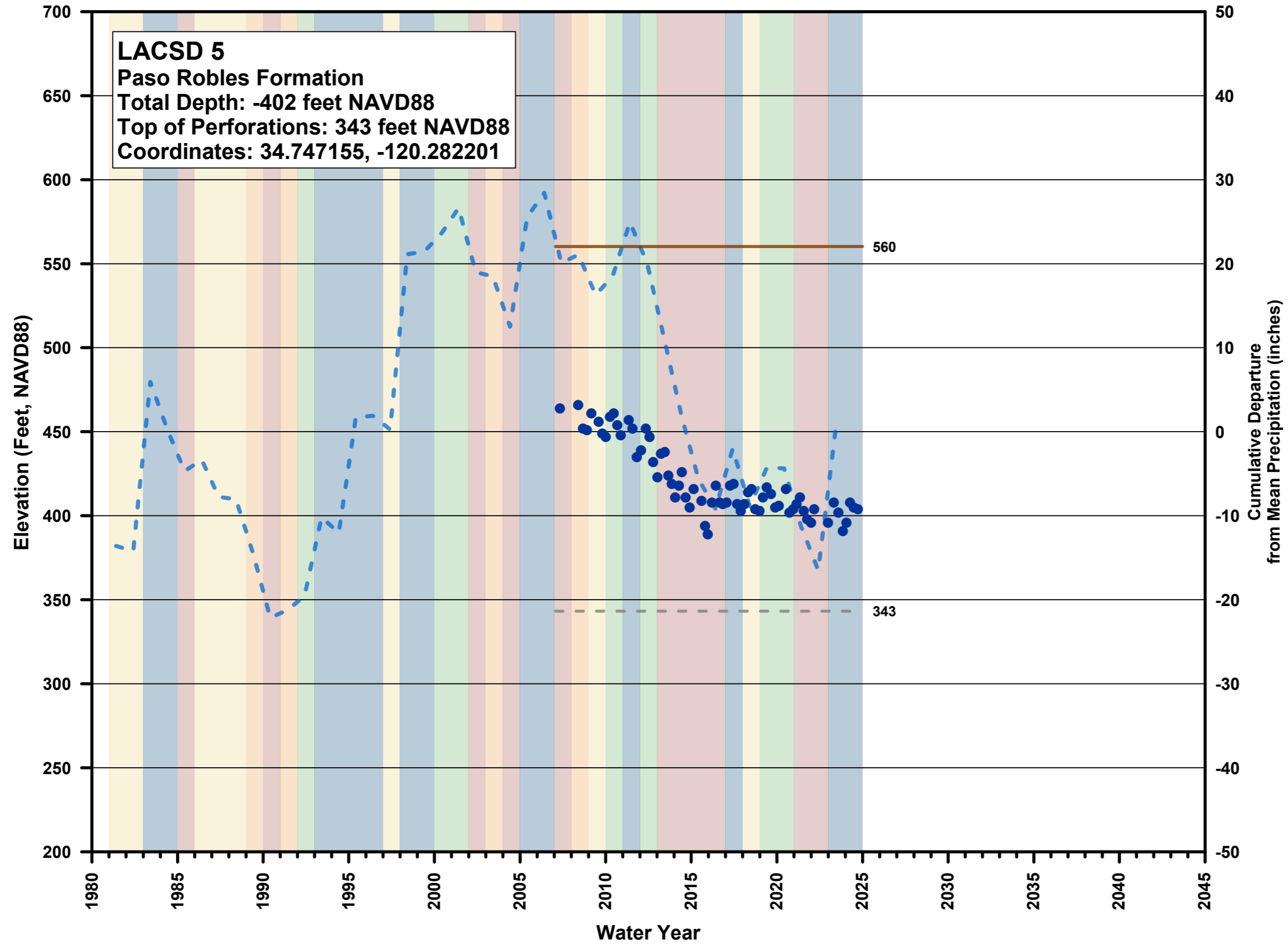
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report

#### LEGEND

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- - - Cumulative Departure from Mean Precipitation
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- Ground Surface Elevation

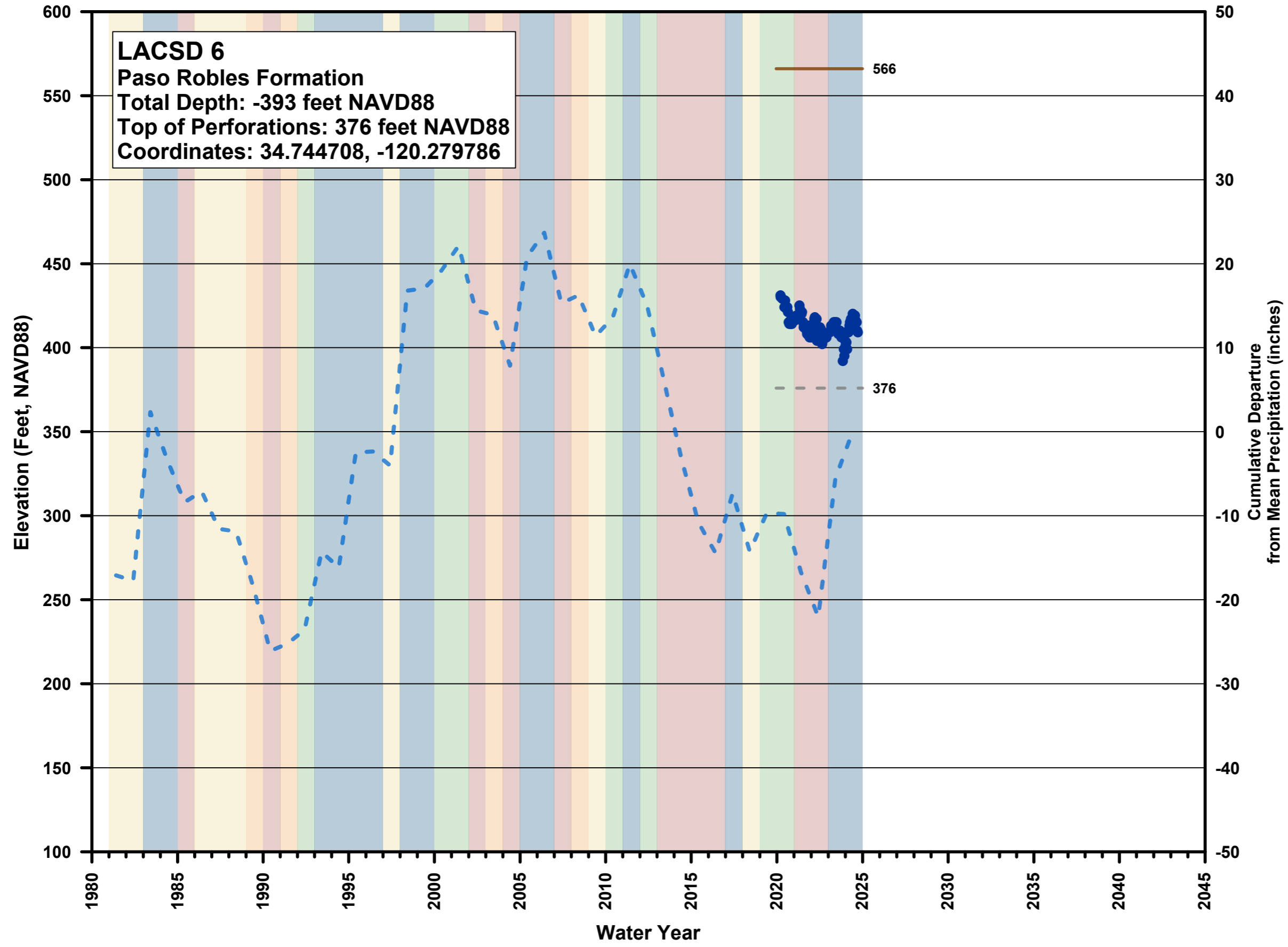
#### WATER YEAR TYPE

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### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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### Groundwater Elevation Hydrograph

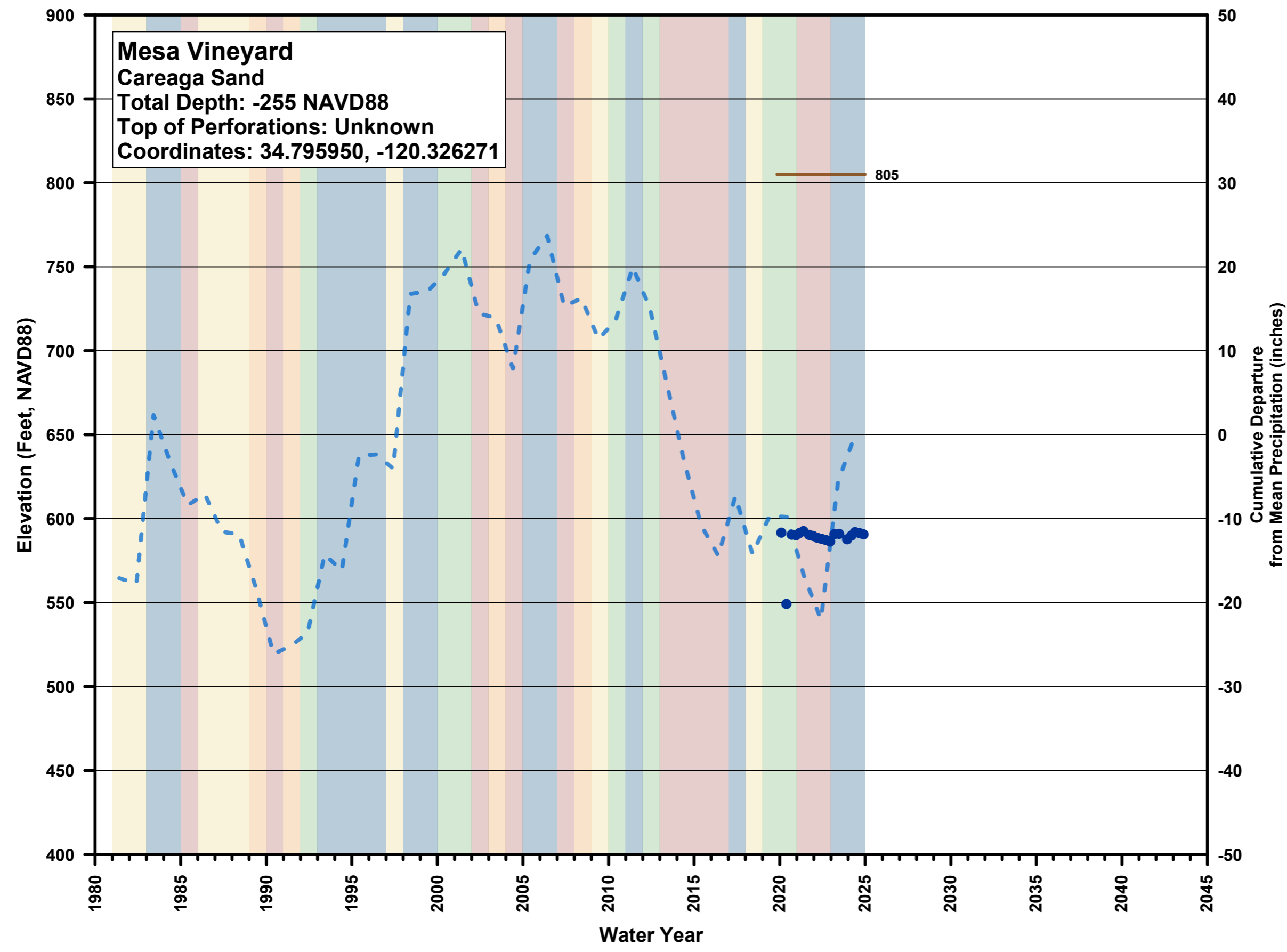
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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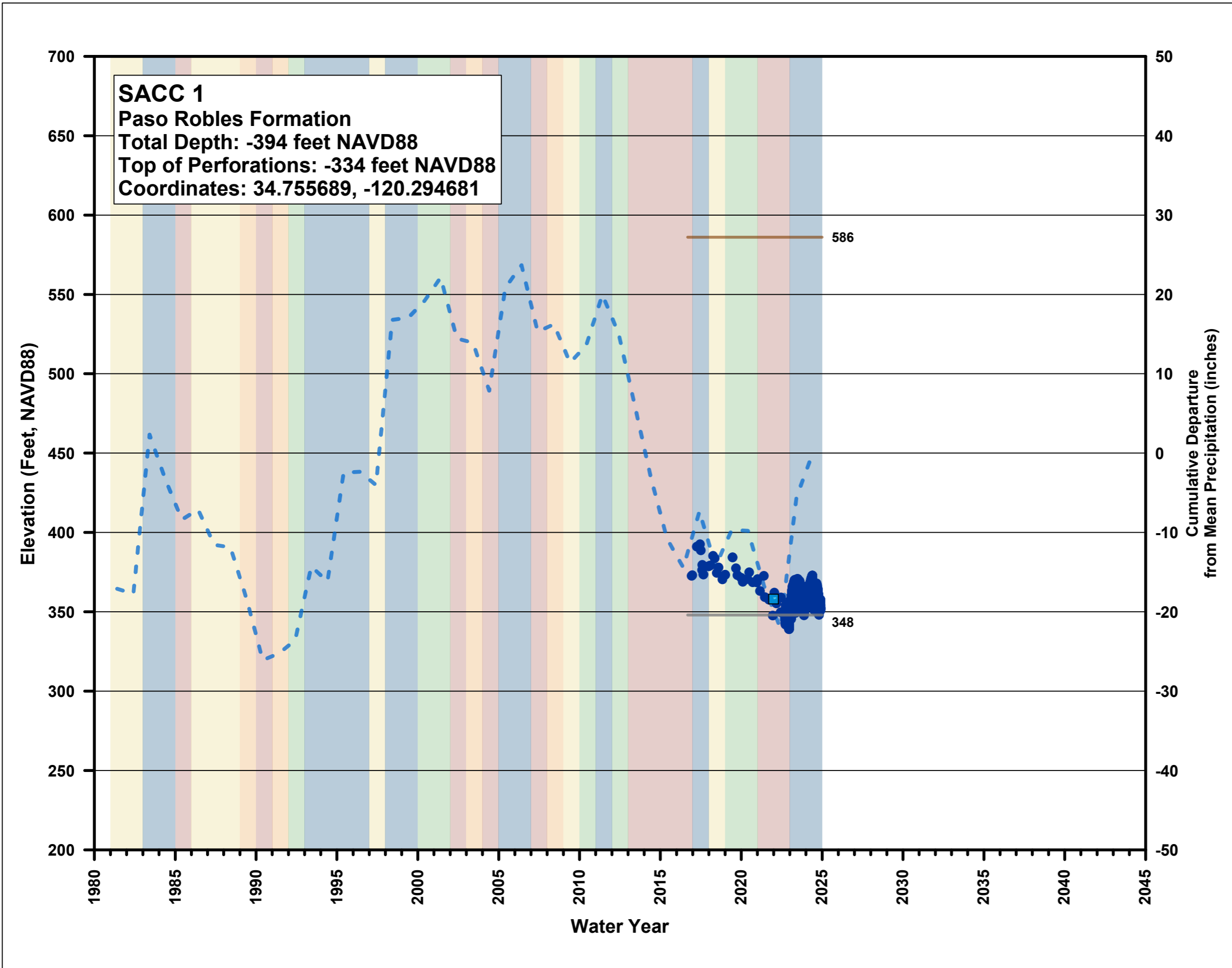
#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

#### WATER YEAR TYPE

- Wet
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### Groundwater Elevation Hydrograph


**San Antonio Creek Valley  
 Groundwater Basin Groundwater  
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### Groundwater Elevation Hydrograph

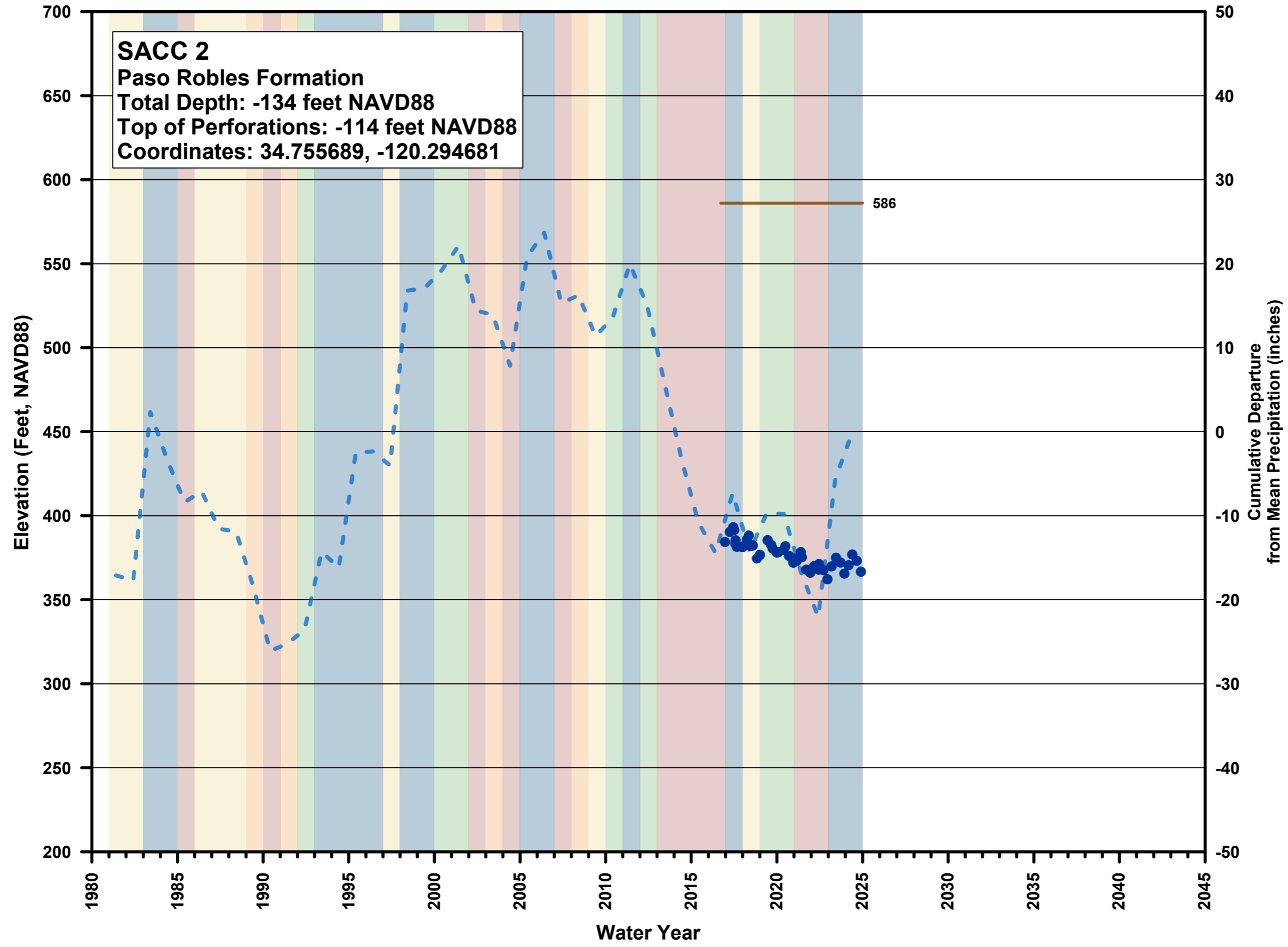
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report

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- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

#### WATER YEAR TYPE

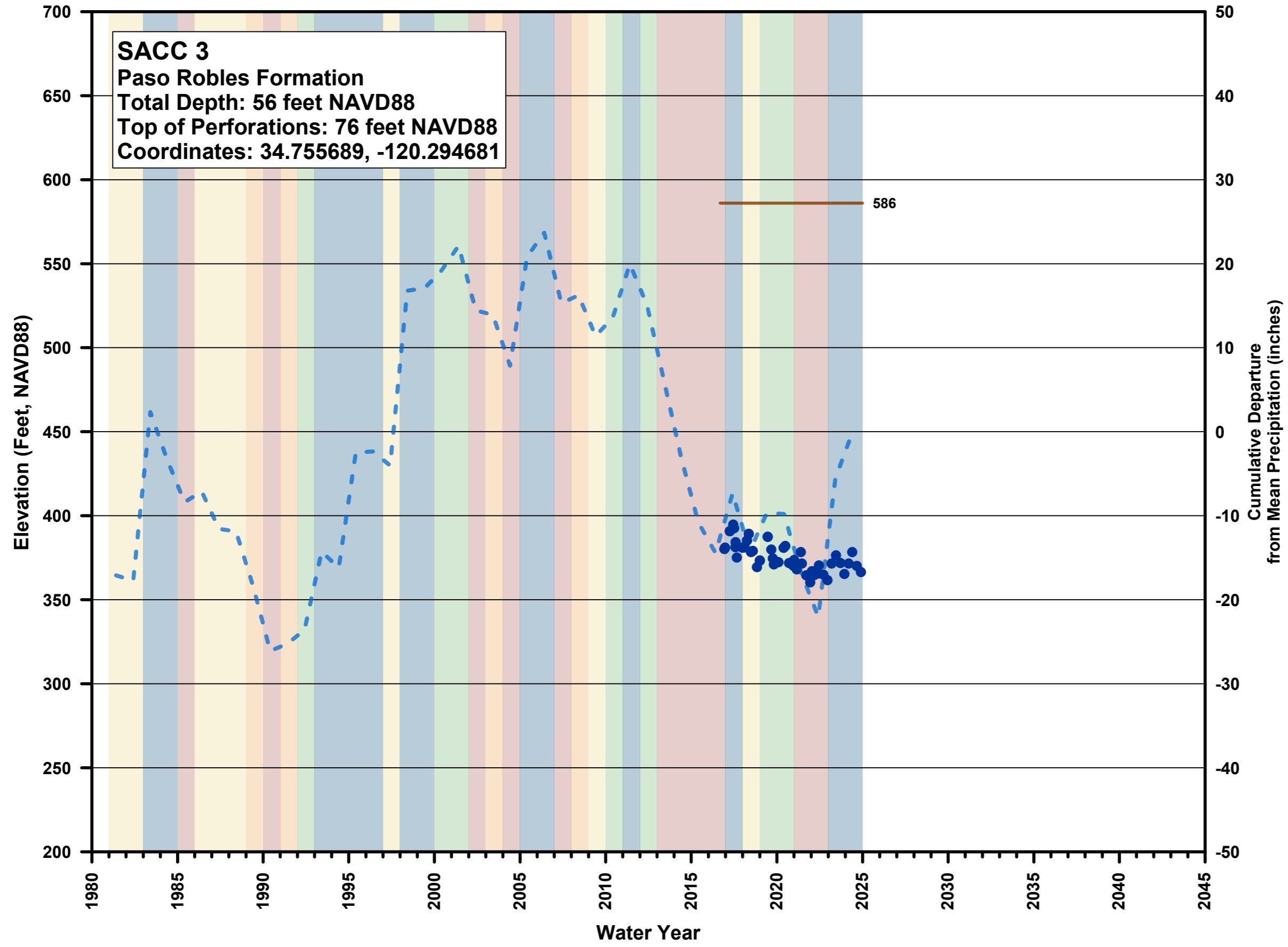
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### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
Groundwater Basin Groundwater  
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Report



**LEGEND**

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- - - Cumulative Departure from Mean Precipitation
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- Above Normal
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### Groundwater Elevation Hydrograph

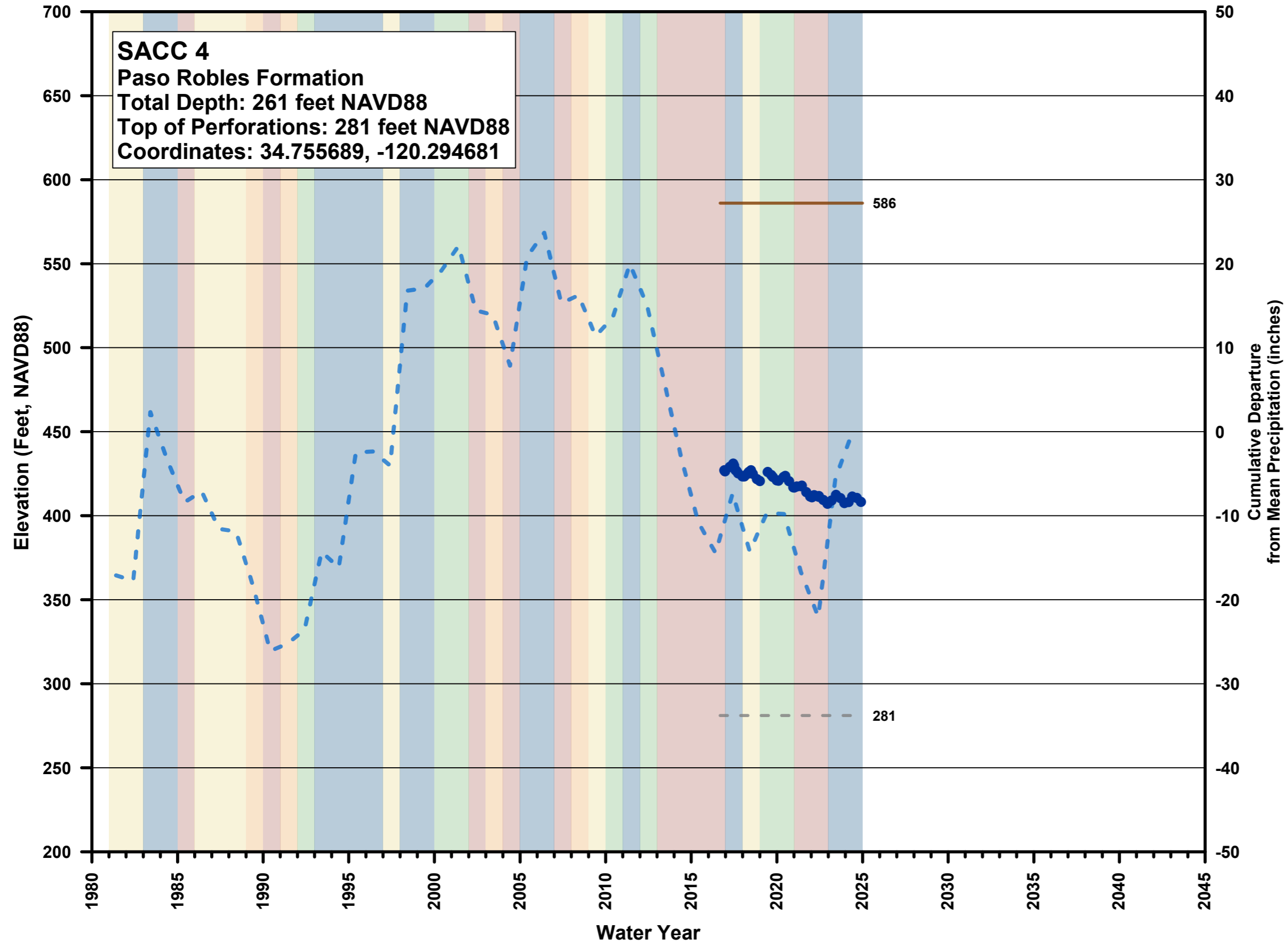
San Antonio Creek Valley  
Groundwater Basin Groundwater  
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- - - Top of Perforated Interval
- Ground Surface Elevation

#### WATER YEAR TYPE

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### Groundwater Elevation Hydrograph

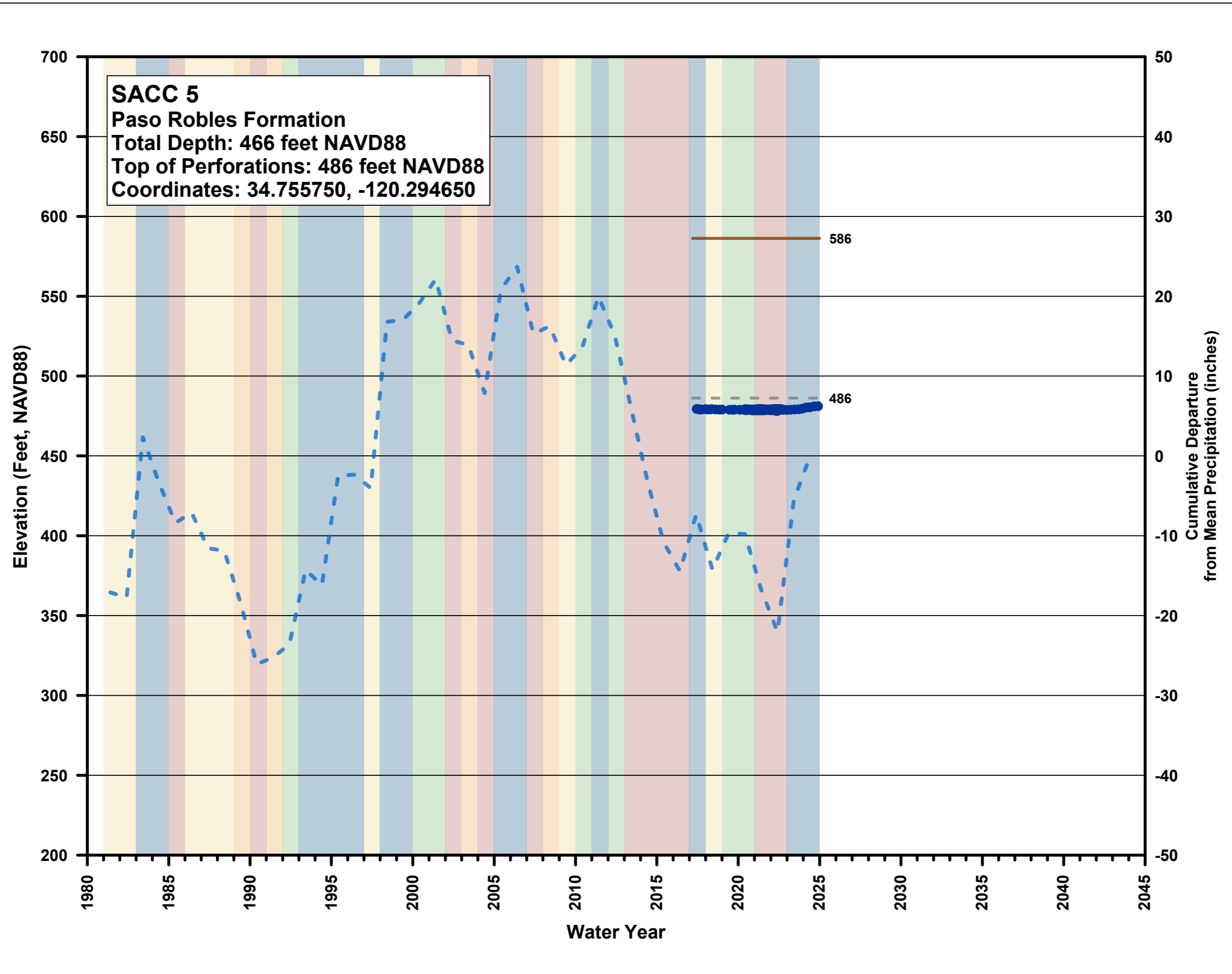
San Antonio Creek Valley  
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Report

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# Groundwater Elevation Hydrograph

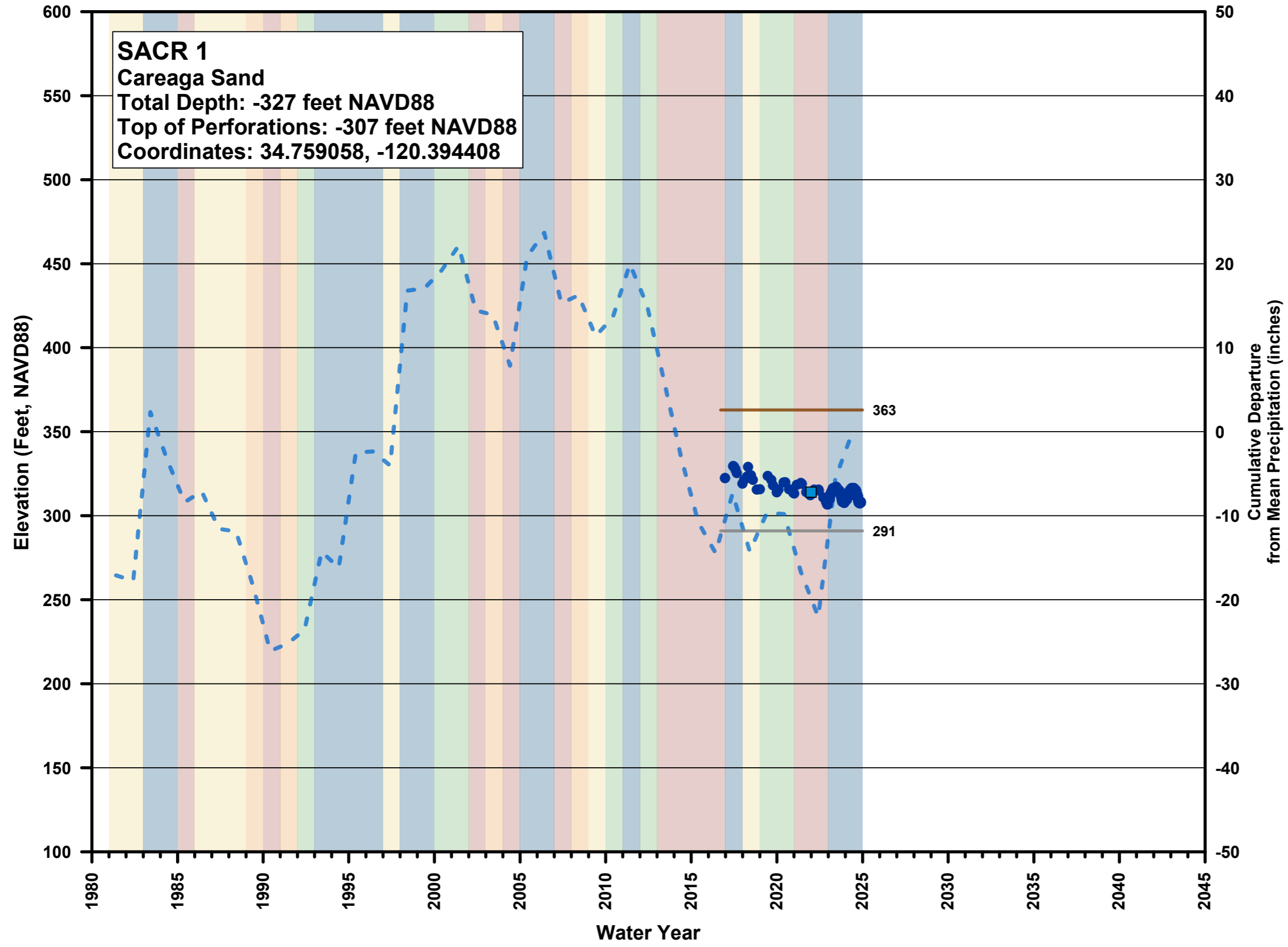
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report

## LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation
- Minimum Threshold
- Interim Milestones

## WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
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### Groundwater Elevation Hydrograph

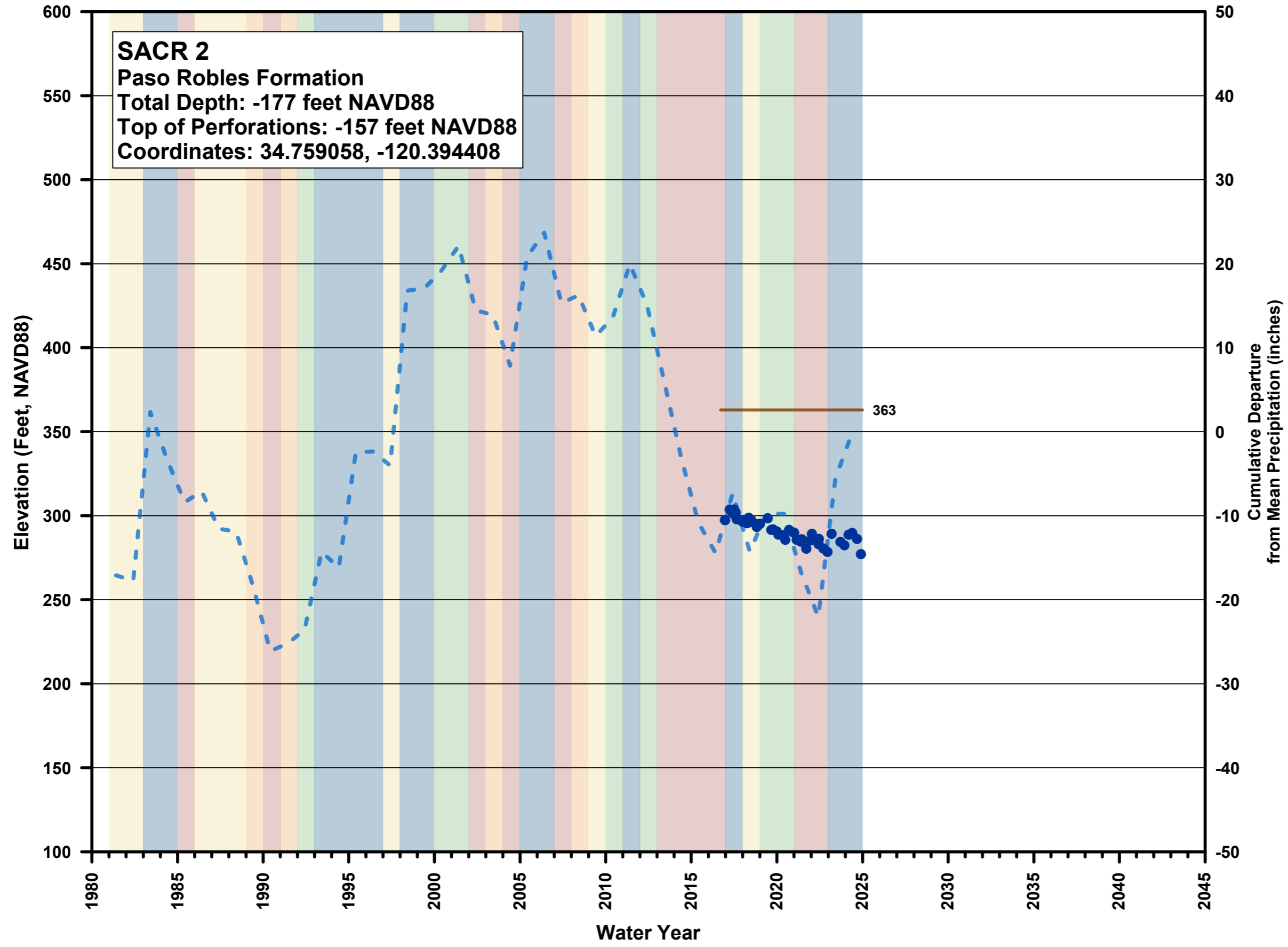
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
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#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

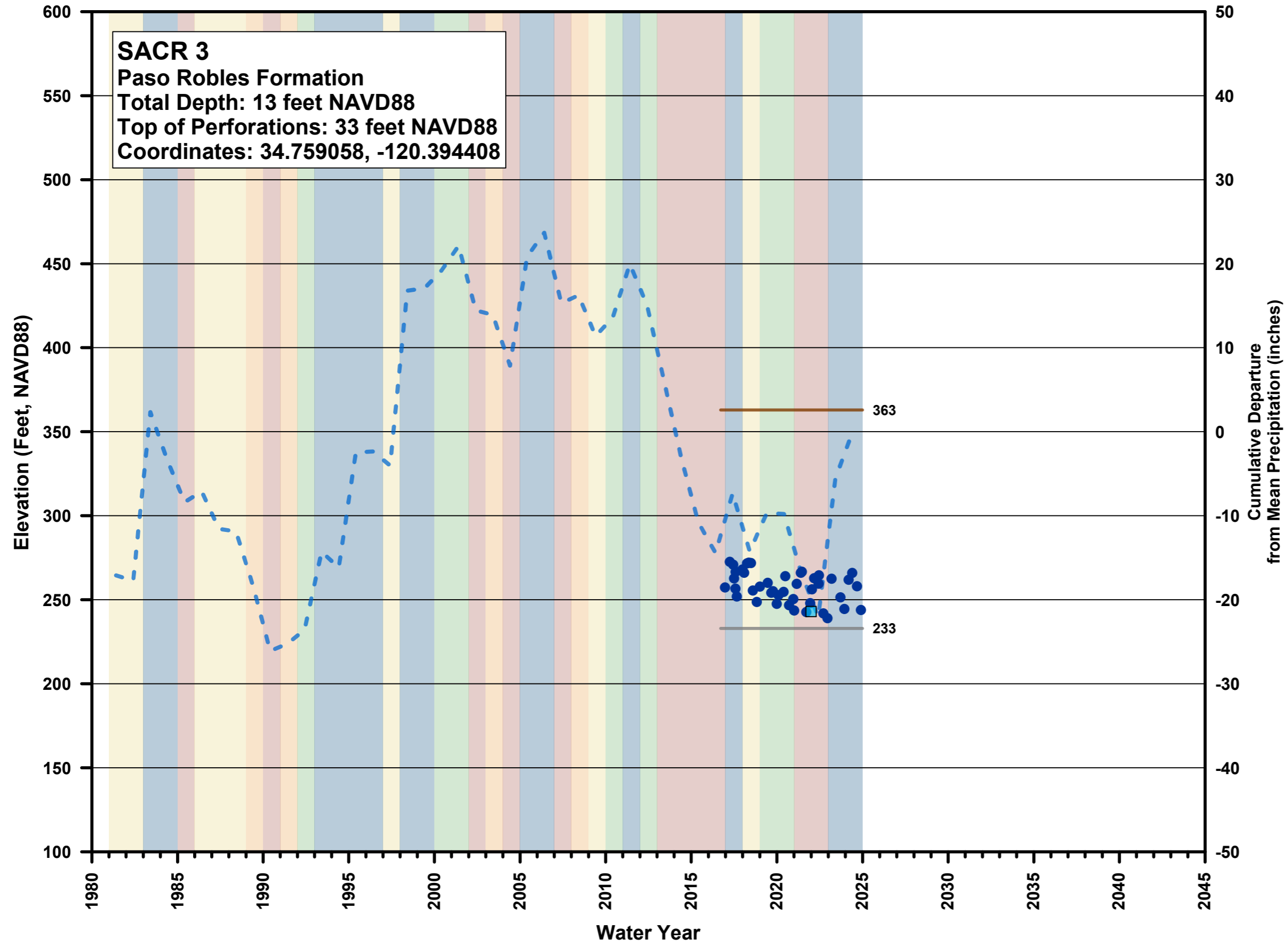
#### WATER YEAR TYPE

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San Antonio Creek Valley  
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- Minimum Threshold
- Interim Milestones

**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

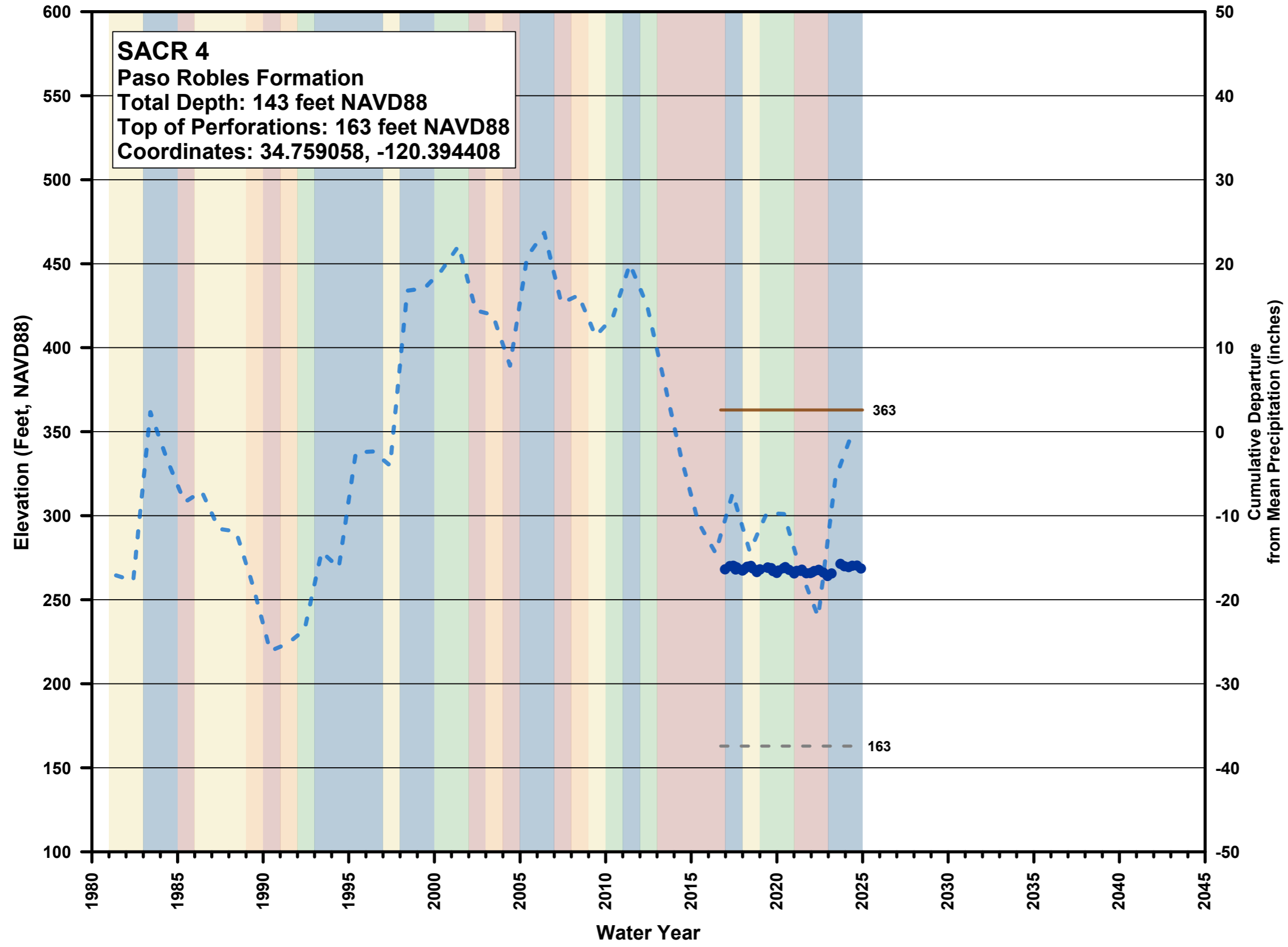
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report

#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

#### WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

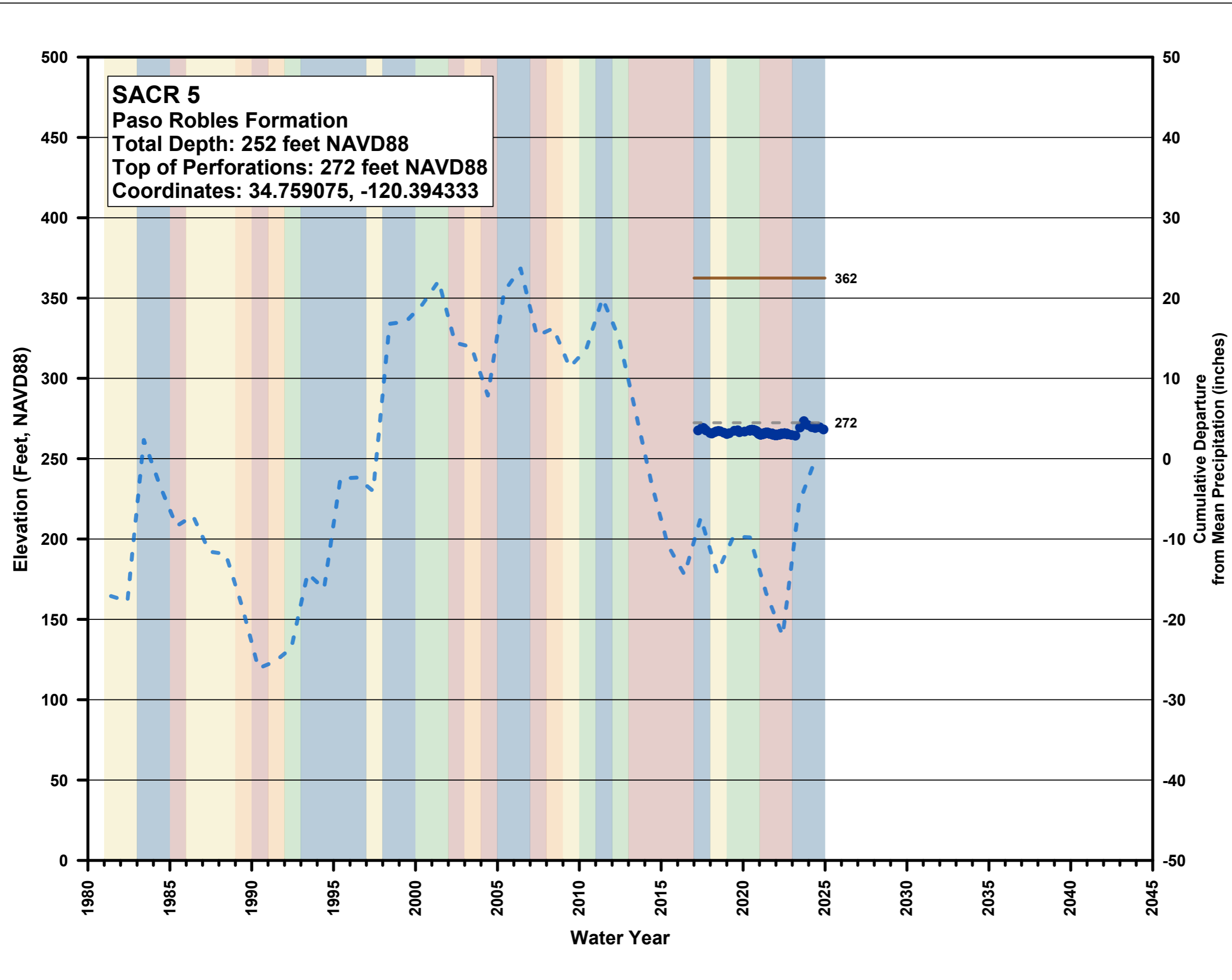
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report

#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- - - Top of Perforated Interval
- Ground Surface Elevation

#### WATER YEAR TYPE

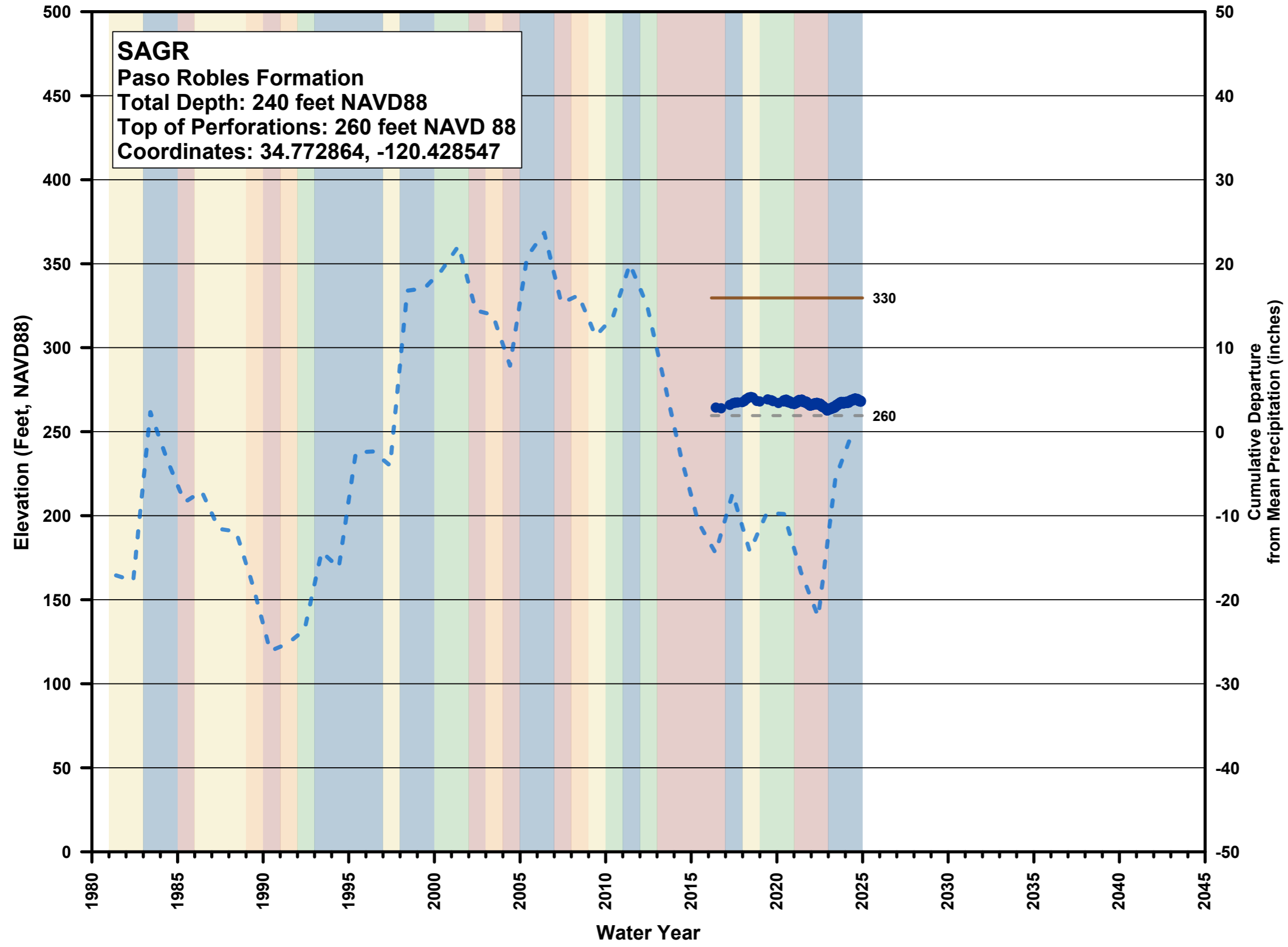
- █ Wet
- █ Above Normal
- █ Below Normal
- █ Dry
- █ Critical





### Groundwater Elevation Hydrograph

San Antonio Creek Valley  
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# Groundwater Elevation Hydrograph

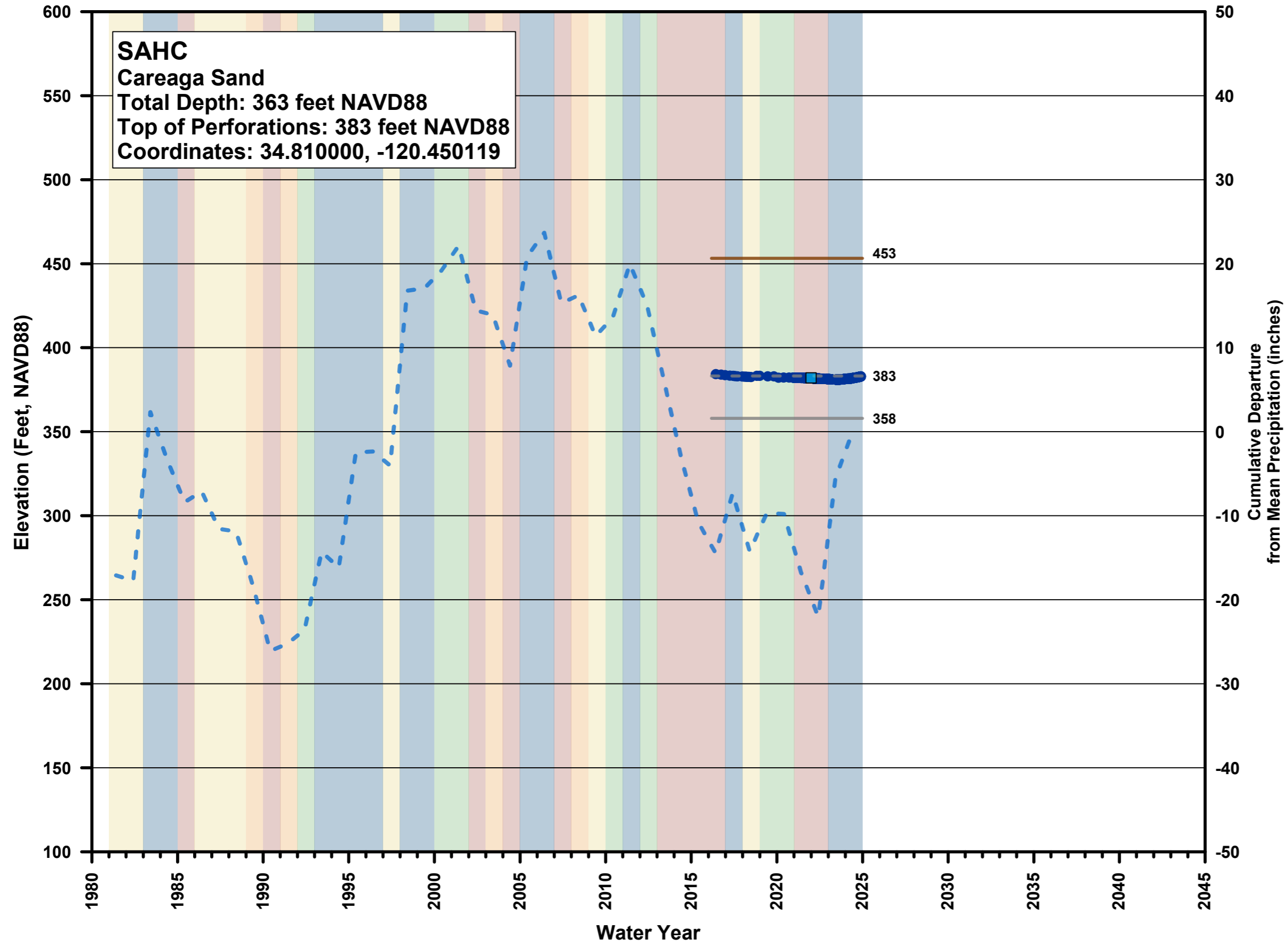
San Antonio Creek Valley  
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Sustainability Plan 2024 Annual  
Report

## LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- - - Top of Perforated Interval
- Ground Surface Elevation
- Minimum Threshold
- Interim Milestones

## WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

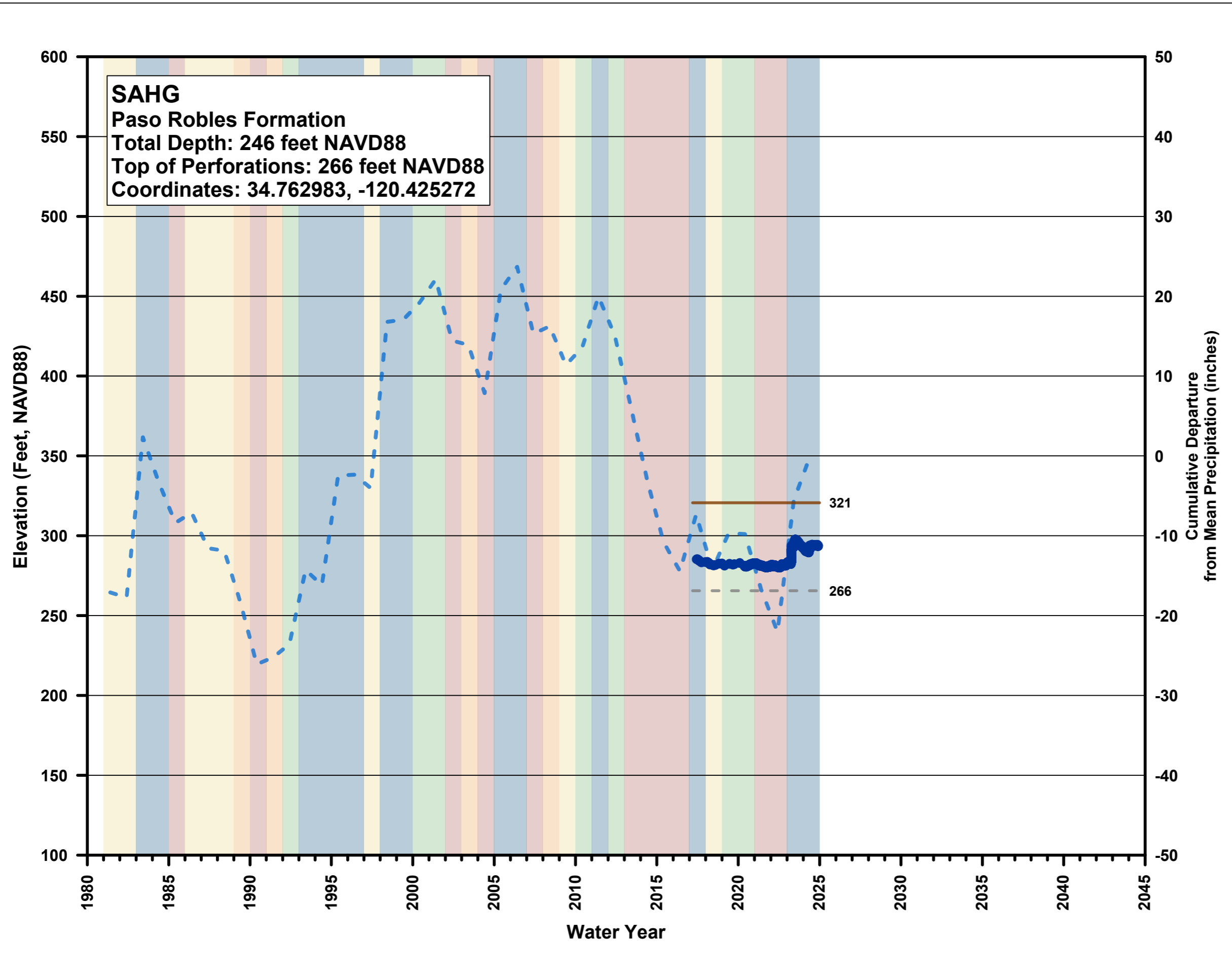
San Antonio Creek Valley  
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Sustainability Plan 2024 Annual  
Report

#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- - - Top of Perforated Interval
- Ground Surface Elevation

#### WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

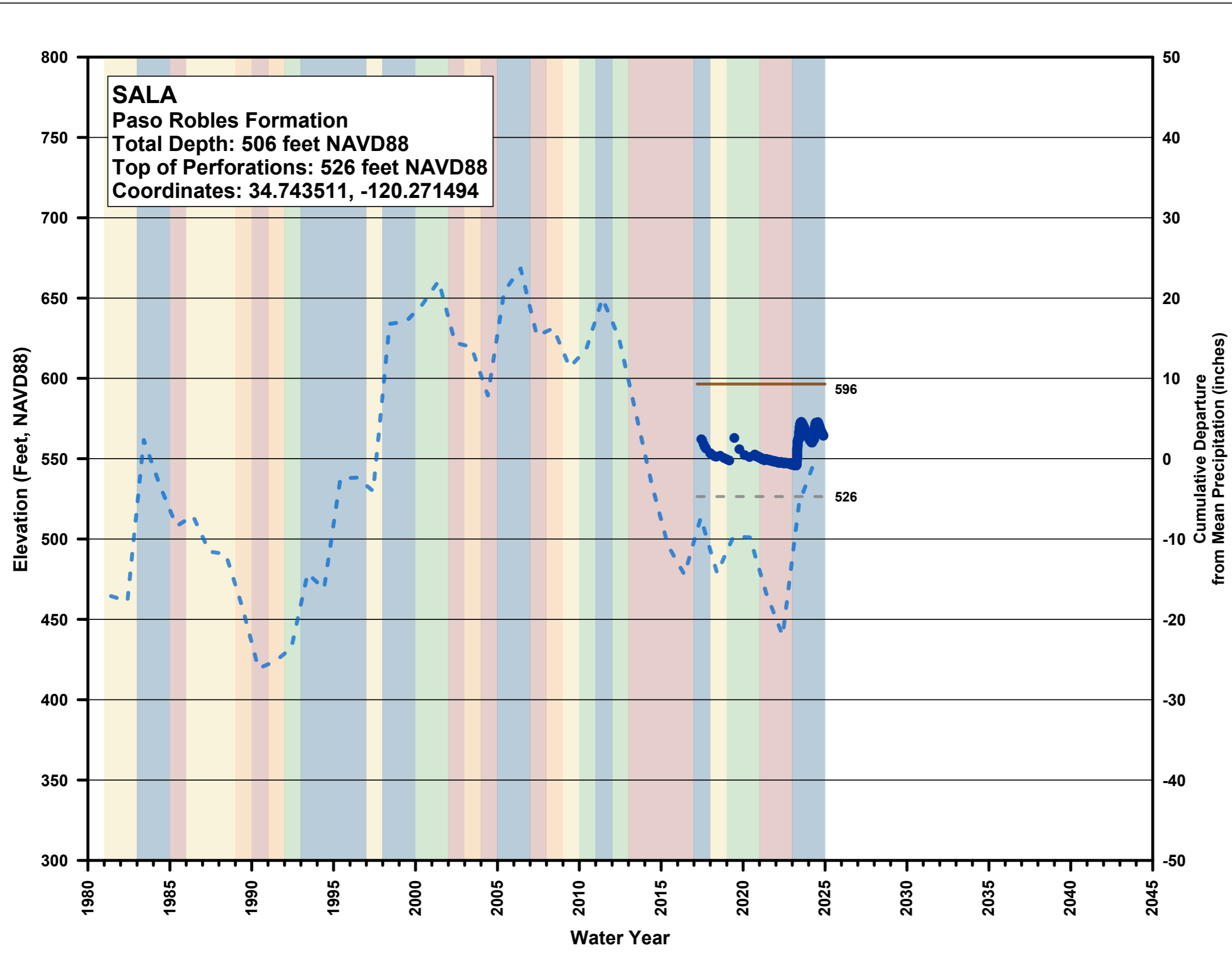
San Antonio Creek Valley  
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Sustainability Plan 2024 Annual  
Report

**LEGEND**

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- - - Top of Perforated Interval
- Ground Surface Elevation

**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



# Groundwater Elevation Hydrograph

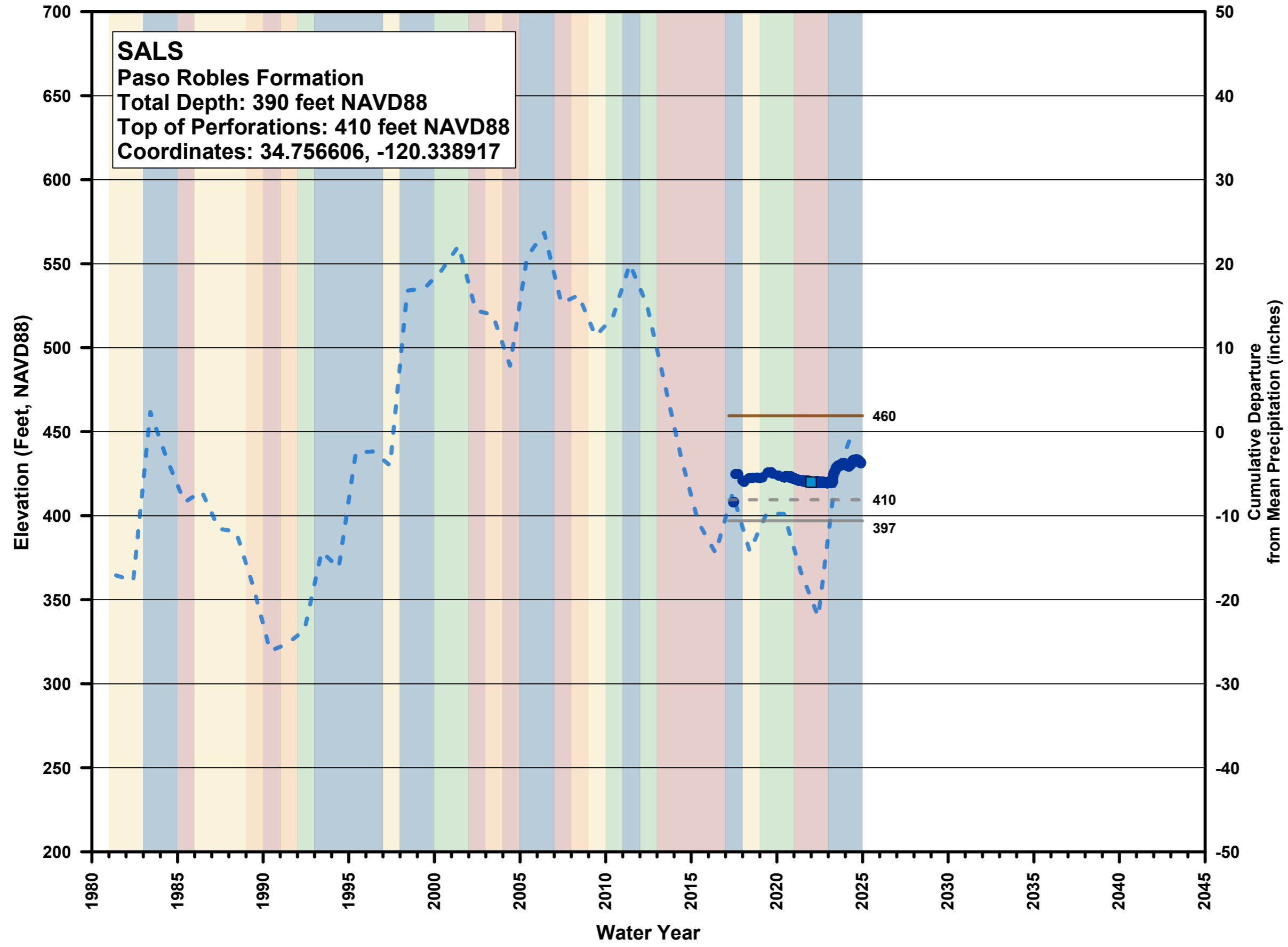
San Antonio Creek Valley  
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## LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- - - Top of Perforated Interval
- Ground Surface Elevation
- Minimum Threshold
- Interim Milestones

## WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

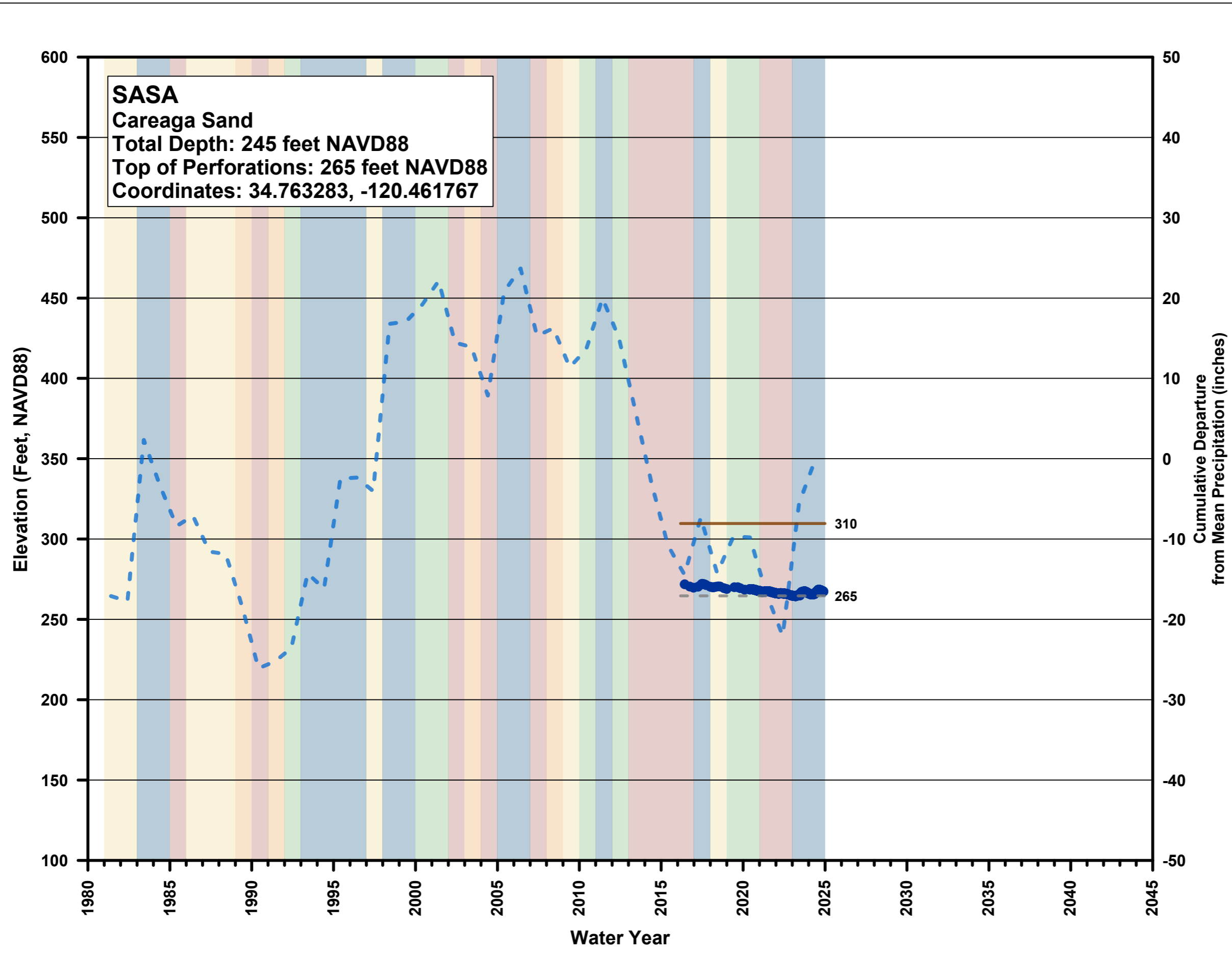
San Antonio Creek Valley  
Groundwater Basin Groundwater  
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Report

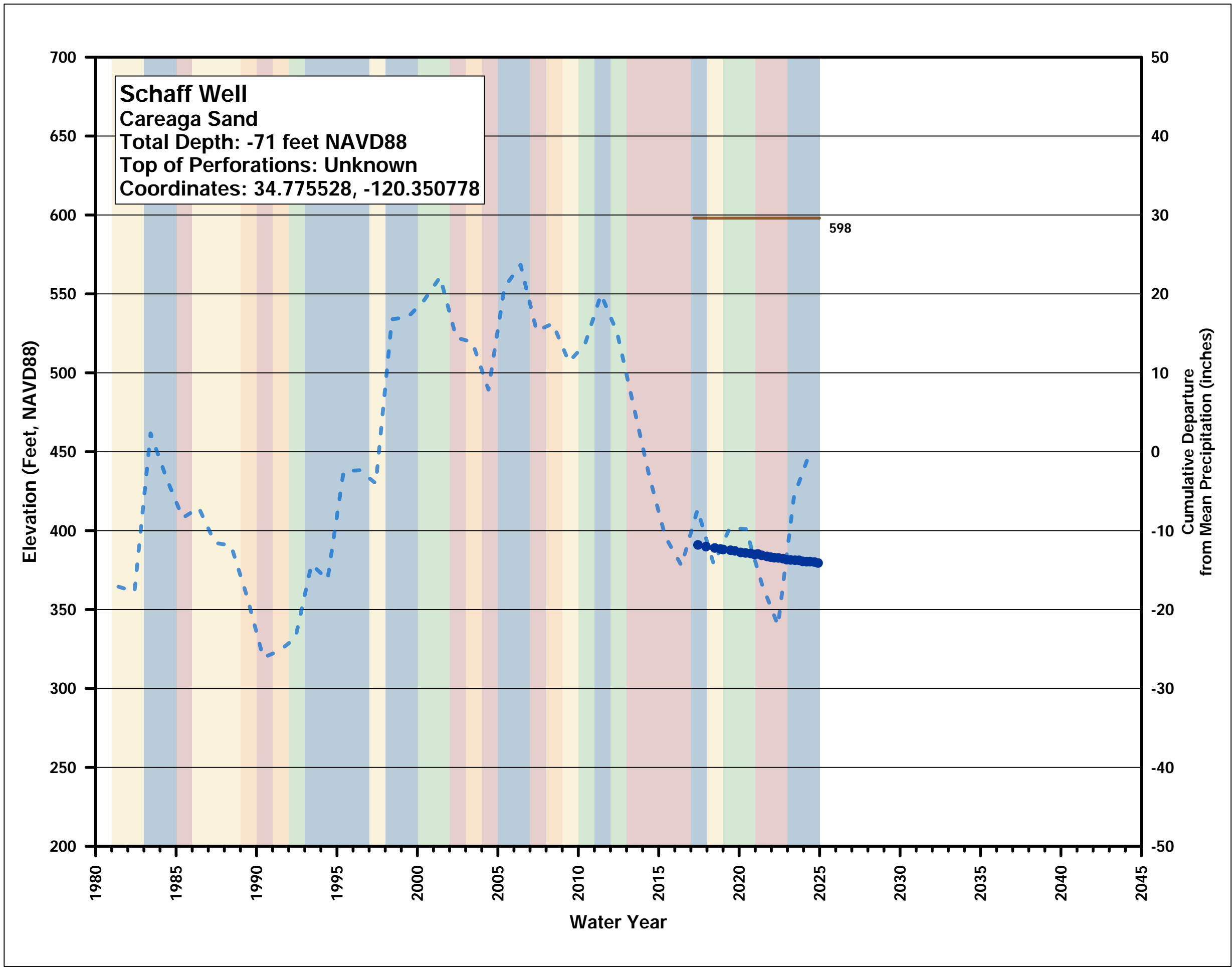
#### LEGEND

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- - - Top of Perforated Interval
- Ground Surface Elevation

#### WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical





### Groundwater Elevation Hydrograph


San Antonio Creek Valley  
 Groundwater Basin Groundwater  
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**LEGEND**

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

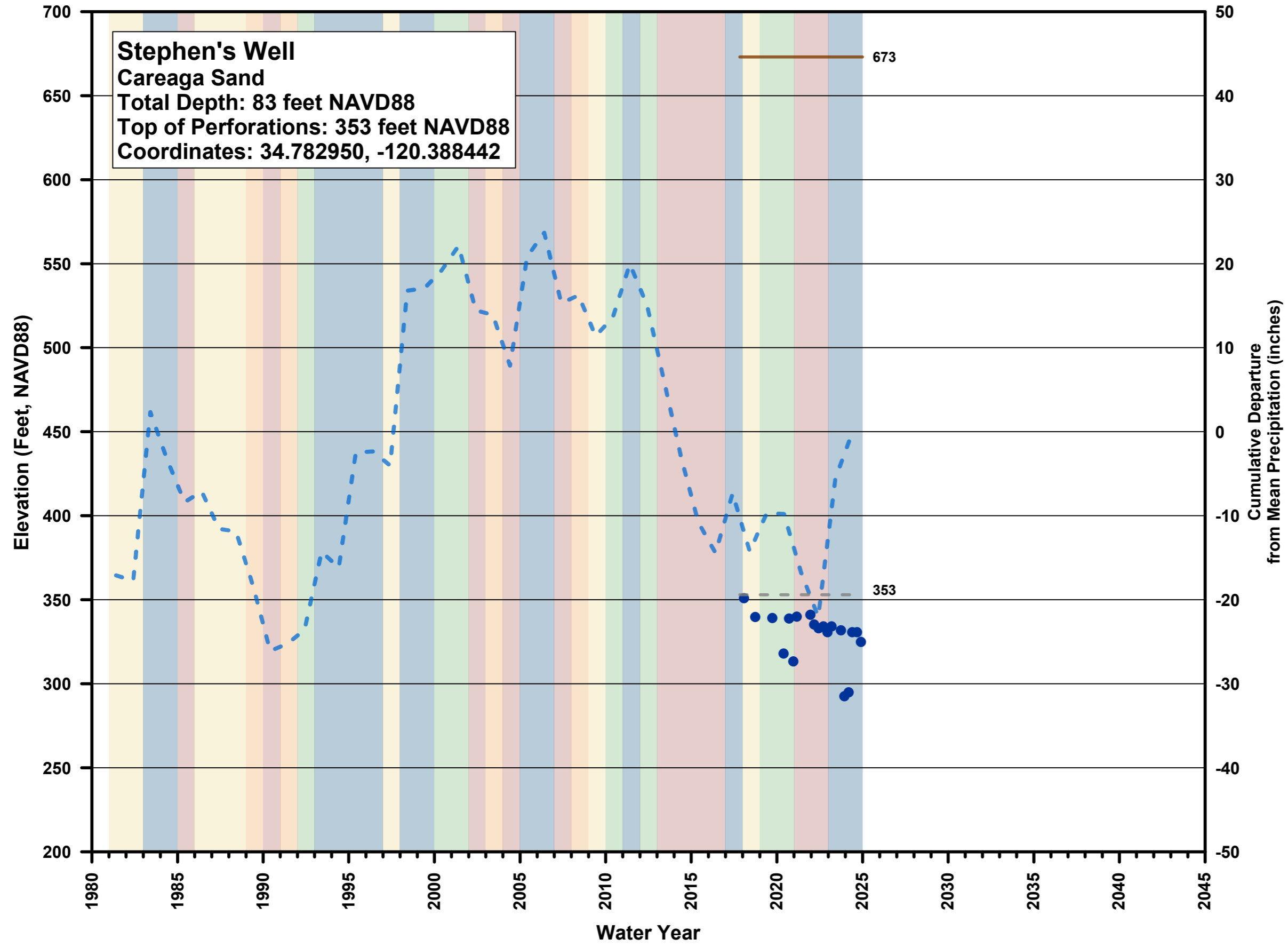
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report

#### LEGEND

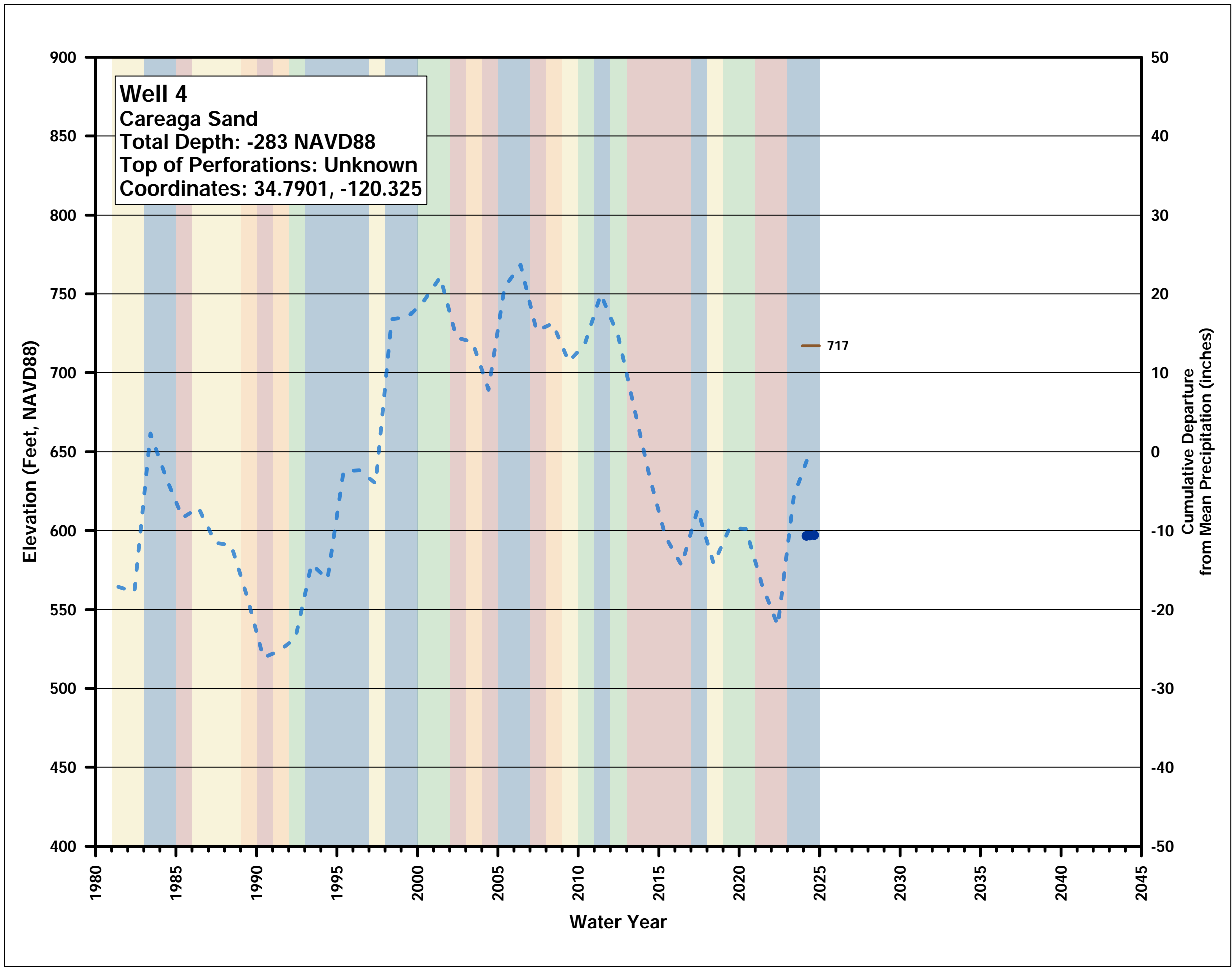
- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation
- - - Top of Perforated Interval

#### WATER YEAR TYPE

- Wet
- Above Normal
- Below Normal
- Dry
- Critical







### Groundwater Elevation Hydrograph


San Antonio Creek Valley  
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**LEGEND**

- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



### Groundwater Elevation Hydrograph

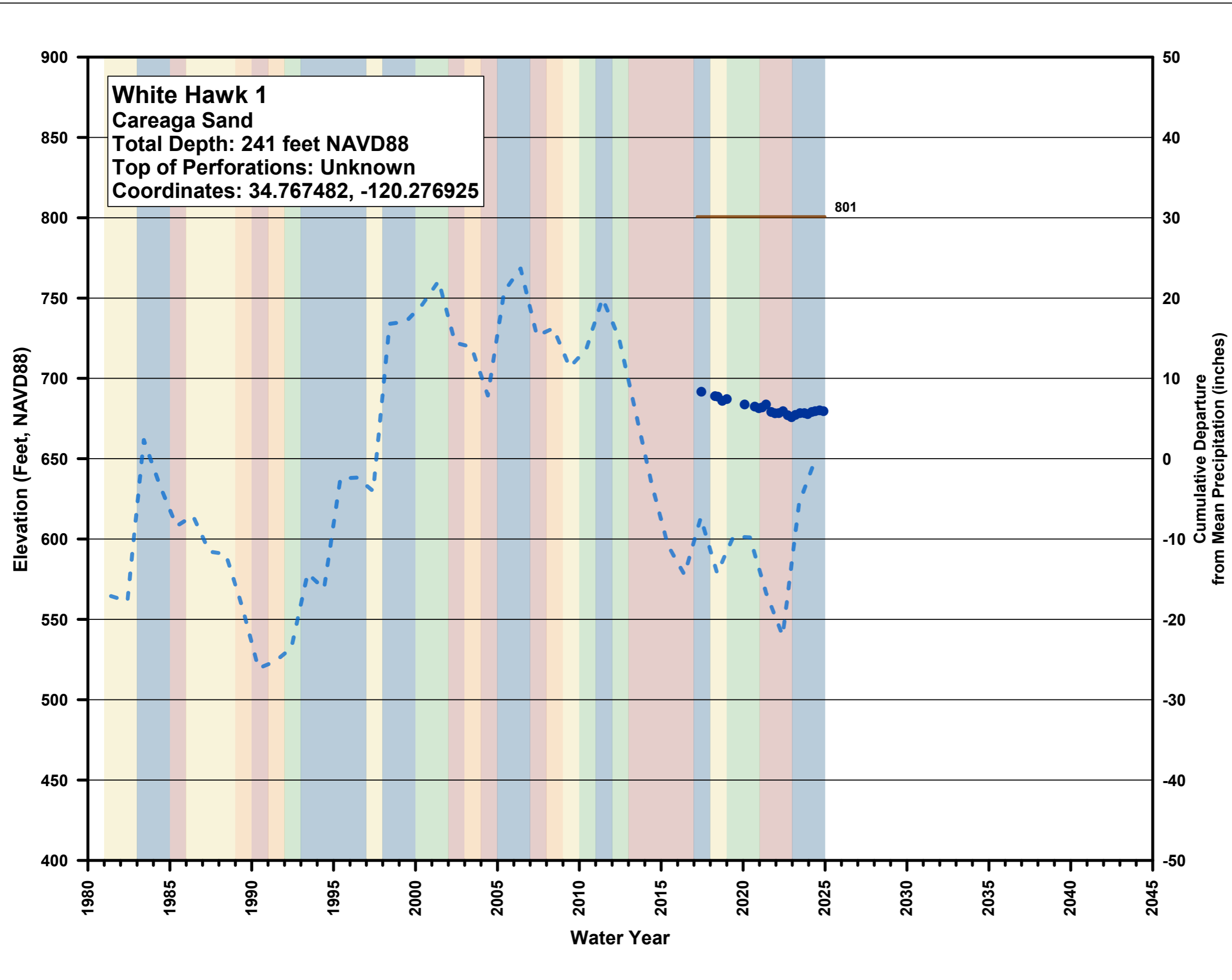
San Antonio Creek Valley  
Groundwater Basin Groundwater  
Sustainability Plan 2024 Annual  
Report

**LEGEND**

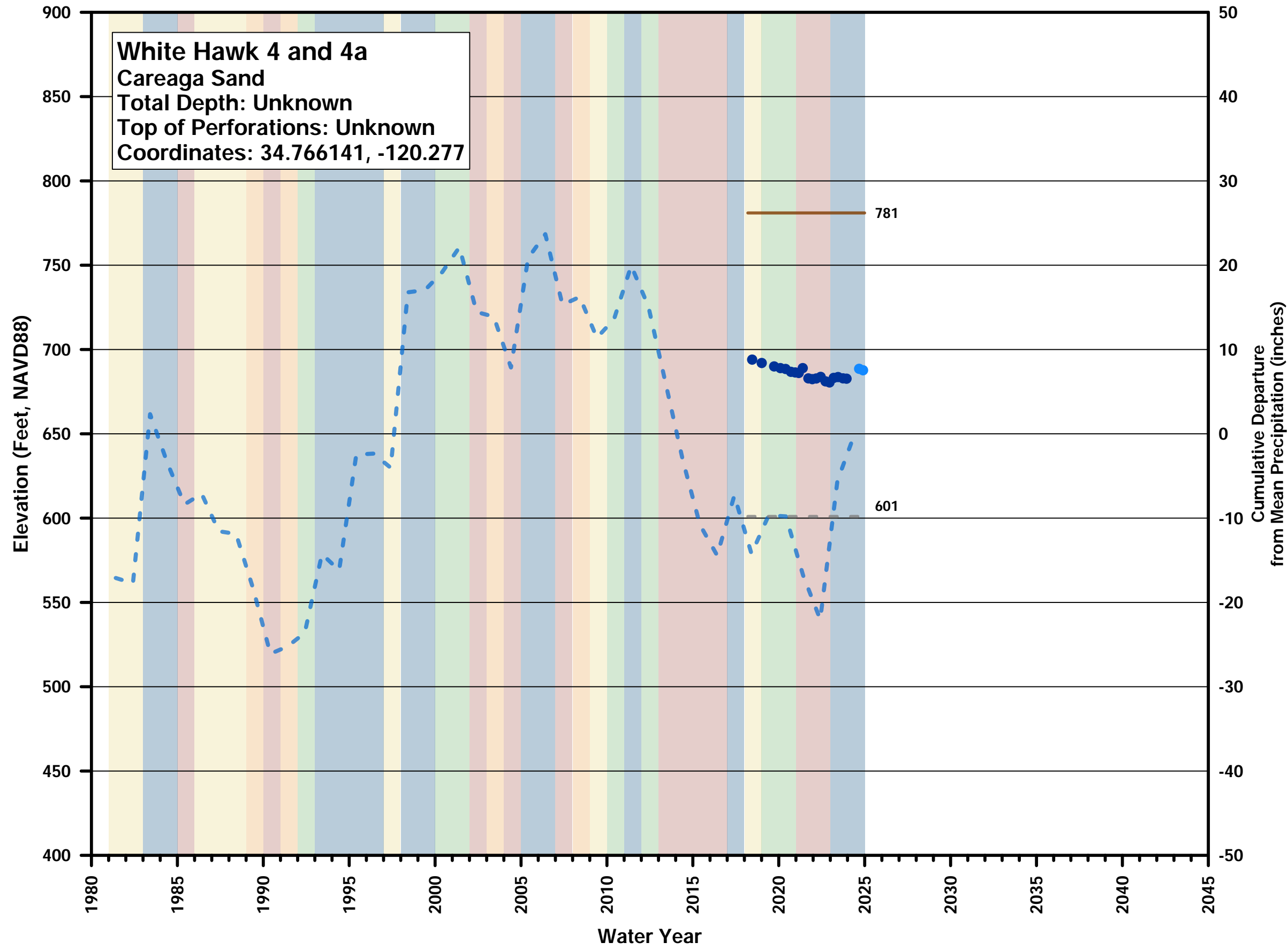
- Groundwater Elevation
- - - Cumulative Departure from Mean Precipitation
- Ground Surface Elevation

**WATER YEAR TYPE**

- Wet
- Above Normal
- Below Normal
- Dry
- Critical



**White Hawk 4 and 4a**  
**Careaga Sand**  
**Total Depth: Unknown**  
**Top of Perforations: Unknown**  
**Coordinates: 34.766141, -120.277**



**Groundwater Elevation Hydrograph**  
**San Antonio Creek Valley Groundwater Basin Groundwater Sustainability Plan 2024 Annual Report**

- LEGEND**
- Groundwater Elevation White Hawk 4
  - Groundwater Elevation White Hawk 4a
  - - - Cumulative Departure from Mean Precipitation
  - - - Top of Perforated Interval
  - Ground Surface Elevation
- WATER YEAR TYPE**
- Wet
  - Above Normal
  - Below Normal
  - Dry
  - Critical



## APPENDIX D

### Principal Aquifer Hydraulic Properties

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**Principal Aquifer Hydraulic Properties**

Well Name	Aquifer	Test Duration (hours)	Flow (gpm)	Drawdown (ft)	Well Depth (ft bgs)	Screened Interval (ft bgs)	Total Screened Interval (ft)	Specific Capacity (gpm/ft)	Transmissivity (ft <sup>2</sup> /day)	Hydraulic Conductivity (ft/day)
LACSD 3 <sup>1,4,5</sup>	Paso Robles Formation	—	330	57	—	—	—	6	1,604	—
LACSD 3a <sup>2,3</sup>		24	401	69	510	180–300 320–400 420–510	290	6	1,920	7
LACSD 4 <sup>4,5</sup>		—	323	79	535	230–530	300	4	1,093	4
LACSD 5 <sup>2,3</sup>		24	785	112	962	217–352 502–702 792–952	395	7	2,706	5
LACSD 6 <sup>4,5</sup>		—	624	96	959	196–296 338–700 823–959	598	6	1,738	3
4 - Deer (Ex Ag - 2) <sup>5,6</sup>	Careaga Sand	—	100	10	460	220–460	240	10	2,674	11
4 - Deer - (New Ag - 2) <sup>5,6</sup>		—	900	32	455	100–450	350	28	7,520	21
4 - Deer - (New Ag 3) <sup>5,6</sup>		—	750	46	455	100–480	380	16	4,359	11
4 - Deer Field (New Ag - 4) <sup>5,6</sup>		—	900	124	600	100–440	340	7	1,941	6
4 - Deer Highway (Ex Ag - 1) <sup>5,6</sup>		—	38	3	460	240–460	220	13	3,387	15
VSFB Well #4 <sup>5,7</sup>		2.3	956	54	334	162–219 234– 273 319–334	111	18	4,734	43
VSFB Well #7 <sup>5,7</sup>		3	1,200	37.85	410	200–210 220–230 270– 290 300–320 330–340 350– 360 370–390	190	32	8,477	45
VSFB Well #6 <sup>5,7</sup>		4	684	33.5	—	210–390	180	20	5,459	30
VSFB Well #5 <sup>5,7</sup>		3.1	768	46.5	400	200–390	110	17	4,416	40

**Notes**

- <sup>1</sup> LACSD 3 was taken offline in 2010 replaced with LACSD 3A.
- <sup>2</sup> Transmissivity and hydraulic conductivity were calculated using the modified Cooper-Jacob Nonequilibrium Equation (Driscoll, 1986)
- <sup>3</sup> Value for flow is an arithmetic mean of pumping rates during pump tests after well construction activities:
  - LACSD 3A: A & A Pump & Well Service, (2010). Constant Run 24hr+.
  - LACSD 5: Cleath & Associates, (2006). Well construction and testing report for St. Joseph Street Well #5, Los Alamos Community Services District, Santa Barbara County, December.
- <sup>4</sup> Specific capacity was calculated using mean production and water level data provided by the LACSD.
- <sup>5</sup> Hydraulic conductivity was calculated by using the following equation (Driscoll, 1986):
 
$$K = T / B$$
  - K = Hydraulic conductivity (feet per day)
  - T = Transmissivity (square feet per day)
  - B = Aquifer thickness or screened interval (feet)
 Transmissivity and specific capacity were calculated using the following formula (Driscoll, 1986):
 
$$T = [(Q/s) \times 2,000] / 7.48$$
  - T = Transmissivity, in gallons per day per foot (gpd/ft)
  - Q/s = Specific Capacity, in gallons per minute per foot (gpm/ft)
  - 2,000 = Constant for confined aquifers
  - 7.48 = Conversion from gallons per day per foot to square feet per day.

<sup>6</sup> From Katherman Exploration Co., LLC, 2009.

<sup>7</sup> Christian Mathews, Operations Manager, American Water, for Vandenberg Space Force Base, personal communication, Friday, June 18, 2021.

- = No value on record or uncalculated
- Ag = Agricultural well
- Ex = Existing
- ft = feet
- ft bgs = feet below ground surface
- ft/day = feet per day
- ft<sup>2</sup>/day = square feet per day
- gpd/ft = gallons per day per foot
- gpm = gallon per minute
- gpm/ft = gallons per minute per foot
- LACSD = Los Alamos Community Services District
- VSFB = Vandenberg Space Force Base

**Reference**

Driscoll, F. G. *Groundwater and Wells, Second Edition.* (St. Paul, Minnesota; Johnson Screens; 1986).

## APPENDIX E

Municipal Pumping Data

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**Los Alamos CSD Water Production In Million Gallons**

<b>1993</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	1,765,000	1,501,000	N/A	N/A	
<b>February</b>	1,360,000	2,250,000	N/A	N/A	
<b>March</b>	2,463,000	985,000	N/A	N/A	
<b>April</b>	2,559,000	2,591,000	N/A	N/A	
<b>May</b>	7,682,000	1,277,000	N/A	N/A	
<b>June</b>	10,077,000	40,000	N/A	N/A	
<b>July</b>	8,005,000	2,390,000	N/A	N/A	
<b>August</b>	8,686,000	362,000	N/A	N/A	
<b>September</b>	6,001,000	2,477,800	N/A	N/A	
<b>October</b>	4,200,000	3,362,000	N/A	N/A	
<b>November</b>	1,635,000	3,359,000	N/A	N/A	
<b>December</b>	343,000	3,129,200	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>54,776,000</b>	<b>23,724,000</b>	<b>N/A</b>	<b>N/A</b>	<b>78,500,000</b>
<hr/>					
<b>1994</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	5,000	4,100,000	N/A	N/A	
<b>February</b>	0	3,100,000	N/A	N/A	
<b>March</b>	3,100,000	1,000,000	N/A	N/A	
<b>April</b>	5,200,000	0	N/A	N/A	
<b>May</b>	6,000,000	0	N/A	N/A	
<b>June</b>	9,300,000	0	N/A	N/A	
<b>July</b>	10,168,000	32,000	N/A	N/A	
<b>August</b>	10,289,000	11,000	N/A	N/A	
<b>September</b>	7,988,000	212,000	N/A	N/A	
<b>October</b>	6,485,000	315,000	N/A	N/A	
<b>November</b>	4,796,000	204,000	N/A	N/A	
<b>December</b>	4,148,000	147,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>67,479,000</b>	<b>9,121,000</b>	<b>N/A</b>	<b>N/A</b>	<b>76,600,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>1995</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	3,719,000	81,000	N/A	N/A	
<b>February</b>	3,402,000	198,000	N/A	N/A	
<b>March</b>	3,442,000	458,000	N/A	N/A	
<b>April</b>	5,833,000	267,000	N/A	N/A	
<b>May</b>	7,100,000	0	N/A	N/A	
<b>June</b>	8,100,000	0	N/A	N/A	
<b>July</b>	10,900,000	0	N/A	N/A	
<b>August</b>	10,300,000	0	N/A	N/A	
<b>September</b>	9,365,000	135,000	N/A	N/A	
<b>October</b>	8,208,000	292,000	N/A	N/A	
<b>November</b>	2,944,000	3,856,000	N/A	N/A	
<b>December</b>	4,080,000	1,920,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>77,393,000</b>	<b>7,207,000</b>	<b>N/A</b>	<b>N/A</b>	<b>84,600,000</b>
<hr/>					
<b>1996</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	2,957,000	1,743,000	N/A	N/A	
<b>February</b>	2,757,000	843,000	N/A	N/A	
<b>March</b>	4,400,000	0	N/A	N/A	
<b>April</b>	3,495,000	2,805,000	N/A	N/A	
<b>May</b>	3,736,000	5,564,000	N/A	N/A	
<b>June</b>	7,908,000	2,792,000	N/A	N/A	
<b>July</b>	6,700,000	5,000,000	N/A	N/A	
<b>August</b>	6,520,000	4,880,000	N/A	N/A	
<b>September</b>	5,610,000	4,090,000	N/A	N/A	
<b>October</b>	5,050,000	4,050,000	N/A	N/A	
<b>November</b>	1,760,000	2,640,000	N/A	N/A	
<b>December</b>	2,520,000	1,280,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>53,413,000</b>	<b>35,687,000</b>	<b>N/A</b>	<b>N/A</b>	<b>89,100,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>1997</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	1,910,000	1,990,000	N/A	N/A	
<b>February</b>	2,543,000	1,857,000	N/A	N/A	
<b>March</b>	6,466,000	434,000	N/A	N/A	
<b>April</b>	4,700,000	4,100,000	N/A	N/A	
<b>May</b>	10,478,000	122,000	N/A	N/A	
<b>June</b>	3,100,000	7,100,000	N/A	N/A	
<b>July</b>	4,890,000	6,510,000	N/A	N/A	
<b>August</b>	2,890,000	8,210,000	N/A	N/A	
<b>September</b>	6,180,000	3,620,000	N/A	N/A	
<b>October</b>	6,150,000	3,050,000	N/A	N/A	
<b>November</b>	4,240,000	1,660,000	N/A	N/A	
<b>December</b>	2,900,000	1,200,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>56,447,000</b>	<b>39,853,000</b>	<b>N/A</b>	<b>N/A</b>	<b>96,300,000</b>
<hr/>					
<b>1998</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	3,800,000	0	N/A	N/A	
<b>February</b>	3,500,000	0	N/A	N/A	
<b>March</b>	3,800,000	700,000	N/A	N/A	
<b>April</b>	4,470,000	430,000	N/A	N/A	
<b>May</b>	3,310,000	2,290,000	N/A	N/A	
<b>June</b>	6,150,000	2,750,000	N/A	N/A	
<b>July</b>	9,300,000	3,100,000	N/A	N/A	
<b>August</b>	6,600,000	2,700,000	N/A	N/A	
<b>September</b>	8,500,000	4,200,000	N/A	N/A	
<b>October</b>	6,450,000	2,150,000	N/A	N/A	
<b>November</b>	4,800,000	1,000,000	N/A	N/A	
<b>December</b>	4,900,000	300,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>65,580,000</b>	<b>19,620,000</b>	<b>N/A</b>	<b>N/A</b>	<b>85,200,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>1999</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	3,700,000	2,000,000	N/A	N/A	
<b>February</b>	4,000,000	0	N/A	N/A	
<b>March</b>	4,800,000	900,000	N/A	N/A	
<b>April</b>	4,300,000	1,400,000	N/A	N/A	
<b>May</b>	9,800,000	400,000	N/A	N/A	
<b>June</b>	10,600,000	800,000	N/A	N/A	
<b>July</b>	9,500,000	3,600,000	N/A	N/A	
<b>August</b>	11,600,000	900,000	N/A	N/A	
<b>September</b>	11,200,000	200,000	N/A	N/A	
<b>October</b>	9,180,000	1,920,000	N/A	N/A	
<b>November</b>	6,600,000	0	N/A	N/A	
<b>December</b>	6,581,000	319,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>91,861,000</b>	<b>12,439,000</b>	<b>N/A</b>	<b>N/A</b>	<b>104,300,000</b>
<hr/>					
<b>2000</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	4,880,000	520,000	N/A	N/A	
<b>February</b>	3,600,000	300,000	N/A	N/A	
<b>March</b>	2,700,000	1,300,000	N/A	N/A	
<b>April</b>	6,700,000	500,000	N/A	N/A	
<b>May</b>	6,890,000	3,010,000	N/A	N/A	
<b>June</b>	6,700,000	5,400,000	N/A	N/A	
<b>July</b>	10,900,000	800,000	N/A	N/A	
<b>August</b>	9,290,000	3,510,000	N/A	N/A	
<b>September</b>	11,200,000	0	N/A	N/A	
<b>October</b>	7,760,000	140,000	N/A	N/A	
<b>November</b>	3,600,000	2,800,000	N/A	N/A	
<b>December</b>	1,600,000	4,900,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>75,820,000</b>	<b>23,180,000</b>	<b>N/A</b>	<b>N/A</b>	<b>99,000,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>2001</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	5,310,000	890,000	N/A	N/A	
<b>February</b>	3,000,000	1,000,000	N/A	N/A	
<b>March</b>	2,800,000	2,600,000	N/A	N/A	
<b>April</b>	1,400,000	5,000,000	N/A	N/A	
<b>May</b>	3,890,000	6,410,000	N/A	N/A	
<b>June</b>	12,000,000	1,500,000	N/A	N/A	
<b>July</b>	10,540,000	2,360,000	N/A	N/A	
<b>August</b>	7,260,000	4,740,000	N/A	N/A	
<b>September</b>	4,500,000	5,700,000	N/A	N/A	
<b>October</b>	7,600,000	1,200,000	N/A	N/A	
<b>November</b>	4,200,000	600,000	N/A	N/A	
<b>December</b>	1,700,000	2,400,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>64,200,000</b>	<b>34,400,000</b>	<b>N/A</b>	<b>N/A</b>	<b>98,600,000</b>
<hr/>					
<b>2002</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	3,970,000	430,000	N/A	N/A	
<b>February</b>	5,100,000	900,000	N/A	N/A	
<b>March</b>	5,300,000	2,000,000	N/A	N/A	
<b>April</b>	7,250,000	1,850,000	N/A	N/A	
<b>May</b>	9,090,000	2,110,000	N/A	N/A	
<b>June</b>	7,500,000	5,200,000	N/A	N/A	
<b>July</b>	9,250,000	5,950,000	N/A	N/A	
<b>August</b>	7,690,000	6,010,000	N/A	N/A	
<b>September</b>	400,000	11,900,000	N/A	N/A	
<b>October</b>	7,700,000	2,200,000	N/A	N/A	
<b>November</b>	1,910,000	3,890,000	N/A	N/A	
<b>December</b>	3,110,000	1,490,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>68,270,000</b>	<b>43,930,000</b>	<b>N/A</b>	<b>N/A</b>	<b>112,200,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>2003</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	2,350,000	2,550,000	N/A	N/A	
<b>February</b>	2,500,000	2,000,000	N/A	N/A	
<b>March</b>	2,400,000	3,500,000	N/A	N/A	
<b>April</b>	6,500,000	200,000	N/A	N/A	
<b>May</b>	6,770,000	2,530,000	N/A	N/A	
<b>June</b>	6,000,000	6,200,000	N/A	N/A	
<b>July</b>	5,380,000	9,420,000	N/A	N/A	
<b>August</b>	9,536,000	4,064,000	N/A	N/A	
<b>September</b>	2,714,000	9,186,000	N/A	N/A	
<b>October</b>	3,994,000	7,406,000	N/A	N/A	
<b>November</b>	4,093,000	1,807,000	N/A	N/A	
<b>December</b>	3,640,000	2,160,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>55,877,000</b>	<b>51,023,000</b>	<b>N/A</b>	<b>N/A</b>	<b>106,900,000</b>
<hr/>					
<b>2004</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	2,506,000	2,694,000	N/A	N/A	
<b>February</b>	1,292,000	4,108,000	N/A	N/A	
<b>March</b>	2,930,000	3,770,000	N/A	N/A	
<b>April</b>	5,370,000	5,330,000	N/A	N/A	
<b>May</b>	4,766,000	8,534,000	N/A	N/A	
<b>June</b>	5,480,000	8,120,000	N/A	N/A	
<b>July</b>	9,438,000	5,462,000	N/A	N/A	
<b>August</b>	7,830,000	6,870,000	N/A	N/A	
<b>September</b>	10,236,000	4,264,000	N/A	N/A	
<b>October</b>	4,480,000	4,220,000	N/A	N/A	
<b>November</b>	3,424,000	2,476,000	N/A	N/A	
<b>December</b>	2,155,000	4,145,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>59,907,000</b>	<b>59,993,000</b>	<b>N/A</b>	<b>N/A</b>	<b>119,900,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>2005</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	3,358,000	1,342,000	N/A	N/A	
<b>February</b>	2,626,000	1,874,000	N/A	N/A	
<b>March</b>	3,140,000	3,160,000	N/A	N/A	
<b>April</b>	2,563,000	5,137,000	N/A	N/A	
<b>May</b>	5,180,000	6,020,000	N/A	N/A	
<b>June</b>	7,050,000	6,348,000	N/A	N/A	
<b>July</b>	7,906,000	7,294,000	N/A	N/A	
<b>August</b>	7,274,000	8,126,000	N/A	N/A	
<b>September</b>	8,052,000	5,248,000	N/A	N/A	
<b>October</b>	5,400,000	5,800,000	N/A	N/A	
<b>November</b>	3,800,000	4,000,000	N/A	N/A	
<b>December</b>	2,580,000	4,722,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>58,929,000</b>	<b>59,071,000</b>	<b>N/A</b>	<b>N/A</b>	<b>118,000,000</b>
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<b>2006</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	0	5,573,000	N/A	N/A	
<b>February</b>	0	6,607,000	N/A	N/A	
<b>March</b>	0	4,720,000	N/A	N/A	
<b>April</b>	1,188,000	3,640,000	N/A	N/A	
<b>May</b>	750,000	8,908,000	N/A	N/A	
<b>June</b>	4,986,000	8,123,000	N/A	N/A	
<b>July</b>	6,879,000	8,724,000	N/A	N/A	
<b>August</b>	2,932,000	10,998,000	N/A	N/A	
<b>September</b>	2,719,000	9,933,000	N/A	N/A	
<b>October</b>	1,493,000	7,678,000	N/A	N/A	
<b>November</b>	1,837,000	6,997,000	N/A	N/A	
<b>December</b>	661,000	5,200,000	N/A	N/A	
			N/A	N/A	
<b>Total</b>	<b>23,445,000</b>	<b>87,101,000</b>	<b>N/A</b>	<b>N/A</b>	<b>110,546,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>2007</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	996,000	5,404,000	N/A	N/A	
<b>February</b>	841,000	4,359,000	N/A	N/A	
<b>March</b>	1,185,000	6,115,000	N/A	N/A	
<b>April</b>	1,754,000	7,346,000	N/A	N/A	
<b>May</b>	2,828,000	9,672,000	N/A	N/A	
<b>June</b>	2,949,000	10,951,000	Well #5 went on-line	N/A	
<b>July</b>	1,167,000	4,906,000	8,527,000	N/A	
<b>August</b>	407,000	642,000	12,551,000	N/A	
<b>September</b>	338,000	1,152,000	10,010,000	N/A	
<b>October</b>	468,000	44,000	9,088,000	N/A	
<b>November</b>	31,000	74,000	8,195,000	N/A	
<b>December</b>	196,000	1,476,000	4,128,000	N/A	
				N/A	
<b>Total</b>	13,160,000	52,141,000	52,499,000	N/A	<b>117,800,000</b>
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<b>2008</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	71,000	405,000	4,047,000	N/A	
<b>February</b>	20,000	252,000	4,076,000	N/A	
<b>March</b>	320,000	0	8,286,000	N/A	
<b>April</b>	948,000	0	10,439,000	N/A	
<b>May</b>	1,130,000	0	10,950,000	N/A	
<b>June</b>	1,048,000	0	11,607,000	N/A	
<b>July</b>	2,196,000	372,000	9,884,000	N/A	
<b>August</b>	1,831,000	4,199,000	7,562,000	N/A	
<b>September</b>	1,391,000	4,358,000	6,602,000	N/A	
<b>October</b>	3,670,000	4,462,000	3,479,000	N/A	
<b>November</b>	506,000	3,576,000	3,761,000	N/A	
<b>December</b>	679,000	1,848,000	2,425,000	N/A	
				N/A	
<b>Total</b>	13,810,000	19,472,000	83,118,000	N/A	<b>116,400,000</b>



**Los Alamos CSD Water Production In Million Gallons**

<b>2009</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	1,210,000	1,713,000	2,519,000	N/A	
<b>February</b>	743,000	1,649,000	1,926,000	N/A	
<b>March</b>	887,000	1,815,000	2,304,000	N/A	
<b>April</b>	1,057,000	1,900,000	6,612,000	N/A	
<b>May</b>	2,031,000	3,658,000	7,154,000	N/A	
<b>June</b>	1,706,000	2,817,000	7,830,000	N/A	
<b>July</b>	1,899,000	3,455,000	8,396,000	N/A	
<b>August</b>	1,795,000	3,222,000	8,856,000	N/A	
<b>September</b>	1,246,000	3,726,000	7,154,000	N/A	
<b>October</b>	875,000	2,961,000	4,795,000	N/A	
<b>November</b>	1,045,000	2,888,000	3,959,000	N/A	
<b>December</b>	725,000	1,906,000	2,608,000	N/A	
				N/A	
<b>Total</b>	15,219,000	31,710,000	64,113,000	N/A	<b>111,042,000</b>
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<b>2010</b>	<b>Well #3</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	660,000	1,766,000	2,255,000	N/A	
<b>February</b>	487,000	1,379,000	1,914,000	N/A	
<b>March</b>	0	2,116,000	3,460,000	N/A	
<b>April</b>	0	1,162,000	4,994,000	N/A	
<b>May</b>	0	3,628,000	5,514,000	N/A	
<b>June</b>	0	4,938,000	7,550,000	N/A	
<b>July</b>	0	4,608,000	7,630,000	N/A	
<b>August</b>	0	4,526,000	7,104,000	N/A	
<b>September</b>	0	5,613,000	5,132,000	N/A	
<b>October</b>	Well #3A on-line	2,674,000	5,328,000	N/A	
<b>November</b>	2,437,000	3,910,000	416,000	N/A	
<b>December</b>	1,327,000	3,030,000	1,117,000	N/A	
				N/A	
<b>Total</b>	4,911,000	39,350,000	52,414,000	N/A	<b>96,675,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>2011</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	96,000	1,818,000	3,381,000	N/A	
<b>February</b>	134,000	1,465,000	3,295,000	N/A	
<b>March</b>	2,040,000	635,000	2,312,000	N/A	
<b>April</b>	3,685,000	471,000	3,141,000	N/A	
<b>May</b>	5,360,000	1,694,000	3,343,000	N/A	
<b>June</b>	5,105,000	1,651,000	3,006,000	N/A	
<b>July</b>	5,882,000	1,812,000	4,026,000	N/A	
<b>August</b>	4,433,000	1,617,000	5,469,000	N/A	
<b>September</b>	3,743,000	1,535,000	4,937,000	N/A	
<b>October</b>	2,168,000	1,257,000	4,708,000	N/A	
<b>November</b>	1,906,000	981,000	3,038,000	N/A	
<b>December</b>	2,151,000	1,201,000	2,683,000	N/A	
				N/A	
<b>Total</b>	<b>36,703,000</b>	<b>16,137,000</b>	<b>43,339,000</b>	<b>N/A</b>	<b>96,179,000</b>
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<b>2012</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	2,114,000	1,167,000	2,654,000	N/A	
<b>February</b>	2,060,000	459,000	2,738,000	N/A	
<b>March</b>	2,278,000	999,000	3,033,000	N/A	
<b>April</b>	2,402,000	1,205,000	3,108,000	N/A	
<b>May</b>	3,943,000	1,681,000	4,793,000	N/A	
<b>June</b>	2,598,000	1,759,000	7,279,000	N/A	
<b>July</b>	4,228,000	1,606,000	6,476,000	N/A	
<b>August</b>	4,051,000	1,465,000	6,821,000	N/A	
<b>September</b>	3,778,000	1,402,000	6,235,000	N/A	
<b>October</b>	3,592,000	1,223,000	4,955,000	N/A	
<b>November</b>	2,510,000	800,000	3,344,000	N/A	
<b>December</b>	1,052,000	824,000	2,732,000	N/A	
				N/A	
<b>Total</b>	<b>34,606,000</b>	<b>14,590,000</b>	<b>54,168,000</b>	<b>N/A</b>	<b>103,364,000</b>

<b>Los Alamos CSD Water Production In Million Gallons</b>					
<b>2013</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	1,735,000	674,000	2,314,000	N/A	
<b>February</b>	1,724,000	679,000	2,326,000	N/A	
<b>March</b>	2,642,000	989,000	3,585,000	N/A	
<b>April</b>	3,318,000	917,000	4,439,000	N/A	
<b>May</b>	4,189,000	1,513,000	5,263,000	N/A	
<b>June</b>	4,526,000	1,514,000	5,865,000	N/A	
<b>July</b>	4,563,000	1,562,000	6,324,000	N/A	
<b>August</b>	4,546,000	436,000	6,548,000	N/A	
<b>September</b>	4,837,000	1,015,000	5,729,000	N/A	
<b>October</b>	3,613,000	1,462,000	5,129,000	N/A	
<b>November</b>	2,795,000	980,000	4,000,000	N/A	
<b>December</b>	2,389,000	837,000	2,951,000	N/A	
				N/A	
<b>Total</b>	<b>40,877,000</b>	<b>12,578,000</b>	<b>54,473,000</b>	<b>N/A</b>	<b>107,928,000</b>
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<b>2014</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	2,767,000	917,000	3,918,000	N/A	
<b>February</b>	377,000	1,162,000	3,850,000	N/A	
<b>March</b>	2,059,000	1,060,000	3,136,000	N/A	
<b>April</b>	2,505,000	2,025,000	3,048,000	N/A	
<b>May</b>	3,580,000	3,064,000	4,760,000	N/A	
<b>June</b>	3,314,000	3,018,000	4,402,000	N/A	
<b>July</b>	3,407,000	2,892,000	4,482,000	N/A	
<b>August</b>	3,798,000	1,644,000	5,100,000	N/A	
<b>September</b>	3,214,000	1,487,000	3,956,000	N/A	
<b>October</b>	2,965,000	1,737,000	3,664,000	N/A	
<b>November</b>	2,570,000	0	3,207,000	N/A	
<b>December</b>	1,453,000	735,000	2,264,000	N/A	
				N/A	
<b>Total</b>	<b>32,009,000</b>	<b>19,741,000</b>	<b>45,787,000</b>	<b>N/A</b>	<b>97,537,000</b>

**Los Alamos CSD Water Production In Million Gallons**

<b>2015</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	3,222,000	1,427,000	133,000	N/A	
<b>February</b>	2,708,000	420,000	1,292,000	N/A	
<b>March</b>	2,343,000	0	4,199,000	N/A	
<b>April</b>	2,602,000	1,151,000	3,163,000	N/A	
<b>May</b>	2,602,000	2,055,000	3,088,000	N/A	
<b>June</b>	2,477,000	2,149,000	3,229,000	N/A	
<b>July</b>	2,793,000	2,244,000	3,593,000	N/A	
<b>August</b>	3,173,000	2,429,000	2,878,000	N/A	
<b>September</b>	3,219,000	2,547,000	2,922,000	N/A	
<b>October</b>	2,940,000	2,320,000	2,650,000	N/A	
<b>November</b>	2,765,000	460,000	2,755,000	N/A	
<b>December</b>	1,926,000	710,000	2,601,000	N/A	
				N/A	
<b>Total</b>	<b>32,770,000</b>	<b>17,912,000</b>	<b>32,503,000</b>	<b>N/A</b>	<b>83,185,000</b>
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<b>2016</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	1,263,000	1,021,000	1,763,000	N/A	
<b>February</b>	1,267,000	1,029,000	1,873,000	N/A	
<b>March</b>	1,476,000	1,139,000	1,917,000	N/A	
<b>April</b>	1,591,000	1,530,000	2,814,000	N/A	
<b>May</b>	0	2,306,000	5,473,000	N/A	
<b>June</b>	1,655,000	2,120,000	4,974,000	N/A	
<b>July</b>	2,796,000	2,215,000	4,672,000	N/A	
<b>August</b>	2,667,000	2,048,000	4,497,000	N/A	
<b>September</b>	2,572,000	1,939,000	4,030,000	N/A	
<b>October</b>	2,130,000	1,754,000	3,304,000	N/A	
<b>November</b>	1,476,000	1,193,000	2,556,000	N/A	
<b>December</b>	1,137,000	911,000	1,985,000	N/A	
				N/A	
<b>Total</b>	<b>20,030,000</b>	<b>19,205,000</b>	<b>39,858,000</b>	<b>N/A</b>	<b>79,093,000</b>

<b>Los Alamos CSD Water Production In Million Gallons</b>					
<b>2017</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	984,000	810,000	1,771,000	N/A	
<b>February</b>	869,000	726,000	1,520,000	N/A	
<b>March</b>	1,256,000	1,015,000	2,072,000	N/A	
<b>April</b>	2,903,000	1,474,000	2,132,000	N/A	
<b>May</b>	2,373,000	1,942,000	4,325,000	N/A	
<b>June</b>	3,874,000	3,006,000	6,630,000	N/A	
<b>July</b>	3,206,000	2,856,000	4,361,000	N/A	
<b>August</b>	2,845,000	2,674,000	4,121,000	N/A	
<b>September</b>	2,394,000	2,181,000	4,130,000	N/A	
<b>October</b>	2,194,000	2,087,000	4,315,000	N/A	
<b>November</b>	1,856,000	1,654,000	3,324,000	N/A	
<b>December</b>	1,893,000	1,726,000	3,305,000	N/A	
				N/A	
<b>Total</b>	22,773,000	22,151,000	42,006,000	N/A	<b>86,930,000</b>
<hr/>					
<b>2018</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	1,484,000	1,168,000	2,658,000	N/A	
<b>February</b>	1,500,000	1,191,000	2,720,000	N/A	
<b>March</b>	1,215,000	970,000	2,232,000	N/A	
<b>April</b>	1,805,000	1,289,000	3,290,000	N/A	
<b>May</b>	2,309,000	1,863,000	3,881,000	N/A	
<b>June</b>	2,959,000	2,035,000	4,071,000	N/A	
<b>July</b>	3,166,000	2,316,000	5,288,000	N/A	
<b>August</b>	3,392,000	2,336,000	5,362,000	N/A	
<b>September</b>	2,593,000	2,030,000	4,679,000	N/A	
<b>October</b>	2,228,000	1,938,000	4,163,000	N/A	
<b>November</b>	1,778,000	1,574,000	3,401,000	N/A	
<b>December</b>	2,260,000	1,106,000	2,038,000	N/A	
				N/A	
<b>Total</b>	26,689,000	18,242,000	43,783,000	N/A	<b>88,714,000</b>

<b>Los Alamos CSD Water Production</b>					
<b>2019</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	1,170,000	953,000	2,129,000	N/A	4,252,000
<b>February</b>	1,093,000	1,055,000	1,815,000	N/A	3,963,000
<b>March</b>	1,631,000	1,363,000	1,558,000	N/A	4,552,000
<b>April</b>	2,448,000	2,084,000	2,330,000	N/A	6,862,000
<b>May</b>	2,681,000	2,288,000	2,818,000	N/A	7,787,000
<b>June</b>	2,868,000	2,025,000	4,118,000	N/A	9,011,000
<b>July</b>	3,039,000	142,000	6,010,000	N/A	9,191,000
<b>August</b>	2,441,000	2,460,000	5,318,000	N/A	10,219,000
<b>September</b>	2,324,000	2,090,000	5,117,000	N/A	9,531,000
<b>October</b>	2,085,000	1,942,000	4,436,000	N/A	8,463,000
<b>November</b>	1,757,000	1,314,000	3,647,000	N/A	6,718,000
<b>December</b>	1,019,000	828,000	2,399,000	379,000	4,625,000
<b>Total</b>	<b>24,556,000</b>	<b>18,544,000</b>	<b>41,695,000</b>	<b>379,000</b>	<b>85,174,000</b>
<b>2020</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	1,371,000	1,217,000	987,000	810,000	4,385,000
<b>February</b>	1,192,000	1,203,000	0	2,909,000	5,304,000
<b>March</b>	1,150,000	1,081,000	1,811,000	1,571,000	5,613,000
<b>April</b>	872,000	812,000	2,034,000	1,969,000	5,687,000
<b>May</b>	1,463,000	1,458,000	3,188,000	2,676,000	8,785,000
<b>June</b>	865,000	671,000	4,544,000	3,815,000	9,895,000
<b>July</b>	1,739,000	64,000	4,700,000	4,359,000	10,862,000
<b>August</b>	1,932,000	1,740,000	3,916,000	2,994,000	10,582,000
<b>September</b>	1,572,000	1,657,000	3,120,000	3,073,000	9,422,000
<b>October</b>	1,496,000	1,510,000	2,673,000	2,953,000	8,632,000
<b>November</b>	1,057,000	1,236,000	2,491,000	2,183,000	6,967,000
<b>December</b>	1,129,000	1,157,000	1,552,000	2,398,000	6,236,000
<b>Total</b>	<b>15,838,000</b>	<b>13,806,000</b>	<b>31,016,000</b>	<b>31,710,000</b>	<b>92,370,000</b>

<b>2021</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	938,000	1,001,000	1,209,000	2,063,000	5,211,000
<b>February</b>	875,000	951,000	1,101,000	1,930,000	4,857,000
<b>March</b>	1,077,000	1,209,000	1,522,000	2,484,000	6,292,000
<b>April</b>	1,653,000	971,000	1,828,000	3,585,000	8,037,000
<b>May</b>	2,066,000	747,000	2,081,000	4,196,000	9,090,000
<b>June</b>	1,714,000	1,874,000	2,528,000	3,706,000	9,822,000
<b>July</b>	1,805,000	1,845,000	2,984,000	3,422,000	10,056,000
<b>August</b>	1,721,000	1,954,000	2,743,000	3,664,000	10,082,000
<b>September</b>	1,957,000	2,104,000	2,619,000	3,140,000	9,820,000
<b>October</b>	1,516,000	1,652,000	1,772,000	3,206,000	8,146,000
<b>November</b>	1,313,000	1,474,000	1,452,000	2,549,000	6,788,000
<b>December</b>	1,055,00	1,124,000	961,000	2,054,000	5,194,000
<b>Total</b>					<b>93,395,000</b>
<b>2022</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	958,000	1,072,000	557,000	2,143,000	4,730,000
<b>February</b>	1,139,000	1,356,000	well off line	3,349,000	5,844,000
<b>March</b>	1,446,000	1,613,000	well off line	3,929,000	6,988,000
<b>April</b>	1,405,000	1,550,000	well off line	3,872,000	6,827,000
<b>May</b>	1,932,000	2,102,000	well off line	4,332,000	8,366,000
<b>June</b>	2,282,000	2,490,000	well off line	4,240,000	9,012,000
<b>July</b>	2,357,000	2,671,000	2,793,000	1,422,000	9,243,000
<b>August</b>	1,544,000	1,761,000	3,146,000	2,730,000	9,181,000
<b>September</b>	1,325,000	1,609,000	2,799,000	2,649,000	8,382,000
<b>October</b>	1,246,000	1,428,000	2,383,000	2,486,000	7,543,000
<b>November</b>	1,451,000	1,617,000	2,855,000	109,000	6,032,000
<b>December</b>	1,291,000	1,428,000	626,000	1,590,000	4,935,000
<b>Total</b>					<b>87,083,000</b>
<b>2023</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	

<b>January</b>	817,000	1,058,000	494,000	2,425,000	
<b>February</b>	843,000	834,000	1,094,000	1,889,000	
<b>March</b>	1,037,000	48,000	1,274,000	2,346,000	
<b>April</b>	1,448,000	0	1,683,000	3,334,000	
<b>May</b>	1,666,000	0	2,248,000	3,813,000	
<b>June</b>	1,461,000	0	2,505,000	3,498,000	
<b>July</b>	2,031,000	0	3,414,000	4,501,000	
<b>August</b>	1,933,000	0	3,530,000	4,792,000	
<b>September</b>	1,509,000	0	3,152,000	4,207,000	
<b>October</b>	1,643,000	0	3,247,000	4,559,000	
<b>November</b>	1,246,000	756,000	2,339,000	3,004,000	
<b>December</b>	961,000	1,283,000	1,500,000	1,970,000	
<b>Total</b>	16,595,000	3,979,000	26,480,000	40,338,000	87,392,000
<b>2024</b>	<b>Well #3A</b>	<b>Well #4</b>	<b>Well #5</b>	<b>Well #6</b>	
<b>January</b>	667,000	934,000	1,139,000	1,658,000	
<b>February</b>	600,000	818,000	1,060,000	1,490,000	
<b>March</b>	683,000	924,000	1,185,000	1,720,000	
<b>April</b>	796,000	1,089,000	1,328,000	1,847,000	
<b>May</b>	1,067,000	1,381,000	2,093,000	2,641,000	
<b>June</b>	1,510,000	1,918,000	3,169,000	3,484,000	
<b>July</b>	1,968,000	155,000	4,233,000	4,628,000	
<b>August</b>	1,502,000	1,970,000	3,243,000	3,568,000	
<b>September</b>	1,386,000	1,825,000	2,976,000	3,392,000	
<b>October</b>	1,388,000	1,838,000	2,666,000	2,760,000	
<b>November</b>	993,000	1,543,000	2,114,000	2,571,000	
<b>December</b>	877,000	1,142,000	1,677,000	1,836,000	
<b>Total</b>	13,437,000	15,537,000	26,883,000	31,595,000	87,452,000



VSFB San Antonio Well Production (AF)

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
JAN	148.4	2.0	48.2	0.0	201.4	157.3	0.0	0.0	1.7	5.9	16.2	30.1	217.1	148.7	0
FEB	123.6	0.0	0.0	0.0	128.5	123.9	0.0	0.0	4.1	5.6	13.3	0.0	221.3	156.1	0
MAR	178.7	0.0	0.0	0.0	156.2	161.0	0.0	0.0	1.2	6.5	9.1	0.0	222.3	163.2	0
APR	171.9	0.0	0.0	2.0	147.8	161.1	0.0	0.0	2.2	15.3	11.3	0.0	231.2	0.0	0
MAY	199.6	0.0	0.0	10.1	241.4	169.2	0.0	0.0	5.4	6.9	8.4	0.0	251.6	0.0	0
JUN	219.1	0.0	0.0	8.3	203.5	174.9	0.0	0.0	2.5	47.8	9.4	0.0	250.1	0.0	0
JUL	44.8	0.0	0.0	8.3	243.3	189.9	0.0	0.0	5.6	27.6	17.9	0.0	256.3	0.0	0
AUG	14.0	0.0	0.0	2.1	219.6	180.4	0.0	0.0	3.8	2.1	9.4	0.0	242.7	148.3	0
SEP	5.9	0.0	0.0	6.2	200.6	134.8	0.0	0.0	2.8	4.9	27.6	0.0	204.6	253.8	0
OCT	112.3	35.8	0.0	114.8	192.2	9.5	0.0	16.2	48.0	23.7	122.5	0.0	186.6	234.0	
NOV	128.9	123.7	135.8	179.6	193.6	89.4	0.0	115.1	116.0	129.7	238.8	256.3	179.9	181.1	
DEC	133.7	125.6	114.2	141.7	115.2	0.0	0.0	0.0	2.3	10.1	0.0	242.4	175.6	0.0	
Sub-Totals	1,481.0	287.1	298.1	473.1	2,243.4	1,551.4	0.0	131.2	195.5	286.1	483.9	528.8	2,639.2	1,285.3	0

Total: 11,884.1

Avg: 792.3

## APPENDIX F

Land Subsidence Data

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<b>Date</b>	<b>Vertical Displacement (ft)</b>	<b>Vertical Displacement 31-Day Ave (ft)</b>
1999-10-13 00:00:00	0	
1999-10-16 00:00:00	0.033	
1999-10-17 00:00:00	0.017	
1999-10-18 00:00:00	0.018	
1999-10-19 00:00:00	0.023	
1999-10-20 00:00:00	0.038	
1999-10-21 00:00:00	0.046	
1999-10-22 00:00:00	0.037	
1999-10-23 00:00:00	0.014	
1999-10-24 00:00:00	0.017	
1999-10-25 00:00:00	0.016	
1999-10-26 00:00:00	0.031	
1999-10-27 00:00:00	0.063	
1999-10-28 00:00:00	0.019	
1999-10-29 00:00:00	0.036	
1999-10-30 00:00:00	0.042	
1999-10-31 00:00:00	0.035	0.029
1999-11-01 00:00:00	0.027	0.029
1999-11-02 00:00:00	0.02	0.03
1999-11-03 00:00:00	0.029	0.03
1999-11-04 00:00:00	0.034	0.03
1999-11-05 00:00:00	0.027	0.029
1999-11-06 00:00:00	0.026	0.029
1999-11-07 00:00:00	0.042	0.029
1999-11-08 00:00:00	0.042	0.029
1999-11-09 00:00:00	0.019	0.029
1999-11-10 00:00:00	0.029	0.029
1999-11-11 00:00:00	0.017	0.029
1999-11-12 00:00:00	0.014	0.028
1999-11-13 00:00:00	0.033	0.027
1999-11-14 00:00:00	0.028	0.027
1999-11-15 00:00:00	0.028	0.026
1999-11-16 00:00:00	0.022	0.025
1999-11-17 00:00:00	0.043	0.026
1999-11-18 00:00:00	0.039	0.026
1999-11-19 00:00:00	0.022	0.026
1999-11-20 00:00:00	0.01	0.025
1999-11-21 00:00:00	0.043	0.025
1999-11-22 00:00:00	0.037	0.026
1999-11-23 00:00:00	0.005	0.025
1999-11-24 00:00:00	0.017	0.025
1999-11-25 00:00:00	0.023	0.025
1999-11-26 00:00:00	0.033	0.024
1999-11-27 00:00:00	0.021	0.024
1999-11-28 00:00:00	0.008	0.024
1999-11-29 00:00:00	0.028	0.024

1999-11-30 00:00:00	0	0.023
1999-12-01 00:00:00	0.024	0.023
1999-12-02 00:00:00	0.039	0.023
1999-12-03 00:00:00	0.034	0.022
1999-12-04 00:00:00	0.019	0.022
1999-12-05 00:00:00	0.015	0.022
1999-12-06 00:00:00	0.016	0.022
1999-12-07 00:00:00	0.042	0.022
1999-12-08 00:00:00	0.029	0.02
1999-12-09 00:00:00	0.031	0.021
1999-12-10 00:00:00	0.022	0.021
1999-12-11 00:00:00	0.003	0.02
1999-12-12 00:00:00	0.017	0.02
1999-12-13 00:00:00	0.016	0.019
1999-12-14 00:00:00	0.016	0.02
1999-12-15 00:00:00	0.025	0.02
1999-12-16 00:00:00	0.025	0.021
1999-12-17 00:00:00	0.006	0.021
1999-12-18 00:00:00	0.021	0.021
1999-12-19 00:00:00	0.03	0.02
1999-12-20 00:00:00	0.026	0.02
1999-12-21 00:00:00	0.023	0.021
1999-12-22 00:00:00	0.021	0.022
1999-12-23 00:00:00	-0.006	0.021
1999-12-24 00:00:00	0.016	0.021
1999-12-25 00:00:00	0.016	0.021
1999-12-26 00:00:00	0.013	0.021
1999-12-27 00:00:00	0.01	0.022
1999-12-28 00:00:00	0.015	0.022
1999-12-29 00:00:00	0.026	0.022
1999-12-30 00:00:00	0.026	0.022
1999-12-31 00:00:00	0.03	0.023
2000-01-01 00:00:00	0.022	0.023
2000-01-02 00:00:00	0.031	0.024
2000-01-03 00:00:00	0.026	0.024
2000-01-04 00:00:00	0.024	0.024
2000-01-05 00:00:00	0.047	0.024
2000-01-06 00:00:00	0.024	0.024
2000-01-07 00:00:00	0.01	0.025
2000-01-08 00:00:00	0.029	0.026
2000-01-09 00:00:00	0.032	0.027
2000-01-10 00:00:00	0.045	0.028
2000-01-11 00:00:00	0.032	0.028
2000-01-12 00:00:00	0.015	0.029
2000-01-13 00:00:00	0.014	0.03
2000-01-14 00:00:00	0.022	0.031
2000-01-15 00:00:00	0.042	0.031

2000-01-16 00:00:00	0.022	0.032
2000-01-17 00:00:00	0.025	0.032
2000-01-18 00:00:00	0.035	0.031
2000-01-19 00:00:00	0.019	0.032
2000-01-20 00:00:00	0.036	0.033
2000-01-21 00:00:00	0.036	0.032
2000-01-22 00:00:00	0.037	0.033
2000-01-23 00:00:00	0.033	0.033
2000-01-24 00:00:00	0.049	0.033
2000-01-25 00:00:00	0.028	0.034
2000-01-26 00:00:00	0.027	0.034
2000-01-27 00:00:00	0.045	0.033
2000-01-28 00:00:00	0.038	0.034
2000-01-29 00:00:00	0.047	0.035
2000-01-30 00:00:00	0.032	0.036
2000-01-31 00:00:00	0.054	0.036
2000-02-01 00:00:00	0.027	0.036
2000-02-02 00:00:00	0.018	0.036
2000-02-03 00:00:00	0.06	0.036
2000-02-04 00:00:00	0.047	0.036
2000-02-05 00:00:00	0.023	0.036
2000-02-06 00:00:00	0.04	0.035
2000-02-07 00:00:00	0.027	0.035
2000-02-08 00:00:00	0.028	0.034
2000-02-09 00:00:00	0.042	0.034
2000-02-10 00:00:00	0.044	0.034
2000-02-11 00:00:00	0.025	0.034
2000-02-12 00:00:00	0.021	0.033
2000-02-13 00:00:00	0.043	0.033
2000-02-14 00:00:00	0.055	0.032
2000-02-15 00:00:00	0.052	0.032
2000-02-16 00:00:00	0.031	0.03
2000-02-17 00:00:00	0.017	0.03
2000-02-18 00:00:00	0.031	0.029
2000-02-19 00:00:00	0.025	0.029
2000-02-20 00:00:00	0.032	0.028
2000-02-21 00:00:00	0.009	0.028
2000-02-22 00:00:00	0.033	0.028
2000-02-23 00:00:00	0.01	0.027
2000-02-24 00:00:00	0.032	0.026
2000-02-25 00:00:00	0.034	0.025
2000-02-26 00:00:00	0.029	0.024
2000-02-27 00:00:00	0.021	0.023
2000-02-28 00:00:00	0.02	0.023
2000-02-29 00:00:00	0.019	0.023
2000-03-01 00:00:00	0.03	0.022
2000-03-02 00:00:00	0.019	0.022

2000-03-03 00:00:00	0.007	0.021
2000-03-04 00:00:00	0.008	0.022
2000-03-05 00:00:00	0.042	0.022
2000-03-06 00:00:00	0.034	0.022
2000-03-07 00:00:00	0.009	0.022
2000-03-08 00:00:00	0.031	0.023
2000-03-09 00:00:00	0.006	0.023
2000-03-10 00:00:00	0	0.023
2000-03-11 00:00:00	-0.006	0.022
2000-03-12 00:00:00	0.01	0.023
2000-03-13 00:00:00	0.018	0.023
2000-03-14 00:00:00	0.011	0.024
2000-03-15 00:00:00	0.038	0.024
2000-03-16 00:00:00	0.027	0.023
2000-03-17 00:00:00	0.045	0.023
2000-03-18 00:00:00	0.012	
2000-03-19 00:00:00	0.04	
2000-03-20 00:00:00	0.048	
2000-03-21 00:00:00	0.028	
2000-03-22 00:00:00	0.02	
2000-03-23 00:00:00	0.033	
2000-03-24 00:00:00	0.024	
2000-03-25 00:00:00	0.027	
2000-03-26 00:00:00	0.011	
2000-03-27 00:00:00	0.042	
2000-03-28 00:00:00	0.038	
2000-03-29 00:00:00	0.043	
2000-03-30 00:00:00	0.028	
2000-03-31 00:00:00	-0.007	
2000-04-01 00:00:00	0.032	
2000-04-03 00:00:00	0.004	
2000-04-04 00:00:00	0.025	
2000-04-05 00:00:00	0.033	
2000-04-06 00:00:00	0.02	
2000-04-07 00:00:00	0.027	
2000-04-08 00:00:00	0.012	
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2000-04-11 00:00:00	0.017	
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2000-04-14 00:00:00	0.019	
2000-04-15 00:00:00	0.042	
2000-04-16 00:00:00	0.042	
2000-04-17 00:00:00	0.038	
2000-04-18 00:00:00	0.016	0.025
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2000-04-26 00:00:00	0.017	
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2000-04-29 00:00:00	0.031	
2000-04-30 00:00:00	0.02	
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2000-05-04 00:00:00	0.045	
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2000-05-06 00:00:00	0.034	
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2000-05-08 00:00:00	0.014	
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2000-05-14 00:00:00	0.043	
2000-05-15 00:00:00	0.049	
2000-05-16 00:00:00	0.034	
2000-05-17 00:00:00	0.023	
2000-05-18 00:00:00	0.03	
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2000-05-23 00:00:00	0.034	
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2000-06-04 00:00:00	0.033	0.035
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2000-06-10 00:00:00	0.023	0.035
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2000-06-13 00:00:00	0.038	0.033
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2000-06-15 00:00:00	0.033	0.034
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2000-07-04 00:00:00	0.028	
2000-07-05 00:00:00	0.029	
2000-07-06 00:00:00	0.038	
2000-07-07 00:00:00	0.016	
2000-07-08 00:00:00	0.013	
2000-07-09 00:00:00	0.028	
2000-07-10 00:00:00	0.033	
2000-07-11 00:00:00	0.044	
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2000-07-24 00:00:00	0.032	
2000-07-25 00:00:00	0.037	
2000-07-26 00:00:00	0.026	
2000-07-27 00:00:00	0.028	

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2000-07-29 00:00:00	0.032	
2000-07-30 00:00:00	0.012	
2000-07-31 00:00:00	0.028	
2000-08-01 00:00:00	0.027	
2000-08-02 00:00:00	0.018	0.022
2000-08-03 00:00:00	0.047	0.022
2000-08-04 00:00:00	0.01	0.022
2000-08-05 00:00:00	0.011	0.022
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2000-08-08 00:00:00	0.015	0.021
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2000-08-11 00:00:00	-0.001	0.02
2000-08-12 00:00:00	0.017	0.02
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2000-08-14 00:00:00	0.032	0.02
2000-08-15 00:00:00	0.033	0.02
2000-08-16 00:00:00	-0.016	0.02
2000-08-17 00:00:00	0.025	0.02
2000-08-18 00:00:00	0.017	0.02
2000-08-19 00:00:00	0.025	0.019
2000-08-20 00:00:00	0.011	0.019
2000-08-21 00:00:00	0.022	0.019
2000-08-22 00:00:00	0.011	0.02
2000-08-23 00:00:00	0.014	0.02
2000-08-24 00:00:00	0	0.02
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2000-08-27 00:00:00	0.02	0.021
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2000-09-02 00:00:00	0.021	0.024
2000-09-03 00:00:00	0.009	0.025
2000-09-04 00:00:00	0.021	0.025
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2000-09-06 00:00:00	0.035	0.028
2000-09-07 00:00:00	0.021	0.029
2000-09-08 00:00:00	0.012	0.03
2000-09-09 00:00:00	0.025	0.031
2000-09-10 00:00:00	0.031	0.03
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2000-09-21 00:00:00	0.063	0.034
2000-09-22 00:00:00	0.048	0.034
2000-09-23 00:00:00	0.04	0.034
2000-09-24 00:00:00	0.039	0.035
2000-09-25 00:00:00	0.023	0.035
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2000-09-27 00:00:00	0.046	0.035
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2000-09-29 00:00:00	0.037	0.033
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2000-10-02 00:00:00	0.034	0.033
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2000-10-16 00:00:00	0.021	0.028
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2000-10-19 00:00:00	0.015	0.026
2000-10-20 00:00:00	0.025	0.026
2000-10-21 00:00:00	0.051	0.026
2000-10-22 00:00:00	0.05	0.027
2000-10-23 00:00:00	0.025	0.027
2000-10-24 00:00:00	0.025	0.027
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2000-10-27 00:00:00	0.029	0.027
2000-10-28 00:00:00	0.027	0.027
2000-10-29 00:00:00	0.029	0.027

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2000-10-31 00:00:00	0.011	0.028
2000-11-01 00:00:00	0.025	0.028
2000-11-02 00:00:00	0.019	0.028
2000-11-03 00:00:00	0.026	0.029
2000-11-04 00:00:00	0.018	0.029
2000-11-05 00:00:00	0.036	0.029
2000-11-06 00:00:00	0.044	0.028
2000-11-07 00:00:00	0.033	0.027
2000-11-08 00:00:00	0.019	0.026
2000-11-09 00:00:00	0.043	0.026
2000-11-10 00:00:00	0.037	0.026
2000-11-11 00:00:00	0.028	0.026
2000-11-12 00:00:00	0.022	0.026
2000-11-13 00:00:00	0.026	0.026
2000-11-14 00:00:00	0.042	0.026
2000-11-15 00:00:00	0.032	0.026
2000-11-16 00:00:00	0.026	0.026
2000-11-17 00:00:00	0.028	0.026
2000-11-18 00:00:00	0.031	0.026
2000-11-19 00:00:00	0.021	0.026
2000-11-20 00:00:00	0.024	0.027
2000-11-21 00:00:00	0.018	0.026
2000-11-22 00:00:00	0.019	0.026
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2000-11-28 00:00:00	0.028	0.026
2000-11-29 00:00:00	0.018	0.026
2000-11-30 00:00:00	0.025	0.025
2000-12-01 00:00:00	0.025	0.024
2000-12-02 00:00:00	0.02	0.024
2000-12-03 00:00:00	0.021	0.024
2000-12-04 00:00:00	0.031	0.024
2000-12-05 00:00:00	0.041	0.024
2000-12-06 00:00:00	0.02	0.024
2000-12-07 00:00:00	0.023	0.025
2000-12-08 00:00:00	0.019	0.025
2000-12-09 00:00:00	0.022	0.025
2000-12-10 00:00:00	0.031	0.025
2000-12-11 00:00:00	0.029	0.026
2000-12-12 00:00:00	0.045	0.025
2000-12-13 00:00:00	0.047	0.025
2000-12-14 00:00:00	0.024	0.025
2000-12-15 00:00:00	0.015	0.026

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2000-12-17 00:00:00	0.01	0.026
2000-12-18 00:00:00	0.031	0.025
2000-12-19 00:00:00	0.022	0.026
2000-12-20 00:00:00	0.034	0.025
2000-12-21 00:00:00	0.03	0.025
2000-12-22 00:00:00	0.026	0.025
2000-12-23 00:00:00	0.021	0.025
2000-12-24 00:00:00	0.027	0.025
2000-12-25 00:00:00	0.03	0.025
2000-12-26 00:00:00	0.018	0.025
2000-12-27 00:00:00	0.019	0.024
2000-12-28 00:00:00	0.018	0.023
2000-12-29 00:00:00	0.032	0.022
2000-12-30 00:00:00	0.028	0.022
2000-12-31 00:00:00	0.025	0.022
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2001-01-02 00:00:00	0.017	0.023
2001-01-03 00:00:00	0.023	0.022
2001-01-04 00:00:00	0.018	0.022
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2001-01-06 00:00:00	0.028	0.019
2001-01-07 00:00:00	0.021	0.019
2001-01-08 00:00:00	0.003	0.018
2001-01-09 00:00:00	0.032	0.018
2001-01-10 00:00:00	0.018	0.018
2001-01-11 00:00:00	0.006	0.017
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2001-01-13 00:00:00	0.015	0.017
2001-01-14 00:00:00	0.013	0.016
2001-01-15 00:00:00	0.024	0.016
2001-01-16 00:00:00	0.012	0.015
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2001-01-19 00:00:00	0.013	0.013
2001-01-20 00:00:00	-0.001	0.013
2001-01-21 00:00:00	-0.01	0.012
2001-01-22 00:00:00	0.005	0.011
2001-01-23 00:00:00	0.005	0.011
2001-01-24 00:00:00	0.018	0.011
2001-01-25 00:00:00	0.021	0.011
2001-01-26 00:00:00	-0.002	0.011
2001-01-27 00:00:00	0.02	0.011
2001-01-28 00:00:00	0.009	0.011
2001-01-29 00:00:00	0.007	0.011
2001-01-30 00:00:00	0.013	0.011
2001-01-31 00:00:00	-0.001	0.01

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2001-02-02 00:00:00	0	0.009
2001-02-03 00:00:00	0.015	0.009
2001-02-04 00:00:00	-0.009	0.009
2001-02-05 00:00:00	0.005	0.009
2001-02-06 00:00:00	0.004	0.009
2001-02-07 00:00:00	0.021	0.009
2001-02-08 00:00:00	0.02	0.01
2001-02-09 00:00:00	0.025	0.009
2001-02-10 00:00:00	0.015	0.01
2001-02-11 00:00:00	0.005	0.01
2001-02-12 00:00:00	0.018	0.011
2001-02-13 00:00:00	0.031	0.011
2001-02-14 00:00:00	0.007	0.012
2001-02-15 00:00:00	0.005	0.013
2001-02-16 00:00:00	0.002	0.014
2001-02-17 00:00:00	-0.004	0.015
2001-02-18 00:00:00	0.018	0.016
2001-02-19 00:00:00	0.009	0.017
2001-02-20 00:00:00	-0.004	0.017
2001-02-21 00:00:00	-0.002	0.018
2001-02-22 00:00:00	0.007	0.019
2001-02-23 00:00:00	0.02	0.019
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2001-02-27 00:00:00	0.025	0.019
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2001-03-05 00:00:00	0.034	0.022
2001-03-06 00:00:00	0.032	0.022
2001-03-07 00:00:00	0.012	0.022
2001-03-08 00:00:00	0.026	0.023
2001-03-09 00:00:00	0.031	0.024
2001-03-10 00:00:00	0.022	0.025
2001-03-11 00:00:00	0.022	0.025
2001-03-12 00:00:00	0.02	0.025
2001-03-13 00:00:00	0.008	0.025
2001-03-14 00:00:00	0.02	0.026
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2001-03-16 00:00:00	0.042	0.027
2001-03-17 00:00:00	0.014	0.025
2001-03-18 00:00:00	0.029	0.025
2001-03-19 00:00:00	0.005	0.024

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2001-03-21 00:00:00	0.026	0.023
2001-03-22 00:00:00	0.023	0.024
2001-03-23 00:00:00	0.021	0.024
2001-03-24 00:00:00	0.025	0.024
2001-03-25 00:00:00	0.029	0.024
2001-03-26 00:00:00	0.026	0.024
2001-03-27 00:00:00	0.011	0.024
2001-03-28 00:00:00	0.026	0.024
2001-03-29 00:00:00	0.065	0.024
2001-03-30 00:00:00	0.028	0.023
2001-03-31 00:00:00	0.025	0.024
2001-04-01 00:00:00	0.004	0.023
2001-04-02 00:00:00	0.027	0.024
2001-04-03 00:00:00	0.032	0.023
2001-04-04 00:00:00	0.009	0.024
2001-04-05 00:00:00	0.023	0.024
2001-04-06 00:00:00	0.038	0.023
2001-04-07 00:00:00	0.03	0.022
2001-04-08 00:00:00	0.023	0.022
2001-04-09 00:00:00	0.032	0.022
2001-04-10 00:00:00	0.026	0.022
2001-04-11 00:00:00	0.014	0.022
2001-04-12 00:00:00	0.018	0.022
2001-04-13 00:00:00	0.001	0.022
2001-04-14 00:00:00	0.013	0.02
2001-04-15 00:00:00	0.04	0.021
2001-04-16 00:00:00	0.019	0.021
2001-04-17 00:00:00	0.022	0.021
2001-04-18 00:00:00	0.023	0.021
2001-04-19 00:00:00	0.026	0.02
2001-04-20 00:00:00	0.004	0.021
2001-04-21 00:00:00	0.024	0.021
2001-04-22 00:00:00	-0.016	0.02
2001-04-23 00:00:00	0.016	0.02
2001-04-24 00:00:00	0.018	0.02
2001-04-25 00:00:00	0.036	0.019
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2001-04-27 00:00:00	0.011	0.019
2001-04-28 00:00:00	0.034	0.02
2001-04-29 00:00:00	0.016	0.021
2001-04-30 00:00:00	0.042	0.022
2001-05-01 00:00:00	0.021	0.022
2001-05-02 00:00:00	0.02	0.022
2001-05-03 00:00:00	0.014	0.022
2001-05-04 00:00:00	0.011	0.022
2001-05-05 00:00:00	0.03	0.022

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2001-05-07 00:00:00	0.008	0.022
2001-05-08 00:00:00	0.022	0.024
2001-05-09 00:00:00	0.023	0.024
2001-05-10 00:00:00	0.004	0.024
2001-05-11 00:00:00	0.03	0.024
2001-05-12 00:00:00	0.017	0.024
2001-05-13 00:00:00	0.038	0.025
2001-05-14 00:00:00	0.039	0.025
2001-05-15 00:00:00	0.036	0.025
2001-05-16 00:00:00	0.05	0.024
2001-05-17 00:00:00	0.031	0.024
2001-05-18 00:00:00	0.015	0.025
2001-05-19 00:00:00	0.023	0.026
2001-05-20 00:00:00	0.019	0.026
2001-05-21 00:00:00	0.019	0.026
2001-05-22 00:00:00	0.02	0.026
2001-05-23 00:00:00	0.027	0.026
2001-05-24 00:00:00	0.023	0.027
2001-05-25 00:00:00	0.031	0.027
2001-05-26 00:00:00	0.028	0.027
2001-05-27 00:00:00	0.028	0.027
2001-05-28 00:00:00	0.036	0.028
2001-05-29 00:00:00	0.031	0.028
2001-05-30 00:00:00	0.019	0.028
2001-05-31 00:00:00	0.011	0.027
2001-06-01 00:00:00	0.03	0.026
2001-06-02 00:00:00	0.042	0.026
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2001-06-05 00:00:00	0.021	0.026
2001-06-06 00:00:00	0.033	0.026
2001-06-07 00:00:00	0.016	0.026
2001-06-08 00:00:00	0.038	0.026
2001-06-09 00:00:00	0.021	0.026
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2001-06-11 00:00:00	0.017	0.025
2001-06-12 00:00:00	0.048	0.024
2001-06-13 00:00:00	0.048	0.023
2001-06-14 00:00:00	0.018	0.023
2001-06-15 00:00:00	0.028	0.022
2001-06-16 00:00:00	0.018	0.022
2001-06-17 00:00:00	0.018	0.022
2001-06-18 00:00:00	0.017	0.021
2001-06-19 00:00:00	0.026	0.021
2001-06-20 00:00:00	0.027	0.02
2001-06-21 00:00:00	0	0.02



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2001-06-24 00:00:00	0.015	0.019
2001-06-25 00:00:00	0.02	0.018
2001-06-26 00:00:00	0.017	0.018
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2001-06-28 00:00:00	0.007	0.016
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2001-07-02 00:00:00	0.024	0.015
2001-07-03 00:00:00	0.02	0.015
2001-07-04 00:00:00	0.003	0.015
2001-07-05 00:00:00	0.006	0.015
2001-07-06 00:00:00	0.019	0.014
2001-07-07 00:00:00	0.022	0.015
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2001-07-10 00:00:00	0.009	0.014
2001-07-11 00:00:00	0.015	0.014
2001-07-12 00:00:00	0.01	0.014
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2001-07-18 00:00:00	0.017	0.013
2001-07-19 00:00:00	0.017	0.014
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2001-08-02 00:00:00	-0.023	0.013
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2001-08-06 00:00:00	0.014	0.013
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2001-08-09 00:00:00	0.002	0.015
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2001-08-11 00:00:00	0.017	0.015
2001-08-12 00:00:00	0.012	0.015
2001-08-13 00:00:00	-0.02	0.015
2001-08-14 00:00:00	0.007	0.016
2001-08-15 00:00:00	0.018	0.016
2001-08-16 00:00:00	0.023	0.015
2001-08-17 00:00:00	0.025	0.015
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2001-09-11 00:00:00	0	0.018
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2001-09-28 00:00:00	0.008	0.018
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2001-09-30 00:00:00	0.009	0.018
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2001-10-02 00:00:00	0.021	0.017
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2001-10-21 00:00:00	0.027	0.014
2001-10-22 00:00:00	0.013	0.014
2001-10-23 00:00:00	0.024	0.014
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2001-10-25 00:00:00	0.008	0.014
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2001-10-27 00:00:00	0.015	0.016
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2001-11-07 00:00:00	0.013	0.017
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2001-11-21 00:00:00	0.03	0.014
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2001-12-07 00:00:00	0.007	0.008
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2001-12-13 00:00:00	0.01	0.006
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2002-02-11 00:00:00	0.012	0.018
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2002-02-15 00:00:00	0.02	0.019
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2002-02-17 00:00:00	0.009	0.02
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2002-03-04 00:00:00	0.03	0.02
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2002-04-02 00:00:00	0.012	
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2002-04-19 00:00:00	0.014	0.018
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2002-05-02 00:00:00	0.012	0.014
2002-05-03 00:00:00	0.023	0.013
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2002-05-06 00:00:00	0.009	0.013
2002-05-07 00:00:00	0.009	0.013
2002-05-08 00:00:00	0.008	0.012
2002-05-09 00:00:00	0.008	0.012
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2002-05-11 00:00:00	0.016	0.014
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2002-05-14 00:00:00	0.019	0.014
2002-05-15 00:00:00	0.025	0.014
2002-05-16 00:00:00	0.023	0.015
2002-05-17 00:00:00	0.013	0.015
2002-05-18 00:00:00	0.006	0.016
2002-05-19 00:00:00	0.007	0.016
2002-05-20 00:00:00	0.019	0.016
2002-05-21 00:00:00	0.001	0.016
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2002-05-23 00:00:00	0.006	0.016
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2002-05-26 00:00:00	0.033	0.017
2002-05-27 00:00:00	0.029	0.017
2002-05-28 00:00:00	0.029	0.018
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2002-06-07 00:00:00	0.013	0.019

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2002-06-09 00:00:00	0.029	0.019
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2002-06-11 00:00:00	0.019	0.019
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2002-06-16 00:00:00	0.015	0.017
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2002-06-21 00:00:00	0.012	0.013
2002-06-22 00:00:00	0.003	0.013
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2002-06-24 00:00:00	0.015	0.013
2002-06-25 00:00:00	0.033	0.012
2002-06-26 00:00:00	0.003	0.011
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2002-06-28 00:00:00	0.018	0.01
2002-06-29 00:00:00	0.015	0.01
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2002-07-02 00:00:00	0.008	0.008
2002-07-03 00:00:00	-0.002	0.007
2002-07-04 00:00:00	-0.004	0.007
2002-07-05 00:00:00	0.02	0.005
2002-07-06 00:00:00	-0.013	0.004
2002-07-07 00:00:00	0.016	0.004
2002-07-08 00:00:00	0.005	0.004
2002-07-09 00:00:00	0.009	0.003
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2002-07-18 00:00:00	-0.003	-0.001
2002-07-19 00:00:00	0.005	-0.002
2002-07-20 00:00:00	-0.015	-0.001
2002-07-21 00:00:00	-0.013	-0.002
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2002-07-23 00:00:00	-0.005	-0.003
2002-07-24 00:00:00	-0.017	-0.003



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2002-08-01 00:00:00	-0.004	-0.001
2002-08-02 00:00:00	-0.006	-0.001
2002-08-03 00:00:00	-0.005	0
2002-08-04 00:00:00	0.008	0
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2002-08-06 00:00:00	-0.01	0.002
2002-08-07 00:00:00	-0.022	0.002
2002-08-08 00:00:00	-0.007	0.003
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2002-08-10 00:00:00	0.017	0.004
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2002-08-13 00:00:00	-0.004	0.005
2002-08-14 00:00:00	0	0.005
2002-08-15 00:00:00	-0.006	0.005
2002-08-16 00:00:00	-0.002	0.005
2002-08-17 00:00:00	0.014	0.005
2002-08-18 00:00:00	0.007	0.006
2002-08-19 00:00:00	0.011	0.007
2002-08-20 00:00:00	0.019	0.006
2002-08-21 00:00:00	0.015	0.007
2002-08-22 00:00:00	0.01	0.007
2002-08-23 00:00:00	0.01	0.008
2002-08-24 00:00:00	0.012	0.008
2002-08-25 00:00:00	0.014	0.008
2002-08-26 00:00:00	0.008	0.008
2002-08-27 00:00:00	0.008	0.007
2002-08-28 00:00:00	0.015	0.006
2002-08-29 00:00:00	-0.004	0.007
2002-08-30 00:00:00	-0.005	0.006
2002-08-31 00:00:00	-0.013	0.007
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2002-09-02 00:00:00	0.009	0.007
2002-09-03 00:00:00	0.021	0.007
2002-09-04 00:00:00	-0.002	0.007
2002-09-05 00:00:00	0.009	0.007
2002-09-06 00:00:00	0.004	0.007
2002-09-07 00:00:00	-0.001	0.006
2002-09-08 00:00:00	0.001	0.005
2002-09-09 00:00:00	0.003	0.005

2002-09-10 00:00:00	0.012	0.005
2002-09-11 00:00:00	0.012	0.005
2002-09-12 00:00:00	0.008	0.006
2002-09-13 00:00:00	-0.001	0.005
2002-09-14 00:00:00	-0.002	0.005
2002-09-15 00:00:00	0.01	0.005
2002-09-16 00:00:00	0.016	0.006
2002-09-17 00:00:00	-0.004	0.005
2002-09-18 00:00:00	0.014	0.005
2002-09-19 00:00:00	0.014	0.005
2002-09-20 00:00:00	0.006	0.005
2002-09-21 00:00:00	0.004	0.004
2002-09-22 00:00:00	-0.006	0.004
2002-09-23 00:00:00	-0.013	0.004
2002-09-24 00:00:00	0.01	0.004
2002-09-25 00:00:00	0.003	0.004
2002-09-26 00:00:00	0.027	0.003
2002-09-27 00:00:00	0.013	0.003
2002-09-28 00:00:00	0.008	0.003
2002-09-29 00:00:00	-0.003	0.004
2002-09-30 00:00:00	-0.009	0.004
2002-10-01 00:00:00	-0.006	0.005
2002-10-02 00:00:00	-0.013	0.005
2002-10-03 00:00:00	0.022	0.005
2002-10-04 00:00:00	0.014	0.005
2002-10-05 00:00:00	-0.007	0.005
2002-10-06 00:00:00	0.001	0.005
2002-10-07 00:00:00	0.001	0.005
2002-10-08 00:00:00	-0.003	0.005
2002-10-09 00:00:00	-0.014	0.006
2002-10-10 00:00:00	0.001	0.005
2002-10-11 00:00:00	0.002	0.006
2002-10-12 00:00:00	0	0.005
2002-10-13 00:00:00	0.008	0.004
2002-10-14 00:00:00	0.015	0.004
2002-10-15 00:00:00	0.022	
2002-10-16 00:00:00	0.021	
2002-10-17 00:00:00	0.022	
2002-10-18 00:00:00	0	
2002-10-19 00:00:00	0.009	
2002-10-20 00:00:00	0.008	
2002-10-21 00:00:00	0.01	
2002-10-22 00:00:00	0.003	
2002-10-23 00:00:00	-0.002	
2002-10-24 00:00:00	0.011	
2002-10-25 00:00:00	0.004	
2002-10-26 00:00:00	0.01	

2002-10-27 00:00:00	-0.004	
2002-10-28 00:00:00	-0.003	
2002-10-29 00:00:00	-0.002	
2002-10-31 00:00:00	0.006	
2002-11-01 00:00:00	-0.004	
2002-11-02 00:00:00	-0.011	
2002-11-03 00:00:00	-0.008	
2002-11-04 00:00:00	0.008	
2002-11-05 00:00:00	-0.014	
2002-11-06 00:00:00	-0.005	
2002-11-07 00:00:00	0.002	
2002-11-08 00:00:00	-0.001	
2002-11-09 00:00:00	0.028	
2002-11-10 00:00:00	-0.002	
2002-11-11 00:00:00	-0.002	
2002-11-12 00:00:00	-0.004	
2002-11-13 00:00:00	-0.015	
2002-11-14 00:00:00	-0.006	
2002-11-15 00:00:00	-0.013	0.002
2002-11-16 00:00:00	-0.003	0.002
2002-11-17 00:00:00	0.004	0.002
2002-11-18 00:00:00	-0.006	0.002
2002-11-19 00:00:00	-0.006	0.002
2002-11-20 00:00:00	0.01	0.002
2002-11-21 00:00:00	0.014	0.002
2002-11-22 00:00:00	0.009	0.002
2002-11-23 00:00:00	-0.003	0.001
2002-11-24 00:00:00	0.013	0.001
2002-11-25 00:00:00	-0.002	0
2002-11-26 00:00:00	0.001	0.001
2002-11-27 00:00:00	0.023	0.001
2002-11-28 00:00:00	0.009	0.001
2002-11-29 00:00:00	0.009	0.002
2002-11-30 00:00:00	0.021	0.002
2002-12-01 00:00:00	0.01	0.004
2002-12-02 00:00:00	-0.004	0.005
2002-12-03 00:00:00	0.005	0.005
2002-12-04 00:00:00	-0.015	0.006
2002-12-05 00:00:00	-0.009	0.006
2002-12-06 00:00:00	-0.01	0.006
2002-12-07 00:00:00	-0.007	0.005
2002-12-08 00:00:00	-0.011	0.005
2002-12-09 00:00:00	0	0.005
2002-12-10 00:00:00	-0.001	0.004
2002-12-11 00:00:00	0.015	0.004
2002-12-12 00:00:00	0.004	0.003
2002-12-13 00:00:00	-0.019	0.002

2002-12-14 00:00:00	0.017	0.001
2002-12-15 00:00:00	0.019	0.001
2002-12-16 00:00:00	0.03	0
2002-12-17 00:00:00	0.031	0
2002-12-18 00:00:00	0.018	-0.001
2002-12-19 00:00:00	0.003	-0.001
2002-12-20 00:00:00	0.007	-0.002
2002-12-21 00:00:00	-0.006	-0.002
2002-12-22 00:00:00	0.005	-0.002
2002-12-23 00:00:00	-0.005	-0.002
2002-12-24 00:00:00	-0.006	-0.002
2002-12-25 00:00:00	-0.014	-0.002
2002-12-26 00:00:00	-0.001	-0.002
2002-12-27 00:00:00	-0.03	-0.003
2002-12-28 00:00:00	-0.014	-0.003
2002-12-29 00:00:00	-0.017	-0.003
2002-12-30 00:00:00	0.002	-0.004
2002-12-31 00:00:00	0.015	-0.005
2003-01-01 00:00:00	-0.011	-0.007
2003-01-02 00:00:00	-0.026	-0.008
2003-01-03 00:00:00	-0.01	-0.009
2003-01-04 00:00:00	-0.016	-0.009
2003-01-05 00:00:00	-0.02	-0.01
2003-01-06 00:00:00	-0.001	-0.01
2003-01-07 00:00:00	-0.012	-0.01
2003-01-08 00:00:00	-0.02	-0.011
2003-01-09 00:00:00	0	-0.011
2003-01-10 00:00:00	0.008	-0.01
2003-01-11 00:00:00	-0.01	-0.01
2003-01-12 00:00:00	-0.017	-0.009
2003-01-13 00:00:00	-0.01	-0.009
2003-01-14 00:00:00	-0.015	-0.009
2003-01-15 00:00:00	-0.02	-0.009
2003-01-16 00:00:00	-0.017	-0.009
2003-01-17 00:00:00	-0.019	-0.009
2003-01-18 00:00:00	-0.001	-0.009
2003-01-19 00:00:00	-0.005	-0.008
2003-01-20 00:00:00	-0.02	-0.008
2003-01-21 00:00:00	-0.007	-0.007
2003-01-22 00:00:00	-0.006	-0.008
2003-01-23 00:00:00	-0.027	-0.007
2003-01-24 00:00:00	0.009	-0.006
2003-01-25 00:00:00	0.003	-0.006
2003-01-26 00:00:00	-0.007	-0.006
2003-01-27 00:00:00	0.001	-0.005
2003-01-28 00:00:00	-0.002	-0.004
2003-01-29 00:00:00	-0.02	-0.004

2003-01-30 00:00:00	0.002	-0.003
2003-01-31 00:00:00	0.004	-0.002
2003-02-01 00:00:00	-0.008	-0.001
2003-02-02 00:00:00	-0.012	-0.001
2003-02-03 00:00:00	0.002	-0.001
2003-02-04 00:00:00	0	-0.001
2003-02-05 00:00:00	-0.001	-0.001
2003-02-06 00:00:00	-0.006	0
2003-02-07 00:00:00	0.007	0
2003-02-08 00:00:00	0.008	0.001
2003-02-09 00:00:00	0.008	0.001
2003-02-10 00:00:00	0.01	0.001
2003-02-11 00:00:00	0.015	0.002
2003-02-12 00:00:00	0.008	0.002
2003-02-13 00:00:00	-0.01	0.002
2003-02-14 00:00:00	0.013	0.003
2003-02-15 00:00:00	0.007	0.003
2003-02-16 00:00:00	0.018	0.003
2003-02-17 00:00:00	-0.013	0.003
2003-02-18 00:00:00	-0.005	0.003
2003-02-19 00:00:00	-0.007	0.003
2003-02-20 00:00:00	-0.001	0.003
2003-02-21 00:00:00	0.001	0.003
2003-02-22 00:00:00	0.006	0.003
2003-02-23 00:00:00	0.004	0.003
2003-02-24 00:00:00	0.015	0.004
2003-02-25 00:00:00	-0.002	0.004
2003-02-26 00:00:00	0.017	0.003
2003-02-27 00:00:00	0.01	0.003
2003-02-28 00:00:00	0.002	0.003
2003-03-01 00:00:00	-0.003	0.004
2003-03-02 00:00:00	0.013	0.004
2003-03-03 00:00:00	-0.013	0.004
2003-03-04 00:00:00	0.003	0.003
2003-03-05 00:00:00	-0.001	0.003
2003-03-06 00:00:00	-0.007	0.003
2003-03-07 00:00:00	0.002	0.004
2003-03-08 00:00:00	-0.006	0.003
2003-03-09 00:00:00	-0.007	0.003
2003-03-10 00:00:00	0.017	0.003
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2003-03-12 00:00:00	0	0.002
2003-03-13 00:00:00	0.001	0.003
2003-03-14 00:00:00	0.008	0.001
2003-03-15 00:00:00	0.001	0
2003-03-16 00:00:00	0.015	0.001
2003-03-17 00:00:00	0.014	0.001

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2003-03-19 00:00:00	-0.007	0.001
2003-03-20 00:00:00	-0.015	0.001
2003-03-21 00:00:00	0.008	0.001
2003-03-22 00:00:00	0.003	0.002
2003-03-23 00:00:00	-0.004	0.002
2003-03-24 00:00:00	-0.005	0.002
2003-03-25 00:00:00	0.006	0.003
2003-03-26 00:00:00	-0.012	0.002
2003-03-27 00:00:00	0.003	0.001
2003-03-28 00:00:00	0.015	0.002
2003-03-29 00:00:00	-0.032	0.002
2003-03-30 00:00:00	-0.017	0.001
2003-03-31 00:00:00	0.013	0.002
2003-04-01 00:00:00	-0.002	0.002
2003-04-02 00:00:00	-0.004	0.001
2003-04-03 00:00:00	0.011	0.002
2003-04-04 00:00:00	-0.002	0.002
2003-04-05 00:00:00	0.008	0.002
2003-04-06 00:00:00	0.017	0.002
2003-04-07 00:00:00	0.008	0.003
2003-04-08 00:00:00	-0.001	0.003
2003-04-09 00:00:00	0.003	0.003
2003-04-10 00:00:00	0.005	0.003
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2003-04-12 00:00:00	0.004	0.003
2003-04-13 00:00:00	0.004	0.003
2003-04-14 00:00:00	0.003	0.005
2003-04-15 00:00:00	0.011	0.006
2003-04-16 00:00:00	0.013	0.005
2003-04-17 00:00:00	0.002	0.006
2003-04-18 00:00:00	0.028	0.007
2003-04-19 00:00:00	-0.005	0.007
2003-04-20 00:00:00	-0.015	0.008
2003-04-21 00:00:00	0.012	0.009
2003-04-22 00:00:00	0.009	0.009
2003-04-23 00:00:00	0.002	0.01
2003-04-24 00:00:00	-0.002	0.011
2003-04-25 00:00:00	0.013	0.011
2003-04-26 00:00:00	0.007	0.011
2003-04-27 00:00:00	-0.002	0.012
2003-04-28 00:00:00	0.008	0.012
2003-04-29 00:00:00	0.023	0.013
2003-04-30 00:00:00	0.017	0.014
2003-05-01 00:00:00	-0.01	0.014
2003-05-02 00:00:00	0.011	0.014
2003-05-03 00:00:00	0.04	0.015

2003-05-04 00:00:00	0.017	0.015
2003-05-05 00:00:00	0.031	0.015
2003-05-06 00:00:00	0.023	0.015
2003-05-07 00:00:00	0.018	0.015
2003-05-08 00:00:00	0.033	0.015
2003-05-09 00:00:00	0.033	0.016
2003-05-10 00:00:00	0.012	0.016
2003-05-11 00:00:00	0.009	0.016
2003-05-12 00:00:00	0.014	0.016
2003-05-13 00:00:00	0.022	0.016
2003-05-14 00:00:00	0.027	0.016
2003-05-15 00:00:00	0.032	0.016
2003-05-16 00:00:00	0.017	0.015
2003-05-17 00:00:00	0.021	0.016
2003-05-18 00:00:00	0.023	0.016
2003-05-19 00:00:00	0.014	0.015
2003-05-20 00:00:00	0.01	0.015
2003-05-21 00:00:00	-0.005	0.015
2003-05-22 00:00:00	0.007	0.015
2003-05-23 00:00:00	0.012	0.015
2003-05-24 00:00:00	0.028	0.014
2003-05-25 00:00:00	-0.001	0.014
2003-05-26 00:00:00	0.014	0.014
2003-05-27 00:00:00	-0.007	0.014
2003-05-28 00:00:00	-0.003	0.015
2003-05-29 00:00:00	0.022	0.015
2003-05-30 00:00:00	0.017	0.015
2003-05-31 00:00:00	-0.008	0.014
2003-06-01 00:00:00	0.005	0.014
2003-06-02 00:00:00	0.016	0.013
2003-06-03 00:00:00	0.004	0.013
2003-06-04 00:00:00	0.017	0.012
2003-06-05 00:00:00	0.037	0.012
2003-06-06 00:00:00	0.018	0.012
2003-06-07 00:00:00	0.015	0.012
2003-06-08 00:00:00	0.027	0.012
2003-06-09 00:00:00	0.019	0.011
2003-06-10 00:00:00	0.016	0.011
2003-06-11 00:00:00	0.015	0.01
2003-06-12 00:00:00	0.032	0.01
2003-06-13 00:00:00	0.015	0.01
2003-06-14 00:00:00	0.021	0.009
2003-06-15 00:00:00	0.016	0.009
2003-06-16 00:00:00	0.012	0.008
2003-06-17 00:00:00	-0.005	0.008
2003-06-18 00:00:00	0.021	0.007
2003-06-19 00:00:00	-0.005	0.007

2003-06-20 00:00:00	0.003	0.006
2003-06-21 00:00:00	-0.003	0.004
2003-06-22 00:00:00	0.012	0.003
2003-06-23 00:00:00	0.005	0.002
2003-06-24 00:00:00	-0.006	0.001
2003-06-25 00:00:00	-0.001	-0.001
2003-06-26 00:00:00	-0.019	-0.002
2003-06-27 00:00:00	0.003	-0.003
2003-06-28 00:00:00	0.002	-0.004
2003-06-29 00:00:00	-0.007	-0.005
2003-06-30 00:00:00	-0.01	-0.006
2003-07-01 00:00:00	-0.03	-0.007
2003-07-02 00:00:00	0.009	-0.007
2003-07-03 00:00:00	-0.006	-0.007
2003-07-04 00:00:00	-0.021	-0.008
2003-07-05 00:00:00	-0.014	-0.009
2003-07-06 00:00:00	-0.005	-0.01
2003-07-07 00:00:00	-0.026	-0.01
2003-07-08 00:00:00	-0.017	-0.01
2003-07-09 00:00:00	-0.01	-0.01
2003-07-10 00:00:00	-0.02	-0.01
2003-07-11 00:00:00	-0.014	-0.01
2003-07-12 00:00:00	-0.025	-0.01
2003-07-13 00:00:00	0	-0.011
2003-07-14 00:00:00	-0.005	-0.011
2003-07-15 00:00:00	-0.015	-0.011
2003-07-16 00:00:00	-0.018	-0.011
2003-07-17 00:00:00	0.01	-0.01
2003-07-18 00:00:00	-0.007	-0.01
2003-07-19 00:00:00	-0.014	-0.011
2003-07-20 00:00:00	-0.041	-0.01
2003-07-21 00:00:00	-0.016	-0.01
2003-07-22 00:00:00	0.004	-0.01
2003-07-23 00:00:00	0.005	-0.009
2003-07-24 00:00:00	-0.01	-0.009
2003-07-25 00:00:00	-0.006	-0.009
2003-07-26 00:00:00	-0.002	-0.008
2003-07-27 00:00:00	-0.007	-0.007
2003-07-28 00:00:00	-0.017	-0.007
2003-07-29 00:00:00	0	-0.007
2003-07-30 00:00:00	-0.008	-0.007
2003-07-31 00:00:00	-0.017	-0.007
2003-08-01 00:00:00	-0.006	-0.006
2003-08-02 00:00:00	0.003	-0.007
2003-08-03 00:00:00	-0.021	-0.006
2003-08-04 00:00:00	-0.001	-0.005
2003-08-05 00:00:00	0	-0.005



2003-08-06 00:00:00	-0.007	-0.004
2003-08-07 00:00:00	-0.005	-0.005
2003-08-08 00:00:00	-0.001	-0.005
2003-08-09 00:00:00	-0.008	-0.005
2003-08-10 00:00:00	0.008	-0.005
2003-08-11 00:00:00	0.002	-0.004
2003-08-12 00:00:00	-0.004	-0.004
2003-08-13 00:00:00	-0.006	-0.003
2003-08-14 00:00:00	-0.002	-0.004
2003-08-15 00:00:00	-0.011	-0.004
2003-08-16 00:00:00	-0.012	-0.004
2003-08-17 00:00:00	0.002	-0.004
2003-08-18 00:00:00	0.02	-0.004
2003-08-19 00:00:00	-0.006	-0.003
2003-08-20 00:00:00	-0.018	-0.003
2003-08-21 00:00:00	-0.008	-0.003
2003-08-22 00:00:00	-0.002	-0.004
2003-08-23 00:00:00	-0.004	-0.004
2003-08-24 00:00:00	-0.011	-0.004
2003-08-25 00:00:00	0	-0.003
2003-08-26 00:00:00	0.012	-0.003
2003-08-27 00:00:00	0.009	-0.004
2003-08-28 00:00:00	-0.004	-0.004
2003-08-29 00:00:00	-0.006	-0.004
2003-08-30 00:00:00	-0.017	-0.004
2003-08-31 00:00:00	-0.006	-0.004
2003-09-01 00:00:00	-0.005	-0.004
2003-09-02 00:00:00	-0.015	-0.004
2003-09-03 00:00:00	0.009	-0.005
2003-09-04 00:00:00	-0.002	-0.005
2003-09-05 00:00:00	-0.009	-0.005
2003-09-06 00:00:00	-0.024	-0.005
2003-09-07 00:00:00	0	-0.004
2003-09-08 00:00:00	-0.006	-0.004
2003-09-09 00:00:00	0.01	-0.003
2003-09-10 00:00:00	0.014	-0.003
2003-09-11 00:00:00	-0.016	-0.003
2003-09-12 00:00:00	-0.002	-0.004
2003-09-13 00:00:00	-0.023	-0.004
2003-09-14 00:00:00	-0.003	-0.004
2003-09-15 00:00:00	-0.007	-0.004
2003-09-16 00:00:00	-0.007	-0.004
2003-09-17 00:00:00	-0.005	-0.004
2003-09-18 00:00:00	-0.008	-0.003
2003-09-19 00:00:00	-0.009	-0.004
2003-09-20 00:00:00	0.003	-0.003
2003-09-21 00:00:00	-0.011	-0.003

2003-09-22 00:00:00	0.007	-0.003
2003-09-23 00:00:00	0.007	-0.003
2003-09-24 00:00:00	0.008	-0.003
2003-09-25 00:00:00	0.006	-0.003
2003-09-26 00:00:00	0.008	-0.004
2003-09-27 00:00:00	-0.016	-0.004
2003-09-28 00:00:00	0.002	-0.004
2003-09-29 00:00:00	-0.01	-0.004
2003-09-30 00:00:00	-0.019	-0.004
2003-10-01 00:00:00	-0.015	-0.005
2003-10-02 00:00:00	-0.004	-0.006
2003-10-03 00:00:00	0.017	-0.006
2003-10-04 00:00:00	0.005	-0.007
2003-10-05 00:00:00	0.011	-0.008
2003-10-06 00:00:00	-0.019	-0.009
2003-10-07 00:00:00	-0.008	-0.01
2003-10-08 00:00:00	0.003	-0.011
2003-10-09 00:00:00	-0.006	-0.012
2003-10-10 00:00:00	-0.006	-0.014
2003-10-11 00:00:00	-0.013	-0.015
2003-10-12 00:00:00	-0.01	-0.017
2003-10-13 00:00:00	-0.003	-0.017
2003-10-14 00:00:00	-0.016	-0.018
2003-10-15 00:00:00	-0.021	-0.018
2003-10-16 00:00:00	-0.021	-0.019
2003-10-17 00:00:00	-0.028	-0.019
2003-10-18 00:00:00	-0.012	-0.02
2003-10-19 00:00:00	-0.044	-0.021
2003-10-20 00:00:00	-0.036	-0.022
2003-10-21 00:00:00	-0.042	-0.023
2003-10-22 00:00:00	-0.036	-0.023
2003-10-23 00:00:00	-0.024	-0.024
2003-10-24 00:00:00	-0.025	-0.024
2003-10-25 00:00:00	-0.046	-0.025
2003-10-26 00:00:00	-0.045	-0.026
2003-10-27 00:00:00	-0.033	-0.026
2003-10-28 00:00:00	-0.034	-0.026
2003-10-29 00:00:00	-0.011	-0.026
2003-10-30 00:00:00	-0.005	-0.027
2003-10-31 00:00:00	-0.047	-0.027
2003-11-01 00:00:00	-0.038	-0.027
2003-11-02 00:00:00	-0.019	-0.027
2003-11-03 00:00:00	-0.027	-0.027
2003-11-04 00:00:00	-0.024	-0.026
2003-11-05 00:00:00	-0.022	-0.026
2003-11-06 00:00:00	-0.021	-0.025
2003-11-07 00:00:00	-0.028	-0.024

2003-11-08 00:00:00	-0.012	-0.024
2003-11-09 00:00:00	-0.037	-0.024
2003-11-10 00:00:00	-0.023	-0.022
2003-11-11 00:00:00	-0.019	-0.021
2003-11-12 00:00:00	-0.004	-0.02
2003-11-13 00:00:00	-0.02	-0.019
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2003-11-17 00:00:00	-0.038	-0.017
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2003-11-19 00:00:00	-0.018	-0.016
2003-11-20 00:00:00	-0.022	-0.016
2003-11-21 00:00:00	-0.001	-0.015
2003-11-22 00:00:00	-0.025	-0.015
2003-11-23 00:00:00	-0.013	-0.014
2003-11-24 00:00:00	-0.016	-0.014
2003-11-25 00:00:00	-0.002	-0.013
2003-11-26 00:00:00	0.005	-0.012
2003-11-27 00:00:00	-0.004	-0.012
2003-11-28 00:00:00	-0.004	-0.013
2003-11-29 00:00:00	0.001	-0.013
2003-11-30 00:00:00	-0.019	-0.013
2003-12-01 00:00:00	0.007	-0.013
2003-12-02 00:00:00	-0.025	-0.014
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2003-12-08 00:00:00	-0.001	-0.012
2003-12-09 00:00:00	-0.008	-0.012
2003-12-10 00:00:00	-0.01	-0.012
2003-12-11 00:00:00	0.002	-0.013
2003-12-12 00:00:00	-0.02	-0.015
2003-12-13 00:00:00	-0.01	-0.015
2003-12-14 00:00:00	-0.015	-0.016
2003-12-15 00:00:00	-0.024	-0.016
2003-12-16 00:00:00	-0.034	-0.016
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2003-12-20 00:00:00	0.009	-0.017
2003-12-21 00:00:00	-0.028	-0.017
2003-12-22 00:00:00	-0.024	-0.018
2003-12-23 00:00:00	-0.006	-0.018
2003-12-24 00:00:00	-0.011	-0.019

2003-12-25 00:00:00	-0.02	-0.02
2003-12-26 00:00:00	-0.038	-0.02
2003-12-27 00:00:00	-0.04	-0.021
2003-12-28 00:00:00	-0.029	-0.021
2003-12-29 00:00:00	-0.011	-0.022
2003-12-30 00:00:00	0.003	-0.023
2003-12-31 00:00:00	-0.017	-0.023
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2004-01-02 00:00:00	-0.025	-0.021
2004-01-03 00:00:00	-0.019	-0.021
2004-01-04 00:00:00	-0.023	-0.022
2004-01-05 00:00:00	-0.026	-0.023
2004-01-06 00:00:00	-0.019	-0.023
2004-01-07 00:00:00	-0.016	-0.024
2004-01-08 00:00:00	-0.03	-0.024
2004-01-09 00:00:00	-0.039	-0.024
2004-01-10 00:00:00	-0.014	-0.024
2004-01-11 00:00:00	-0.021	-0.023
2004-01-12 00:00:00	-0.047	-0.023
2004-01-13 00:00:00	-0.032	-0.023
2004-01-14 00:00:00	-0.038	-0.023
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2004-01-16 00:00:00	-0.01	-0.022
2004-01-17 00:00:00	-0.015	-0.022
2004-01-18 00:00:00	-0.026	-0.022
2004-01-19 00:00:00	-0.029	-0.02
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2004-01-28 00:00:00	-0.025	-0.018
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2004-01-30 00:00:00	-0.01	-0.017
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2004-02-01 00:00:00	-0.007	-0.017
2004-02-02 00:00:00	-0.017	-0.017
2004-02-03 00:00:00	0.018	-0.017
2004-02-04 00:00:00	-0.001	-0.016
2004-02-05 00:00:00	-0.004	-0.015
2004-02-06 00:00:00	-0.01	-0.014
2004-02-07 00:00:00	-0.027	-0.013
2004-02-08 00:00:00	-0.023	-0.014
2004-02-09 00:00:00	-0.034	-0.013

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2004-02-11 00:00:00	-0.018	-0.013
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2004-02-15 00:00:00	-0.012	-0.014
2004-02-16 00:00:00	-0.012	-0.015
2004-02-17 00:00:00	-0.024	-0.016
2004-02-18 00:00:00	-0.033	-0.016
2004-02-19 00:00:00	0	-0.017
2004-02-20 00:00:00	0.004	-0.019
2004-02-21 00:00:00	-0.005	-0.02
2004-02-22 00:00:00	-0.005	-0.02
2004-02-23 00:00:00	-0.011	-0.02
2004-02-24 00:00:00	-0.018	-0.02
2004-02-25 00:00:00	-0.014	-0.019
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2004-02-27 00:00:00	-0.024	-0.019
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2004-03-01 00:00:00	-0.04	-0.019
2004-03-02 00:00:00	-0.02	-0.019
2004-03-03 00:00:00	-0.042	-0.019
2004-03-04 00:00:00	-0.019	-0.019
2004-03-05 00:00:00	-0.011	-0.018
2004-03-06 00:00:00	-0.035	-0.019
2004-03-07 00:00:00	-0.04	-0.019
2004-03-08 00:00:00	-0.03	-0.019
2004-03-09 00:00:00	-0.008	-0.019
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2004-03-11 00:00:00	-0.024	-0.02
2004-03-12 00:00:00	-0.019	-0.02
2004-03-13 00:00:00	-0.014	-0.02
2004-03-14 00:00:00	-0.024	-0.02
2004-03-15 00:00:00	-0.01	-0.021
2004-03-16 00:00:00	-0.028	-0.021
2004-03-17 00:00:00	-0.012	-0.022
2004-03-18 00:00:00	-0.007	-0.022
2004-03-19 00:00:00	-0.012	-0.021
2004-03-20 00:00:00	-0.007	-0.021
2004-03-21 00:00:00	-0.022	-0.02
2004-03-22 00:00:00	-0.005	-0.018
2004-03-23 00:00:00	0	-0.016
2004-03-24 00:00:00	-0.018	-0.014
2004-03-25 00:00:00	-0.014	-0.014
2004-03-26 00:00:00	-0.021	-0.014
2004-03-27 00:00:00	-0.018	-0.013

2004-03-28 00:00:00	-0.027	-0.014
2004-03-29 00:00:00	-0.042	-0.015
2004-03-30 00:00:00	-0.024	-0.016
2004-03-31 00:00:00	-0.053	-0.017
2004-04-01 00:00:00	-0.048	-0.017
2004-04-02 00:00:00	-0.027	-0.018
2004-04-03 00:00:00	-0.028	-0.018
2004-04-04 00:00:00	0.002	-0.019
2004-04-05 00:00:00	0.023	-0.02
2004-04-06 00:00:00	0.027	-0.02
2004-04-07 00:00:00	0.015	-0.02
2004-04-08 00:00:00	0.026	-0.021
2004-04-09 00:00:00	0.008	-0.021
2004-04-10 00:00:00	-0.017	-0.022
2004-04-11 00:00:00	-0.018	-0.022
2004-04-12 00:00:00	-0.038	-0.022
2004-04-13 00:00:00	-0.047	-0.022
2004-04-14 00:00:00	-0.042	-0.021
2004-04-15 00:00:00	-0.05	-0.022
2004-04-16 00:00:00	-0.039	-0.022
2004-04-17 00:00:00	-0.028	-0.021
2004-04-18 00:00:00	-0.018	-0.021
2004-04-19 00:00:00	-0.039	-0.021
2004-04-20 00:00:00	-0.03	-0.021
2004-04-21 00:00:00	-0.023	-0.022
2004-04-22 00:00:00	-0.022	-0.023
2004-04-23 00:00:00	-0.014	-0.024
2004-04-24 00:00:00	-0.034	-0.026
2004-04-25 00:00:00	-0.035	-0.026
2004-04-26 00:00:00	-0.031	-0.026
2004-04-27 00:00:00	-0.014	-0.025
2004-04-28 00:00:00	-0.016	-0.025
2004-04-29 00:00:00	-0.032	-0.024
2004-04-30 00:00:00	-0.042	-0.023
2004-05-01 00:00:00	-0.047	-0.022
2004-05-02 00:00:00	-0.036	-0.022
2004-05-03 00:00:00	-0.016	-0.022
2004-05-04 00:00:00	-0.012	-0.022
2004-05-05 00:00:00	0.003	-0.022
2004-05-06 00:00:00	-0.021	-0.023
2004-05-07 00:00:00	-0.016	-0.023
2004-05-08 00:00:00	-0.015	-0.023
2004-05-09 00:00:00	-0.025	-0.024
2004-05-10 00:00:00	0.002	-0.024
2004-05-11 00:00:00	-0.001	-0.024
2004-05-12 00:00:00	0	-0.024
2004-05-13 00:00:00	-0.025	-0.024

2004-05-14 00:00:00	-0.02	-0.025
2004-05-15 00:00:00	-0.025	-0.025
2004-05-16 00:00:00	-0.025	-0.024
2004-05-17 00:00:00	-0.024	-0.023
2004-05-18 00:00:00	-0.036	-0.023
2004-05-19 00:00:00	-0.021	-0.023
2004-05-20 00:00:00	-0.036	-0.024
2004-05-21 00:00:00	-0.039	-0.025
2004-05-22 00:00:00	-0.045	-0.025
2004-05-23 00:00:00	-0.03	-0.025
2004-05-24 00:00:00	-0.031	-0.026
2004-05-25 00:00:00	-0.035	-0.026
2004-05-26 00:00:00	-0.03	-0.027
2004-05-27 00:00:00	-0.027	-0.028
2004-05-28 00:00:00	-0.035	-0.03
2004-05-29 00:00:00	-0.029	-0.03
2004-05-30 00:00:00	-0.021	-0.031
2004-05-31 00:00:00	-0.021	-0.032
2004-06-01 00:00:00	-0.019	-0.032
2004-06-02 00:00:00	-0.024	-0.033
2004-06-03 00:00:00	-0.031	-0.033
2004-06-04 00:00:00	-0.037	-0.035
2004-06-05 00:00:00	-0.029	-0.036
2004-06-06 00:00:00	-0.025	-0.036
2004-06-07 00:00:00	-0.029	-0.036
2004-06-08 00:00:00	-0.032	-0.037
2004-06-09 00:00:00	-0.022	-0.038
2004-06-10 00:00:00	-0.042	-0.038
2004-06-11 00:00:00	-0.038	-0.039
2004-06-12 00:00:00	-0.045	-0.04
2004-06-13 00:00:00	-0.032	-0.04
2004-06-14 00:00:00	-0.037	-0.041
2004-06-15 00:00:00	-0.054	-0.042
2004-06-16 00:00:00	-0.04	-0.043
2004-06-17 00:00:00	-0.041	-0.044
2004-06-18 00:00:00	-0.052	-0.044
2004-06-19 00:00:00	-0.067	-0.045
2004-06-20 00:00:00	-0.073	-0.044
2004-06-21 00:00:00	-0.052	-0.045
2004-06-22 00:00:00	-0.038	-0.046
2004-06-23 00:00:00	-0.071	-0.046
2004-06-24 00:00:00	-0.055	-0.047
2004-06-25 00:00:00	-0.043	-0.048
2004-06-26 00:00:00	-0.05	-0.048
2004-06-27 00:00:00	-0.047	-0.048
2004-06-28 00:00:00	-0.047	-0.047
2004-06-29 00:00:00	-0.058	-0.048

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2004-07-01 00:00:00	-0.044	-0.047
2004-07-02 00:00:00	-0.043	-0.047
2004-07-03 00:00:00	-0.033	-0.047
2004-07-04 00:00:00	-0.044	-0.047
2004-07-05 00:00:00	-0.029	-0.046
2004-07-06 00:00:00	-0.047	-0.046
2004-07-07 00:00:00	-0.045	-0.045
2004-07-08 00:00:00	-0.044	-0.046
2004-07-09 00:00:00	-0.049	-0.045
2004-07-10 00:00:00	-0.06	-0.045
2004-07-11 00:00:00	-0.041	-0.045
2004-07-12 00:00:00	-0.036	-0.045
2004-07-13 00:00:00	-0.034	-0.045
2004-07-14 00:00:00	-0.046	-0.045
2004-07-15 00:00:00	-0.033	-0.044
2004-07-16 00:00:00	-0.021	-0.044
2004-07-17 00:00:00	-0.04	-0.044
2004-07-18 00:00:00	-0.062	-0.044
2004-07-19 00:00:00	-0.045	-0.045
2004-07-20 00:00:00	-0.046	-0.045
2004-07-21 00:00:00	-0.047	
2004-07-22 00:00:00	-0.042	
2004-07-23 00:00:00	-0.05	
2004-07-24 00:00:00	-0.047	
2004-07-25 00:00:00	-0.058	
2004-07-26 00:00:00	-0.037	
2004-07-27 00:00:00	-0.045	
2004-07-28 00:00:00	-0.046	
2004-07-29 00:00:00	-0.047	
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2004-08-12 00:00:00	-0.032	
2004-08-13 00:00:00	-0.063	
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2004-08-16 00:00:00	-0.064	



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2004-08-18 00:00:00	-0.065	
2004-08-19 00:00:00	-0.063	
2004-08-20 00:00:00	-0.054	
2004-08-21 00:00:00	-0.057	-0.058
2004-08-22 00:00:00	-0.045	-0.058
2004-08-23 00:00:00	-0.065	-0.058
2004-08-24 00:00:00	-0.061	-0.058
2004-08-25 00:00:00	-0.048	-0.058
2004-08-26 00:00:00	-0.066	-0.058
2004-08-27 00:00:00	-0.079	-0.059
2004-08-28 00:00:00	-0.077	-0.06
2004-08-29 00:00:00	-0.071	-0.06
2004-08-30 00:00:00	-0.055	-0.06
2004-08-31 00:00:00	-0.061	-0.06
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2004-09-02 00:00:00	-0.078	-0.06
2004-09-03 00:00:00	-0.066	-0.059
2004-09-04 00:00:00	-0.08	-0.058
2004-09-05 00:00:00	-0.044	-0.059
2004-09-06 00:00:00	-0.051	-0.059
2004-09-07 00:00:00	-0.043	-0.059
2004-09-08 00:00:00	-0.047	-0.059
2004-09-09 00:00:00	-0.055	-0.059
2004-09-10 00:00:00	-0.055	-0.059
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2004-09-14 00:00:00	-0.05	-0.057
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2004-09-18 00:00:00	-0.043	-0.057
2004-09-19 00:00:00	-0.039	-0.057
2004-09-20 00:00:00	-0.057	-0.056
2004-09-21 00:00:00	-0.058	-0.057
2004-09-22 00:00:00	-0.061	-0.058
2004-09-23 00:00:00	-0.055	-0.059
2004-09-24 00:00:00	-0.059	-0.059
2004-09-25 00:00:00	-0.054	-0.058
2004-09-26 00:00:00	-0.059	-0.059
2004-09-27 00:00:00	-0.063	-0.058
2004-09-28 00:00:00	-0.065	-0.057
2004-09-29 00:00:00	-0.047	-0.058
2004-09-30 00:00:00	-0.059	-0.058
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2004-10-02 00:00:00	-0.072	-0.058

2004-10-03 00:00:00	-0.058	-0.059
2004-10-04 00:00:00	-0.063	-0.059
2004-10-05 00:00:00	-0.074	-0.06
2004-10-06 00:00:00	-0.07	-0.06
2004-10-07 00:00:00	-0.077	-0.06
2004-10-08 00:00:00	-0.055	-0.06
2004-10-09 00:00:00	-0.048	-0.06
2004-10-10 00:00:00	-0.051	-0.06
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2004-10-13 00:00:00	-0.049	-0.062
2004-10-14 00:00:00	-0.07	-0.063
2004-10-15 00:00:00	-0.063	-0.064
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2004-10-17 00:00:00	-0.048	-0.064
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2004-10-19 00:00:00	-0.057	-0.065
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2004-10-25 00:00:00	-0.055	-0.067
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2004-10-27 00:00:00	-0.067	-0.067
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2004-10-29 00:00:00	-0.09	-0.068
2004-10-30 00:00:00	-0.087	-0.068
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2004-11-02 00:00:00	-0.08	-0.07
2004-11-03 00:00:00	-0.077	-0.07
2004-11-04 00:00:00	-0.068	-0.07
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2004-11-06 00:00:00	-0.079	-0.071
2004-11-07 00:00:00	-0.077	-0.071
2004-11-08 00:00:00	-0.062	-0.071
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2004-11-10 00:00:00	-0.065	-0.072
2004-11-11 00:00:00	-0.053	-0.071
2004-11-12 00:00:00	-0.054	-0.071
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2004-11-15 00:00:00	-0.071	-0.07
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2004-11-18 00:00:00	-0.076	-0.069

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2004-12-02 00:00:00	-0.066	-0.071
2004-12-03 00:00:00	-0.06	-0.071
2004-12-04 00:00:00	-0.054	-0.071
2004-12-05 00:00:00	-0.075	-0.071
2004-12-06 00:00:00	-0.068	-0.071
2004-12-07 00:00:00	-0.066	-0.071
2004-12-08 00:00:00	-0.064	-0.071
2004-12-09 00:00:00	-0.064	-0.072
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2004-12-12 00:00:00	-0.063	-0.072
2004-12-13 00:00:00	-0.069	-0.071
2004-12-14 00:00:00	-0.091	-0.071
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2004-12-18 00:00:00	-0.086	-0.072
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2004-12-22 00:00:00	-0.082	-0.074
2004-12-23 00:00:00	-0.071	-0.073
2004-12-24 00:00:00	-0.075	-0.074
2004-12-25 00:00:00	-0.068	-0.075
2004-12-26 00:00:00	-0.07	-0.075
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2004-12-29 00:00:00	-0.051	-0.075
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2004-12-31 00:00:00	-0.077	-0.075
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2005-01-02 00:00:00	-0.069	-0.074
2005-01-03 00:00:00	-0.086	-0.074
2005-01-04 00:00:00	-0.082	-0.073

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2005-01-06 00:00:00	-0.069	-0.073
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2005-01-13 00:00:00	-0.078	-0.072
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2005-01-15 00:00:00	-0.094	-0.073
2005-01-16 00:00:00	-0.084	-0.073
2005-01-17 00:00:00	-0.074	-0.072
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2005-01-22 00:00:00	-0.067	-0.071
2005-01-23 00:00:00	-0.057	-0.071
2005-01-24 00:00:00	-0.068	-0.071
2005-01-25 00:00:00	-0.08	-0.07
2005-01-26 00:00:00	-0.056	-0.07
2005-01-27 00:00:00	-0.057	-0.071
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2005-01-29 00:00:00	-0.063	-0.07
2005-01-30 00:00:00	-0.078	-0.069
2005-01-31 00:00:00	-0.076	-0.068
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2005-02-02 00:00:00	-0.068	-0.068
2005-02-03 00:00:00	-0.081	-0.068
2005-02-04 00:00:00	-0.069	-0.068
2005-02-05 00:00:00	-0.066	-0.068
2005-02-06 00:00:00	-0.058	-0.07
2005-02-07 00:00:00	-0.071	-0.07
2005-02-08 00:00:00	-0.072	-0.071
2005-02-09 00:00:00	-0.067	-0.071
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2005-02-11 00:00:00	-0.068	-0.071
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2005-02-14 00:00:00	-0.072	-0.073
2005-02-15 00:00:00	-0.067	-0.072
2005-02-16 00:00:00	-0.082	-0.072
2005-02-17 00:00:00	-0.069	-0.071
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2005-02-23 00:00:00	-0.077	-0.071
2005-02-24 00:00:00	-0.079	-0.071
2005-02-25 00:00:00	-0.077	-0.071
2005-02-26 00:00:00	-0.066	-0.07
2005-02-27 00:00:00	-0.083	-0.07
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2005-03-02 00:00:00	-0.075	-0.07
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2005-03-05 00:00:00	-0.067	-0.069
2005-03-06 00:00:00	-0.077	-0.069
2005-03-07 00:00:00	-0.073	-0.069
2005-03-08 00:00:00	-0.074	-0.068
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2005-03-17 00:00:00	-0.051	-0.06
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2005-03-22 00:00:00	-0.064	-0.059
2005-03-23 00:00:00	-0.05	-0.058
2005-03-24 00:00:00	-0.07	-0.058
2005-03-25 00:00:00	-0.056	-0.057
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2005-04-02 00:00:00	-0.051	-0.054
2005-04-03 00:00:00	-0.051	-0.054
2005-04-04 00:00:00	-0.055	-0.054
2005-04-05 00:00:00	-0.077	-0.054
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2005-04-08 00:00:00	-0.048	-0.052

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2005-04-18 00:00:00	-0.056	-0.053
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2005-05-02 00:00:00	-0.061	-0.058
2005-05-03 00:00:00	-0.058	-0.057
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2005-05-05 00:00:00	-0.06	-0.058
2005-05-06 00:00:00	-0.053	-0.057
2005-05-07 00:00:00	-0.061	-0.058
2005-05-08 00:00:00	-0.065	-0.059
2005-05-09 00:00:00	-0.065	-0.06
2005-05-10 00:00:00	-0.056	-0.061
2005-05-11 00:00:00	-0.051	-0.061
2005-05-12 00:00:00	-0.07	-0.062
2005-05-13 00:00:00	-0.078	-0.063
2005-05-14 00:00:00	-0.074	-0.063
2005-05-15 00:00:00	-0.069	-0.063
2005-05-16 00:00:00	-0.042	-0.064
2005-05-17 00:00:00	-0.064	-0.064
2005-05-18 00:00:00	-0.052	-0.064
2005-05-19 00:00:00	-0.062	-0.064
2005-05-20 00:00:00	-0.048	-0.064
2005-05-21 00:00:00	-0.057	-0.063
2005-05-22 00:00:00	-0.071	-0.064
2005-05-23 00:00:00	-0.062	-0.064
2005-05-24 00:00:00	-0.071	-0.064
2005-05-25 00:00:00	-0.078	-0.064

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2005-05-29 00:00:00	-0.082	-0.065
2005-05-30 00:00:00	-0.06	-0.065
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2005-06-03 00:00:00	-0.068	-0.065
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2005-06-07 00:00:00	-0.06	-0.066
2005-06-08 00:00:00	-0.071	-0.067
2005-06-09 00:00:00	-0.072	-0.067
2005-06-10 00:00:00	-0.078	-0.067
2005-06-11 00:00:00	-0.068	-0.067
2005-06-12 00:00:00	-0.058	-0.066
2005-06-13 00:00:00	-0.075	-0.067
2005-06-14 00:00:00	-0.071	-0.066
2005-06-15 00:00:00	-0.052	-0.067
2005-06-16 00:00:00	-0.062	-0.067
2005-06-17 00:00:00	-0.063	-0.067
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2005-06-25 00:00:00	-0.066	-0.067
2005-06-26 00:00:00	-0.067	-0.067
2005-06-27 00:00:00	-0.073	-0.068
2005-06-28 00:00:00	-0.078	-0.068
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2005-07-02 00:00:00	-0.059	-0.068
2005-07-03 00:00:00	-0.05	-0.068
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2005-07-07 00:00:00	-0.075	-0.067
2005-07-08 00:00:00	-0.078	-0.066
2005-07-09 00:00:00	-0.058	-0.066
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2005-07-11 00:00:00	-0.078	-0.066

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2005-07-18 00:00:00	-0.059	-0.067
2005-07-19 00:00:00	-0.043	-0.067
2005-07-20 00:00:00	-0.064	-0.068
2005-07-21 00:00:00	-0.045	-0.068
2005-07-22 00:00:00	-0.073	-0.069
2005-07-23 00:00:00	-0.07	-0.069
2005-07-24 00:00:00	-0.057	-0.068
2005-07-25 00:00:00	-0.071	-0.069
2005-07-26 00:00:00	-0.066	-0.069
2005-07-27 00:00:00	-0.065	-0.069
2005-07-28 00:00:00	-0.078	-0.068
2005-07-29 00:00:00	-0.073	-0.068
2005-07-30 00:00:00	-0.085	-0.068
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2005-08-02 00:00:00	-0.067	-0.071
2005-08-03 00:00:00	-0.064	-0.07
2005-08-04 00:00:00	-0.075	-0.071
2005-08-05 00:00:00	-0.076	-0.071
2005-08-06 00:00:00	-0.072	-0.071
2005-08-07 00:00:00	-0.071	-0.071
2005-08-08 00:00:00	-0.062	-0.071
2005-08-09 00:00:00	-0.076	-0.072
2005-08-10 00:00:00	-0.084	-0.071
2005-08-11 00:00:00	-0.052	-0.07
2005-08-12 00:00:00	-0.072	-0.07
2005-08-13 00:00:00	-0.065	-0.07
2005-08-14 00:00:00	-0.072	-0.07
2005-08-15 00:00:00	-0.094	-0.07
2005-08-16 00:00:00	-0.088	-0.069
2005-08-17 00:00:00	-0.067	-0.068
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2005-08-19 00:00:00	-0.061	-0.068
2005-08-20 00:00:00	-0.074	-0.068
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2005-08-22 00:00:00	-0.064	-0.068
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2005-08-24 00:00:00	-0.075	-0.068
2005-08-25 00:00:00	-0.053	-0.068
2005-08-26 00:00:00	-0.05	-0.068
2005-08-27 00:00:00	-0.06	-0.068



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2005-08-29 00:00:00	-0.075	-0.069
2005-08-30 00:00:00	-0.066	-0.069
2005-08-31 00:00:00	-0.07	-0.068
2005-09-01 00:00:00	-0.062	-0.068
2005-09-02 00:00:00	-0.06	-0.068
2005-09-03 00:00:00	-0.074	-0.069
2005-09-04 00:00:00	-0.063	-0.069
2005-09-05 00:00:00	-0.079	-0.069
2005-09-06 00:00:00	-0.075	-0.07
2005-09-07 00:00:00	-0.068	-0.07
2005-09-08 00:00:00	-0.073	-0.07
2005-09-09 00:00:00	-0.084	-0.07
2005-09-10 00:00:00	-0.065	-0.07
2005-09-11 00:00:00	-0.069	-0.069
2005-09-12 00:00:00	-0.084	-0.07
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2005-09-16 00:00:00	-0.076	-0.069
2005-09-17 00:00:00	-0.069	-0.069
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2005-09-19 00:00:00	-0.076	-0.07
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2005-09-21 00:00:00	-0.085	-0.07
2005-09-22 00:00:00	-0.076	-0.07
2005-09-23 00:00:00	-0.062	-0.068
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2005-09-25 00:00:00	-0.06	-0.068
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2005-09-27 00:00:00	-0.082	-0.068
2005-09-28 00:00:00	-0.076	-0.068
2005-09-29 00:00:00	-0.075	-0.069
2005-09-30 00:00:00	-0.068	-0.069
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2005-10-03 00:00:00	-0.07	-0.068
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2005-10-06 00:00:00	-0.075	-0.069
2005-10-07 00:00:00	-0.068	-0.068
2005-10-08 00:00:00	-0.032	-0.068
2005-10-09 00:00:00	-0.073	-0.069
2005-10-10 00:00:00	-0.067	-0.069
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2005-10-12 00:00:00	-0.07	-0.071
2005-10-13 00:00:00	-0.094	-0.071

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2005-10-17 00:00:00	-0.038	-0.073
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2005-10-21 00:00:00	-0.088	-0.074
2005-10-22 00:00:00	-0.067	-0.074
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2005-10-24 00:00:00	-0.087	-0.074
2005-10-25 00:00:00	-0.084	-0.074
2005-10-26 00:00:00	-0.075	-0.076
2005-10-27 00:00:00	-0.059	-0.077
2005-10-28 00:00:00	-0.092	-0.077
2005-10-29 00:00:00	-0.085	-0.078
2005-10-30 00:00:00	-0.074	-0.077
2005-10-31 00:00:00	-0.104	-0.078
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2005-11-02 00:00:00	-0.067	-0.081
2005-11-03 00:00:00	-0.073	-0.082
2005-11-04 00:00:00	-0.084	-0.082
2005-11-05 00:00:00	-0.064	-0.083
2005-11-06 00:00:00	-0.07	-0.083
2005-11-07 00:00:00	-0.059	-0.084
2005-11-08 00:00:00	-0.059	-0.085
2005-11-09 00:00:00	-0.082	-0.085
2005-11-10 00:00:00	-0.109	-0.085
2005-11-11 00:00:00	-0.089	-0.086
2005-11-12 00:00:00	-0.088	-0.087
2005-11-13 00:00:00	-0.109	-0.087
2005-11-14 00:00:00	-0.074	-0.087
2005-11-15 00:00:00	-0.098	-0.088
2005-11-16 00:00:00	-0.103	-0.087
2005-11-17 00:00:00	-0.112	-0.088
2005-11-18 00:00:00	-0.087	-0.089
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2005-11-20 00:00:00	-0.096	-0.089
2005-11-21 00:00:00	-0.094	-0.09
2005-11-22 00:00:00	-0.093	-0.091
2005-11-23 00:00:00	-0.098	-0.091
2005-11-24 00:00:00	-0.087	-0.092
2005-11-25 00:00:00	-0.098	-0.093
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2005-11-27 00:00:00	-0.089	-0.092
2005-11-28 00:00:00	-0.089	-0.091
2005-11-29 00:00:00	-0.088	-0.091

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2005-12-02 00:00:00	-0.086	-0.089
2005-12-03 00:00:00	-0.092	-0.088
2005-12-04 00:00:00	-0.088	-0.088
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2005-12-06 00:00:00	-0.086	-0.087
2005-12-07 00:00:00	-0.082	-0.086
2005-12-08 00:00:00	-0.08	-0.086
2005-12-09 00:00:00	-0.095	-0.085
2005-12-10 00:00:00	-0.094	-0.085
2005-12-11 00:00:00	-0.084	-0.084
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2005-12-15 00:00:00	-0.081	-0.082
2005-12-16 00:00:00	-0.076	-0.082
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2005-12-18 00:00:00	-0.08	-0.08
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2005-12-20 00:00:00	-0.092	-0.081
2005-12-21 00:00:00	-0.094	-0.08
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2005-12-24 00:00:00	-0.09	-0.08
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2005-12-30 00:00:00	-0.072	-0.078
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2006-01-02 00:00:00	-0.066	-0.078
2006-01-03 00:00:00	-0.094	-0.078
2006-01-04 00:00:00	-0.094	-0.078
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2006-01-06 00:00:00	-0.086	-0.077
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2006-01-22 00:00:00	-0.078	-0.076
2006-01-23 00:00:00	-0.076	-0.077
2006-01-24 00:00:00	-0.069	-0.078
2006-01-25 00:00:00	-0.073	-0.078
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2006-01-27 00:00:00	-0.073	-0.079
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2006-02-09 00:00:00	-0.084	-0.08
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2006-02-15 00:00:00	-0.077	-0.079
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2006-02-17 00:00:00	-0.085	-0.082
2006-02-18 00:00:00	-0.073	-0.083
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2006-02-22 00:00:00	-0.07	-0.083
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2006-03-10 00:00:00	-0.07	-0.081
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2006-04-02 00:00:00	-0.083	-0.078
2006-04-03 00:00:00	-0.086	-0.079
2006-04-04 00:00:00	-0.081	-0.079
2006-04-05 00:00:00	-0.078	-0.078
2006-04-06 00:00:00	-0.065	-0.078
2006-04-07 00:00:00	-0.077	-0.078
2006-04-08 00:00:00	-0.066	-0.077
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2006-04-10 00:00:00	-0.064	-0.076
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2006-04-13 00:00:00	-0.074	-0.076
2006-04-14 00:00:00	-0.07	-0.076
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2006-04-17 00:00:00	-0.068	-0.077
2006-04-18 00:00:00	-0.08	-0.078
2006-04-19 00:00:00	-0.08	-0.078

2006-04-20 00:00:00	-0.063	-0.078
2006-04-21 00:00:00	-0.073	-0.078
2006-04-22 00:00:00	-0.08	-0.079
2006-04-23 00:00:00	-0.069	-0.079
2006-04-24 00:00:00	-0.087	-0.08
2006-04-25 00:00:00	-0.073	-0.081
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2006-04-27 00:00:00	-0.08	-0.081
2006-04-28 00:00:00	-0.079	-0.081
2006-04-29 00:00:00	-0.08	-0.083
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2006-05-02 00:00:00	-0.088	-0.085
2006-05-03 00:00:00	-0.09	-0.085
2006-05-04 00:00:00	-0.089	-0.086
2006-05-05 00:00:00	-0.085	-0.086
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2006-05-07 00:00:00	-0.09	-0.087
2006-05-08 00:00:00	-0.086	-0.088
2006-05-09 00:00:00	-0.096	-0.088
2006-05-10 00:00:00	-0.099	-0.088
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2006-05-15 00:00:00	-0.115	-0.088
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2006-05-19 00:00:00	-0.097	-0.087
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2006-05-22 00:00:00	-0.086	-0.086
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2006-05-25 00:00:00	-0.065	-0.085
2006-05-26 00:00:00	-0.083	-0.084
2006-05-27 00:00:00	-0.065	-0.084
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2006-05-30 00:00:00	-0.09	-0.083
2006-05-31 00:00:00	-0.09	-0.081
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2006-06-02 00:00:00	-0.064	-0.081
2006-06-03 00:00:00	-0.073	-0.081
2006-06-04 00:00:00	-0.062	-0.081
2006-06-05 00:00:00	-0.085	-0.081

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2006-06-07 00:00:00	-0.079	-0.081
2006-06-08 00:00:00	-0.079	-0.079
2006-06-09 00:00:00	-0.094	-0.079
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2006-06-13 00:00:00	-0.081	-0.081
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2006-06-17 00:00:00	-0.085	-0.081
2006-06-18 00:00:00	-0.079	-0.082
2006-06-19 00:00:00	-0.092	-0.082
2006-06-20 00:00:00	-0.072	-0.083
2006-06-21 00:00:00	-0.082	-0.083
2006-06-22 00:00:00	-0.095	-0.084
2006-06-23 00:00:00	-0.058	-0.084
2006-06-24 00:00:00	-0.085	-0.084
2006-06-25 00:00:00	-0.084	-0.084
2006-06-26 00:00:00	-0.089	-0.083
2006-06-27 00:00:00	-0.077	-0.084
2006-06-28 00:00:00	-0.091	-0.083
2006-06-29 00:00:00	-0.087	-0.083
2006-06-30 00:00:00	-0.094	-0.083
2006-07-01 00:00:00	-0.067	-0.083
2006-07-02 00:00:00	-0.098	-0.084
2006-07-03 00:00:00	-0.102	-0.084
2006-07-04 00:00:00	-0.07	-0.084
2006-07-05 00:00:00	-0.107	-0.084
2006-07-06 00:00:00	-0.084	-0.085
2006-07-07 00:00:00	-0.087	-0.086
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2006-07-10 00:00:00	-0.076	-0.087
2006-07-11 00:00:00	-0.073	-0.086
2006-07-12 00:00:00	-0.088	-0.086
2006-07-13 00:00:00	-0.072	-0.086
2006-07-14 00:00:00	-0.081	-0.086
2006-07-15 00:00:00	-0.085	-0.086
2006-07-16 00:00:00	-0.076	-0.085
2006-07-17 00:00:00	-0.083	-0.086
2006-07-18 00:00:00	-0.095	-0.085
2006-07-19 00:00:00	-0.092	-0.085
2006-07-20 00:00:00	-0.082	-0.085
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2006-07-22 00:00:00	-0.1	-0.085

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2006-07-25 00:00:00	-0.099	-0.085
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2006-07-27 00:00:00	-0.086	-0.085
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2006-07-29 00:00:00	-0.079	-0.085
2006-07-30 00:00:00	-0.088	-0.085
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2006-08-01 00:00:00	-0.076	-0.084
2006-08-02 00:00:00	-0.086	-0.085
2006-08-03 00:00:00	-0.094	-0.085
2006-08-04 00:00:00	-0.08	-0.085
2006-08-05 00:00:00	-0.092	-0.084
2006-08-06 00:00:00	-0.085	-0.083
2006-08-07 00:00:00	-0.091	-0.083
2006-08-08 00:00:00	-0.091	-0.084
2006-08-09 00:00:00	-0.075	-0.083
2006-08-10 00:00:00	-0.074	-0.083
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2006-08-17 00:00:00	-0.092	-0.084
2006-08-18 00:00:00	-0.094	-0.084
2006-08-19 00:00:00	-0.092	-0.084
2006-08-20 00:00:00	-0.073	-0.084
2006-08-21 00:00:00	-0.073	-0.084
2006-08-22 00:00:00	-0.075	-0.084
2006-08-23 00:00:00	-0.1	-0.085
2006-08-24 00:00:00	-0.094	-0.084
2006-08-25 00:00:00	-0.092	-0.085
2006-08-26 00:00:00	-0.071	-0.086
2006-08-27 00:00:00	-0.09	-0.086
2006-08-28 00:00:00	-0.081	-0.086
2006-08-29 00:00:00	-0.089	-0.086
2006-08-30 00:00:00	-0.085	-0.086
2006-08-31 00:00:00	-0.09	-0.087
2006-09-01 00:00:00	-0.083	-0.087
2006-09-02 00:00:00	-0.096	-0.088
2006-09-03 00:00:00	-0.077	-0.087
2006-09-04 00:00:00	-0.086	-0.088
2006-09-05 00:00:00	-0.09	-0.088
2006-09-06 00:00:00	-0.094	-0.089
2006-09-07 00:00:00	-0.101	-0.089



2006-09-08 00:00:00	-0.082	-0.089
2006-09-09 00:00:00	-0.092	-0.089
2006-09-10 00:00:00	-0.098	-0.089
2006-09-11 00:00:00	-0.095	-0.091
2006-09-12 00:00:00	-0.091	-0.092
2006-09-13 00:00:00	-0.087	-0.092
2006-09-14 00:00:00	-0.081	-0.093
2006-09-15 00:00:00	-0.083	-0.093
2006-09-16 00:00:00	-0.078	-0.093
2006-09-17 00:00:00	-0.1	-0.093
2006-09-18 00:00:00	-0.084	-0.093
2006-09-19 00:00:00	-0.102	-0.094
2006-09-20 00:00:00	-0.086	-0.094
2006-09-21 00:00:00	-0.097	-0.094
2006-09-22 00:00:00	-0.074	-0.095
2006-09-23 00:00:00	-0.1	-0.095
2006-09-24 00:00:00	-0.107	-0.095
2006-09-25 00:00:00	-0.102	-0.095
2006-09-26 00:00:00	-0.107	-0.096
2006-09-27 00:00:00	-0.12	-0.096
2006-09-28 00:00:00	-0.102	-0.096
2006-09-29 00:00:00	-0.106	-0.096
2006-09-30 00:00:00	-0.095	-0.095
2006-10-01 00:00:00	-0.09	-0.095
2006-10-02 00:00:00	-0.092	-0.095
2006-10-03 00:00:00	-0.095	-0.095
2006-10-04 00:00:00	-0.086	-0.096
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2007-08-02 00:00:00	-0.093	-0.098

2007-08-03 00:00:00	-0.099	-0.098
2007-08-04 00:00:00	-0.096	-0.098
2007-08-05 00:00:00	-0.085	-0.099
2007-08-06 00:00:00	-0.095	-0.099
2007-08-07 00:00:00	-0.094	-0.1
2007-08-08 00:00:00	-0.092	-0.1
2007-08-09 00:00:00	-0.102	-0.102
2007-08-10 00:00:00	-0.106	-0.103
2007-08-11 00:00:00	-0.116	-0.103
2007-08-12 00:00:00	-0.101	-0.103
2007-08-13 00:00:00	-0.103	-0.103
2007-08-14 00:00:00	-0.09	-0.105
2007-08-15 00:00:00	-0.109	-0.106
2007-08-16 00:00:00	-0.109	-0.107
2007-08-17 00:00:00	-0.116	-0.109
2007-08-18 00:00:00	-0.104	-0.109
2007-08-19 00:00:00	-0.11	-0.111
2007-08-20 00:00:00	-0.12	-0.112
2007-08-21 00:00:00	-0.107	-0.113
2007-08-22 00:00:00	-0.099	-0.115
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2007-08-24 00:00:00	-0.137	-0.117
2007-08-25 00:00:00	-0.138	-0.118
2007-08-26 00:00:00	-0.102	-0.119
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2007-09-02 00:00:00	-0.106	-0.123
2007-09-03 00:00:00	-0.14	-0.124
2007-09-04 00:00:00	-0.126	-0.125
2007-09-05 00:00:00	-0.125	-0.124
2007-09-06 00:00:00	-0.141	-0.125
2007-09-07 00:00:00	-0.149	-0.126
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2007-10-25 00:00:00	-0.139	-0.129
2007-10-26 00:00:00	-0.134	-0.129
2007-10-27 00:00:00	-0.156	-0.13
2007-10-28 00:00:00	-0.134	-0.131
2007-10-29 00:00:00	-0.14	-0.132
2007-10-30 00:00:00	-0.133	-0.133
2007-10-31 00:00:00	-0.141	-0.134
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2007-11-02 00:00:00	-0.136	-0.135
2007-11-03 00:00:00	-0.143	-0.137
2007-11-04 00:00:00	-0.134	-0.138
2007-11-05 00:00:00	-0.142	-0.139

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2007-11-07 00:00:00	-0.145	-0.14
2007-11-08 00:00:00	-0.154	-0.14
2007-11-09 00:00:00	-0.122	-0.14
2007-11-10 00:00:00	-0.13	-0.14
2007-11-11 00:00:00	-0.146	-0.141
2007-11-12 00:00:00	-0.144	-0.141
2007-11-13 00:00:00	-0.145	-0.141
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2007-11-15 00:00:00	-0.144	-0.141
2007-11-16 00:00:00	-0.13	-0.141
2007-11-17 00:00:00	-0.132	-0.141
2007-11-18 00:00:00	-0.139	-0.142
2007-11-19 00:00:00	-0.149	-0.142
2007-11-20 00:00:00	-0.146	-0.141
2007-11-21 00:00:00	-0.149	-0.14
2007-11-22 00:00:00	-0.155	-0.139
2007-11-23 00:00:00	-0.142	-0.138
2007-11-24 00:00:00	-0.135	-0.137
2007-11-25 00:00:00	-0.138	-0.137
2007-11-26 00:00:00	-0.158	-0.138
2007-11-27 00:00:00	-0.141	-0.138
2007-11-28 00:00:00	-0.146	-0.137
2007-11-29 00:00:00	-0.14	-0.137
2007-11-30 00:00:00	-0.129	-0.137
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2007-12-03 00:00:00	-0.144	-0.136
2007-12-04 00:00:00	-0.143	-0.136
2007-12-05 00:00:00	-0.111	-0.135
2007-12-06 00:00:00	-0.099	-0.135
2007-12-07 00:00:00	-0.115	-0.134
2007-12-08 00:00:00	-0.121	-0.134
2007-12-09 00:00:00	-0.128	-0.134
2007-12-10 00:00:00	-0.136	-0.134
2007-12-11 00:00:00	-0.139	-0.133
2007-12-12 00:00:00	-0.148	-0.132
2007-12-13 00:00:00	-0.131	-0.132
2007-12-14 00:00:00	-0.133	-0.131
2007-12-15 00:00:00	-0.133	-0.131
2007-12-16 00:00:00	-0.12	-0.131
2007-12-17 00:00:00	-0.133	-0.13
2007-12-18 00:00:00	-0.132	-0.13
2007-12-19 00:00:00	-0.12	-0.129
2007-12-20 00:00:00	-0.138	-0.128
2007-12-21 00:00:00	-0.123	-0.128
2007-12-22 00:00:00	-0.137	-0.129

2007-12-23 00:00:00	-0.16	-0.128
2007-12-24 00:00:00	-0.141	-0.129
2007-12-25 00:00:00	-0.121	-0.129
2007-12-26 00:00:00	-0.114	-0.129
2007-12-27 00:00:00	-0.129	-0.129
2007-12-28 00:00:00	-0.125	-0.128
2007-12-29 00:00:00	-0.132	-0.128
2007-12-30 00:00:00	-0.132	-0.128
2007-12-31 00:00:00	-0.117	-0.127
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2008-01-02 00:00:00	-0.127	-0.127
2008-01-03 00:00:00	-0.11	-0.127
2008-01-04 00:00:00	-0.112	-0.127
2008-01-05 00:00:00	-0.121	-0.127
2008-01-06 00:00:00	-0.118	-0.127
2008-01-07 00:00:00	-0.112	-0.127
2008-01-08 00:00:00	-0.131	-0.126
2008-01-09 00:00:00	-0.137	-0.125
2008-01-10 00:00:00	-0.136	-0.126
2008-01-11 00:00:00	-0.124	-0.127
2008-01-12 00:00:00	-0.128	-0.127
2008-01-13 00:00:00	-0.123	-0.126
2008-01-14 00:00:00	-0.136	-0.126
2008-01-15 00:00:00	-0.113	-0.126
2008-01-16 00:00:00	-0.121	-0.126
2008-01-17 00:00:00	-0.123	-0.126
2008-01-18 00:00:00	-0.131	-0.125
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2008-01-20 00:00:00	-0.133	-0.125
2008-01-21 00:00:00	-0.126	-0.124
2008-01-22 00:00:00	-0.125	-0.125
2008-01-23 00:00:00	-0.139	-0.125
2008-01-24 00:00:00	-0.121	-0.124
2008-01-25 00:00:00	-0.134	-0.124
2008-01-26 00:00:00	-0.147	-0.124
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2008-01-28 00:00:00	-0.114	-0.123
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2008-01-30 00:00:00	-0.118	-0.122
2008-01-31 00:00:00	-0.131	-0.122
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2008-02-02 00:00:00	-0.119	-0.122
2008-02-03 00:00:00	-0.111	-0.122
2008-02-04 00:00:00	-0.092	-0.122
2008-02-05 00:00:00	-0.112	-0.121
2008-02-06 00:00:00	-0.13	-0.12
2008-02-07 00:00:00	-0.127	-0.12

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2008-02-09 00:00:00	-0.128	-0.119
2008-02-10 00:00:00	-0.117	-0.118
2008-02-11 00:00:00	-0.119	-0.118
2008-02-12 00:00:00	-0.122	-0.117
2008-02-13 00:00:00	-0.098	-0.117
2008-02-14 00:00:00	-0.119	-0.117
2008-02-15 00:00:00	-0.12	-0.117
2008-02-16 00:00:00	-0.128	-0.116
2008-02-17 00:00:00	-0.121	-0.116
2008-02-18 00:00:00	-0.123	-0.116
2008-02-19 00:00:00	-0.116	-0.117
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2008-02-22 00:00:00	-0.122	-0.117
2008-02-23 00:00:00	-0.105	-0.117
2008-02-24 00:00:00	-0.109	-0.118
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2008-02-26 00:00:00	-0.131	-0.117
2008-02-27 00:00:00	-0.122	-0.117
2008-02-28 00:00:00	-0.105	-0.117
2008-02-29 00:00:00	-0.116	-0.117
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2008-03-02 00:00:00	-0.112	-0.117
2008-03-03 00:00:00	-0.124	-0.117
2008-03-04 00:00:00	-0.12	-0.117
2008-03-05 00:00:00	-0.121	-0.117
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2008-03-07 00:00:00	-0.128	-0.119
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2008-03-12 00:00:00	-0.122	-0.122
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2008-03-16 00:00:00	-0.118	-0.124
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2008-04-02 00:00:00	-0.127	-0.128
2008-04-03 00:00:00	-0.133	-0.128
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2008-04-05 00:00:00	-0.124	-0.128
2008-04-06 00:00:00	-0.124	-0.128
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2008-04-18 00:00:00	-0.134	-0.127
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2008-04-22 00:00:00	-0.136	-0.127
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2008-04-25 00:00:00	-0.129	-0.126
2008-04-26 00:00:00	-0.114	-0.126
2008-04-27 00:00:00	-0.132	-0.126
2008-04-28 00:00:00	-0.124	-0.126
2008-04-29 00:00:00	-0.141	-0.127
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2008-05-05 00:00:00	-0.128	-0.126
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2008-05-17 00:00:00	-0.119	-0.123
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2008-06-02 00:00:00	-0.117	-0.118
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2008-06-06 00:00:00	-0.13	-0.117
2008-06-07 00:00:00	-0.105	-0.117
2008-06-08 00:00:00	-0.116	-0.117
2008-06-09 00:00:00	-0.126	-0.117
2008-06-10 00:00:00	-0.108	-0.117
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2008-06-12 00:00:00	-0.114	-0.117
2008-06-13 00:00:00	-0.124	-0.118
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2008-06-17 00:00:00	-0.099	-0.12
2008-06-18 00:00:00	-0.116	-0.12
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2008-06-26 00:00:00	-0.115	-0.123
2008-06-27 00:00:00	-0.135	-0.123

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2008-07-06 00:00:00	-0.118	-0.123
2008-07-07 00:00:00	-0.145	-0.124
2008-07-08 00:00:00	-0.128	-0.124
2008-07-09 00:00:00	-0.114	-0.124
2008-07-10 00:00:00	-0.117	-0.125
2008-07-11 00:00:00	-0.119	-0.125
2008-07-12 00:00:00	-0.128	-0.125
2008-07-13 00:00:00	-0.119	-0.124
2008-07-14 00:00:00	-0.091	-0.123
2008-07-15 00:00:00	-0.112	-0.123
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2008-07-18 00:00:00	-0.127	-0.122
2008-07-19 00:00:00	-0.105	-0.122
2008-07-20 00:00:00	-0.116	-0.122
2008-07-21 00:00:00	-0.096	-0.122
2008-07-22 00:00:00	-0.126	-0.122
2008-07-23 00:00:00	-0.125	-0.122
2008-07-24 00:00:00	-0.122	-0.122
2008-07-25 00:00:00	-0.137	-0.123
2008-07-26 00:00:00	-0.123	-0.123
2008-07-27 00:00:00	-0.125	-0.123
2008-07-28 00:00:00	-0.107	-0.123
2008-07-29 00:00:00	-0.125	-0.123
2008-07-30 00:00:00	-0.147	-0.125
2008-07-31 00:00:00	-0.122	-0.126
2008-08-01 00:00:00	-0.118	-0.126
2008-08-02 00:00:00	-0.126	-0.126
2008-08-03 00:00:00	-0.119	-0.126
2008-08-04 00:00:00	-0.127	-0.127
2008-08-05 00:00:00	-0.144	-0.127
2008-08-06 00:00:00	-0.121	-0.129
2008-08-07 00:00:00	-0.124	-0.129
2008-08-08 00:00:00	-0.144	-0.129
2008-08-09 00:00:00	-0.127	-0.13
2008-08-10 00:00:00	-0.116	-0.13
2008-08-11 00:00:00	-0.127	-0.131
2008-08-12 00:00:00	-0.124	-0.132
2008-08-13 00:00:00	-0.127	-0.133

2008-08-14 00:00:00	-0.157	-0.133
2008-08-15 00:00:00	-0.127	-0.132
2008-08-16 00:00:00	-0.139	-0.132
2008-08-17 00:00:00	-0.145	-0.132
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2008-08-19 00:00:00	-0.135	-0.133
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2008-08-22 00:00:00	-0.146	-0.132
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2008-08-24 00:00:00	-0.15	-0.131
2008-08-25 00:00:00	-0.131	-0.131
2008-08-26 00:00:00	-0.147	-0.131
2008-08-27 00:00:00	-0.153	-0.131
2008-08-28 00:00:00	-0.147	-0.131
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2008-08-30 00:00:00	-0.11	-0.13
2008-08-31 00:00:00	-0.116	-0.13
2008-09-01 00:00:00	-0.131	-0.129
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2008-09-03 00:00:00	-0.137	-0.129
2008-09-04 00:00:00	-0.123	-0.129
2008-09-05 00:00:00	-0.127	-0.13
2008-09-06 00:00:00	-0.107	-0.129
2008-09-07 00:00:00	-0.119	-0.128
2008-09-08 00:00:00	-0.123	-0.128
2008-09-09 00:00:00	-0.119	-0.126
2008-09-10 00:00:00	-0.117	-0.126
2008-09-11 00:00:00	-0.126	-0.126
2008-09-12 00:00:00	-0.127	-0.125
2008-09-13 00:00:00	-0.129	-0.125
2008-09-14 00:00:00	-0.125	-0.125
2008-09-15 00:00:00	-0.127	-0.126
2008-09-16 00:00:00	-0.124	-0.126
2008-09-17 00:00:00	-0.138	-0.126
2008-09-18 00:00:00	-0.129	-0.126
2008-09-19 00:00:00	-0.144	-0.125
2008-09-20 00:00:00	-0.131	-0.125
2008-09-21 00:00:00	-0.115	-0.126
2008-09-22 00:00:00	-0.109	-0.127
2008-09-23 00:00:00	-0.108	-0.127
2008-09-24 00:00:00	-0.113	-0.128
2008-09-25 00:00:00	-0.125	-0.128
2008-09-26 00:00:00	-0.13	-0.129
2008-09-27 00:00:00	-0.128	-0.13
2008-09-28 00:00:00	-0.145	-0.131
2008-09-29 00:00:00	-0.142	-0.131



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2008-10-01 00:00:00	-0.13	-0.133
2008-10-02 00:00:00	-0.129	-0.133
2008-10-03 00:00:00	-0.13	-0.134
2008-10-04 00:00:00	-0.111	-0.135
2008-10-05 00:00:00	-0.13	-0.135
2008-10-06 00:00:00	-0.138	-0.135
2008-10-07 00:00:00	-0.14	-0.135
2008-10-08 00:00:00	-0.131	-0.137
2008-10-09 00:00:00	-0.141	-0.138
2008-10-10 00:00:00	-0.131	-0.138
2008-10-11 00:00:00	-0.14	-0.139
2008-10-12 00:00:00	-0.146	-0.14
2008-10-13 00:00:00	-0.154	-0.14
2008-10-14 00:00:00	-0.151	-0.141
2008-10-15 00:00:00	-0.148	-0.141
2008-10-16 00:00:00	-0.158	-0.141
2008-10-17 00:00:00	-0.139	-0.14
2008-10-18 00:00:00	-0.153	-0.14
2008-10-19 00:00:00	-0.147	-0.14
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2008-10-21 00:00:00	-0.137	-0.141
2008-10-22 00:00:00	-0.137	-0.142
2008-10-23 00:00:00	-0.145	-0.141
2008-10-24 00:00:00	-0.144	-0.141
2008-10-25 00:00:00	-0.13	-0.14
2008-10-26 00:00:00	-0.149	-0.14
2008-10-27 00:00:00	-0.155	-0.14
2008-10-28 00:00:00	-0.143	-0.139
2008-10-29 00:00:00	-0.152	-0.137
2008-10-30 00:00:00	-0.139	-0.136
2008-10-31 00:00:00	-0.15	-0.135
2008-11-01 00:00:00	-0.101	-0.134
2008-11-02 00:00:00	-0.133	-0.134
2008-11-03 00:00:00	-0.123	-0.133
2008-11-04 00:00:00	-0.135	-0.133
2008-11-05 00:00:00	-0.139	-0.133
2008-11-06 00:00:00	-0.151	-0.132
2008-11-07 00:00:00	-0.138	-0.132
2008-11-08 00:00:00	-0.124	-0.131
2008-11-09 00:00:00	-0.096	-0.13
2008-11-10 00:00:00	-0.129	-0.13
2008-11-11 00:00:00	-0.134	-0.129
2008-11-12 00:00:00	-0.138	-0.129
2008-11-13 00:00:00	-0.097	-0.129
2008-11-14 00:00:00	-0.101	-0.128
2008-11-15 00:00:00	-0.126	-0.128

2008-11-16 00:00:00	-0.129	-0.127
2008-11-17 00:00:00	-0.13	-0.128
2008-11-18 00:00:00	-0.135	-0.128
2008-11-19 00:00:00	-0.137	-0.129
2008-11-20 00:00:00	-0.141	-0.13
2008-11-21 00:00:00	-0.12	-0.13
2008-11-22 00:00:00	-0.125	-0.13
2008-11-23 00:00:00	-0.123	-0.13
2008-11-24 00:00:00	-0.117	-0.13
2008-11-25 00:00:00	-0.105	-0.132
2008-11-26 00:00:00	-0.122	-0.132
2008-11-27 00:00:00	-0.165	-0.131
2008-11-28 00:00:00	-0.146	-0.13
2008-11-29 00:00:00	-0.131	-0.13
2008-11-30 00:00:00	-0.129	-0.131
2008-12-01 00:00:00	-0.126	-0.131
2008-12-02 00:00:00	-0.129	-0.131
2008-12-03 00:00:00	-0.137	-0.13
2008-12-04 00:00:00	-0.153	-0.13
2008-12-05 00:00:00	-0.147	-0.131
2008-12-06 00:00:00	-0.149	-0.13
2008-12-07 00:00:00	-0.138	-0.13
2008-12-08 00:00:00	-0.136	-0.13
2008-12-09 00:00:00	-0.137	-0.129
2008-12-10 00:00:00	-0.145	-0.129
2008-12-11 00:00:00	-0.134	-0.13
2008-12-12 00:00:00	-0.101	-0.13
2008-12-13 00:00:00	-0.108	-0.129
2008-12-14 00:00:00	-0.121	-0.128
2008-12-15 00:00:00	-0.105	-0.128
2008-12-16 00:00:00	-0.13	-0.128
2008-12-17 00:00:00	-0.136	-0.129
2008-12-18 00:00:00	-0.108	-0.129
2008-12-19 00:00:00	-0.136	-0.128
2008-12-20 00:00:00	-0.15	-0.127
2008-12-21 00:00:00	-0.125	-0.126
2008-12-22 00:00:00	-0.12	-0.125
2008-12-23 00:00:00	-0.117	-0.124
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2008-12-25 00:00:00	-0.116	-0.124
2008-12-26 00:00:00	-0.122	-0.124
2008-12-27 00:00:00	-0.125	-0.124
2008-12-28 00:00:00	-0.121	-0.125
2008-12-29 00:00:00	-0.139	-0.126
2008-12-30 00:00:00	-0.131	-0.126
2008-12-31 00:00:00	-0.129	-0.127
2009-01-01 00:00:00	-0.135	-0.127

2009-01-02 00:00:00	-0.131	-0.127
2009-01-03 00:00:00	-0.119	-0.128
2009-01-04 00:00:00	-0.129	-0.127
2009-01-05 00:00:00	-0.116	-0.126
2009-01-06 00:00:00	-0.109	-0.126
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2009-01-08 00:00:00	-0.14	-0.127
2009-01-09 00:00:00	-0.125	-0.128
2009-01-10 00:00:00	-0.149	-0.129
2009-01-11 00:00:00	-0.136	-0.129
2009-01-12 00:00:00	-0.141	-0.129
2009-01-13 00:00:00	-0.126	-0.129
2009-01-14 00:00:00	-0.127	-0.129
2009-01-15 00:00:00	-0.13	-0.129
2009-01-16 00:00:00	-0.127	-0.129
2009-01-17 00:00:00	-0.127	-0.129
2009-01-18 00:00:00	-0.136	-0.129
2009-01-19 00:00:00	-0.131	-0.13
2009-01-20 00:00:00	-0.12	-0.13
2009-01-21 00:00:00	-0.119	-0.131
2009-01-22 00:00:00	-0.135	-0.132
2009-01-23 00:00:00	-0.132	-0.133
2009-01-24 00:00:00	-0.146	-0.133
2009-01-25 00:00:00	-0.129	-0.133
2009-01-26 00:00:00	-0.114	-0.132
2009-01-27 00:00:00	-0.136	-0.133
2009-01-28 00:00:00	-0.132	-0.133
2009-01-29 00:00:00	-0.138	-0.134
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2009-02-03 00:00:00	-0.14	-0.135
2009-02-04 00:00:00	-0.135	-0.136
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2009-02-06 00:00:00	-0.141	-0.138
2009-02-07 00:00:00	-0.135	-0.139
2009-02-08 00:00:00	-0.141	-0.139
2009-02-09 00:00:00	-0.123	-0.139
2009-02-10 00:00:00	-0.135	-0.139
2009-02-11 00:00:00	-0.153	-0.14
2009-02-12 00:00:00	-0.157	-0.14
2009-02-13 00:00:00	-0.147	-0.141
2009-02-14 00:00:00	-0.14	-0.141
2009-02-15 00:00:00	-0.134	-0.141
2009-02-16 00:00:00	-0.135	-0.142
2009-02-17 00:00:00	-0.137	-0.141

2009-02-18 00:00:00	-0.143	-0.142
2009-02-19 00:00:00	-0.148	-0.142
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2009-02-22 00:00:00	-0.167	-0.143
2009-02-23 00:00:00	-0.135	-0.143
2009-02-24 00:00:00	-0.157	-0.143
2009-02-25 00:00:00	-0.123	-0.144
2009-02-26 00:00:00	-0.149	-0.145
2009-02-27 00:00:00	-0.139	-0.144
2009-02-28 00:00:00	-0.143	-0.143
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2009-03-02 00:00:00	-0.137	-0.144
2009-03-03 00:00:00	-0.144	-0.145
2009-03-04 00:00:00	-0.124	-0.145
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2009-03-08 00:00:00	-0.15	-0.146
2009-03-09 00:00:00	-0.148	-0.146
2009-03-10 00:00:00	-0.137	-0.146
2009-03-11 00:00:00	-0.156	-0.146
2009-03-12 00:00:00	-0.153	-0.146
2009-03-13 00:00:00	-0.155	-0.147
2009-03-14 00:00:00	-0.132	-0.147
2009-03-15 00:00:00	-0.132	-0.147
2009-03-16 00:00:00	-0.152	-0.147
2009-03-17 00:00:00	-0.161	-0.148
2009-03-18 00:00:00	-0.149	-0.149
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2009-03-20 00:00:00	-0.156	-0.149
2009-03-21 00:00:00	-0.16	-0.15
2009-03-22 00:00:00	-0.144	-0.15
2009-03-23 00:00:00	-0.152	-0.151
2009-03-24 00:00:00	-0.151	-0.151
2009-03-25 00:00:00	-0.153	-0.152
2009-03-26 00:00:00	-0.144	-0.152
2009-03-27 00:00:00	-0.152	-0.151
2009-03-28 00:00:00	-0.15	-0.151
2009-03-29 00:00:00	-0.136	-0.151
2009-03-30 00:00:00	-0.143	-0.151
2009-03-31 00:00:00	-0.156	-0.152
2009-04-01 00:00:00	-0.158	-0.152
2009-04-02 00:00:00	-0.159	-0.152
2009-04-03 00:00:00	-0.136	-0.152
2009-04-04 00:00:00	-0.16	
2009-04-05 00:00:00	-0.163	

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2009-04-07 00:00:00	-0.175	
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2009-04-27 00:00:00	-0.153	
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2009-05-03 00:00:00	-0.146	
2009-05-04 00:00:00	-0.116	
2009-05-05 00:00:00	-0.124	
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2009-05-08 00:00:00	-0.132	
2009-05-09 00:00:00	-0.142	
2009-05-10 00:00:00	-0.144	-0.143
2009-05-11 00:00:00	-0.135	-0.142
2009-05-12 00:00:00	-0.139	-0.143
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2009-05-14 00:00:00	-0.14	-0.143
2009-05-15 00:00:00	-0.143	-0.143
2009-05-16 00:00:00	-0.14	-0.143
2009-05-17 00:00:00	-0.142	-0.144
2009-05-18 00:00:00	-0.141	-0.144
2009-05-19 00:00:00	-0.156	-0.143
2009-05-20 00:00:00	-0.149	-0.145
2009-05-21 00:00:00	-0.145	-0.145
2009-05-22 00:00:00	-0.146	-0.145
2009-05-23 00:00:00	-0.135	-0.145
2009-05-24 00:00:00	-0.155	-0.145
2009-05-25 00:00:00	-0.146	-0.145
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2009-05-27 00:00:00	-0.159	-0.144
2009-05-28 00:00:00	-0.171	-0.144

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2009-05-30 00:00:00	-0.138	-0.144
2009-05-31 00:00:00	-0.159	-0.144
2009-06-01 00:00:00	-0.159	-0.144
2009-06-02 00:00:00	-0.134	-0.144
2009-06-03 00:00:00	-0.132	-0.144
2009-06-04 00:00:00	-0.16	-0.144
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2009-06-06 00:00:00	-0.136	-0.143
2009-06-07 00:00:00	-0.137	-0.143
2009-06-08 00:00:00	-0.139	-0.143
2009-06-09 00:00:00	-0.132	-0.142
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2009-06-12 00:00:00	-0.137	-0.14
2009-06-13 00:00:00	-0.154	-0.138
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2009-06-15 00:00:00	-0.138	-0.137
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2009-06-18 00:00:00	-0.133	-0.135
2009-06-19 00:00:00	-0.142	-0.135
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2009-06-22 00:00:00	-0.142	-0.134
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2009-06-24 00:00:00	-0.12	-0.134
2009-06-25 00:00:00	-0.098	-0.135
2009-06-26 00:00:00	-0.133	-0.135
2009-06-27 00:00:00	-0.156	-0.136
2009-06-28 00:00:00	-0.126	-0.136
2009-06-29 00:00:00	-0.104	-0.135
2009-06-30 00:00:00	-0.125	-0.135
2009-07-01 00:00:00	-0.131	-0.136
2009-07-02 00:00:00	-0.129	-0.136
2009-07-03 00:00:00	-0.131	-0.136
2009-07-04 00:00:00	-0.138	-0.136
2009-07-05 00:00:00	-0.137	-0.136
2009-07-06 00:00:00	-0.134	-0.137
2009-07-07 00:00:00	-0.151	-0.136
2009-07-08 00:00:00	-0.127	-0.136
2009-07-09 00:00:00	-0.154	-0.136
2009-07-10 00:00:00	-0.138	-0.137
2009-07-11 00:00:00	-0.148	-0.139
2009-07-12 00:00:00	-0.146	-0.14
2009-07-13 00:00:00	-0.131	-0.14
2009-07-14 00:00:00	-0.139	-0.14

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2009-07-16 00:00:00	-0.142	-0.143
2009-07-17 00:00:00	-0.14	-0.144
2009-07-18 00:00:00	-0.16	-0.145
2009-07-19 00:00:00	-0.151	-0.146
2009-07-20 00:00:00	-0.138	-0.147
2009-07-21 00:00:00	-0.144	-0.148
2009-07-22 00:00:00	-0.12	-0.149
2009-07-23 00:00:00	-0.135	-0.15
2009-07-24 00:00:00	-0.136	-0.152
2009-07-25 00:00:00	-0.154	-0.152
2009-07-26 00:00:00	-0.145	-0.153
2009-07-27 00:00:00	-0.17	-0.154
2009-07-28 00:00:00	-0.148	-0.154
2009-07-29 00:00:00	-0.153	-0.155
2009-07-30 00:00:00	-0.141	-0.155
2009-07-31 00:00:00	-0.159	-0.155
2009-08-01 00:00:00	-0.174	-0.156
2009-08-02 00:00:00	-0.162	-0.157
2009-08-03 00:00:00	-0.163	-0.157
2009-08-04 00:00:00	-0.162	-0.157
2009-08-05 00:00:00	-0.158	-0.158
2009-08-06 00:00:00	-0.182	-0.159
2009-08-07 00:00:00	-0.181	-0.16
2009-08-08 00:00:00	-0.177	-0.161
2009-08-09 00:00:00	-0.174	-0.162
2009-08-10 00:00:00	-0.17	-0.162
2009-08-11 00:00:00	-0.156	-0.163
2009-08-12 00:00:00	-0.151	-0.163
2009-08-13 00:00:00	-0.168	-0.163
2009-08-14 00:00:00	-0.151	-0.164
2009-08-15 00:00:00	-0.155	-0.164
2009-08-16 00:00:00	-0.173	-0.164
2009-08-17 00:00:00	-0.168	-0.164
2009-08-18 00:00:00	-0.162	-0.164
2009-08-19 00:00:00	-0.141	-0.163
2009-08-20 00:00:00	-0.173	-0.163
2009-08-21 00:00:00	-0.159	-0.163
2009-08-22 00:00:00	-0.146	-0.163
2009-08-23 00:00:00	-0.164	-0.162
2009-08-24 00:00:00	-0.168	-0.161
2009-08-25 00:00:00	-0.177	-0.162
2009-08-26 00:00:00	-0.165	-0.162
2009-08-27 00:00:00	-0.175	-0.162
2009-08-28 00:00:00	-0.155	-0.163
2009-08-29 00:00:00	-0.162	-0.162
2009-08-30 00:00:00	-0.166	-0.163

2009-08-31 00:00:00	-0.155	-0.163
2009-09-01 00:00:00	-0.15	-0.163
2009-09-02 00:00:00	-0.163	-0.164
2009-09-03 00:00:00	-0.158	-0.164
2009-09-04 00:00:00	-0.162	-0.164
2009-09-05 00:00:00	-0.156	-0.164
2009-09-06 00:00:00	-0.169	-0.165
2009-09-07 00:00:00	-0.152	-0.166
2009-09-08 00:00:00	-0.157	-0.167
2009-09-09 00:00:00	-0.183	-0.167
2009-09-10 00:00:00	-0.179	-0.166
2009-09-11 00:00:00	-0.16	-0.166
2009-09-12 00:00:00	-0.167	-0.166
2009-09-13 00:00:00	-0.14	-0.166
2009-09-14 00:00:00	-0.178	-0.167
2009-09-15 00:00:00	-0.177	-0.167
2009-09-16 00:00:00	-0.178	-0.168
2009-09-17 00:00:00	-0.177	-0.169
2009-09-18 00:00:00	-0.161	-0.17
2009-09-19 00:00:00	-0.161	-0.17
2009-09-20 00:00:00	-0.171	-0.171
2009-09-21 00:00:00	-0.177	-0.172
2009-09-22 00:00:00	-0.184	-0.173
2009-09-23 00:00:00	-0.184	-0.174
2009-09-24 00:00:00	-0.167	-0.175
2009-09-25 00:00:00	-0.172	-0.174
2009-09-26 00:00:00	-0.161	-0.174
2009-09-27 00:00:00	-0.16	-0.175
2009-09-28 00:00:00	-0.168	-0.175
2009-09-29 00:00:00	-0.176	-0.176
2009-09-30 00:00:00	-0.18	-0.176
2009-10-01 00:00:00	-0.172	-0.177
2009-10-02 00:00:00	-0.194	-0.177
2009-10-03 00:00:00	-0.176	-0.177
2009-10-04 00:00:00	-0.181	-0.178
2009-10-05 00:00:00	-0.192	-0.178
2009-10-06 00:00:00	-0.173	-0.178
2009-10-07 00:00:00	-0.19	-0.177
2009-10-08 00:00:00	-0.194	-0.177
2009-10-09 00:00:00	-0.178	-0.176
2009-10-10 00:00:00	-0.176	-0.175
2009-10-11 00:00:00	-0.179	-0.175
2009-10-12 00:00:00	-0.174	-0.174
2009-10-13 00:00:00	-0.176	-0.173
2009-10-14 00:00:00	-0.169	-0.172
2009-10-15 00:00:00	-0.19	-0.172
2009-10-16 00:00:00	-0.193	-0.172



2009-10-17 00:00:00	-0.177	-0.172
2009-10-18 00:00:00	-0.186	-0.171
2009-10-19 00:00:00	-0.173	-0.17
2009-10-20 00:00:00	-0.177	-0.169
2009-10-21 00:00:00	-0.167	-0.169
2009-10-22 00:00:00	-0.154	-0.168
2009-10-23 00:00:00	-0.173	-0.167
2009-10-24 00:00:00	-0.145	-0.166
2009-10-25 00:00:00	-0.153	-0.165
2009-10-26 00:00:00	-0.166	-0.165
2009-10-27 00:00:00	-0.143	-0.164
2009-10-28 00:00:00	-0.123	-0.163
2009-10-29 00:00:00	-0.147	-0.162
2009-10-30 00:00:00	-0.167	-0.162
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2009-11-01 00:00:00	-0.179	-0.161
2009-11-02 00:00:00	-0.169	-0.16
2009-11-03 00:00:00	-0.148	-0.159
2009-11-04 00:00:00	-0.161	-0.159
2009-11-05 00:00:00	-0.17	-0.159
2009-11-06 00:00:00	-0.152	-0.158
2009-11-07 00:00:00	-0.153	-0.158
2009-11-08 00:00:00	-0.156	-0.159
2009-11-09 00:00:00	-0.167	-0.16
2009-11-10 00:00:00	-0.166	-0.161
2009-11-11 00:00:00	-0.148	-0.161
2009-11-12 00:00:00	-0.148	-0.162
2009-11-13 00:00:00	-0.149	-0.163
2009-11-14 00:00:00	-0.162	-0.164
2009-11-15 00:00:00	-0.175	-0.165
2009-11-16 00:00:00	-0.167	-0.165
2009-11-17 00:00:00	-0.167	-0.166
2009-11-18 00:00:00	-0.152	-0.166
2009-11-19 00:00:00	-0.163	-0.167
2009-11-20 00:00:00	-0.167	-0.168
2009-11-21 00:00:00	-0.158	-0.168
2009-11-22 00:00:00	-0.15	-0.168
2009-11-23 00:00:00	-0.183	-0.167
2009-11-24 00:00:00	-0.189	-0.167
2009-11-25 00:00:00	-0.172	-0.167
2009-11-26 00:00:00	-0.182	-0.167
2009-11-27 00:00:00	-0.162	-0.168
2009-11-28 00:00:00	-0.174	-0.168
2009-11-29 00:00:00	-0.167	-0.169
2009-11-30 00:00:00	-0.189	-0.169
2009-12-01 00:00:00	-0.182	-0.169
2009-12-02 00:00:00	-0.185	-0.169

2009-12-03 00:00:00	-0.19	-0.168
2009-12-04 00:00:00	-0.183	-0.169
2009-12-05 00:00:00	-0.165	-0.169
2009-12-06 00:00:00	-0.17	-0.169
2009-12-07 00:00:00	-0.152	-0.168
2009-12-08 00:00:00	-0.149	-0.168
2009-12-09 00:00:00	-0.154	-0.168
2009-12-10 00:00:00	-0.145	-0.167
2009-12-11 00:00:00	-0.163	-0.168
2009-12-12 00:00:00	-0.183	-0.168
2009-12-13 00:00:00	-0.156	-0.169
2009-12-14 00:00:00	-0.176	-0.169
2009-12-15 00:00:00	-0.183	-0.17
2009-12-16 00:00:00	-0.168	-0.17
2009-12-17 00:00:00	-0.158	-0.17
2009-12-18 00:00:00	-0.15	-0.17
2009-12-19 00:00:00	-0.157	-0.17
2009-12-20 00:00:00	-0.163	-0.169
2009-12-21 00:00:00	-0.169	-0.17
2009-12-22 00:00:00	-0.13	-0.17
2009-12-23 00:00:00	-0.159	-0.171
2009-12-24 00:00:00	-0.175	-0.172
2009-12-25 00:00:00	-0.172	-0.172
2009-12-26 00:00:00	-0.204	-0.173
2009-12-27 00:00:00	-0.184	-0.174
2009-12-28 00:00:00	-0.198	-0.173
2009-12-29 00:00:00	-0.171	-0.173
2009-12-30 00:00:00	-0.175	-0.172
2009-12-31 00:00:00	-0.194	-0.171
2010-01-01 00:00:00	-0.188	-0.171
2010-01-02 00:00:00	-0.185	-0.17
2010-01-03 00:00:00	-0.179	-0.17
2010-01-04 00:00:00	-0.166	-0.169
2010-01-05 00:00:00	-0.199	-0.167
2010-01-06 00:00:00	-0.179	-0.166
2010-01-07 00:00:00	-0.177	-0.167
2010-01-08 00:00:00	-0.166	-0.167
2010-01-09 00:00:00	-0.172	-0.167
2010-01-10 00:00:00	-0.169	-0.167
2010-01-11 00:00:00	-0.177	-0.166
2010-01-12 00:00:00	-0.161	-0.166
2010-01-13 00:00:00	-0.165	-0.165
2010-01-14 00:00:00	-0.148	-0.165
2010-01-15 00:00:00	-0.146	-0.166
2010-01-16 00:00:00	-0.152	-0.165
2010-01-17 00:00:00	-0.15	-0.165
2010-01-18 00:00:00	-0.15	-0.164

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2010-01-22 00:00:00	-0.142	-0.162
2010-01-23 00:00:00	-0.159	-0.161
2010-01-24 00:00:00	-0.187	-0.161
2010-01-25 00:00:00	-0.18	-0.162
2010-01-26 00:00:00	-0.165	-0.162
2010-01-27 00:00:00	-0.175	-0.162
2010-01-28 00:00:00	-0.189	-0.162
2010-01-29 00:00:00	-0.174	-0.163
2010-01-30 00:00:00	-0.182	-0.164
2010-01-31 00:00:00	-0.174	-0.165
2010-02-01 00:00:00	-0.18	-0.166
2010-02-02 00:00:00	-0.173	-0.167
2010-02-03 00:00:00	-0.147	-0.168
2010-02-04 00:00:00	-0.168	-0.169
2010-02-05 00:00:00	-0.165	-0.171
2010-02-06 00:00:00	-0.167	-0.171
2010-02-07 00:00:00	-0.153	-0.172
2010-02-08 00:00:00	-0.177	-0.173
2010-02-09 00:00:00	-0.187	-0.172
2010-02-10 00:00:00	-0.163	-0.172
2010-02-11 00:00:00	-0.178	-0.172
2010-02-12 00:00:00	-0.174	-0.171
2010-02-13 00:00:00	-0.191	-0.17
2010-02-14 00:00:00	-0.18	-0.17
2010-02-15 00:00:00	-0.179	-0.17
2010-02-16 00:00:00	-0.189	-0.17
2010-02-17 00:00:00	-0.172	-0.17
2010-02-18 00:00:00	-0.172	-0.17
2010-02-19 00:00:00	-0.167	-0.171
2010-02-20 00:00:00	-0.164	-0.17
2010-02-21 00:00:00	-0.14	-0.171
2010-02-22 00:00:00	-0.166	-0.171
2010-02-23 00:00:00	-0.177	-0.171
2010-02-24 00:00:00	-0.164	-0.171
2010-02-25 00:00:00	-0.172	-0.17
2010-02-26 00:00:00	-0.162	-0.169
2010-02-27 00:00:00	-0.15	-0.169
2010-02-28 00:00:00	-0.168	-0.169
2010-03-01 00:00:00	-0.17	-0.168
2010-03-02 00:00:00	-0.193	-0.168
2010-03-03 00:00:00	-0.17	-0.168
2010-03-04 00:00:00	-0.176	-0.166
2010-03-05 00:00:00	-0.167	-0.167
2010-03-06 00:00:00	-0.177	-0.167

2010-03-07 00:00:00	-0.153	-0.168
2010-03-08 00:00:00	-0.168	-0.168
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2010-03-12 00:00:00	-0.167	-0.165
2010-03-13 00:00:00	-0.134	-0.165
2010-03-14 00:00:00	-0.162	-0.164
2010-03-15 00:00:00	-0.173	-0.164
2010-03-16 00:00:00	-0.17	-0.163
2010-03-17 00:00:00	-0.176	-0.162
2010-03-18 00:00:00	-0.166	-0.162
2010-03-19 00:00:00	-0.152	-0.161
2010-03-20 00:00:00	-0.18	-0.16
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2010-03-22 00:00:00	-0.18	-0.159
2010-03-23 00:00:00	-0.171	-0.159
2010-03-24 00:00:00	-0.158	-0.159
2010-03-25 00:00:00	-0.126	-0.157
2010-03-26 00:00:00	-0.144	-0.157
2010-03-27 00:00:00	-0.143	-0.156
2010-03-28 00:00:00	-0.152	-0.155
2010-03-29 00:00:00	-0.148	-0.155
2010-03-30 00:00:00	-0.144	-0.155
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2010-04-02 00:00:00	-0.167	-0.153
2010-04-03 00:00:00	-0.144	-0.152
2010-04-04 00:00:00	-0.148	-0.153
2010-04-05 00:00:00	-0.142	-0.152
2010-04-06 00:00:00	-0.175	-0.15
2010-04-07 00:00:00	-0.152	-0.148
2010-04-08 00:00:00	-0.159	-0.148
2010-04-09 00:00:00	-0.146	-0.147
2010-04-10 00:00:00	-0.143	-0.147
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2010-04-12 00:00:00	-0.137	-0.147
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2010-04-14 00:00:00	-0.162	-0.146
2010-04-15 00:00:00	-0.141	-0.146
2010-04-16 00:00:00	-0.152	-0.145
2010-04-17 00:00:00	-0.15	-0.145
2010-04-18 00:00:00	-0.151	-0.145
2010-04-19 00:00:00	-0.176	-0.145
2010-04-20 00:00:00	-0.153	-0.145
2010-04-21 00:00:00	-0.116	-0.145
2010-04-22 00:00:00	-0.129	-0.144

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2010-04-24 00:00:00	-0.127	-0.142
2010-04-25 00:00:00	-0.154	-0.141
2010-04-26 00:00:00	-0.143	-0.141
2010-04-27 00:00:00	-0.146	-0.14
2010-04-28 00:00:00	-0.106	-0.141
2010-04-29 00:00:00	-0.145	-0.141
2010-04-30 00:00:00	-0.135	-0.14
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2010-05-03 00:00:00	-0.165	-0.14
2010-05-04 00:00:00	-0.147	-0.14
2010-05-05 00:00:00	-0.14	-0.139
2010-05-06 00:00:00	-0.146	-0.14
2010-05-07 00:00:00	-0.143	-0.14
2010-05-08 00:00:00	-0.141	-0.14
2010-05-09 00:00:00	-0.119	-0.141
2010-05-10 00:00:00	-0.131	-0.142
2010-05-11 00:00:00	-0.117	-0.142
2010-05-12 00:00:00	-0.144	-0.142
2010-05-13 00:00:00	-0.152	-0.142
2010-05-14 00:00:00	-0.138	-0.144
2010-05-15 00:00:00	-0.123	-0.144
2010-05-16 00:00:00	-0.134	-0.145
2010-05-17 00:00:00	-0.165	-0.145
2010-05-18 00:00:00	-0.144	-0.146
2010-05-19 00:00:00	-0.157	-0.146
2010-05-20 00:00:00	-0.159	-0.145
2010-05-21 00:00:00	-0.168	-0.146
2010-05-22 00:00:00	-0.115	-0.147
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2010-05-24 00:00:00	-0.17	-0.146
2010-05-25 00:00:00	-0.154	-0.147
2010-05-26 00:00:00	-0.167	-0.146
2010-05-27 00:00:00	-0.14	-0.146
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2010-05-29 00:00:00	-0.147	-0.145
2010-05-30 00:00:00	-0.159	-0.145
2010-05-31 00:00:00	-0.149	-0.145
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2010-06-02 00:00:00	-0.164	-0.143
2010-06-03 00:00:00	-0.147	-0.143
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2010-06-05 00:00:00	-0.173	-0.141
2010-06-06 00:00:00	-0.162	-0.14
2010-06-07 00:00:00	-0.151	-0.141
2010-06-08 00:00:00	-0.124	-0.141

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2010-06-12 00:00:00	-0.118	-0.136
2010-06-13 00:00:00	-0.136	-0.136
2010-06-14 00:00:00	-0.133	-0.136
2010-06-15 00:00:00	-0.118	-0.134
2010-06-16 00:00:00	-0.13	-0.133
2010-06-17 00:00:00	-0.125	-0.132
2010-06-18 00:00:00	-0.127	-0.131
2010-06-19 00:00:00	-0.133	-0.13
2010-06-20 00:00:00	-0.144	-0.13
2010-06-21 00:00:00	-0.136	-0.128
2010-06-22 00:00:00	-0.129	-0.127
2010-06-23 00:00:00	-0.133	-0.126
2010-06-24 00:00:00	-0.123	-0.126
2010-06-25 00:00:00	-0.136	-0.126
2010-06-26 00:00:00	-0.094	-0.127
2010-06-27 00:00:00	-0.135	-0.126
2010-06-28 00:00:00	-0.143	-0.126
2010-06-29 00:00:00	-0.147	-0.126
2010-06-30 00:00:00	-0.105	-0.127
2010-07-01 00:00:00	-0.12	-0.126
2010-07-02 00:00:00	-0.127	-0.126
2010-07-03 00:00:00	-0.126	-0.126
2010-07-04 00:00:00	-0.118	-0.126
2010-07-05 00:00:00	-0.112	-0.126
2010-07-06 00:00:00	-0.119	-0.125
2010-07-07 00:00:00	-0.127	-0.125
2010-07-08 00:00:00	-0.121	-0.126
2010-07-09 00:00:00	-0.117	-0.126
2010-07-10 00:00:00	-0.131	-0.127
2010-07-11 00:00:00	-0.139	-0.128
2010-07-12 00:00:00	-0.105	-0.13
2010-07-13 00:00:00	-0.124	-0.131
2010-07-14 00:00:00	-0.129	-0.132
2010-07-15 00:00:00	-0.149	-0.132
2010-07-16 00:00:00	-0.108	-0.134
2010-07-17 00:00:00	-0.112	-0.135
2010-07-18 00:00:00	-0.145	-0.136
2010-07-19 00:00:00	-0.134	-0.137
2010-07-20 00:00:00	-0.113	-0.138
2010-07-21 00:00:00	-0.123	-0.139
2010-07-22 00:00:00	-0.143	-0.139
2010-07-23 00:00:00	-0.142	-0.139
2010-07-24 00:00:00	-0.153	-0.14
2010-07-25 00:00:00	-0.146	-0.141

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2010-07-27 00:00:00	-0.147	-0.141
2010-07-28 00:00:00	-0.172	-0.143
2010-07-29 00:00:00	-0.174	-0.143
2010-07-30 00:00:00	-0.152	-0.143
2010-07-31 00:00:00	-0.15	-0.143
2010-08-01 00:00:00	-0.157	-0.144
2010-08-02 00:00:00	-0.154	-0.145
2010-08-03 00:00:00	-0.158	-0.143
2010-08-04 00:00:00	-0.15	-0.143
2010-08-05 00:00:00	-0.139	-0.143
2010-08-06 00:00:00	-0.128	-0.144
2010-08-07 00:00:00	-0.133	-0.143
2010-08-08 00:00:00	-0.134	-0.144
2010-08-09 00:00:00	-0.15	-0.144
2010-08-10 00:00:00	-0.14	-0.143
2010-08-11 00:00:00	-0.144	-0.143
2010-08-12 00:00:00	-0.165	-0.143
2010-08-13 00:00:00	-0.14	-0.142
2010-08-14 00:00:00	-0.123	-0.141
2010-08-15 00:00:00	-0.133	-0.141
2010-08-16 00:00:00	-0.148	-0.141
2010-08-17 00:00:00	-0.126	-0.141
2010-08-18 00:00:00	-0.102	-0.141
2010-08-19 00:00:00	-0.122	-0.142
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2010-08-21 00:00:00	-0.134	-0.143
2010-08-22 00:00:00	-0.127	-0.144
2010-08-23 00:00:00	-0.154	-0.144
2010-08-24 00:00:00	-0.16	-0.146
2010-08-25 00:00:00	-0.125	-0.147
2010-08-26 00:00:00	-0.163	-0.147
2010-08-27 00:00:00	-0.129	-0.148
2010-08-28 00:00:00	-0.143	-0.149
2010-08-29 00:00:00	-0.147	-0.149
2010-08-30 00:00:00	-0.149	-0.151
2010-08-31 00:00:00	-0.153	-0.153
2010-09-01 00:00:00	-0.152	-0.153
2010-09-02 00:00:00	-0.164	-0.155
2010-09-03 00:00:00	-0.199	-0.157
2010-09-04 00:00:00	-0.161	-0.158
2010-09-05 00:00:00	-0.15	-0.159
2010-09-06 00:00:00	-0.158	-0.16
2010-09-07 00:00:00	-0.149	-0.161
2010-09-08 00:00:00	-0.18	-0.161
2010-09-09 00:00:00	-0.174	-0.162
2010-09-10 00:00:00	-0.159	-0.164

2010-09-11 00:00:00	-0.172	-0.164
2010-09-12 00:00:00	-0.177	-0.165
2010-09-13 00:00:00	-0.164	-0.166
2010-09-14 00:00:00	-0.188	-0.167
2010-09-15 00:00:00	-0.175	-0.167
2010-09-16 00:00:00	-0.168	-0.168
2010-09-17 00:00:00	-0.168	-0.17
2010-09-18 00:00:00	-0.166	-0.171
2010-09-19 00:00:00	-0.156	-0.17
2010-09-20 00:00:00	-0.161	-0.171
2010-09-21 00:00:00	-0.157	-0.173
2010-09-22 00:00:00	-0.176	-0.174
2010-09-23 00:00:00	-0.154	-0.175
2010-09-24 00:00:00	-0.182	-0.175
2010-09-25 00:00:00	-0.18	-0.175
2010-09-26 00:00:00	-0.167	-0.175
2010-09-27 00:00:00	-0.175	-0.176
2010-09-28 00:00:00	-0.17	-0.176
2010-09-29 00:00:00	-0.166	-0.177
2010-09-30 00:00:00	-0.168	-0.177
2010-10-01 00:00:00	-0.179	-0.177
2010-10-02 00:00:00	-0.193	-0.177
2010-10-03 00:00:00	-0.208	-0.177
2010-10-04 00:00:00	-0.171	-0.177
2010-10-05 00:00:00	-0.189	-0.177
2010-10-06 00:00:00	-0.199	-0.178
2010-10-07 00:00:00	-0.207	-0.178
2010-10-08 00:00:00	-0.19	-0.178
2010-10-09 00:00:00	-0.181	-0.179
2010-10-10 00:00:00	-0.155	-0.178
2010-10-11 00:00:00	-0.177	-0.178
2010-10-12 00:00:00	-0.191	-0.178
2010-10-13 00:00:00	-0.183	-0.178
2010-10-14 00:00:00	-0.198	-0.18
2010-10-15 00:00:00	-0.181	-0.181
2010-10-16 00:00:00	-0.179	-0.182
2010-10-17 00:00:00	-0.173	-0.184
2010-10-18 00:00:00	-0.162	-0.185
2010-10-19 00:00:00	-0.164	-0.185
2010-10-20 00:00:00	-0.152	-0.186
2010-10-21 00:00:00	-0.178	-0.185
2010-10-22 00:00:00	-0.169	-0.186
2010-10-23 00:00:00	-0.178	-0.185
2010-10-24 00:00:00	-0.183	-0.186
2010-10-25 00:00:00	-0.166	-0.186
2010-10-26 00:00:00	-0.152	-0.187
2010-10-27 00:00:00	-0.176	-0.188



2010-10-28 00:00:00	-0.191	-0.188
2010-10-29 00:00:00	-0.212	-0.189
2010-10-30 00:00:00	-0.195	-0.188
2010-10-31 00:00:00	-0.207	-0.188
2010-11-01 00:00:00	-0.232	-0.189
2010-11-02 00:00:00	-0.233	-0.189
2010-11-03 00:00:00	-0.208	-0.19
2010-11-04 00:00:00	-0.19	-0.191
2010-11-05 00:00:00	-0.186	-0.192
2010-11-06 00:00:00	-0.224	-0.193
2010-11-07 00:00:00	-0.183	-0.194
2010-11-08 00:00:00	-0.209	-0.194
2010-11-09 00:00:00	-0.193	-0.195
2010-11-10 00:00:00	-0.187	-0.194
2010-11-11 00:00:00	-0.187	-0.196
2010-11-12 00:00:00	-0.198	-0.196
2010-11-13 00:00:00	-0.208	-0.195
2010-11-14 00:00:00	-0.185	-0.194
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2010-11-18 00:00:00	-0.198	-0.19
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2010-11-24 00:00:00	-0.185	-0.188
2010-11-25 00:00:00	-0.163	-0.187
2010-11-26 00:00:00	-0.186	-0.188
2010-11-27 00:00:00	-0.179	-0.187
2010-11-28 00:00:00	-0.171	-0.186
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2010-12-02 00:00:00	-0.189	-0.182
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2010-12-07 00:00:00	-0.181	-0.176
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2010-12-10 00:00:00	-0.182	-0.174
2010-12-11 00:00:00	-0.197	-0.173
2010-12-12 00:00:00	-0.181	-0.173
2010-12-13 00:00:00	-0.168	-0.172

2010-12-14 00:00:00	-0.151	-0.171
2010-12-15 00:00:00	-0.143	-0.171
2010-12-16 00:00:00	-0.164	-0.169
2010-12-17 00:00:00	-0.156	-0.168
2010-12-18 00:00:00	-0.163	-0.168
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2010-12-21 00:00:00	-0.156	-0.168
2010-12-22 00:00:00	-0.164	-0.167
2010-12-23 00:00:00	-0.175	-0.166
2010-12-24 00:00:00	-0.167	-0.165
2010-12-25 00:00:00	-0.182	-0.164
2010-12-26 00:00:00	-0.137	-0.163
2010-12-27 00:00:00	-0.173	-0.162
2010-12-28 00:00:00	-0.166	-0.162
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2011-01-09 00:00:00	-0.164	-0.164
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2011-01-12 00:00:00	-0.161	-0.166
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2011-01-15 00:00:00	-0.174	-0.168
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2011-01-21 00:00:00	-0.167	-0.171
2011-01-22 00:00:00	-0.154	-0.172
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2011-02-02 00:00:00	-0.182	-0.177
2011-02-03 00:00:00	-0.194	-0.177
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2011-02-06 00:00:00	-0.185	-0.179
2011-02-07 00:00:00	-0.178	-0.179
2011-02-08 00:00:00	-0.166	-0.18
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2011-02-10 00:00:00	-0.183	-0.18
2011-02-11 00:00:00	-0.177	-0.179
2011-02-12 00:00:00	-0.183	-0.178
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2011-05-27 00:00:00	-0.147	-0.154
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2011-07-08 00:00:00	-0.14	-0.157
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2011-07-18 00:00:00	-0.167	-0.163
2011-07-19 00:00:00	-0.175	-0.164
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2011-07-22 00:00:00	-0.183	-0.165
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2011-08-03 00:00:00	-0.164	-0.169
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2011-08-06 00:00:00	-0.165	-0.17

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2011-08-08 00:00:00	-0.178	-0.169
2011-08-09 00:00:00	-0.183	-0.17
2011-08-10 00:00:00	-0.165	-0.17
2011-08-11 00:00:00	-0.164	-0.17
2011-08-12 00:00:00	-0.172	-0.17
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2011-08-14 00:00:00	-0.168	-0.171
2011-08-15 00:00:00	-0.174	-0.17
2011-08-16 00:00:00	-0.174	-0.169
2011-08-17 00:00:00	-0.189	-0.17
2011-08-18 00:00:00	-0.178	-0.171
2011-08-19 00:00:00	-0.179	-0.172
2011-08-20 00:00:00	-0.173	-0.173
2011-08-21 00:00:00	-0.145	-0.173
2011-08-22 00:00:00	-0.175	-0.174
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2011-08-24 00:00:00	-0.195	-0.174
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2011-09-21 00:00:00	-0.185	-0.183
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2011-09-28 00:00:00	-0.187	-0.179
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2011-10-03 00:00:00	-0.173	-0.174
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2011-10-05 00:00:00	-0.155	-0.171
2011-10-06 00:00:00	-0.185	-0.17
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2011-10-08 00:00:00	-0.182	-0.169
2011-10-09 00:00:00	-0.163	-0.169
2011-10-10 00:00:00	-0.154	-0.168
2011-10-11 00:00:00	-0.169	-0.168
2011-10-12 00:00:00	-0.168	-0.168
2011-10-13 00:00:00	-0.16	-0.168
2011-10-14 00:00:00	-0.15	-0.168
2011-10-15 00:00:00	-0.124	-0.169
2011-10-16 00:00:00	-0.168	-0.168
2011-10-17 00:00:00	-0.177	-0.168
2011-10-18 00:00:00	-0.172	-0.168
2011-10-19 00:00:00	-0.166	-0.169
2011-10-20 00:00:00	-0.157	-0.169
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2011-10-23 00:00:00	-0.164	-0.17
2011-10-24 00:00:00	-0.166	-0.171
2011-10-25 00:00:00	-0.158	-0.173
2011-10-26 00:00:00	-0.158	-0.175
2011-10-27 00:00:00	-0.194	-0.176
2011-10-28 00:00:00	-0.188	-0.176
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2011-11-08 00:00:00	-0.206	-0.186



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2011-11-24 00:00:00	-0.189	-0.188
2011-11-25 00:00:00	-0.185	-0.186
2011-11-26 00:00:00	-0.204	-0.184
2011-11-27 00:00:00	-0.185	-0.183
2011-11-28 00:00:00	-0.197	-0.183
2011-11-29 00:00:00	-0.192	-0.183
2011-11-30 00:00:00	-0.189	-0.182
2011-12-01 00:00:00	-0.192	-0.182
2011-12-02 00:00:00	-0.171	-0.181
2011-12-03 00:00:00	-0.189	-0.179
2011-12-04 00:00:00	-0.185	-0.178
2011-12-05 00:00:00	-0.175	-0.178
2011-12-06 00:00:00	-0.182	-0.178
2011-12-07 00:00:00	-0.184	-0.177
2011-12-08 00:00:00	-0.179	-0.176
2011-12-09 00:00:00	-0.169	-0.176
2011-12-10 00:00:00	-0.163	-0.176
2011-12-11 00:00:00	-0.158	-0.175
2011-12-12 00:00:00	-0.161	-0.175
2011-12-13 00:00:00	-0.177	-0.174
2011-12-14 00:00:00	-0.177	-0.173
2011-12-15 00:00:00	-0.163	-0.173
2011-12-16 00:00:00	-0.171	-0.172
2011-12-17 00:00:00	-0.153	-0.172
2011-12-18 00:00:00	-0.141	-0.173
2011-12-19 00:00:00	-0.142	-0.173
2011-12-20 00:00:00	-0.172	-0.173
2011-12-21 00:00:00	-0.172	-0.174
2011-12-22 00:00:00	-0.176	-0.174
2011-12-23 00:00:00	-0.173	-0.174
2011-12-24 00:00:00	-0.189	-0.175
2011-12-25 00:00:00	-0.179	-0.176

2011-12-26 00:00:00	-0.171	-0.176
2011-12-27 00:00:00	-0.192	-0.177
2011-12-28 00:00:00	-0.166	-0.178
2011-12-29 00:00:00	-0.159	-0.178
2011-12-30 00:00:00	-0.183	-0.178
2011-12-31 00:00:00	-0.175	-0.178
2012-01-01 00:00:00	-0.177	-0.178
2012-01-02 00:00:00	-0.203	-0.179
2012-01-03 00:00:00	-0.201	-0.18
2012-01-04 00:00:00	-0.188	-0.181
2012-01-05 00:00:00	-0.195	-0.182
2012-01-06 00:00:00	-0.19	-0.181
2012-01-07 00:00:00	-0.187	-0.181
2012-01-08 00:00:00	-0.195	-0.183
2012-01-09 00:00:00	-0.193	-0.182
2012-01-10 00:00:00	-0.18	-0.181
2012-01-11 00:00:00	-0.19	-0.182
2012-01-12 00:00:00	-0.175	-0.18
2012-01-13 00:00:00	-0.182	-0.18
2012-01-14 00:00:00	-0.186	-0.181
2012-01-15 00:00:00	-0.171	-0.18
2012-01-16 00:00:00	-0.164	-0.179
2012-01-17 00:00:00	-0.176	-0.179
2012-01-18 00:00:00	-0.186	-0.178
2012-01-19 00:00:00	-0.176	-0.177
2012-01-20 00:00:00	-0.189	-0.176
2012-01-21 00:00:00	-0.151	-0.175
2012-01-22 00:00:00	-0.183	-0.173
2012-01-23 00:00:00	-0.206	-0.173
2012-01-24 00:00:00	-0.183	-0.173
2012-01-25 00:00:00	-0.153	-0.172
2012-01-26 00:00:00	-0.174	-0.172
2012-01-27 00:00:00	-0.137	-0.171
2012-01-28 00:00:00	-0.175	-0.17
2012-01-29 00:00:00	-0.173	-0.17
2012-01-30 00:00:00	-0.161	-0.169
2012-01-31 00:00:00	-0.162	-0.169
2012-02-01 00:00:00	-0.17	-0.169
2012-02-02 00:00:00	-0.155	-0.169
2012-02-03 00:00:00	-0.172	-0.169
2012-02-04 00:00:00	-0.176	-0.169
2012-02-05 00:00:00	-0.142	-0.169
2012-02-06 00:00:00	-0.151	-0.17
2012-02-07 00:00:00	-0.188	-0.17
2012-02-08 00:00:00	-0.169	-0.168
2012-02-09 00:00:00	-0.173	-0.168
2012-02-10 00:00:00	-0.186	-0.169

2012-02-11 00:00:00	-0.164	-0.169
2012-02-12 00:00:00	-0.146	-0.17
2012-02-13 00:00:00	-0.161	-0.17
2012-02-14 00:00:00	-0.151	-0.171
2012-02-15 00:00:00	-0.176	-0.171
2012-02-16 00:00:00	-0.164	-0.171
2012-02-17 00:00:00	-0.182	-0.172
2012-02-18 00:00:00	-0.18	-0.173
2012-02-19 00:00:00	-0.177	-0.173
2012-02-20 00:00:00	-0.184	-0.173
2012-02-21 00:00:00	-0.193	-0.174
2012-02-22 00:00:00	-0.177	-0.176
2012-02-23 00:00:00	-0.159	-0.176
2012-02-24 00:00:00	-0.167	-0.177
2012-02-25 00:00:00	-0.188	-0.177
2012-02-26 00:00:00	-0.169	-0.176
2012-02-27 00:00:00	-0.173	-0.177
2012-02-28 00:00:00	-0.18	-0.179
2012-02-29 00:00:00	-0.196	-0.181
2012-03-01 00:00:00	-0.163	-0.182
2012-03-02 00:00:00	-0.178	-0.182
2012-03-03 00:00:00	-0.181	-0.183
2012-03-04 00:00:00	-0.197	-0.183
2012-03-05 00:00:00	-0.181	-0.183
2012-03-06 00:00:00	-0.177	-0.184
2012-03-07 00:00:00	-0.175	-0.184
2012-03-08 00:00:00	-0.195	-0.185
2012-03-09 00:00:00	-0.191	-0.186
2012-03-10 00:00:00	-0.188	-0.187
2012-03-11 00:00:00	-0.173	-0.188
2012-03-12 00:00:00	-0.185	-0.188
2012-03-13 00:00:00	-0.19	-0.188
2012-03-14 00:00:00	-0.196	-0.189
2012-03-15 00:00:00	-0.213	-0.189
2012-03-16 00:00:00	-0.179	-0.189
2012-03-17 00:00:00	-0.19	-0.19
2012-03-18 00:00:00	-0.181	-0.19
2012-03-19 00:00:00	-0.198	-0.191
2012-03-20 00:00:00	-0.193	-0.19
2012-03-21 00:00:00	-0.199	-0.19
2012-03-22 00:00:00	-0.183	-0.192
2012-03-23 00:00:00	-0.207	-0.193
2012-03-24 00:00:00	-0.223	-0.193
2012-03-25 00:00:00	-0.192	-0.194
2012-03-26 00:00:00	-0.185	-0.194
2012-03-27 00:00:00	-0.186	-0.194
2012-03-28 00:00:00	-0.193	-0.195

2012-03-29 00:00:00	-0.184	-0.195
2012-03-30 00:00:00	-0.189	-0.195
2012-03-31 00:00:00	-0.194	-0.194
2012-04-01 00:00:00	-0.193	-0.195
2012-04-02 00:00:00	-0.189	-0.196
2012-04-03 00:00:00	-0.19	-0.196
2012-04-04 00:00:00	-0.19	-0.196
2012-04-05 00:00:00	-0.179	-0.196
2012-04-06 00:00:00	-0.214	-0.196
2012-04-07 00:00:00	-0.209	-0.197
2012-04-08 00:00:00	-0.206	-0.197
2012-04-09 00:00:00	-0.213	-0.196
2012-04-10 00:00:00	-0.191	-0.196
2012-04-11 00:00:00	-0.185	-0.195
2012-04-12 00:00:00	-0.208	-0.195
2012-04-13 00:00:00	-0.206	-0.195
2012-04-14 00:00:00	-0.187	-0.196
2012-04-15 00:00:00	-0.188	-0.197
2012-04-16 00:00:00	-0.209	-0.197
2012-04-17 00:00:00	-0.201	-0.197
2012-04-18 00:00:00	-0.204	-0.197
2012-04-19 00:00:00	-0.196	-0.198
2012-04-20 00:00:00	-0.191	-0.199
2012-04-21 00:00:00	-0.206	-0.2
2012-04-22 00:00:00	-0.204	-0.201
2012-04-23 00:00:00	-0.191	-0.201
2012-04-24 00:00:00	-0.197	-0.201
2012-04-25 00:00:00	-0.191	-0.2
2012-04-26 00:00:00	-0.168	-0.2
2012-04-27 00:00:00	-0.178	-0.201
2012-04-28 00:00:00	-0.18	-0.2
2012-04-29 00:00:00	-0.229	-0.2
2012-04-30 00:00:00	-0.207	-0.2
2012-05-01 00:00:00	-0.199	-0.2
2012-05-02 00:00:00	-0.197	-0.2
2012-05-03 00:00:00	-0.208	-0.2
2012-05-04 00:00:00	-0.207	-0.2
2012-05-05 00:00:00	-0.228	-0.2
2012-05-06 00:00:00	-0.213	-0.2
2012-05-07 00:00:00	-0.223	-0.2
2012-05-08 00:00:00	-0.209	-0.199
2012-05-09 00:00:00	-0.218	-0.199
2012-05-10 00:00:00	-0.189	-0.199
2012-05-11 00:00:00	-0.193	-0.199
2012-05-12 00:00:00	-0.191	-0.2
2012-05-13 00:00:00	-0.198	-0.201
2012-05-14 00:00:00	-0.201	-0.201

2012-05-15 00:00:00	-0.2	-0.2
2012-05-16 00:00:00	-0.187	-0.199
2012-05-17 00:00:00	-0.195	-0.198
2012-05-18 00:00:00	-0.191	-0.198
2012-05-19 00:00:00	-0.209	-0.197
2012-05-20 00:00:00	-0.197	-0.196
2012-05-21 00:00:00	-0.199	-0.194
2012-05-22 00:00:00	-0.201	-0.193
2012-05-23 00:00:00	-0.182	-0.192
2012-05-24 00:00:00	-0.178	-0.191
2012-05-25 00:00:00	-0.197	-0.19
2012-05-26 00:00:00	-0.189	-0.19
2012-05-27 00:00:00	-0.193	-0.19
2012-05-28 00:00:00	-0.211	-0.19
2012-05-29 00:00:00	-0.195	-0.19
2012-05-30 00:00:00	-0.188	-0.189
2012-05-31 00:00:00	-0.183	-0.189
2012-06-01 00:00:00	-0.181	-0.188
2012-06-02 00:00:00	-0.182	-0.189
2012-06-03 00:00:00	-0.181	-0.188
2012-06-04 00:00:00	-0.176	-0.188
2012-06-05 00:00:00	-0.179	-0.188
2012-06-06 00:00:00	-0.17	-0.188
2012-06-07 00:00:00	-0.195	-0.188
2012-06-08 00:00:00	-0.18	-0.188
2012-06-09 00:00:00	-0.168	-0.189
2012-06-10 00:00:00	-0.198	-0.189
2012-06-11 00:00:00	-0.202	-0.189
2012-06-12 00:00:00	-0.185	-0.188
2012-06-13 00:00:00	-0.188	-0.189
2012-06-14 00:00:00	-0.185	-0.189
2012-06-15 00:00:00	-0.183	-0.19
2012-06-16 00:00:00	-0.179	-0.19
2012-06-17 00:00:00	-0.203	-0.19
2012-06-18 00:00:00	-0.182	-0.191
2012-06-19 00:00:00	-0.202	-0.191
2012-06-20 00:00:00	-0.197	-0.192
2012-06-21 00:00:00	-0.192	-0.194
2012-06-22 00:00:00	-0.198	-0.195
2012-06-23 00:00:00	-0.185	-0.195
2012-06-24 00:00:00	-0.21	-0.195
2012-06-25 00:00:00	-0.184	-0.196
2012-06-26 00:00:00	-0.199	-0.196
2012-06-27 00:00:00	-0.177	-0.196
2012-06-28 00:00:00	-0.22	-0.197
2012-06-29 00:00:00	-0.201	-0.197
2012-06-30 00:00:00	-0.21	-0.197

2012-07-01 00:00:00	-0.206	-0.198
2012-07-02 00:00:00	-0.182	-0.199
2012-07-03 00:00:00	-0.191	-0.198
2012-07-04 00:00:00	-0.19	-0.198
2012-07-05 00:00:00	-0.216	-0.198
2012-07-06 00:00:00	-0.224	-0.198
2012-07-07 00:00:00	-0.204	-0.2
2012-07-08 00:00:00	-0.191	-0.2
2012-07-09 00:00:00	-0.193	-0.2
2012-07-10 00:00:00	-0.197	-0.2
2012-07-11 00:00:00	-0.204	-0.201
2012-07-12 00:00:00	-0.191	-0.202
2012-07-13 00:00:00	-0.212	-0.202
2012-07-14 00:00:00	-0.204	-0.202
2012-07-15 00:00:00	-0.195	-0.202
2012-07-16 00:00:00	-0.2	-0.203
2012-07-17 00:00:00	-0.197	-0.203
2012-07-18 00:00:00	-0.191	-0.203
2012-07-19 00:00:00	-0.174	-0.204
2012-07-20 00:00:00	-0.197	-0.204
2012-07-21 00:00:00	-0.215	-0.203
2012-07-22 00:00:00	-0.236	-0.204
2012-07-23 00:00:00	-0.2	-0.205
2012-07-24 00:00:00	-0.201	-0.205
2012-07-25 00:00:00	-0.211	-0.205
2012-07-26 00:00:00	-0.198	-0.205
2012-07-27 00:00:00	-0.226	-0.204
2012-07-28 00:00:00	-0.193	-0.204
2012-07-29 00:00:00	-0.211	-0.204
2012-07-30 00:00:00	-0.214	-0.204
2012-07-31 00:00:00	-0.214	-0.204
2012-08-01 00:00:00	-0.209	-0.204
2012-08-02 00:00:00	-0.201	-0.205
2012-08-03 00:00:00	-0.204	-0.206
2012-08-04 00:00:00	-0.203	-0.206
2012-08-05 00:00:00	-0.198	-0.206
2012-08-06 00:00:00	-0.231	-0.206
2012-08-07 00:00:00	-0.234	-0.204
2012-08-08 00:00:00	-0.202	-0.204
2012-08-09 00:00:00	-0.194	-0.203
2012-08-10 00:00:00	-0.194	-0.203
2012-08-11 00:00:00	-0.18	-0.203
2012-08-12 00:00:00	-0.19	-0.203
2012-08-13 00:00:00	-0.202	-0.203
2012-08-14 00:00:00	-0.219	-0.204
2012-08-15 00:00:00	-0.192	-0.204
2012-08-16 00:00:00	-0.205	-0.204

2012-08-17 00:00:00	-0.212	-0.204
2012-08-18 00:00:00	-0.214	-0.205
2012-08-19 00:00:00	-0.198	-0.205
2012-08-20 00:00:00	-0.198	-0.205
2012-08-21 00:00:00	-0.205	-0.204
2012-08-22 00:00:00	-0.177	-0.203
2012-08-23 00:00:00	-0.193	-0.202
2012-08-24 00:00:00	-0.183	-0.203
2012-08-25 00:00:00	-0.193	-0.203
2012-08-26 00:00:00	-0.214	-0.203
2012-08-27 00:00:00	-0.202	-0.204
2012-08-28 00:00:00	-0.217	-0.206
2012-08-29 00:00:00	-0.242	-0.206
2012-08-30 00:00:00	-0.197	-0.206
2012-08-31 00:00:00	-0.216	-0.207
2012-09-01 00:00:00	-0.225	-0.208
2012-09-02 00:00:00	-0.206	-0.208
2012-09-03 00:00:00	-0.215	-0.209
2012-09-04 00:00:00	-0.193	-0.21
2012-09-05 00:00:00	-0.18	-0.21
2012-09-06 00:00:00	-0.202	-0.211
2012-09-07 00:00:00	-0.207	-0.212
2012-09-08 00:00:00	-0.217	-0.212
2012-09-09 00:00:00	-0.211	-0.213
2012-09-10 00:00:00	-0.191	-0.214
2012-09-11 00:00:00	-0.212	-0.214
2012-09-12 00:00:00	-0.243	-0.215
2012-09-13 00:00:00	-0.21	-0.216
2012-09-14 00:00:00	-0.226	-0.215
2012-09-15 00:00:00	-0.217	-0.215
2012-09-16 00:00:00	-0.24	-0.215
2012-09-17 00:00:00	-0.216	-0.214
2012-09-18 00:00:00	-0.226	-0.214
2012-09-19 00:00:00	-0.236	-0.214
2012-09-20 00:00:00	-0.206	-0.215
2012-09-21 00:00:00	-0.215	-0.215
2012-09-22 00:00:00	-0.212	-0.215
2012-09-23 00:00:00	-0.217	-0.214
2012-09-24 00:00:00	-0.214	-0.214
2012-09-25 00:00:00	-0.219	-0.214
2012-09-26 00:00:00	-0.215	-0.215
2012-09-27 00:00:00	-0.23	-0.215
2012-09-28 00:00:00	-0.23	-0.214
2012-09-29 00:00:00	-0.216	-0.214
2012-09-30 00:00:00	-0.216	-0.214
2012-10-01 00:00:00	-0.206	-0.214
2012-10-02 00:00:00	-0.203	-0.212

2012-10-03 00:00:00	-0.194	-0.212
2012-10-04 00:00:00	-0.226	-0.211
2012-10-05 00:00:00	-0.201	-0.209
2012-10-06 00:00:00	-0.191	-0.209
2012-10-07 00:00:00	-0.203	-0.209
2012-10-08 00:00:00	-0.186	-0.209
2012-10-09 00:00:00	-0.212	-0.21
2012-10-10 00:00:00	-0.218	-0.211
2012-10-11 00:00:00	-0.202	-0.211
2012-10-12 00:00:00	-0.218	-0.212
2012-10-13 00:00:00	-0.215	-0.212
2012-10-14 00:00:00	-0.221	-0.212
2012-10-15 00:00:00	-0.219	-0.212
2012-10-16 00:00:00	-0.196	-0.212
2012-10-17 00:00:00	-0.194	-0.213
2012-10-18 00:00:00	-0.207	-0.213
2012-10-19 00:00:00	-0.188	-0.214
2012-10-20 00:00:00	-0.201	-0.213
2012-10-21 00:00:00	-0.198	-0.214
2012-10-22 00:00:00	-0.222	-0.214
2012-10-23 00:00:00	-0.214	-0.215
2012-10-24 00:00:00	-0.234	-0.216
2012-10-25 00:00:00	-0.232	-0.215
2012-10-26 00:00:00	-0.244	-0.214
2012-10-27 00:00:00	-0.232	-0.214
2012-10-28 00:00:00	-0.222	-0.215
2012-10-29 00:00:00	-0.232	-0.216
2012-10-30 00:00:00	-0.229	-0.216
2012-10-31 00:00:00	-0.219	-0.216
2012-11-01 00:00:00	-0.222	-0.216
2012-11-02 00:00:00	-0.211	-0.217
2012-11-03 00:00:00	-0.21	-0.217
2012-11-04 00:00:00	-0.22	-0.218
2012-11-05 00:00:00	-0.215	-0.218
2012-11-06 00:00:00	-0.212	-0.218
2012-11-07 00:00:00	-0.212	-0.218
2012-11-08 00:00:00	-0.21	-0.218
2012-11-09 00:00:00	-0.195	-0.218
2012-11-10 00:00:00	-0.189	-0.217
2012-11-11 00:00:00	-0.214	-0.216
2012-11-12 00:00:00	-0.228	-0.216
2012-11-13 00:00:00	-0.246	-0.215
2012-11-14 00:00:00	-0.233	-0.215
2012-11-15 00:00:00	-0.228	-0.213
2012-11-16 00:00:00	-0.18	-0.211
2012-11-17 00:00:00	-0.241	-0.211
2012-11-18 00:00:00	-0.198	-0.209



2012-11-19 00:00:00	-0.205	-0.209
2012-11-20 00:00:00	-0.221	-0.209
2012-11-21 00:00:00	-0.192	-0.208
2012-11-22 00:00:00	-0.216	-0.208
2012-11-23 00:00:00	-0.222	-0.207
2012-11-24 00:00:00	-0.222	-0.207
2012-11-25 00:00:00	-0.208	-0.207
2012-11-26 00:00:00	-0.219	-0.208
2012-11-27 00:00:00	-0.219	-0.207
2012-11-28 00:00:00	-0.208	-0.206
2012-11-29 00:00:00	-0.22	-0.204
2012-11-30 00:00:00	-0.158	-0.203
2012-12-01 00:00:00	-0.179	-0.202
2012-12-02 00:00:00	-0.199	-0.203
2012-12-03 00:00:00	-0.173	-0.202
2012-12-04 00:00:00	-0.2	-0.202
2012-12-05 00:00:00	-0.211	-0.202
2012-12-06 00:00:00	-0.2	-0.202
2012-12-07 00:00:00	-0.2	-0.203
2012-12-08 00:00:00	-0.189	-0.203
2012-12-09 00:00:00	-0.192	-0.202
2012-12-10 00:00:00	-0.214	-0.202
2012-12-11 00:00:00	-0.211	-0.202
2012-12-12 00:00:00	-0.186	-0.202
2012-12-13 00:00:00	-0.187	-0.201
2012-12-14 00:00:00	-0.195	-0.201
2012-12-15 00:00:00	-0.212	-0.2
2012-12-16 00:00:00	-0.196	-0.202
2012-12-17 00:00:00	-0.205	-0.204
2012-12-18 00:00:00	-0.195	-0.205
2012-12-19 00:00:00	-0.209	-0.207
2012-12-20 00:00:00	-0.219	-0.209
2012-12-21 00:00:00	-0.218	-0.21
2012-12-22 00:00:00	-0.206	-0.211
2012-12-23 00:00:00	-0.206	-0.212
2012-12-24 00:00:00	-0.198	-0.213
2012-12-25 00:00:00	-0.232	-0.215
2012-12-26 00:00:00	-0.214	-0.215
2012-12-27 00:00:00	-0.213	-0.216
2012-12-28 00:00:00	-0.196	-0.218
2012-12-29 00:00:00	-0.186	-0.219
2012-12-30 00:00:00	-0.203	-0.221
2012-12-31 00:00:00	-0.217	-0.222
2013-01-01 00:00:00	-0.236	-0.223
2013-01-02 00:00:00	-0.241	-0.225
2013-01-03 00:00:00	-0.241	-0.227
2013-01-04 00:00:00	-0.239	-0.228

2013-01-05 00:00:00	-0.252	-0.229
2013-01-06 00:00:00	-0.22	-0.23
2013-01-07 00:00:00	-0.23	-0.231
2013-01-08 00:00:00	-0.239	-0.232
2013-01-09 00:00:00	-0.239	-0.233
2013-01-10 00:00:00	-0.237	-0.233
2013-01-11 00:00:00	-0.229	-0.233
2013-01-12 00:00:00	-0.24	-0.233
2013-01-13 00:00:00	-0.235	-0.234
2013-01-14 00:00:00	-0.236	-0.236
2013-01-15 00:00:00	-0.249	-0.237
2013-01-16 00:00:00	-0.247	-0.238
2013-01-17 00:00:00	-0.253	-0.238
2013-01-18 00:00:00	-0.251	-0.238
2013-01-19 00:00:00	-0.241	-0.238
2013-01-20 00:00:00	-0.247	-0.238
2013-01-21 00:00:00	-0.242	-0.237
2013-01-22 00:00:00	-0.241	-0.238
2013-01-23 00:00:00	-0.237	-0.238
2013-01-24 00:00:00	-0.248	-0.237
2013-01-25 00:00:00	-0.222	-0.237
2013-01-26 00:00:00	-0.21	-0.236
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2013-01-28 00:00:00	-0.236	-0.237
2013-01-29 00:00:00	-0.244	-0.237
2013-01-30 00:00:00	-0.238	-0.237
2013-01-31 00:00:00	-0.238	-0.238
2013-02-01 00:00:00	-0.237	-0.237
2013-02-02 00:00:00	-0.246	-0.236
2013-02-03 00:00:00	-0.246	-0.236
2013-02-04 00:00:00	-0.231	-0.235
2013-02-05 00:00:00	-0.229	-0.235
2013-02-06 00:00:00	-0.234	-0.234
2013-02-07 00:00:00	-0.232	-0.234
2013-02-08 00:00:00	-0.222	-0.234
2013-02-09 00:00:00	-0.225	-0.233
2013-02-10 00:00:00	-0.223	-0.233
2013-02-11 00:00:00	-0.238	-0.234
2013-02-12 00:00:00	-0.243	-0.235
2013-02-13 00:00:00	-0.252	-0.235
2013-02-14 00:00:00	-0.239	-0.235
2013-02-15 00:00:00	-0.257	-0.235
2013-02-16 00:00:00	-0.233	-0.234
2013-02-17 00:00:00	-0.229	-0.234
2013-02-18 00:00:00	-0.226	-0.234
2013-02-19 00:00:00	-0.234	-0.234
2013-02-20 00:00:00	-0.225	-0.234

2013-02-21 00:00:00	-0.232	-0.234
2013-02-22 00:00:00	-0.23	-0.234
2013-02-23 00:00:00	-0.224	-0.234
2013-02-24 00:00:00	-0.225	-0.235
2013-02-25 00:00:00	-0.233	-0.235
2013-02-26 00:00:00	-0.229	-0.236
2013-02-27 00:00:00	-0.24	-0.236
2013-02-28 00:00:00	-0.252	-0.235
2013-03-01 00:00:00	-0.233	-0.235
2013-03-02 00:00:00	-0.236	-0.234
2013-03-03 00:00:00	-0.223	-0.233
2013-03-04 00:00:00	-0.239	-0.233
2013-03-05 00:00:00	-0.24	-0.233
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2013-03-07 00:00:00	-0.239	-0.232
2013-03-08 00:00:00	-0.221	-0.232
2013-03-09 00:00:00	-0.229	-0.232
2013-03-10 00:00:00	-0.246	-0.232
2013-03-11 00:00:00	-0.239	-0.232
2013-03-12 00:00:00	-0.237	-0.232
2013-03-13 00:00:00	-0.242	-0.232
2013-03-14 00:00:00	-0.235	-0.231
2013-03-15 00:00:00	-0.237	-0.231
2013-03-16 00:00:00	-0.235	-0.23
2013-03-17 00:00:00	-0.222	-0.23
2013-03-18 00:00:00	-0.233	-0.23
2013-03-19 00:00:00	-0.225	-0.23
2013-03-20 00:00:00	-0.229	-0.229
2013-03-21 00:00:00	-0.198	-0.229
2013-03-22 00:00:00	-0.213	-0.229
2013-03-23 00:00:00	-0.241	-0.229
2013-03-24 00:00:00	-0.233	-0.228
2013-03-25 00:00:00	-0.225	-0.228
2013-03-26 00:00:00	-0.226	-0.227
2013-03-27 00:00:00	-0.22	-0.227
2013-03-28 00:00:00	-0.223	-0.227
2013-03-29 00:00:00	-0.219	-0.226
2013-03-30 00:00:00	-0.244	-0.226
2013-03-31 00:00:00	-0.219	-0.226
2013-04-01 00:00:00	-0.23	-0.226
2013-04-02 00:00:00	-0.238	-0.227
2013-04-03 00:00:00	-0.225	-0.227
2013-04-04 00:00:00	-0.207	-0.227
2013-04-05 00:00:00	-0.229	-0.228
2013-04-06 00:00:00	-0.246	-0.23
2013-04-07 00:00:00	-0.226	-0.231
2013-04-08 00:00:00	-0.2	-0.231

2013-04-09 00:00:00	-0.219	-0.231
2013-04-10 00:00:00	-0.224	-0.231
2013-04-11 00:00:00	-0.244	-0.231
2013-04-12 00:00:00	-0.229	-0.231
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2013-04-15 00:00:00	-0.233	-0.231
2013-04-16 00:00:00	-0.234	-0.231
2013-04-17 00:00:00	-0.255	-0.231
2013-04-18 00:00:00	-0.246	-0.231
2013-04-19 00:00:00	-0.23	-0.231
2013-04-20 00:00:00	-0.255	-0.232
2013-04-21 00:00:00	-0.242	-0.233
2013-04-22 00:00:00	-0.249	-0.233
2013-04-23 00:00:00	-0.244	-0.233
2013-04-24 00:00:00	-0.244	-0.234
2013-04-25 00:00:00	-0.212	-0.234
2013-04-26 00:00:00	-0.232	-0.235
2013-04-27 00:00:00	-0.216	-0.235
2013-04-28 00:00:00	-0.234	-0.235
2013-04-29 00:00:00	-0.224	-0.234
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2013-05-02 00:00:00	-0.236	-0.233
2013-05-03 00:00:00	-0.222	-0.232
2013-05-04 00:00:00	-0.22	-0.232
2013-05-05 00:00:00	-0.236	-0.231
2013-05-06 00:00:00	-0.26	-0.23
2013-05-07 00:00:00	-0.255	-0.229
2013-05-08 00:00:00	-0.23	-0.228
2013-05-09 00:00:00	-0.223	-0.227
2013-05-10 00:00:00	-0.24	-0.226
2013-05-11 00:00:00	-0.231	-0.226
2013-05-12 00:00:00	-0.242	-0.225
2013-05-13 00:00:00	-0.235	-0.225
2013-05-14 00:00:00	-0.216	-0.224
2013-05-15 00:00:00	-0.212	-0.223
2013-05-16 00:00:00	-0.228	-0.223
2013-05-17 00:00:00	-0.216	-0.222
2013-05-18 00:00:00	-0.219	-0.222
2013-05-19 00:00:00	-0.23	-0.221
2013-05-20 00:00:00	-0.219	-0.221
2013-05-21 00:00:00	-0.225	-0.221
2013-05-22 00:00:00	-0.206	-0.22
2013-05-23 00:00:00	-0.201	-0.219
2013-05-24 00:00:00	-0.233	-0.219
2013-05-25 00:00:00	-0.214	-0.218

2013-05-26 00:00:00	-0.215	-0.217
2013-05-27 00:00:00	-0.184	-0.216
2013-05-28 00:00:00	-0.207	-0.215
2013-05-29 00:00:00	-0.209	-0.215
2013-05-30 00:00:00	-0.21	-0.215
2013-05-31 00:00:00	-0.207	-0.215
2013-06-01 00:00:00	-0.212	-0.214
2013-06-02 00:00:00	-0.222	-0.214
2013-06-03 00:00:00	-0.2	-0.214
2013-06-04 00:00:00	-0.222	-0.212
2013-06-05 00:00:00	-0.24	-0.211
2013-06-06 00:00:00	-0.207	-0.211
2013-06-07 00:00:00	-0.237	-0.21
2013-06-08 00:00:00	-0.226	-0.211
2013-06-09 00:00:00	-0.19	-0.21
2013-06-10 00:00:00	-0.2	-0.21
2013-06-11 00:00:00	-0.217	-0.21
2013-06-12 00:00:00	-0.215	-0.211
2013-06-13 00:00:00	-0.214	-0.212
2013-06-14 00:00:00	-0.219	-0.212
2013-06-15 00:00:00	-0.211	-0.213
2013-06-16 00:00:00	-0.215	-0.214
2013-06-17 00:00:00	-0.206	-0.214
2013-06-18 00:00:00	-0.21	-0.215
2013-06-19 00:00:00	-0.188	-0.216
2013-06-20 00:00:00	-0.169	-0.215
2013-06-21 00:00:00	-0.222	-0.215
2013-06-22 00:00:00	-0.201	-0.216
2013-06-23 00:00:00	-0.213	-0.216
2013-06-24 00:00:00	-0.194	
2013-06-25 00:00:00	-0.239	
2013-06-26 00:00:00	-0.208	
2013-06-27 00:00:00	-0.226	
2013-06-28 00:00:00	-0.208	
2013-06-29 00:00:00	-0.233	
2013-06-30 00:00:00	-0.247	
2013-07-01 00:00:00	-0.22	
2013-07-02 00:00:00	-0.222	
2013-07-03 00:00:00	-0.247	
2013-07-04 00:00:00	-0.216	
2013-07-05 00:00:00	-0.214	
2013-07-06 00:00:00	-0.242	
2013-07-07 00:00:00	-0.234	
2013-07-08 00:00:00	-0.236	
2013-07-10 00:00:00	-0.235	
2013-07-11 00:00:00	-0.286	
2013-07-12 00:00:00	-0.234	

2013-07-13 00:00:00	-0.249	
2013-07-14 00:00:00	-0.24	
2013-07-15 00:00:00	-0.254	
2013-07-16 00:00:00	-0.23	
2013-07-17 00:00:00	-0.241	
2013-07-18 00:00:00	-0.235	
2013-07-19 00:00:00	-0.271	
2013-07-20 00:00:00	-0.239	
2013-07-21 00:00:00	-0.219	
2013-07-22 00:00:00	-0.218	
2013-07-23 00:00:00	-0.231	
2013-07-24 00:00:00	-0.251	
2013-07-25 00:00:00	-0.253	-0.247
2013-07-26 00:00:00	-0.241	-0.247
2013-07-27 00:00:00	-0.266	-0.245
2013-07-28 00:00:00	-0.251	-0.246
2013-07-29 00:00:00	-0.227	-0.246
2013-07-30 00:00:00	-0.243	-0.246
2013-07-31 00:00:00	-0.281	-0.246
2013-08-01 00:00:00	-0.251	-0.246
2013-08-02 00:00:00	-0.249	-0.246
2013-08-03 00:00:00	-0.257	-0.247
2013-08-04 00:00:00	-0.242	-0.248
2013-08-05 00:00:00	-0.245	-0.248
2013-08-06 00:00:00	-0.254	-0.249
2013-08-07 00:00:00	-0.267	-0.249
2013-08-08 00:00:00	-0.24	-0.249
2013-08-09 00:00:00	-0.259	
2013-08-10 00:00:00	-0.237	
2013-08-11 00:00:00	-0.235	
2013-08-12 00:00:00	-0.248	
2013-08-13 00:00:00	-0.247	
2013-08-14 00:00:00	-0.249	
2013-08-15 00:00:00	-0.249	
2013-08-16 00:00:00	-0.242	
2013-08-17 00:00:00	-0.242	
2013-08-18 00:00:00	-0.249	
2013-08-19 00:00:00	-0.291	
2013-08-20 00:00:00	-0.248	
2013-08-21 00:00:00	-0.266	
2013-08-22 00:00:00	-0.22	
2013-08-23 00:00:00	-0.231	
2013-09-20 00:00:00	-0.224	
2013-09-21 00:00:00	-0.24	
2013-09-22 00:00:00	-0.21	
2013-09-23 00:00:00	-0.247	
2013-09-24 00:00:00	-0.236	

2013-09-25 00:00:00	-0.225	
2013-09-26 00:00:00	-0.21	
2013-09-27 00:00:00	-0.223	
2013-09-28 00:00:00	-0.228	
2013-09-29 00:00:00	-0.238	
2013-09-30 00:00:00	-0.229	
2013-10-01 00:00:00	-0.209	
2013-10-02 00:00:00	-0.222	
2013-10-03 00:00:00	-0.227	
2013-10-04 00:00:00	-0.242	
2013-10-05 00:00:00	-0.245	-0.228
2013-10-06 00:00:00	-0.23	-0.228
2013-10-07 00:00:00	-0.235	-0.228
2013-10-08 00:00:00	-0.229	-0.229
2013-10-09 00:00:00	-0.233	-0.228
2013-10-10 00:00:00	-0.215	-0.228
2013-10-11 00:00:00	-0.217	-0.228
2013-10-12 00:00:00	-0.226	-0.229
2013-10-13 00:00:00	-0.213	-0.228
2013-10-14 00:00:00	-0.254	-0.229
2013-10-15 00:00:00	-0.238	-0.229
2013-10-16 00:00:00	-0.229	-0.229
2013-10-17 00:00:00	-0.229	-0.231
2013-10-18 00:00:00	-0.225	-0.232
2013-10-19 00:00:00	-0.224	-0.232
2013-10-20 00:00:00	-0.226	-0.231
2013-10-21 00:00:00	-0.229	-0.229
2013-10-22 00:00:00	-0.229	-0.229
2013-10-23 00:00:00	-0.231	-0.229
2013-10-24 00:00:00	-0.222	-0.228
2013-10-25 00:00:00	-0.24	-0.227
2013-10-26 00:00:00	-0.234	-0.227
2013-10-27 00:00:00	-0.231	-0.227
2013-10-28 00:00:00	-0.203	-0.227
2013-10-29 00:00:00	-0.23	-0.227
2013-10-30 00:00:00	-0.249	-0.226
2013-10-31 00:00:00	-0.247	-0.224
2013-11-01 00:00:00	-0.255	-0.223
2013-11-02 00:00:00	-0.248	-0.223
2013-11-03 00:00:00	-0.226	-0.223
2013-11-04 00:00:00	-0.206	-0.222
2013-11-05 00:00:00	-0.209	-0.221
2013-11-06 00:00:00	-0.229	-0.22
2013-11-07 00:00:00	-0.216	-0.22
2013-11-08 00:00:00	-0.207	-0.22
2013-11-09 00:00:00	-0.213	-0.22
2013-11-10 00:00:00	-0.207	-0.22

2013-11-11 00:00:00	-0.218	-0.22
2013-11-12 00:00:00	-0.21	-0.219
2013-11-13 00:00:00	-0.222	-0.22
2013-11-14 00:00:00	-0.211	-0.219
2013-11-15 00:00:00	-0.197	-0.219
2013-11-16 00:00:00	-0.196	-0.219
2013-11-17 00:00:00	-0.219	-0.218
2013-11-18 00:00:00	-0.217	-0.216
2013-11-19 00:00:00	-0.204	-0.215
2013-11-20 00:00:00	-0.197	-0.217
2013-11-21 00:00:00	-0.209	-0.218
2013-11-22 00:00:00	-0.227	-0.218
2013-11-23 00:00:00	-0.219	-0.218
2013-11-24 00:00:00	-0.235	-0.22
2013-11-25 00:00:00	-0.221	-0.221
2013-11-26 00:00:00	-0.227	-0.223
2013-11-27 00:00:00	-0.223	-0.223
2013-11-28 00:00:00	-0.222	-0.224
2013-11-29 00:00:00	-0.218	-0.225
2013-11-30 00:00:00	-0.241	-0.225
2013-12-01 00:00:00	-0.236	-0.226
2013-12-02 00:00:00	-0.213	-0.227
2013-12-03 00:00:00	-0.214	-0.228
2013-12-04 00:00:00	-0.196	-0.228
2013-12-05 00:00:00	-0.24	-0.229
2013-12-06 00:00:00	-0.246	-0.23
2013-12-07 00:00:00	-0.224	-0.231
2013-12-08 00:00:00	-0.229	-0.233
2013-12-09 00:00:00	-0.274	-0.234
2013-12-10 00:00:00	-0.253	-0.235
2013-12-11 00:00:00	-0.243	-0.236
2013-12-12 00:00:00	-0.24	-0.237
2013-12-13 00:00:00	-0.233	-0.238
2013-12-14 00:00:00	-0.237	-0.239
2013-12-15 00:00:00	-0.233	-0.24
2013-12-16 00:00:00	-0.22	-0.241
2013-12-17 00:00:00	-0.226	-0.241
2013-12-18 00:00:00	-0.25	-0.243
2013-12-19 00:00:00	-0.232	-0.243
2013-12-20 00:00:00	-0.217	-0.245
2013-12-21 00:00:00	-0.239	-0.246
2013-12-22 00:00:00	-0.248	-0.247
2013-12-23 00:00:00	-0.263	-0.247
2013-12-24 00:00:00	-0.264	-0.248
2013-12-25 00:00:00	-0.262	-0.247
2013-12-26 00:00:00	-0.254	-0.247
2013-12-27 00:00:00	-0.255	-0.246



2013-12-28 00:00:00	-0.247	-0.246
2013-12-29 00:00:00	-0.262	-0.247
2013-12-30 00:00:00	-0.251	-0.248
2013-12-31 00:00:00	-0.263	-0.249
2014-01-01 00:00:00	-0.253	-0.25
2014-01-02 00:00:00	-0.263	-0.251
2014-01-03 00:00:00	-0.231	-0.251
2014-01-04 00:00:00	-0.248	-0.252
2014-01-05 00:00:00	-0.266	-0.253
2014-01-06 00:00:00	-0.265	-0.254
2014-01-07 00:00:00	-0.241	-0.254
2014-01-08 00:00:00	-0.266	-0.254
2014-01-09 00:00:00	-0.242	-0.254
2014-01-10 00:00:00	-0.236	-0.254
2014-01-11 00:00:00	-0.23	-0.254
2014-01-12 00:00:00	-0.24	-0.254
2014-01-13 00:00:00	-0.261	-0.254
2014-01-14 00:00:00	-0.265	-0.254
2014-01-15 00:00:00	-0.258	-0.253
2014-01-16 00:00:00	-0.254	-0.253
2014-01-17 00:00:00	-0.252	-0.253
2014-01-18 00:00:00	-0.254	-0.254
2014-01-19 00:00:00	-0.252	-0.254
2014-01-20 00:00:00	-0.273	-0.255
2014-01-21 00:00:00	-0.258	-0.254
2014-01-22 00:00:00	-0.254	-0.253
2014-01-23 00:00:00	-0.249	-0.254
2014-01-24 00:00:00	-0.258	-0.254
2014-01-25 00:00:00	-0.262	-0.254
2014-01-26 00:00:00	-0.252	-0.254
2014-01-27 00:00:00	-0.265	-0.255
2014-01-28 00:00:00	-0.265	-0.255
2014-01-29 00:00:00	-0.258	-0.254
2014-01-30 00:00:00	-0.205	-0.254
2014-01-31 00:00:00	-0.253	-0.254
2014-02-01 00:00:00	-0.263	-0.254
2014-02-02 00:00:00	-0.285	-0.254
2014-02-03 00:00:00	-0.245	-0.253
2014-02-04 00:00:00	-0.271	-0.253
2014-02-05 00:00:00	-0.245	-0.252
2014-02-06 00:00:00	-0.244	-0.253
2014-02-07 00:00:00	-0.251	-0.253
2014-02-08 00:00:00	-0.261	-0.254
2014-02-09 00:00:00	-0.245	-0.254
2014-02-10 00:00:00	-0.248	-0.254
2014-02-11 00:00:00	-0.248	-0.254
2014-02-12 00:00:00	-0.253	-0.254

2014-02-13 00:00:00	-0.241	-0.254
2014-02-14 00:00:00	-0.252	-0.254
2014-02-15 00:00:00	-0.258	-0.256
2014-02-16 00:00:00	-0.239	-0.257
2014-02-17 00:00:00	-0.255	-0.257
2014-02-18 00:00:00	-0.245	-0.256
2014-02-19 00:00:00	-0.249	-0.257
2014-02-20 00:00:00	-0.25	-0.257
2014-02-21 00:00:00	-0.26	-0.259
2014-02-22 00:00:00	-0.271	-0.259
2014-02-23 00:00:00	-0.274	-0.26
2014-02-24 00:00:00	-0.261	-0.26
2014-02-25 00:00:00	-0.27	-0.261
2014-02-26 00:00:00	-0.253	-0.261
2014-02-27 00:00:00	-0.26	-0.262
2014-02-28 00:00:00	-0.246	-0.263
2014-03-01 00:00:00	-0.275	-0.264
2014-03-02 00:00:00	-0.258	-0.265
2014-03-03 00:00:00	-0.285	-0.265
2014-03-04 00:00:00	-0.268	-0.266
2014-03-05 00:00:00	-0.26	-0.267
2014-03-06 00:00:00	-0.278	-0.268
2014-03-07 00:00:00	-0.272	-0.269
2014-03-08 00:00:00	-0.286	-0.27
2014-03-09 00:00:00	-0.248	-0.27
2014-03-10 00:00:00	-0.279	-0.271
2014-03-11 00:00:00	-0.266	-0.271
2014-03-12 00:00:00	-0.281	-0.271
2014-03-13 00:00:00	-0.261	-0.272
2014-03-14 00:00:00	-0.269	-0.273
2014-03-15 00:00:00	-0.292	-0.273
2014-03-16 00:00:00	-0.275	-0.275
2014-03-17 00:00:00	-0.261	-0.275
2014-03-18 00:00:00	-0.263	-0.276
2014-03-19 00:00:00	-0.274	-0.276
2014-03-20 00:00:00	-0.288	-0.277
2014-03-21 00:00:00	-0.269	-0.277
2014-03-22 00:00:00	-0.273	-0.277
2014-03-23 00:00:00	-0.279	-0.277
2014-03-24 00:00:00	-0.287	-0.277
2014-03-25 00:00:00	-0.291	-0.278
2014-03-26 00:00:00	-0.275	-0.279
2014-03-27 00:00:00	-0.26	-0.28
2014-03-28 00:00:00	-0.291	-0.28
2014-03-29 00:00:00	-0.294	-0.28
2014-03-30 00:00:00	-0.258	-0.281
2014-03-31 00:00:00	-0.297	-0.28

2014-04-01 00:00:00	-0.277	-0.28
2014-04-02 00:00:00	-0.29	-0.281
2014-04-03 00:00:00	-0.292	-0.281
2014-04-04 00:00:00	-0.289	-0.281
2014-04-05 00:00:00	-0.276	-0.282
2014-04-06 00:00:00	-0.268	-0.283
2014-04-07 00:00:00	-0.289	-0.283
2014-04-08 00:00:00	-0.283	-0.282
2014-04-09 00:00:00	-0.281	-0.281
2014-04-10 00:00:00	-0.288	-0.281
2014-04-11 00:00:00	-0.297	-0.279
2014-04-12 00:00:00	-0.281	-0.28
2014-04-13 00:00:00	-0.284	-0.279
2014-04-14 00:00:00	-0.286	-0.279
2014-04-15 00:00:00	-0.276	-0.279
2014-04-16 00:00:00	-0.263	-0.278
2014-04-17 00:00:00	-0.289	-0.278
2014-04-18 00:00:00	-0.254	-0.277
2014-04-19 00:00:00	-0.28	-0.276
2014-04-20 00:00:00	-0.333	-0.275
2014-04-21 00:00:00	-0.283	-0.274
2014-04-22 00:00:00	-0.271	-0.273
2014-04-23 00:00:00	-0.271	-0.273
2014-04-24 00:00:00	-0.258	-0.272
2014-04-25 00:00:00	-0.271	-0.27
2014-04-26 00:00:00	-0.23	-0.27
2014-04-27 00:00:00	-0.278	-0.269
2014-04-28 00:00:00	-0.276	-0.269
2014-04-29 00:00:00	-0.265	-0.268
2014-04-30 00:00:00	-0.279	-0.268
2014-05-01 00:00:00	-0.261	-0.268
2014-05-02 00:00:00	-0.262	-0.268
2014-05-03 00:00:00	-0.264	-0.268
2014-05-04 00:00:00	-0.271	-0.268
2014-05-05 00:00:00	-0.243	-0.268
2014-05-06 00:00:00	-0.256	-0.266
2014-05-07 00:00:00	-0.252	-0.266
2014-05-08 00:00:00	-0.27	-0.266
2014-05-09 00:00:00	-0.244	-0.267
2014-05-10 00:00:00	-0.247	-0.267
2014-05-11 00:00:00	-0.266	-0.267
2014-05-12 00:00:00	-0.267	-0.269
2014-05-13 00:00:00	-0.274	-0.269
2014-05-14 00:00:00	-0.268	-0.27
2014-05-15 00:00:00	-0.277	-0.27
2014-05-16 00:00:00	-0.271	-0.27
2014-05-17 00:00:00	-0.27	-0.271

2014-05-18 00:00:00	-0.287	-0.271
2014-05-19 00:00:00	-0.27	-0.271
2014-05-20 00:00:00	-0.279	-0.271
2014-05-21 00:00:00	-0.265	-0.272
2014-05-22 00:00:00	-0.28	-0.272
2014-05-23 00:00:00	-0.289	-0.272
2014-05-24 00:00:00	-0.281	-0.273
2014-05-25 00:00:00	-0.271	-0.274
2014-05-26 00:00:00	-0.276	-0.275
2014-05-27 00:00:00	-0.289	-0.275
2014-05-28 00:00:00	-0.278	-0.276
2014-05-29 00:00:00	-0.299	-0.276
2014-05-30 00:00:00	-0.277	-0.277
2014-05-31 00:00:00	-0.276	-0.277
2014-06-01 00:00:00	-0.279	-0.278
2014-06-02 00:00:00	-0.266	-0.278
2014-06-03 00:00:00	-0.267	-0.278
2014-06-04 00:00:00	-0.266	-0.279
2014-06-05 00:00:00	-0.269	-0.28
2014-06-06 00:00:00	-0.272	-0.281
2014-06-07 00:00:00	-0.256	-0.281
2014-06-08 00:00:00	-0.286	-0.281
2014-06-09 00:00:00	-0.274	-0.282
2014-06-10 00:00:00	-0.27	-0.283
2014-06-11 00:00:00	-0.287	-0.283
2014-06-12 00:00:00	-0.281	-0.283
2014-06-13 00:00:00	-0.283	-0.284
2014-06-14 00:00:00	-0.288	-0.284
2014-06-15 00:00:00	-0.282	-0.285
2014-06-16 00:00:00	-0.293	-0.287
2014-06-17 00:00:00	-0.272	-0.288
2014-06-18 00:00:00	-0.302	-0.289
2014-06-19 00:00:00	-0.288	-0.291
2014-06-20 00:00:00	-0.307	-0.292
2014-06-21 00:00:00	-0.296	-0.294
2014-06-22 00:00:00	-0.299	-0.295
2014-06-23 00:00:00	-0.291	-0.296
2014-06-24 00:00:00	-0.298	-0.297
2014-06-25 00:00:00	-0.297	-0.297
2014-06-26 00:00:00	-0.294	-0.299
2014-06-27 00:00:00	-0.286	-0.299
2014-06-28 00:00:00	-0.299	-0.301
2014-06-29 00:00:00	-0.301	-0.302
2014-06-30 00:00:00	-0.322	-0.302
2014-07-01 00:00:00	-0.314	-0.304
2014-07-02 00:00:00	-0.307	-0.304
2014-07-03 00:00:00	-0.303	-0.305

2014-07-04 00:00:00	-0.327	-0.304
2014-07-05 00:00:00	-0.322	-0.306
2014-07-06 00:00:00	-0.321	-0.306
2014-07-07 00:00:00	-0.302	-0.306
2014-07-08 00:00:00	-0.285	-0.306
2014-07-09 00:00:00	-0.301	-0.307
2014-07-10 00:00:00	-0.304	-0.308
2014-07-11 00:00:00	-0.305	-0.308
2014-07-12 00:00:00	-0.304	-0.308
2014-07-13 00:00:00	-0.329	-0.309
2014-07-14 00:00:00	-0.313	-0.309
2014-07-15 00:00:00	-0.302	-0.309
2014-07-16 00:00:00	-0.328	-0.308
2014-07-17 00:00:00	-0.319	-0.308
2014-07-18 00:00:00	-0.282	-0.309
2014-07-19 00:00:00	-0.291	-0.309
2014-07-20 00:00:00	-0.325	-0.309
2014-07-21 00:00:00	-0.316	-0.309
2014-07-22 00:00:00	-0.307	-0.309
2014-07-23 00:00:00	-0.302	-0.309
2014-07-24 00:00:00	-0.324	-0.31
2014-07-25 00:00:00	-0.301	-0.31
2014-07-26 00:00:00	-0.297	-0.311
2014-07-27 00:00:00	-0.3	-0.312
2014-07-28 00:00:00	-0.328	-0.313
2014-07-29 00:00:00	-0.301	-0.314
2014-07-30 00:00:00	-0.301	-0.314
2014-07-31 00:00:00	-0.301	-0.315
2014-08-01 00:00:00	-0.306	-0.315
2014-08-02 00:00:00	-0.32	-0.315
2014-08-03 00:00:00	-0.304	-0.316
2014-08-04 00:00:00	-0.341	-0.317
2014-08-05 00:00:00	-0.317	-0.316
2014-08-06 00:00:00	-0.315	-0.316
2014-08-07 00:00:00	-0.298	-0.317
2014-08-08 00:00:00	-0.316	-0.318
2014-08-09 00:00:00	-0.319	-0.318
2014-08-10 00:00:00	-0.318	-0.318
2014-08-11 00:00:00	-0.359	-0.319
2014-08-12 00:00:00	-0.336	-0.319
2014-08-13 00:00:00	-0.341	-0.32
2014-08-14 00:00:00	-0.317	-0.32
2014-08-15 00:00:00	-0.326	-0.32
2014-08-16 00:00:00	-0.333	-0.321
2014-08-17 00:00:00	-0.32	-0.321
2014-08-18 00:00:00	-0.321	-0.321
2014-08-19 00:00:00	-0.305	-0.321

2014-08-20 00:00:00	-0.315	-0.32
2014-08-21 00:00:00	-0.32	-0.32
2014-08-22 00:00:00	-0.32	-0.32
2014-08-23 00:00:00	-0.323	-0.321
2014-08-24 00:00:00	-0.327	-0.321
2014-08-25 00:00:00	-0.306	-0.321
2014-08-26 00:00:00	-0.326	-0.322
2014-08-27 00:00:00	-0.319	-0.32
2014-08-28 00:00:00	-0.343	-0.32
2014-08-29 00:00:00	-0.309	-0.319
2014-08-30 00:00:00	-0.3	-0.319
2014-08-31 00:00:00	-0.329	-0.319
2014-09-01 00:00:00	-0.32	-0.319
2014-09-02 00:00:00	-0.314	-0.319
2014-09-03 00:00:00	-0.309	-0.319
2014-09-04 00:00:00	-0.303	-0.32
2014-09-05 00:00:00	-0.309	-0.321
2014-09-06 00:00:00	-0.33	-0.321
2014-09-07 00:00:00	-0.319	-0.323
2014-09-08 00:00:00	-0.309	-0.324
2014-09-09 00:00:00	-0.333	-0.324
2014-09-10 00:00:00	-0.327	-0.326
2014-09-11 00:00:00	-0.312	-0.326
2014-09-12 00:00:00	-0.324	-0.327
2014-09-13 00:00:00	-0.322	-0.327
2014-09-14 00:00:00	-0.31	-0.328
2014-09-15 00:00:00	-0.338	-0.329
2014-09-16 00:00:00	-0.335	-0.329
2014-09-17 00:00:00	-0.321	-0.329
2014-09-18 00:00:00	-0.322	-0.33
2014-09-19 00:00:00	-0.314	-0.33
2014-09-20 00:00:00	-0.356	-0.332
2014-09-21 00:00:00	-0.337	-0.333
2014-09-22 00:00:00	-0.362	-0.333
2014-09-23 00:00:00	-0.361	-0.333
2014-09-24 00:00:00	-0.335	-0.334
2014-09-25 00:00:00	-0.349	-0.333
2014-09-26 00:00:00	-0.347	-0.333
2014-09-27 00:00:00	-0.334	-0.334
2014-09-28 00:00:00	-0.35	-0.334
2014-09-29 00:00:00	-0.326	-0.335
2014-09-30 00:00:00	-0.327	-0.336
2014-10-01 00:00:00	-0.336	-0.337
2014-10-02 00:00:00	-0.335	-0.337
2014-10-03 00:00:00	-0.339	-0.338
2014-10-04 00:00:00	-0.322	-0.339
2014-10-05 00:00:00	-0.342	-0.34

2014-10-06 00:00:00	-0.341	-0.34
2014-10-07 00:00:00	-0.333	-0.341
2014-10-08 00:00:00	-0.329	-0.34
2014-10-09 00:00:00	-0.329	-0.34
2014-10-10 00:00:00	-0.319	-0.34
2014-10-11 00:00:00	-0.331	-0.34
2014-10-12 00:00:00	-0.329	-0.339
2014-10-13 00:00:00	-0.334	-0.338
2014-10-14 00:00:00	-0.337	-0.337
2014-10-15 00:00:00	-0.348	-0.338
2014-10-16 00:00:00	-0.354	-0.337
2014-10-17 00:00:00	-0.344	-0.337
2014-10-18 00:00:00	-0.365	-0.336
2014-10-19 00:00:00	-0.35	-0.336
2014-10-20 00:00:00	-0.339	-0.336
2014-10-21 00:00:00	-0.35	-0.335
2014-10-22 00:00:00	-0.361	-0.335
2014-10-23 00:00:00	-0.339	-0.334
2014-10-24 00:00:00	-0.359	-0.334
2014-10-25 00:00:00	-0.347	-0.333
2014-10-26 00:00:00	-0.335	-0.332
2014-10-27 00:00:00	-0.322	-0.33
2014-10-28 00:00:00	-0.313	-0.331
2014-10-29 00:00:00	-0.324	-0.329
2014-10-30 00:00:00	-0.337	-0.327
2014-10-31 00:00:00	-0.316	-0.326
2014-11-01 00:00:00	-0.32	-0.324
2014-11-02 00:00:00	-0.303	-0.324
2014-11-03 00:00:00	-0.33	-0.322
2014-11-04 00:00:00	-0.326	-0.321
2014-11-05 00:00:00	-0.325	-0.32
2014-11-06 00:00:00	-0.334	-0.317
2014-11-07 00:00:00	-0.31	-0.314
2014-11-08 00:00:00	-0.313	-0.313
2014-11-09 00:00:00	-0.302	-0.311
2014-11-10 00:00:00	-0.294	-0.311
2014-11-11 00:00:00	-0.285	-0.311
2014-11-12 00:00:00	-0.331	-0.31
2014-11-13 00:00:00	-0.292	-0.31
2014-11-14 00:00:00	-0.277	-0.31
2014-11-15 00:00:00	-0.313	-0.309
2014-11-16 00:00:00	-0.285	-0.309
2014-11-17 00:00:00	-0.335	-0.31
2014-11-18 00:00:00	-0.32	-0.31
2014-11-19 00:00:00	-0.311	-0.309
2014-11-20 00:00:00	-0.297	-0.308
2014-11-21 00:00:00	-0.279	-0.309

2014-11-22 00:00:00	-0.275	-0.308
2014-11-23 00:00:00	-0.287	-0.309
2014-11-24 00:00:00	-0.315	-0.309
2014-11-25 00:00:00	-0.333	-0.31
2014-11-26 00:00:00	-0.326	-0.313
2014-11-27 00:00:00	-0.315	-0.314
2014-11-28 00:00:00	-0.311	-0.314
2014-11-29 00:00:00	-0.302	-0.315
2014-11-30 00:00:00	-0.32	-0.317
2014-12-01 00:00:00	-0.317	-0.317
2014-12-02 00:00:00	-0.343	-0.319
2014-12-03 00:00:00	-0.301	-0.319
2014-12-04 00:00:00	-0.314	-0.32
2014-12-05 00:00:00	-0.289	-0.321
2014-12-06 00:00:00	-0.338	-0.322
2014-12-07 00:00:00	-0.328	-0.324
2014-12-08 00:00:00	-0.328	-0.325
2014-12-09 00:00:00	-0.325	-0.327
2014-12-10 00:00:00	-0.332	-0.327
2014-12-11 00:00:00	-0.364	-0.328
2014-12-12 00:00:00	-0.341	-0.328
2014-12-13 00:00:00	-0.323	-0.329
2014-12-14 00:00:00	-0.327	-0.331
2014-12-15 00:00:00	-0.342	-0.332
2014-12-16 00:00:00	-0.319	-0.333
2014-12-17 00:00:00	-0.323	-0.333
2014-12-18 00:00:00	-0.354	-0.332
2014-12-19 00:00:00	-0.349	-0.333
2014-12-20 00:00:00	-0.343	-0.334
2014-12-21 00:00:00	-0.334	-0.336
2014-12-22 00:00:00	-0.312	-0.336
2014-12-23 00:00:00	-0.334	-0.337
2014-12-24 00:00:00	-0.337	-0.337
2014-12-25 00:00:00	-0.318	-0.338
2014-12-26 00:00:00	-0.345	-0.338
2014-12-27 00:00:00	-0.349	-0.337
2014-12-28 00:00:00	-0.345	-0.337
2014-12-29 00:00:00	-0.351	-0.337
2014-12-30 00:00:00	-0.351	-0.338
2014-12-31 00:00:00	-0.336	-0.338
2015-01-01 00:00:00	-0.317	-0.339
2015-01-02 00:00:00	-0.335	-0.34
2015-01-03 00:00:00	-0.321	-0.339
2015-01-04 00:00:00	-0.334	-0.339
2015-01-05 00:00:00	-0.36	-0.339
2015-01-06 00:00:00	-0.354	-0.339
2015-01-07 00:00:00	-0.348	-0.341



2015-01-08 00:00:00	-0.333	-0.342
2015-01-09 00:00:00	-0.345	-0.342
2015-01-10 00:00:00	-0.321	-0.343
2015-01-11 00:00:00	-0.331	-0.343
2015-01-12 00:00:00	-0.343	-0.342
2015-01-13 00:00:00	-0.332	-0.342
2015-01-14 00:00:00	-0.364	-0.342
2015-01-15 00:00:00	-0.328	-0.343
2015-01-16 00:00:00	-0.349	-0.343
2015-01-17 00:00:00	-0.358	-0.344
2015-01-18 00:00:00	-0.337	-0.345
2015-01-19 00:00:00	-0.348	-0.346
2015-01-20 00:00:00	-0.333	-0.346
2015-01-21 00:00:00	-0.348	-0.346
2015-01-22 00:00:00	-0.357	-0.346
2015-01-23 00:00:00	-0.361	-0.346
2015-01-24 00:00:00	-0.348	-0.347
2015-01-25 00:00:00	-0.344	-0.346
2015-01-26 00:00:00	-0.339	-0.348
2015-01-27 00:00:00	-0.322	-0.349
2015-01-28 00:00:00	-0.358	-0.349
2015-01-29 00:00:00	-0.359	-0.35
2015-01-30 00:00:00	-0.363	-0.349
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2015-02-04 00:00:00	-0.346	-0.35
2015-02-05 00:00:00	-0.344	-0.35
2015-02-06 00:00:00	-0.368	-0.35
2015-02-07 00:00:00	-0.334	-0.349
2015-02-08 00:00:00	-0.359	-0.348
2015-02-09 00:00:00	-0.339	-0.349
2015-02-10 00:00:00	-0.368	-0.349
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2015-02-12 00:00:00	-0.361	-0.35
2015-02-13 00:00:00	-0.346	-0.349
2015-02-14 00:00:00	-0.345	-0.349
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2015-02-16 00:00:00	-0.335	-0.35
2015-02-17 00:00:00	-0.338	-0.35
2015-02-18 00:00:00	-0.366	-0.351
2015-02-19 00:00:00	-0.359	-0.352
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2015-02-21 00:00:00	-0.341	-0.354
2015-02-22 00:00:00	-0.331	-0.354
2015-02-23 00:00:00	-0.329	-0.354

2015-02-24 00:00:00	-0.368	-0.354
2015-02-25 00:00:00	-0.344	-0.355
2015-02-26 00:00:00	-0.358	-0.355
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2015-03-02 00:00:00	-0.361	-0.356
2015-03-03 00:00:00	-0.357	-0.357
2015-03-04 00:00:00	-0.371	-0.358
2015-03-05 00:00:00	-0.381	-0.36
2015-03-06 00:00:00	-0.387	-0.36
2015-03-07 00:00:00	-0.37	-0.36
2015-03-08 00:00:00	-0.381	-0.361
2015-03-09 00:00:00	-0.349	-0.362
2015-03-10 00:00:00	-0.345	-0.363
2015-03-11 00:00:00	-0.361	-0.365
2015-03-12 00:00:00	-0.372	-0.365
2015-03-13 00:00:00	-0.367	-0.366
2015-03-14 00:00:00	-0.338	-0.366
2015-03-15 00:00:00	-0.358	-0.368
2015-03-16 00:00:00	-0.376	-0.369
2015-03-17 00:00:00	-0.351	-0.369
2015-03-18 00:00:00	-0.377	-0.369
2015-03-19 00:00:00	-0.387	-0.37
2015-03-20 00:00:00	-0.375	-0.37
2015-03-21 00:00:00	-0.375	-0.37
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2015-03-23 00:00:00	-0.36	-0.369
2015-03-24 00:00:00	-0.367	-0.369
2015-03-25 00:00:00	-0.354	-0.368
2015-03-26 00:00:00	-0.389	-0.369
2015-03-27 00:00:00	-0.367	-0.369
2015-03-28 00:00:00	-0.371	-0.369
2015-03-29 00:00:00	-0.37	-0.369
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2015-04-03 00:00:00	-0.38	-0.37
2015-04-04 00:00:00	-0.366	-0.37
2015-04-05 00:00:00	-0.374	-0.37
2015-04-06 00:00:00	-0.371	-0.369
2015-04-07 00:00:00	-0.373	-0.368
2015-04-08 00:00:00	-0.362	-0.368
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2015-04-10 00:00:00	-0.382	-0.368
2015-04-11 00:00:00	-0.355	-0.367

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2015-04-13 00:00:00	-0.378	-0.368
2015-04-14 00:00:00	-0.37	-0.368
2015-04-15 00:00:00	-0.35	-0.367
2015-04-16 00:00:00	-0.351	-0.367
2015-04-17 00:00:00	-0.368	-0.367
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2015-04-19 00:00:00	-0.374	-0.368
2015-04-20 00:00:00	-0.365	-0.367
2015-04-21 00:00:00	-0.37	-0.367
2015-04-22 00:00:00	-0.35	-0.367
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2015-05-02 00:00:00	-0.372	-0.373
2015-05-03 00:00:00	-0.382	-0.374
2015-05-04 00:00:00	-0.385	-0.374
2015-05-05 00:00:00	-0.35	-0.374
2015-05-06 00:00:00	-0.366	-0.375
2015-05-07 00:00:00	-0.361	-0.376
2015-05-08 00:00:00	-0.381	-0.377
2015-05-09 00:00:00	-0.377	-0.377
2015-05-10 00:00:00	-0.388	-0.378
2015-05-11 00:00:00	-0.39	-0.381
2015-05-12 00:00:00	-0.368	-0.384
2015-05-13 00:00:00	-0.395	-0.387
2015-05-14 00:00:00	-0.403	-0.39
2015-05-15 00:00:00	-0.364	-0.394
2015-05-16 00:00:00	-0.376	-0.397
2015-05-17 00:00:00	-0.384	-0.4
2015-05-18 00:00:00	-0.387	-0.403
2015-05-19 00:00:00	-0.39	-0.406
2015-05-20 00:00:00	-0.392	-0.408
2015-05-21 00:00:00	-0.388	-0.412
2015-05-22 00:00:00	-0.385	-0.415
2015-05-23 00:00:00	-0.382	-0.419
2015-05-24 00:00:00	-0.38	-0.421
2015-05-25 00:00:00	-0.381	-0.424
2015-05-26 00:00:00	-0.441	-0.427
2015-05-27 00:00:00	-0.466	-0.429
2015-05-28 00:00:00	-0.479	-0.433

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2015-06-02 00:00:00	-0.481	-0.447
2015-06-03 00:00:00	-0.465	-0.45
2015-06-04 00:00:00	-0.454	-0.452
2015-06-05 00:00:00	-0.462	-0.455
2015-06-06 00:00:00	-0.471	-0.457
2015-06-07 00:00:00	-0.468	-0.46
2015-06-08 00:00:00	-0.463	-0.463
2015-06-09 00:00:00	-0.471	-0.466
2015-06-10 00:00:00	-0.47	-0.47
2015-06-11 00:00:00	-0.467	-0.471
2015-06-12 00:00:00	-0.478	-0.471
2015-06-13 00:00:00	-0.483	-0.472
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2015-06-18 00:00:00	-0.461	-0.471
2015-06-19 00:00:00	-0.468	-0.472
2015-06-20 00:00:00	-0.465	-0.472
2015-06-21 00:00:00	-0.459	-0.473
2015-06-22 00:00:00	-0.471	-0.473
2015-06-23 00:00:00	-0.478	-0.473
2015-06-24 00:00:00	-0.475	-0.474
2015-06-25 00:00:00	-0.491	-0.474
2015-06-26 00:00:00	-0.483	-0.474
2015-06-27 00:00:00	-0.483	-0.474
2015-06-28 00:00:00	-0.482	-0.474
2015-06-29 00:00:00	-0.456	-0.474
2015-06-30 00:00:00	-0.464	-0.474
2015-07-01 00:00:00	-0.487	-0.474
2015-07-02 00:00:00	-0.452	-0.475
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2015-07-05 00:00:00	-0.46	-0.476
2015-07-06 00:00:00	-0.471	-0.476
2015-07-07 00:00:00	-0.472	-0.477
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2015-07-09 00:00:00	-0.477	-0.477
2015-07-10 00:00:00	-0.476	-0.477
2015-07-11 00:00:00	-0.472	-0.477
2015-07-12 00:00:00	-0.484	-0.477
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2015-07-14 00:00:00	-0.483	-0.477

2015-07-15 00:00:00	-0.478	-0.477
2015-07-16 00:00:00	-0.467	-0.477
2015-07-17 00:00:00	-0.502	-0.478
2015-07-18 00:00:00	-0.489	-0.479
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2015-07-21 00:00:00	-0.465	-0.478
2015-07-22 00:00:00	-0.48	-0.479
2015-07-23 00:00:00	-0.472	-0.48
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2015-07-25 00:00:00	-0.49	-0.48
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2015-07-29 00:00:00	-0.475	-0.484
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2015-08-02 00:00:00	-0.485	-0.485
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2015-08-08 00:00:00	-0.49	-0.488
2015-08-09 00:00:00	-0.483	-0.489
2015-08-10 00:00:00	-0.491	-0.489
2015-08-11 00:00:00	-0.49	-0.49
2015-08-12 00:00:00	-0.503	-0.491
2015-08-13 00:00:00	-0.507	-0.491
2015-08-14 00:00:00	-0.496	-0.492
2015-08-15 00:00:00	-0.495	-0.492
2015-08-16 00:00:00	-0.498	-0.493
2015-08-17 00:00:00	-0.492	-0.493
2015-08-18 00:00:00	-0.51	-0.495
2015-08-19 00:00:00	-0.479	-0.495
2015-08-20 00:00:00	-0.469	-0.496
2015-08-21 00:00:00	-0.477	-0.497
2015-08-22 00:00:00	-0.496	-0.497
2015-08-23 00:00:00	-0.499	-0.498
2015-08-24 00:00:00	-0.506	-0.499
2015-08-25 00:00:00	-0.517	-0.5
2015-08-26 00:00:00	-0.504	-0.5
2015-08-27 00:00:00	-0.513	-0.5
2015-08-28 00:00:00	-0.491	-0.499
2015-08-29 00:00:00	-0.496	-0.499
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2015-09-02 00:00:00	-0.523	-0.499
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2015-09-06 00:00:00	-0.514	-0.499
2015-09-07 00:00:00	-0.523	-0.5
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2015-09-11 00:00:00	-0.49	-0.501
2015-09-12 00:00:00	-0.487	-0.501
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2015-09-14 00:00:00	-0.484	-0.501
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2015-09-25 00:00:00	-0.5	-0.5
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2015-10-22 00:00:00	-0.496	-0.492
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2015-10-26 00:00:00	-0.502	-0.491
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2015-10-29 00:00:00	-0.467	-0.491
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2015-10-31 00:00:00	-0.493	-0.491
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2015-11-05 00:00:00	-0.493	-0.491
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2015-11-07 00:00:00	-0.494	-0.491
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2015-11-10 00:00:00	-0.485	-0.49
2015-11-11 00:00:00	-0.492	-0.491
2015-11-12 00:00:00	-0.48	-0.492
2015-11-13 00:00:00	-0.485	-0.493
2015-11-14 00:00:00	-0.478	-0.495
2015-11-15 00:00:00	-0.497	-0.496
2015-11-16 00:00:00	-0.491	-0.496
2015-11-17 00:00:00	-0.483	-0.497
2015-11-18 00:00:00	-0.475	-0.497
2015-11-19 00:00:00	-0.488	-0.497
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2015-11-22 00:00:00	-0.498	-0.5
2015-11-23 00:00:00	-0.498	-0.5
2015-11-24 00:00:00	-0.491	-0.5
2015-11-25 00:00:00	-0.491	-0.501
2015-11-26 00:00:00	-0.521	-0.501
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2015-12-02 00:00:00	-0.51	-0.505

2015-12-03 00:00:00	-0.512	-0.506
2015-12-04 00:00:00	-0.493	-0.506
2015-12-05 00:00:00	-0.51	-0.507
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2015-12-15 00:00:00	-0.492	-0.507
2015-12-16 00:00:00	-0.505	-0.506
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2018-01-27 00:00:00	-0.572	-0.578
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2018-02-08 00:00:00	-0.588	-0.589



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2018-03-13 00:00:00	-0.598	-0.609
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2018-03-21 00:00:00	-0.613	-0.612
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2018-03-23 00:00:00	-0.611	-0.613
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2018-03-25 00:00:00	-0.609	-0.612
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2018-03-27 00:00:00	-0.625	-0.612

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2018-04-02 00:00:00	-0.619	-0.61
2018-04-03 00:00:00	-0.621	-0.61
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2018-04-05 00:00:00	-0.612	-0.61
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2018-04-07 00:00:00	-0.588	-0.61
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2018-04-17 00:00:00	-0.612	-0.611
2018-04-18 00:00:00	-0.615	-0.611
2018-04-19 00:00:00	-0.603	-0.611
2018-04-20 00:00:00	-0.617	-0.611
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2018-04-29 00:00:00	-0.622	-0.611
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2018-05-03 00:00:00	-0.629	-0.612
2018-05-04 00:00:00	-0.616	-0.612
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2018-05-07 00:00:00	-0.589	-0.611
2018-05-08 00:00:00	-0.6	-0.611
2018-05-09 00:00:00	-0.593	-0.611
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2018-05-13 00:00:00	-0.615	-0.61

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2018-06-18 00:00:00	-0.613	-0.608
2018-06-19 00:00:00	-0.611	-0.608
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2018-11-12 00:00:00	-0.624	-0.624
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2018-12-12 00:00:00	-0.63	-0.629
2018-12-13 00:00:00	-0.621	-0.629
2018-12-14 00:00:00	-0.639	-0.629
2018-12-15 00:00:00	-0.639	-0.628
2018-12-16 00:00:00	-0.611	-0.628
2018-12-17 00:00:00	-0.63	-0.627
2018-12-18 00:00:00	-0.619	-0.627
2018-12-19 00:00:00	-0.618	-0.627
2018-12-20 00:00:00	-0.613	-0.626
2018-12-21 00:00:00	-0.603	-0.626
2018-12-22 00:00:00	-0.62	-0.625
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2018-12-24 00:00:00	-0.649	-0.626
2018-12-25 00:00:00	-0.632	-0.626
2018-12-26 00:00:00	-0.629	-0.626
2018-12-27 00:00:00	-0.614	-0.625
2018-12-28 00:00:00	-0.62	-0.625
2018-12-29 00:00:00	-0.625	-0.626
2018-12-30 00:00:00	-0.632	-0.627
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2019-01-04 00:00:00	-0.62	-0.629

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2019-02-18 00:00:00	-0.64	-0.633
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2019-02-20 00:00:00	-0.635	-0.635



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2020-04-18 00:00:00	-0.667	-0.669

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2020-12-07 00:00:00	-0.676	-0.675
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2021-01-30 00:00:00	-0.685	-0.681
2021-01-31 00:00:00	-0.698	-0.681
2021-02-01 00:00:00	-0.711	-0.681
2021-02-02 00:00:00	-0.703	-0.682
2021-02-03 00:00:00	-0.687	-0.682
2021-02-04 00:00:00	-0.68	-0.684
2021-02-05 00:00:00	-0.691	-0.685
2021-02-06 00:00:00	-0.693	-0.686
2021-02-07 00:00:00	-0.703	-0.687
2021-02-08 00:00:00	-0.676	-0.687
2021-02-09 00:00:00	-0.685	-0.688
2021-02-10 00:00:00	-0.683	-0.688
2021-02-11 00:00:00	-0.689	-0.688
2021-02-12 00:00:00	-0.662	-0.689
2021-02-13 00:00:00	-0.678	-0.688
2021-02-14 00:00:00	-0.695	-0.689
2021-02-15 00:00:00	-0.682	-0.688
2021-02-16 00:00:00	-0.674	-0.688
2021-02-17 00:00:00	-0.679	-0.688
2021-02-18 00:00:00	-0.695	-0.688
2021-02-19 00:00:00	-0.7	-0.688
2021-02-20 00:00:00	-0.692	-0.689
2021-02-21 00:00:00	-0.689	-0.688
2021-02-22 00:00:00	-0.703	-0.689
2021-02-23 00:00:00	-0.69	-0.688
2021-02-24 00:00:00	-0.71	-0.689
2021-02-25 00:00:00	-0.684	-0.689
2021-02-26 00:00:00	-0.679	-0.69
2021-02-27 00:00:00	-0.683	-0.69
2021-02-28 00:00:00	-0.68	-0.691
2021-03-01 00:00:00	-0.696	-0.692
2021-03-02 00:00:00	-0.67	-0.692
2021-03-03 00:00:00	-0.694	-0.692
2021-03-04 00:00:00	-0.704	-0.693
2021-03-05 00:00:00	-0.694	-0.694
2021-03-06 00:00:00	-0.697	-0.694
2021-03-07 00:00:00	-0.695	-0.694
2021-03-08 00:00:00	-0.684	-0.694
2021-03-09 00:00:00	-0.704	-0.694
2021-03-10 00:00:00	-0.692	-0.693
2021-03-11 00:00:00	-0.701	-0.693
2021-03-12 00:00:00	-0.696	-0.693
2021-03-13 00:00:00	-0.701	-0.694



2021-03-14 00:00:00	-0.69	-0.695
2021-03-15 00:00:00	-0.698	-0.695
2021-03-16 00:00:00	-0.691	-0.696
2021-03-17 00:00:00	-0.692	-0.696
2021-03-18 00:00:00	-0.69	-0.696
2021-03-19 00:00:00	-0.712	-0.696
2021-03-20 00:00:00	-0.701	-0.696
2021-03-21 00:00:00	-0.703	-0.696
2021-03-22 00:00:00	-0.703	-0.696
2021-03-23 00:00:00	-0.694	-0.695
2021-03-24 00:00:00	-0.685	-0.695
2021-03-25 00:00:00	-0.683	-0.695
2021-03-26 00:00:00	-0.684	-0.694
2021-03-27 00:00:00	-0.716	-0.694
2021-03-28 00:00:00	-0.715	-0.693
2021-03-29 00:00:00	-0.702	-0.693
2021-03-30 00:00:00	-0.689	-0.693
2021-03-31 00:00:00	-0.705	-0.693
2021-04-01 00:00:00	-0.676	-0.693
2021-04-02 00:00:00	-0.688	-0.693
2021-04-03 00:00:00	-0.698	-0.693
2021-04-04 00:00:00	-0.699	-0.692
2021-04-05 00:00:00	-0.69	-0.692
2021-04-06 00:00:00	-0.694	-0.691
2021-04-07 00:00:00	-0.67	-0.69
2021-04-08 00:00:00	-0.694	-0.69
2021-04-09 00:00:00	-0.683	-0.69
2021-04-10 00:00:00	-0.681	-0.69
2021-04-11 00:00:00	-0.688	-0.691
2021-04-12 00:00:00	-0.674	-0.689
2021-04-13 00:00:00	-0.683	-0.688
2021-04-14 00:00:00	-0.696	-0.688
2021-04-15 00:00:00	-0.696	-0.689
2021-04-16 00:00:00	-0.689	-0.688
2021-04-17 00:00:00	-0.687	-0.688
2021-04-18 00:00:00	-0.697	-0.688
2021-04-19 00:00:00	-0.691	-0.688
2021-04-20 00:00:00	-0.689	-0.688
2021-04-21 00:00:00	-0.679	-0.688
2021-04-22 00:00:00	-0.689	-0.688
2021-04-23 00:00:00	-0.687	-0.689
2021-04-24 00:00:00	-0.691	-0.689
2021-04-25 00:00:00	-0.681	-0.689
2021-04-26 00:00:00	-0.689	-0.689
2021-04-27 00:00:00	-0.677	-0.69
2021-04-28 00:00:00	-0.681	-0.691
2021-04-29 00:00:00	-0.702	-0.692

2021-04-30 00:00:00	-0.701	-0.692
2021-05-01 00:00:00	-0.689	-0.692
2021-05-02 00:00:00	-0.684	-0.692
2021-05-03 00:00:00	-0.68	-0.692
2021-05-04 00:00:00	-0.694	-0.692
2021-05-05 00:00:00	-0.707	-0.693
2021-05-06 00:00:00	-0.697	-0.694
2021-05-07 00:00:00	-0.692	-0.695
2021-05-08 00:00:00	-0.686	-0.696
2021-05-09 00:00:00	-0.685	-0.696
2021-05-10 00:00:00	-0.694	-0.697
2021-05-11 00:00:00	-0.696	-0.697
2021-05-12 00:00:00	-0.703	-0.697
2021-05-13 00:00:00	-0.707	-0.698
2021-05-14 00:00:00	-0.719	-0.699
2021-05-15 00:00:00	-0.694	-0.698
2021-05-16 00:00:00	-0.683	-0.698
2021-05-17 00:00:00	-0.693	-0.698
2021-05-18 00:00:00	-0.706	-0.699
2021-05-19 00:00:00	-0.7	-0.699
2021-05-20 00:00:00	-0.699	-0.699
2021-05-21 00:00:00	-0.723	-0.698
2021-05-22 00:00:00	-0.713	-0.698
2021-05-23 00:00:00	-0.717	-0.698
2021-05-24 00:00:00	-0.705	-0.699
2021-05-25 00:00:00	-0.711	-0.7
2021-05-26 00:00:00	-0.694	-0.7
2021-05-27 00:00:00	-0.684	-0.7
2021-05-28 00:00:00	-0.699	-0.699
2021-05-29 00:00:00	-0.7	-0.699
2021-05-30 00:00:00	-0.689	-0.698
2021-05-31 00:00:00	-0.69	-0.698
2021-06-01 00:00:00	-0.697	-0.698
2021-06-02 00:00:00	-0.699	-0.697
2021-06-03 00:00:00	-0.696	-0.696
2021-06-04 00:00:00	-0.679	-0.697
2021-06-05 00:00:00	-0.693	-0.697
2021-06-06 00:00:00	-0.7	-0.696
2021-06-07 00:00:00	-0.689	-0.695
2021-06-08 00:00:00	-0.707	-0.695
2021-06-09 00:00:00	-0.718	-0.694
2021-06-10 00:00:00	-0.695	-0.693
2021-06-11 00:00:00	-0.696	-0.693
2021-06-12 00:00:00	-0.678	-0.694
2021-06-13 00:00:00	-0.697	-0.693
2021-06-14 00:00:00	-0.699	-0.693
2021-06-15 00:00:00	-0.684	-0.694

2021-06-16 00:00:00	-0.675	-0.694
2021-06-17 00:00:00	-0.673	-0.695
2021-06-18 00:00:00	-0.692	-0.694
2021-06-19 00:00:00	-0.712	-0.695
2021-06-20 00:00:00	-0.696	-0.695
2021-06-21 00:00:00	-0.706	-0.696
2021-06-22 00:00:00	-0.678	-0.695
2021-06-23 00:00:00	-0.721	-0.695
2021-06-24 00:00:00	-0.674	-0.695
2021-06-25 00:00:00	-0.687	-0.694
2021-06-26 00:00:00	-0.688	-0.694
2021-06-27 00:00:00	-0.697	-0.694
2021-06-28 00:00:00	-0.689	-0.694
2021-06-29 00:00:00	-0.693	-0.693
2021-06-30 00:00:00	-0.706	-0.693
2021-07-01 00:00:00	-0.707	-0.694
2021-07-02 00:00:00	-0.709	-0.695
2021-07-03 00:00:00	-0.69	-0.696
2021-07-04 00:00:00	-0.703	-0.697
2021-07-05 00:00:00	-0.699	-0.697
2021-07-06 00:00:00	-0.707	-0.697
2021-07-07 00:00:00	-0.69	-0.697
2021-07-08 00:00:00	-0.689	-0.699
2021-07-09 00:00:00	-0.696	-0.698
2021-07-10 00:00:00	-0.681	-0.699
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2021-07-13 00:00:00	-0.69	-0.7
2021-07-14 00:00:00	-0.681	-0.701
2021-07-15 00:00:00	-0.688	-0.701
2021-07-16 00:00:00	-0.698	-0.702
2021-07-17 00:00:00	-0.715	-0.703
2021-07-18 00:00:00	-0.707	-0.704
2021-07-19 00:00:00	-0.736	-0.705
2021-07-20 00:00:00	-0.698	-0.705
2021-07-21 00:00:00	-0.686	-0.705
2021-07-22 00:00:00	-0.723	-0.706
2021-07-23 00:00:00	-0.747	-0.706
2021-07-24 00:00:00	-0.688	-0.707
2021-07-25 00:00:00	-0.711	-0.707
2021-07-26 00:00:00	-0.683	-0.708
2021-07-27 00:00:00	-0.696	-0.709
2021-07-28 00:00:00	-0.694	-0.709
2021-07-29 00:00:00	-0.725	-0.71
2021-07-30 00:00:00	-0.718	-0.711
2021-07-31 00:00:00	-0.729	-0.712
2021-08-01 00:00:00	-0.736	-0.713

2021-08-02 00:00:00	-0.74	-0.713
2021-08-03 00:00:00	-0.721	-0.713
2021-08-04 00:00:00	-0.684	-0.713
2021-08-05 00:00:00	-0.722	-0.713
2021-08-06 00:00:00	-0.717	-0.714
2021-08-07 00:00:00	-0.7	-0.713
2021-08-08 00:00:00	-0.716	-0.712
2021-08-09 00:00:00	-0.714	-0.713
2021-08-10 00:00:00	-0.712	-0.713
2021-08-11 00:00:00	-0.698	-0.714
2021-08-12 00:00:00	-0.707	-0.714
2021-08-13 00:00:00	-0.715	-0.714
2021-08-14 00:00:00	-0.726	-0.715
2021-08-15 00:00:00	-0.715	-0.714
2021-08-16 00:00:00	-0.713	-0.713
2021-08-17 00:00:00	-0.714	-0.712
2021-08-18 00:00:00	-0.726	-0.711
2021-08-19 00:00:00	-0.722	-0.711
2021-08-20 00:00:00	-0.716	-0.712
2021-08-21 00:00:00	-0.695	-0.712
2021-08-22 00:00:00	-0.707	-0.712
2021-08-23 00:00:00	-0.709	-0.712
2021-08-24 00:00:00	-0.717	-0.712
2021-08-25 00:00:00	-0.709	-0.712
2021-08-26 00:00:00	-0.71	-0.712
2021-08-27 00:00:00	-0.713	-0.712
2021-08-28 00:00:00	-0.696	-0.713
2021-08-29 00:00:00	-0.733	-0.712
2021-08-30 00:00:00	-0.707	-0.711
2021-08-31 00:00:00	-0.7	-0.711
2021-09-01 00:00:00	-0.698	-0.71
2021-09-02 00:00:00	-0.723	-0.709
2021-09-03 00:00:00	-0.705	-0.708
2021-09-04 00:00:00	-0.713	-0.708
2021-09-05 00:00:00	-0.717	-0.708
2021-09-06 00:00:00	-0.712	-0.708
2021-09-07 00:00:00	-0.713	-0.708
2021-09-08 00:00:00	-0.71	-0.708
2021-09-09 00:00:00	-0.722	-0.708
2021-09-10 00:00:00	-0.713	-0.709
2021-09-11 00:00:00	-0.708	-0.709
2021-09-12 00:00:00	-0.718	-0.709
2021-09-13 00:00:00	-0.699	-0.71
2021-09-14 00:00:00	-0.697	-0.709
2021-09-15 00:00:00	-0.696	-0.709
2021-09-16 00:00:00	-0.68	-0.71
2021-09-17 00:00:00	-0.697	-0.71

2021-09-18 00:00:00	-0.708	-0.708
2021-09-19 00:00:00	-0.708	-0.708
2021-09-20 00:00:00	-0.709	-0.708
2021-09-21 00:00:00	-0.702	-0.709
2021-09-22 00:00:00	-0.712	-0.709
2021-09-23 00:00:00	-0.703	-0.709
2021-09-24 00:00:00	-0.727	-0.709
2021-09-25 00:00:00	-0.723	-0.709
2021-09-26 00:00:00	-0.71	-0.709
2021-09-27 00:00:00	-0.717	-0.709
2021-09-28 00:00:00	-0.72	-0.708
2021-09-29 00:00:00	-0.72	-0.709
2021-09-30 00:00:00	-0.708	-0.709
2021-10-01 00:00:00	-0.714	-0.71
2021-10-02 00:00:00	-0.702	-0.711
2021-10-03 00:00:00	-0.68	-0.711
2021-10-04 00:00:00	-0.702	-0.711
2021-10-05 00:00:00	-0.703	-0.711
2021-10-06 00:00:00	-0.736	-0.712
2021-10-07 00:00:00	-0.722	-0.712
2021-10-08 00:00:00	-0.719	-0.712
2021-10-09 00:00:00	-0.714	-0.712
2021-10-10 00:00:00	-0.711	-0.711
2021-10-11 00:00:00	-0.71	-0.711
2021-10-12 00:00:00	-0.702	-0.711
2021-10-13 00:00:00	-0.705	-0.711
2021-10-14 00:00:00	-0.718	-0.711
2021-10-15 00:00:00	-0.713	-0.711
2021-10-16 00:00:00	-0.714	-0.711
2021-10-17 00:00:00	-0.705	-0.711
2021-10-18 00:00:00	-0.701	-0.712
2021-10-19 00:00:00	-0.706	-0.713
2021-10-20 00:00:00	-0.728	-0.714
2021-10-21 00:00:00	-0.715	-0.715
2021-10-22 00:00:00	-0.715	-0.714
2021-10-23 00:00:00	-0.705	-0.714
2021-10-24 00:00:00	-0.703	-0.714
2021-10-25 00:00:00	-0.713	-0.715
2021-10-26 00:00:00	-0.716	-0.715
2021-10-27 00:00:00	-0.713	-0.715
2021-10-28 00:00:00	-0.705	-0.716
2021-10-29 00:00:00	-0.717	-0.716
2021-10-30 00:00:00	-0.712	-0.716
2021-10-31 00:00:00	-0.721	-0.716
2021-11-01 00:00:00	-0.713	-0.716
2021-11-02 00:00:00	-0.722	-0.716
2021-11-03 00:00:00	-0.733	-0.717

2021-11-04 00:00:00	-0.728	-0.717
2021-11-05 00:00:00	-0.72	-0.717
2021-11-06 00:00:00	-0.722	-0.717
2021-11-07 00:00:00	-0.724	-0.717
2021-11-08 00:00:00	-0.722	-0.717
2021-11-09 00:00:00	-0.727	-0.718
2021-11-10 00:00:00	-0.724	-0.718
2021-11-11 00:00:00	-0.701	-0.718
2021-11-12 00:00:00	-0.729	-0.718
2021-11-13 00:00:00	-0.72	-0.718
2021-11-14 00:00:00	-0.707	-0.718
2021-11-15 00:00:00	-0.707	-0.718
2021-11-16 00:00:00	-0.716	-0.718
2021-11-17 00:00:00	-0.719	-0.718
2021-11-18 00:00:00	-0.72	-0.717
2021-11-19 00:00:00	-0.714	-0.717
2021-11-20 00:00:00	-0.714	-0.716
2021-11-21 00:00:00	-0.715	-0.716
2021-11-22 00:00:00	-0.719	-0.715
2021-11-23 00:00:00	-0.721	-0.715
2021-11-24 00:00:00	-0.711	-0.714
2021-11-25 00:00:00	-0.724	-0.713
2021-11-26 00:00:00	-0.715	-0.712
2021-11-27 00:00:00	-0.713	-0.712
2021-11-28 00:00:00	-0.716	-0.712
2021-11-29 00:00:00	-0.714	-0.712
2021-11-30 00:00:00	-0.714	-0.712
2021-12-01 00:00:00	-0.703	-0.713
2021-12-02 00:00:00	-0.721	-0.714
2021-12-03 00:00:00	-0.709	-0.714
2021-12-04 00:00:00	-0.718	-0.714
2021-12-05 00:00:00	-0.711	-0.714
2021-12-06 00:00:00	-0.705	-0.714
2021-12-07 00:00:00	-0.696	-0.713
2021-12-08 00:00:00	-0.715	-0.713
2021-12-09 00:00:00	-0.694	-0.712
2021-12-10 00:00:00	-0.703	-0.712
2021-12-11 00:00:00	-0.701	-0.712
2021-12-12 00:00:00	-0.7	-0.711
2021-12-13 00:00:00	-0.715	-0.711
2021-12-14 00:00:00	-0.726	-0.711
2021-12-15 00:00:00	-0.716	-0.711
2021-12-16 00:00:00	-0.723	-0.71
2021-12-17 00:00:00	-0.736	-0.71
2021-12-18 00:00:00	-0.734	-0.709
2021-12-19 00:00:00	-0.716	-0.71
2021-12-20 00:00:00	-0.718	-0.71

2021-12-21 00:00:00	-0.706	-0.711
2021-12-22 00:00:00	-0.696	-0.711
2021-12-23 00:00:00	-0.72	-0.711
2021-12-24 00:00:00	-0.698	-0.711
2021-12-25 00:00:00	-0.702	-0.713
2021-12-26 00:00:00	-0.713	-0.714
2021-12-27 00:00:00	-0.697	-0.715
2021-12-28 00:00:00	-0.701	-0.716
2021-12-29 00:00:00	-0.714	-0.716
2021-12-30 00:00:00	-0.716	-0.716
2021-12-31 00:00:00	-0.7	-0.716
2022-01-01 00:00:00	-0.685	-0.716
2022-01-02 00:00:00	-0.705	-0.715
2022-01-03 00:00:00	-0.721	-0.715
2022-01-04 00:00:00	-0.723	-0.715
2022-01-05 00:00:00	-0.74	-0.715
2022-01-06 00:00:00	-0.711	-0.715
2022-01-07 00:00:00	-0.704	-0.715
2022-01-08 00:00:00	-0.711	-0.714
2022-01-09 00:00:00	-0.742	-0.715
2022-01-10 00:00:00	-0.729	-0.716
2022-01-11 00:00:00	-0.733	-0.716
2022-01-12 00:00:00	-0.739	-0.716
2022-01-13 00:00:00	-0.719	-0.717
2022-01-14 00:00:00	-0.72	-0.717
2022-01-15 00:00:00	-0.719	-0.717
2022-01-16 00:00:00	-0.719	-0.718
2022-01-17 00:00:00	-0.716	-0.718
2022-01-18 00:00:00	-0.733	-0.717
2022-01-19 00:00:00	-0.714	-0.717
2022-01-20 00:00:00	-0.719	-0.717
2022-01-21 00:00:00	-0.698	-0.716
2022-01-22 00:00:00	-0.69	-0.716
2022-01-23 00:00:00	-0.716	-0.716
2022-01-24 00:00:00	-0.714	-0.716
2022-01-25 00:00:00	-0.723	-0.715
2022-01-26 00:00:00	-0.713	-0.714
2022-01-27 00:00:00	-0.714	-0.713
2022-01-28 00:00:00	-0.732	-0.712
2022-01-29 00:00:00	-0.721	-0.712
2022-01-30 00:00:00	-0.712	-0.712
2022-01-31 00:00:00	-0.709	-0.713
2022-02-01 00:00:00	-0.69	-0.713
2022-02-02 00:00:00	-0.696	-0.713
2022-02-03 00:00:00	-0.702	-0.713
2022-02-04 00:00:00	-0.721	-0.713
2022-02-05 00:00:00	-0.708	-0.713

2022-02-06 00:00:00	-0.713	-0.713
2022-02-07 00:00:00	-0.721	-0.714
2022-02-08 00:00:00	-0.704	-0.713
2022-02-09 00:00:00	-0.71	-0.713
2022-02-10 00:00:00	-0.695	-0.713
2022-02-11 00:00:00	-0.709	-0.713
2022-02-12 00:00:00	-0.711	-0.714
2022-02-13 00:00:00	-0.719	-0.713
2022-02-14 00:00:00	-0.722	-0.713
2022-02-15 00:00:00	-0.726	-0.715
2022-02-16 00:00:00	-0.728	-0.714
2022-02-17 00:00:00	-0.726	-0.715
2022-02-18 00:00:00	-0.719	-0.715
2022-02-19 00:00:00	-0.725	-0.716
2022-02-20 00:00:00	-0.711	-0.715
2022-02-21 00:00:00	-0.709	-0.716
2022-02-22 00:00:00	-0.703	-0.716
2022-02-23 00:00:00	-0.706	-0.716
2022-02-24 00:00:00	-0.711	-0.717
2022-02-25 00:00:00	-0.713	-0.718
2022-02-26 00:00:00	-0.73	-0.718
2022-02-27 00:00:00	-0.726	-0.719
2022-02-28 00:00:00	-0.702	-0.72
2022-03-01 00:00:00	-0.721	-0.719
2022-03-02 00:00:00	-0.764	-0.719
2022-03-03 00:00:00	-0.707	-0.719
2022-03-04 00:00:00	-0.698	-0.719
2022-03-05 00:00:00	-0.697	-0.718
2022-03-06 00:00:00	-0.728	-0.719
2022-03-07 00:00:00	-0.713	-0.718
2022-03-08 00:00:00	-0.726	-0.719
2022-03-09 00:00:00	-0.724	-0.719
2022-03-10 00:00:00	-0.723	-0.72
2022-03-11 00:00:00	-0.725	-0.72
2022-03-12 00:00:00	-0.738	-0.719
2022-03-13 00:00:00	-0.698	-0.72
2022-03-14 00:00:00	-0.74	-0.719
2022-03-15 00:00:00	-0.728	-0.718
2022-03-16 00:00:00	-0.693	-0.718
2022-03-17 00:00:00	-0.725	-0.717
2022-03-18 00:00:00	-0.727	-0.716
2022-03-19 00:00:00	-0.734	-0.716
2022-03-20 00:00:00	-0.694	-0.717
2022-03-21 00:00:00	-0.735	-0.717
2022-03-22 00:00:00	-0.701	-0.716
2022-03-23 00:00:00	-0.752	-0.716
2022-03-24 00:00:00	-0.717	-0.716



2022-03-25 00:00:00	-0.711	-0.716
2022-03-26 00:00:00	-0.709	-0.715
2022-03-27 00:00:00	-0.704	-0.714
2022-03-28 00:00:00	-0.723	-0.713
2022-03-29 00:00:00	-0.698	-0.714
2022-03-30 00:00:00	-0.705	-0.714
2022-03-31 00:00:00	-0.691	-0.713
2022-04-01 00:00:00	-0.708	-0.713
2022-04-02 00:00:00	-0.726	-0.714
2022-04-03 00:00:00	-0.709	-0.714
2022-04-04 00:00:00	-0.724	-0.714
2022-04-05 00:00:00	-0.694	-0.715
2022-04-06 00:00:00	-0.688	-0.715
2022-04-07 00:00:00	-0.74	-0.716
2022-04-08 00:00:00	-0.724	-0.714
2022-04-09 00:00:00	-0.698	-0.714
2022-04-10 00:00:00	-0.694	-0.715
2022-04-11 00:00:00	-0.709	-0.716
2022-04-12 00:00:00	-0.707	-0.717
2022-04-13 00:00:00	-0.72	-0.717
2022-04-14 00:00:00	-0.734	-0.717
2022-04-15 00:00:00	-0.711	-0.718
2022-04-16 00:00:00	-0.703	-0.718
2022-04-17 00:00:00	-0.747	-0.719
2022-04-18 00:00:00	-0.738	-0.718
2022-04-19 00:00:00	-0.705	-0.719
2022-04-20 00:00:00	-0.742	-0.72
2022-04-21 00:00:00	-0.734	-0.722
2022-04-22 00:00:00	-0.716	-0.723
2022-04-23 00:00:00	-0.702	-0.721
2022-04-24 00:00:00	-0.729	-0.721
2022-04-25 00:00:00	-0.732	-0.723
2022-04-26 00:00:00	-0.739	-0.723
2022-04-27 00:00:00	-0.725	-0.724
2022-04-28 00:00:00	-0.732	-0.725
2022-04-29 00:00:00	-0.712	-0.725
2022-04-30 00:00:00	-0.711	-0.725
2022-05-01 00:00:00	-0.704	-0.726
2022-05-02 00:00:00	-0.734	-0.726
2022-05-03 00:00:00	-0.708	-0.726
2022-05-04 00:00:00	-0.734	-0.725
2022-05-05 00:00:00	-0.745	-0.726
2022-05-06 00:00:00	-0.755	-0.726
2022-05-07 00:00:00	-0.714	-0.726
2022-05-08 00:00:00	-0.708	-0.726
2022-05-09 00:00:00	-0.709	-0.726
2022-05-10 00:00:00	-0.747	-0.726

2022-05-11 00:00:00	-0.714	-0.726
2022-05-12 00:00:00	-0.726	-0.726
2022-05-13 00:00:00	-0.741	-0.725
2022-05-14 00:00:00	-0.724	-0.724
2022-05-15 00:00:00	-0.749	-0.724
2022-05-16 00:00:00	-0.716	-0.725
2022-05-17 00:00:00	-0.729	-0.726
2022-05-18 00:00:00	-0.738	-0.726
2022-05-19 00:00:00	-0.712	-0.728
2022-05-20 00:00:00	-0.724	-0.728
2022-05-21 00:00:00	-0.741	-0.727
2022-05-22 00:00:00	-0.727	-0.727
2022-05-23 00:00:00	-0.714	-0.727
2022-05-24 00:00:00	-0.721	-0.727
2022-05-25 00:00:00	-0.717	-0.728
2022-05-26 00:00:00	-0.727	-0.728
2022-05-27 00:00:00	-0.734	-0.728
2022-05-28 00:00:00	-0.72	-0.728
2022-05-29 00:00:00	-0.693	-0.728
2022-05-30 00:00:00	-0.718	-0.729
2022-05-31 00:00:00	-0.723	-0.729
2022-06-01 00:00:00	-0.742	-0.73
2022-06-02 00:00:00	-0.747	-0.73
2022-06-03 00:00:00	-0.754	-0.729
2022-06-04 00:00:00	-0.744	-0.73
2022-06-05 00:00:00	-0.722	-0.73
2022-06-06 00:00:00	-0.731	-0.73
2022-06-07 00:00:00	-0.735	-0.732
2022-06-08 00:00:00	-0.713	-0.733
2022-06-09 00:00:00	-0.737	-0.734
2022-06-10 00:00:00	-0.732	-0.734
2022-06-11 00:00:00	-0.73	-0.733
2022-06-12 00:00:00	-0.716	-0.734
2022-06-13 00:00:00	-0.747	-0.734
2022-06-14 00:00:00	-0.746	-0.736
2022-06-15 00:00:00	-0.747	-0.736
2022-06-16 00:00:00	-0.745	-0.735
2022-06-17 00:00:00	-0.737	-0.732
2022-06-18 00:00:00	-0.713	-0.731
2022-06-19 00:00:00	-0.733	-0.729
2022-06-20 00:00:00	-0.729	-0.729
2022-06-21 00:00:00	-0.748	-0.73
2022-06-22 00:00:00	-0.773	-0.731
2022-06-23 00:00:00	-0.755	-0.732
2022-06-24 00:00:00	-0.739	-0.734
2022-06-25 00:00:00	-0.732	-0.735
2022-06-26 00:00:00	-0.702	-0.735

2022-06-27 00:00:00	-0.749	-0.736
2022-06-28 00:00:00	-0.732	-0.737
2022-06-29 00:00:00	-0.737	-0.737
2022-06-30 00:00:00	-0.715	-0.738
2022-07-01 00:00:00	-0.692	-0.739
2022-07-02 00:00:00	-0.663	-0.739
2022-07-03 00:00:00	-0.7	-0.74
2022-07-04 00:00:00	-0.719	-0.741
2022-07-05 00:00:00	-0.73	-0.741
2022-07-06 00:00:00	-0.756	-0.742
2022-07-07 00:00:00	-0.762	-0.742
2022-07-08 00:00:00	-0.769	-0.74
2022-07-09 00:00:00	-0.766	-0.74
2022-07-10 00:00:00	-0.767	-0.739
2022-07-11 00:00:00	-0.744	-0.739
2022-07-12 00:00:00	-0.738	-0.74
2022-07-13 00:00:00	-0.77	-0.74
2022-07-14 00:00:00	-0.735	-0.741
2022-07-15 00:00:00	-0.781	-0.741
2022-07-16 00:00:00	-0.769	-0.742
2022-07-17 00:00:00	-0.754	-0.743
2022-07-18 00:00:00	-0.757	-0.745
2022-07-19 00:00:00	-0.759	-0.747
2022-07-20 00:00:00	-0.74	-0.748
2022-07-21 00:00:00	-0.745	-0.749
2022-07-22 00:00:00	-0.737	-0.749
2022-07-23 00:00:00	-0.72	-0.749
2022-07-24 00:00:00	-0.749	-0.748
2022-07-25 00:00:00	-0.714	-0.748
2022-07-26 00:00:00	-0.725	-0.748
2022-07-27 00:00:00	-0.744	-0.749
2022-07-28 00:00:00	-0.74	-0.749
2022-07-29 00:00:00	-0.76	-0.749
2022-07-30 00:00:00	-0.747	-0.75
2022-07-31 00:00:00	-0.738	-0.749
2022-08-01 00:00:00	-0.731	-0.748
2022-08-02 00:00:00	-0.743	-0.748
2022-08-03 00:00:00	-0.746	-0.749
2022-08-04 00:00:00	-0.742	-0.749
2022-08-05 00:00:00	-0.766	-0.749
2022-08-06 00:00:00	-0.761	-0.749
2022-08-07 00:00:00	-0.763	-0.75
2022-08-08 00:00:00	-0.751	-0.751
2022-08-09 00:00:00	-0.759	-0.751
2022-08-10 00:00:00	-0.766	-0.752
2022-08-11 00:00:00	-0.766	-0.753
2022-08-12 00:00:00	-0.744	-0.753

2022-08-13 00:00:00	-0.767	-0.754
2022-08-14 00:00:00	-0.756	-0.753
2022-08-15 00:00:00	-0.75	-0.754
2022-08-16 00:00:00	-0.752	-0.755
2022-08-17 00:00:00	-0.763	-0.755
2022-08-18 00:00:00	-0.767	-0.756
2022-08-19 00:00:00	-0.76	-0.756
2022-08-20 00:00:00	-0.744	-0.757
2022-08-21 00:00:00	-0.755	-0.756
2022-08-22 00:00:00	-0.761	-0.756
2022-08-23 00:00:00	-0.754	-0.756
2022-08-24 00:00:00	-0.753	-0.757
2022-08-25 00:00:00	-0.749	-0.756
2022-08-26 00:00:00	-0.751	-0.756
2022-08-27 00:00:00	-0.743	-0.756
2022-08-28 00:00:00	-0.755	-0.756
2022-08-29 00:00:00	-0.75	-0.756
2022-08-30 00:00:00	-0.776	-0.756
2022-08-31 00:00:00	-0.754	-0.757
2022-09-01 00:00:00	-0.745	-0.757
2022-09-02 00:00:00	-0.753	-0.757
2022-09-03 00:00:00	-0.761	-0.757
2022-09-04 00:00:00	-0.76	-0.757
2022-09-05 00:00:00	-0.74	-0.757
2022-09-06 00:00:00	-0.754	-0.758
2022-09-07 00:00:00	-0.767	-0.758
2022-09-08 00:00:00	-0.779	-0.758
2022-09-09 00:00:00	-0.738	-0.758
2022-09-10 00:00:00	-0.778	-0.759
2022-09-11 00:00:00	-0.756	-0.759
2022-09-12 00:00:00	-0.754	-0.761
2022-09-13 00:00:00	-0.756	-0.761
2022-09-14 00:00:00	-0.756	-0.762
2022-09-15 00:00:00	-0.773	-0.761
2022-09-16 00:00:00	-0.768	-0.761
2022-09-17 00:00:00	-0.76	-0.762
2022-09-18 00:00:00	-0.775	-0.762
2022-09-19 00:00:00	-0.754	-0.762
2022-09-20 00:00:00	-0.751	-0.762
2022-09-21 00:00:00	-0.766	-0.763
2022-09-22 00:00:00	-0.76	-0.763
2022-09-23 00:00:00	-0.756	-0.763
2022-09-24 00:00:00	-0.773	-0.762
2022-09-25 00:00:00	-0.77	-0.763
2022-09-26 00:00:00	-0.76	-0.762
2022-09-27 00:00:00	-0.781	-0.763
2022-09-28 00:00:00	-0.773	-0.762

2022-09-29 00:00:00	-0.769	-0.763
2022-09-30 00:00:00	-0.755	-0.763
2022-10-01 00:00:00	-0.756	-0.762
2022-10-02 00:00:00	-0.766	-0.762
2022-10-03 00:00:00	-0.76	-0.762
2022-10-04 00:00:00	-0.77	-0.761
2022-10-05 00:00:00	-0.763	-0.761
2022-10-06 00:00:00	-0.761	-0.761
2022-10-07 00:00:00	-0.752	-0.76
2022-10-08 00:00:00	-0.757	-0.76
2022-10-09 00:00:00	-0.762	-0.761
2022-10-10 00:00:00	-0.758	-0.76
2022-10-11 00:00:00	-0.765	-0.76
2022-10-12 00:00:00	-0.762	-0.76
2022-10-13 00:00:00	-0.744	-0.759
2022-10-14 00:00:00	-0.764	-0.759
2022-10-15 00:00:00	-0.762	-0.759
2022-10-16 00:00:00	-0.754	-0.759
2022-10-17 00:00:00	-0.758	-0.758
2022-10-18 00:00:00	-0.761	-0.758
2022-10-19 00:00:00	-0.763	-0.758
2022-10-20 00:00:00	-0.742	-0.758
2022-10-21 00:00:00	-0.753	-0.757
2022-10-22 00:00:00	-0.738	-0.757
2022-10-23 00:00:00	-0.754	-0.758
2022-10-24 00:00:00	-0.77	-0.759
2022-10-25 00:00:00	-0.764	-0.759
2022-10-26 00:00:00	-0.761	-0.759
2022-10-27 00:00:00	-0.764	-0.76
2022-10-28 00:00:00	-0.763	-0.759
2022-10-29 00:00:00	-0.762	-0.76
2022-10-30 00:00:00	-0.753	-0.76
2022-10-31 00:00:00	-0.753	-0.76
2022-11-01 00:00:00	-0.754	-0.761
2022-11-02 00:00:00	-0.737	-0.761
2022-11-03 00:00:00	-0.762	-0.761
2022-11-04 00:00:00	-0.773	-0.762
2022-11-05 00:00:00	-0.749	-0.762
2022-11-06 00:00:00	-0.763	-0.763
2022-11-07 00:00:00	-0.765	-0.763
2022-11-08 00:00:00	-0.782	-0.764
2022-11-09 00:00:00	-0.772	-0.764
2022-11-10 00:00:00	-0.771	-0.764
2022-11-11 00:00:00	-0.773	-0.764
2022-11-12 00:00:00	-0.758	-0.764
2022-11-13 00:00:00	-0.759	-0.764
2022-11-14 00:00:00	-0.767	-0.763

2022-11-15 00:00:00	-0.777	-0.763
2022-11-16 00:00:00	-0.771	-0.763
2022-11-17 00:00:00	-0.763	-0.764
2022-11-18 00:00:00	-0.765	-0.764
2022-11-19 00:00:00	-0.771	-0.764
2022-11-20 00:00:00	-0.759	-0.763
2022-11-21 00:00:00	-0.769	-0.763
2022-11-22 00:00:00	-0.76	-0.764
2022-11-23 00:00:00	-0.771	-0.764
2022-11-24 00:00:00	-0.776	-0.764
2022-11-25 00:00:00	-0.776	-0.764
2022-11-26 00:00:00	-0.761	-0.764
2022-11-27 00:00:00	-0.757	-0.764
2022-11-28 00:00:00	-0.74	-0.765
2022-11-29 00:00:00	-0.752	-0.765
2022-11-30 00:00:00	-0.751	-0.766
2022-12-01 00:00:00	-0.755	-0.766
2022-12-02 00:00:00	-0.766	-0.766
2022-12-03 00:00:00	-0.747	-0.767
2022-12-04 00:00:00	-0.753	-0.767
2022-12-05 00:00:00	-0.75	-0.768
2022-12-06 00:00:00	-0.765	-0.768
2022-12-07 00:00:00	-0.775	-0.768
2022-12-08 00:00:00	-0.787	-0.769
2022-12-09 00:00:00	-0.775	-0.769
2022-12-10 00:00:00	-0.765	-0.769
2022-12-11 00:00:00	-0.774	-0.769
2022-12-12 00:00:00	-0.764	-0.768
2022-12-13 00:00:00	-0.779	-0.768
2022-12-14 00:00:00	-0.775	-0.769
2022-12-15 00:00:00	-0.783	-0.769
2022-12-16 00:00:00	-0.79	-0.77
2022-12-17 00:00:00	-0.779	-0.77
2022-12-18 00:00:00	-0.779	-0.77
2022-12-19 00:00:00	-0.787	-0.77
2022-12-20 00:00:00	-0.778	-0.771
2022-12-21 00:00:00	-0.771	-0.771
2022-12-22 00:00:00	-0.781	-0.772
2022-12-23 00:00:00	-0.775	-0.773
2022-12-24 00:00:00	-0.773	-0.772
2022-12-25 00:00:00	-0.771	-0.772
2022-12-26 00:00:00	-0.771	-0.772
2022-12-27 00:00:00	-0.755	-0.772
2022-12-28 00:00:00	-0.753	-0.773
2022-12-29 00:00:00	-0.759	-0.773
2022-12-30 00:00:00	-0.758	-0.773
2022-12-31 00:00:00	-0.77	-0.773

2023-01-01 00:00:00	-0.769	-0.772
2023-01-02 00:00:00	-0.755	-0.771
2023-01-03 00:00:00	-0.765	-0.772
2023-01-04 00:00:00	-0.765	-0.772
2023-01-05 00:00:00	-0.764	-0.772
2023-01-06 00:00:00	-0.786	-0.773
2023-01-07 00:00:00	-0.792	-0.773
2023-01-08 00:00:00	-0.771	-0.773
2023-01-09 00:00:00	-0.771	-0.773
2023-01-10 00:00:00	-0.772	-0.774
2023-01-11 00:00:00	-0.775	-0.775
2023-01-12 00:00:00	-0.792	-0.776
2023-01-13 00:00:00	-0.784	-0.777
2023-01-14 00:00:00	-0.783	-0.778
2023-01-15 00:00:00	-0.76	-0.779
2023-01-16 00:00:00	-0.758	-0.78
2023-01-17 00:00:00	-0.77	-0.78
2023-01-18 00:00:00	-0.789	-0.782
2023-01-19 00:00:00	-0.793	-0.783
2023-01-20 00:00:00	-0.785	-0.783
2023-01-21 00:00:00	-0.794	-0.784
2023-01-22 00:00:00	-0.773	-0.785
2023-01-23 00:00:00	-0.772	-0.785
2023-01-24 00:00:00	-0.789	-0.786
2023-01-25 00:00:00	-0.793	-0.787
2023-01-26 00:00:00	-0.802	-0.787
2023-01-27 00:00:00	-0.796	-0.787
2023-01-28 00:00:00	-0.785	-0.787
2023-01-29 00:00:00	-0.785	-0.787
2023-01-30 00:00:00	-0.8	-0.786
2023-01-31 00:00:00	-0.785	-0.787
2023-02-01 00:00:00	-0.791	-0.788
2023-02-02 00:00:00	-0.79	-0.788
2023-02-03 00:00:00	-0.794	-0.788
2023-02-04 00:00:00	-0.785	-0.788
2023-02-05 00:00:00	-0.789	-0.788
2023-02-06 00:00:00	-0.802	-0.787
2023-02-07 00:00:00	-0.794	-0.788
2023-02-08 00:00:00	-0.814	-0.788
2023-02-09 00:00:00	-0.793	-0.788
2023-02-10 00:00:00	-0.79	-0.789
2023-02-11 00:00:00	-0.774	-0.789
2023-02-12 00:00:00	-0.784	-0.788
2023-02-13 00:00:00	-0.771	-0.788
2023-02-14 00:00:00	-0.766	-0.787
2023-02-15 00:00:00	-0.787	-0.787
2023-02-16 00:00:00	-0.792	-0.787

2023-02-17 00:00:00	-0.772	-0.787
2023-02-18 00:00:00	-0.783	-0.787
2023-02-19 00:00:00	-0.783	-0.787
2023-02-20 00:00:00	-0.79	-0.788
2023-02-21 00:00:00	-0.78	-0.788
2023-02-22 00:00:00	-0.788	-0.788
2023-02-23 00:00:00	-0.79	-0.787
2023-02-24 00:00:00	-0.792	-0.786
2023-02-25 00:00:00	-0.807	-0.786
2023-02-26 00:00:00	-0.796	-0.786
2023-02-27 00:00:00	-0.775	-0.786
2023-02-28 00:00:00	-0.774	-0.786
2023-03-01 00:00:00	-0.779	-0.787
2023-03-02 00:00:00	-0.784	-0.788
2023-03-03 00:00:00	-0.79	-0.788
2023-03-04 00:00:00	-0.787	-0.788
2023-03-05 00:00:00	-0.797	-0.789
2023-03-06 00:00:00	-0.797	-0.789
2023-03-07 00:00:00	-0.805	-0.789
2023-03-08 00:00:00	-0.792	-0.79
2023-03-09 00:00:00	-0.799	-0.79
2023-03-10 00:00:00	-0.763	-0.789
2023-03-11 00:00:00	-0.798	-0.789
2023-03-12 00:00:00	-0.783	-0.789
2023-03-13 00:00:00	-0.786	-0.788
2023-03-14 00:00:00	-0.784	-0.788
2023-03-15 00:00:00	-0.776	-0.788
2023-03-16 00:00:00	-0.799	-0.789
2023-03-17 00:00:00	-0.794	-0.79
2023-03-18 00:00:00	-0.804	-0.79
2023-03-19 00:00:00	-0.795	-0.79
2023-03-20 00:00:00	-0.785	-0.79
2023-03-21 00:00:00	-0.786	-0.79
2023-03-22 00:00:00	-0.797	-0.79
2023-03-23 00:00:00	-0.799	-0.79
2023-03-24 00:00:00	-0.778	-0.79
2023-03-25 00:00:00	-0.778	-0.79
2023-03-26 00:00:00	-0.79	-0.791
2023-03-27 00:00:00	-0.783	-0.791
2023-03-28 00:00:00	-0.79	-0.791
2023-03-29 00:00:00	-0.776	-0.791
2023-03-30 00:00:00	-0.79	-0.791
2023-03-31 00:00:00	-0.79	-0.792
2023-04-01 00:00:00	-0.825	-0.792
2023-04-02 00:00:00	-0.782	-0.792
2023-04-03 00:00:00	-0.788	-0.791
2023-04-04 00:00:00	-0.79	-0.791



2023-04-05 00:00:00	-0.8	-0.791
2023-04-06 00:00:00	-0.796	-0.791
2023-04-07 00:00:00	-0.79	-0.791
2023-04-08 00:00:00	-0.799	-0.791
2023-04-09 00:00:00	-0.79	-0.792
2023-04-10 00:00:00	-0.799	-0.792
2023-04-11 00:00:00	-0.789	-0.792
2023-04-12 00:00:00	-0.793	-0.793
2023-04-13 00:00:00	-0.779	-0.792
2023-04-14 00:00:00	-0.793	-0.793
2023-04-15 00:00:00	-0.794	-0.792
2023-04-16 00:00:00	-0.81	-0.792
2023-04-17 00:00:00	-0.793	-0.79
2023-04-18 00:00:00	-0.783	-0.791
2023-04-19 00:00:00	-0.783	-0.791
2023-04-20 00:00:00	-0.787	-0.79
2023-04-21 00:00:00	-0.801	-0.79
2023-04-22 00:00:00	-0.783	-0.79
2023-04-23 00:00:00	-0.802	-0.791
2023-04-24 00:00:00	-0.799	-0.79
2023-04-25 00:00:00	-0.797	-0.79
2023-04-26 00:00:00	-0.781	-0.79
2023-04-27 00:00:00	-0.802	-0.789
2023-04-28 00:00:00	-0.775	-0.789
2023-04-29 00:00:00	-0.788	-0.79
2023-04-30 00:00:00	-0.774	-0.79
2023-05-01 00:00:00	-0.774	-0.789
2023-05-02 00:00:00	-0.785	-0.789
2023-05-03 00:00:00	-0.794	-0.788
2023-05-04 00:00:00	-0.783	-0.788
2023-05-05 00:00:00	-0.785	-0.788
2023-05-06 00:00:00	-0.799	-0.788
2023-05-07 00:00:00	-0.792	-0.787
2023-05-08 00:00:00	-0.801	-0.786
2023-05-09 00:00:00	-0.784	-0.785
2023-05-10 00:00:00	-0.775	-0.785
2023-05-11 00:00:00	-0.798	-0.784
2023-05-12 00:00:00	-0.778	-0.784
2023-05-13 00:00:00	-0.783	-0.783
2023-05-14 00:00:00	-0.802	-0.783
2023-05-15 00:00:00	-0.791	-0.784
2023-05-16 00:00:00	-0.788	-0.784
2023-05-17 00:00:00	-0.791	-0.784
2023-05-18 00:00:00	-0.779	-0.784
2023-05-19 00:00:00	-0.789	-0.783
2023-05-20 00:00:00	-0.775	-0.783
2023-05-21 00:00:00	-0.772	-0.783

2023-05-22 00:00:00	-0.774	-0.782
2023-05-23 00:00:00	-0.766	-0.782
2023-05-24 00:00:00	-0.772	-0.781
2023-05-25 00:00:00	-0.773	-0.781
2023-05-26 00:00:00	-0.774	-0.781
2023-05-27 00:00:00	-0.781	-0.781
2023-05-28 00:00:00	-0.771	-0.781
2023-05-29 00:00:00	-0.787	-0.78
2023-05-30 00:00:00	-0.802	-0.78
2023-05-31 00:00:00	-0.772	-0.779
2023-06-01 00:00:00	-0.784	-0.779
2023-06-02 00:00:00	-0.776	-0.779
2023-06-03 00:00:00	-0.779	-0.78
2023-06-04 00:00:00	-0.778	-0.779
2023-06-05 00:00:00	-0.777	-0.78
2023-06-06 00:00:00	-0.776	-0.78
2023-06-07 00:00:00	-0.787	-0.78
2023-06-08 00:00:00	-0.781	-0.781
2023-06-09 00:00:00	-0.783	-0.781
2023-06-10 00:00:00	-0.776	-0.78
2023-06-11 00:00:00	-0.788	-0.78
2023-06-12 00:00:00	-0.777	-0.78
2023-06-13 00:00:00	-0.77	-0.78
2023-06-14 00:00:00	-0.782	-0.779
2023-06-15 00:00:00	-0.776	-0.779
2023-06-16 00:00:00	-0.793	-0.779
2023-06-17 00:00:00	-0.784	-0.778
2023-06-18 00:00:00	-0.792	-0.778
2023-06-19 00:00:00	-0.782	-0.778
2023-06-20 00:00:00	-0.792	-0.777
2023-06-21 00:00:00	-0.785	-0.778
2023-06-22 00:00:00	-0.773	-0.777
2023-06-23 00:00:00	-0.775	-0.777
2023-06-24 00:00:00	-0.77	-0.776
2023-06-25 00:00:00	-0.763	-0.776
2023-06-26 00:00:00	-0.773	-0.777
2023-06-27 00:00:00	-0.765	-0.778
2023-06-28 00:00:00	-0.779	-0.779
2023-06-29 00:00:00	-0.771	-0.779
2023-06-30 00:00:00	-0.777	-0.78
2023-07-01 00:00:00	-0.783	-0.779
2023-07-02 00:00:00	-0.766	-0.779
2023-07-03 00:00:00	-0.756	-0.779
2023-07-04 00:00:00	-0.778	-0.778
2023-07-05 00:00:00	-0.771	-0.777
2023-07-06 00:00:00	-0.78	-0.777
2023-07-07 00:00:00	-0.771	-0.777

2023-07-08 00:00:00	-0.769	-0.778
2023-07-09 00:00:00	-0.771	-0.778
2023-07-10 00:00:00	-0.774	-0.778
2023-07-11 00:00:00	-0.809	-0.778
2023-07-12 00:00:00	-0.799	-0.777
2023-07-13 00:00:00	-0.811	-0.777
2023-07-14 00:00:00	-0.788	-0.776
2023-07-15 00:00:00	-0.808	-0.775
2023-07-16 00:00:00	-0.753	-0.775
2023-07-17 00:00:00	-0.791	-0.775
2023-07-18 00:00:00	-0.772	-0.774
2023-07-19 00:00:00	-0.759	-0.775
2023-07-20 00:00:00	-0.769	-0.776
2023-07-21 00:00:00	-0.788	-0.776
2023-07-22 00:00:00	-0.789	-0.776
2023-07-23 00:00:00	-0.778	-0.777
2023-07-24 00:00:00	-0.779	-0.777
2023-07-25 00:00:00	-0.766	-0.777
2023-07-26 00:00:00	-0.767	-0.777
2023-07-27 00:00:00	-0.764	-0.776
2023-07-28 00:00:00	-0.749	
2023-07-29 00:00:00	-0.747	
2023-07-30 00:00:00	-0.754	
2023-07-31 00:00:00	-0.761	
2023-08-01 00:00:00	-0.773	
2023-08-02 00:00:00	-0.763	
2023-08-03 00:00:00	-0.788	
2023-08-04 00:00:00	-0.792	
2023-08-05 00:00:00	-0.783	
2023-08-06 00:00:00	-0.783	
2023-08-07 00:00:00	-0.777	
2023-08-08 00:00:00	-0.771	
2023-08-09 00:00:00	-0.772	
2023-08-10 00:00:00	-0.774	
2023-08-11 00:00:00	-0.803	
2023-08-14 00:00:00	-0.798	
2023-08-15 00:00:00	-0.758	
2023-08-16 00:00:00	-0.78	
2023-08-17 00:00:00	-0.781	
2023-08-18 00:00:00	-0.765	
2023-08-19 00:00:00	-0.769	
2023-08-20 00:00:00	-0.731	
2023-08-21 00:00:00	-0.772	
2023-08-22 00:00:00	-0.763	
2023-08-23 00:00:00	-0.798	
2023-08-24 00:00:00	-0.751	
2023-08-25 00:00:00	-0.778	

2023-08-26 00:00:00	-0.798	
2023-08-27 00:00:00	-0.775	
2023-08-28 00:00:00	-0.773	
2023-08-29 00:00:00	-0.767	-0.77
2023-08-30 00:00:00	-0.765	-0.769
2023-08-31 00:00:00	-0.77	-0.769
2023-09-01 00:00:00	-0.771	-0.768
2023-09-02 00:00:00	-0.78	-0.768
2023-09-03 00:00:00	-0.761	-0.768
2023-09-04 00:00:00	-0.774	-0.768
2023-09-05 00:00:00	-0.76	-0.769
2023-09-06 00:00:00	-0.785	-0.77
2023-09-07 00:00:00	-0.775	-0.771
2023-09-08 00:00:00	-0.758	-0.771
2023-09-09 00:00:00	-0.768	-0.771
2023-09-10 00:00:00	-0.753	-0.771
2023-09-11 00:00:00	-0.753	-0.769
2023-09-12 00:00:00	-0.768	-0.769
2023-09-13 00:00:00	-0.773	-0.768
2023-09-14 00:00:00	-0.77	-0.768
2023-09-15 00:00:00	-0.763	-0.768
2023-09-16 00:00:00	-0.751	-0.768
2023-09-17 00:00:00	-0.763	-0.769
2023-09-18 00:00:00	-0.763	-0.768
2023-09-19 00:00:00	-0.774	-0.768
2023-09-20 00:00:00	-0.775	-0.768
2023-09-21 00:00:00	-0.788	-0.767
2023-09-22 00:00:00	-0.79	-0.766
2023-09-23 00:00:00	-0.794	-0.764
2023-09-24 00:00:00	-0.777	-0.764
2023-09-25 00:00:00	-0.769	-0.761
2023-09-26 00:00:00	-0.734	-0.759
2023-09-27 00:00:00	-0.764	-0.757
2023-09-28 00:00:00	-0.747	-0.755
2023-09-29 00:00:00	-0.757	-0.752
2023-09-30 00:00:00	-0.765	-0.75
2023-10-01 00:00:00	-0.794	-0.749
2023-10-02 00:00:00	-0.779	-0.747
2023-10-03 00:00:00	-0.762	-0.744
2023-10-04 00:00:00	-0.765	-0.742
2023-10-05 00:00:00	-0.756	-0.74
2023-10-06 00:00:00	-0.752	-0.738
2023-10-07 00:00:00	-0.741	-0.734
2023-10-08 00:00:00	-0.729	-0.731
2023-10-09 00:00:00	-0.734	-0.728
2023-10-10 00:00:00	-0.686	-0.725
2023-10-11 00:00:00	-0.681	-0.723

2023-10-12 00:00:00	-0.691	-0.723
2023-10-13 00:00:00	-0.705	-0.722
2023-10-14 00:00:00	-0.707	-0.722
2023-10-15 00:00:00	-0.703	-0.721
2023-10-16 00:00:00	-0.71	-0.719
2023-10-17 00:00:00	-0.695	-0.717
2023-10-18 00:00:00	-0.69	-0.716
2023-10-19 00:00:00	-0.698	-0.714
2023-10-20 00:00:00	-0.7	-0.712
2023-10-21 00:00:00	-0.705	-0.711
2023-10-22 00:00:00	-0.688	-0.71
2023-10-23 00:00:00	-0.683	-0.709
2023-10-24 00:00:00	-0.702	-0.708
2023-10-25 00:00:00	-0.686	-0.708
2023-10-26 00:00:00	-0.708	-0.709
2023-10-27 00:00:00	-0.727	-0.71
2023-10-28 00:00:00	-0.73	-0.712
2023-10-29 00:00:00	-0.739	-0.713
2023-10-30 00:00:00	-0.73	-0.714
2023-10-31 00:00:00	-0.726	-0.715
2023-11-01 00:00:00	-0.733	-0.715
2023-11-02 00:00:00	-0.719	-0.716
2023-11-03 00:00:00	-0.717	-0.717
2023-11-04 00:00:00	-0.713	-0.716
2023-11-05 00:00:00	-0.707	-0.717
2023-11-06 00:00:00	-0.713	-0.717
2023-11-07 00:00:00	-0.71	-0.717
2023-11-08 00:00:00	-0.703	-0.719
2023-11-09 00:00:00	-0.737	-0.719
2023-11-10 00:00:00	-0.731	-0.721
2023-11-11 00:00:00	-0.719	-0.721
2023-11-12 00:00:00	-0.733	-0.722
2023-11-13 00:00:00	-0.743	-0.722
2023-11-14 00:00:00	-0.737	-0.722
2023-11-15 00:00:00	-0.721	-0.721
2023-11-16 00:00:00	-0.724	-0.721
2023-11-17 00:00:00	-0.716	-0.72
2023-11-18 00:00:00	-0.726	-0.719
2023-11-19 00:00:00	-0.684	-0.718
2023-11-20 00:00:00	-0.704	-0.717
2023-11-21 00:00:00	-0.707	-0.717
2023-11-22 00:00:00	-0.709	-0.716
2023-11-23 00:00:00	-0.72	-0.715
2023-11-24 00:00:00	-0.72	-0.714
2023-11-25 00:00:00	-0.732	-0.713
2023-11-26 00:00:00	-0.733	-0.712
2023-11-27 00:00:00	-0.737	-0.711

2023-11-28 00:00:00	-0.739	-0.71
2023-11-29 00:00:00	-0.732	-0.708
2023-11-30 00:00:00	-0.711	-0.706
2023-12-01 00:00:00	-0.716	-0.705
2023-12-02 00:00:00	-0.714	-0.703
2023-12-03 00:00:00	-0.679	-0.703
2023-12-04 00:00:00	-0.677	-0.702
2023-12-05 00:00:00	-0.699	-0.704
2023-12-06 00:00:00	-0.699	-0.705
2023-12-07 00:00:00	-0.69	-0.705
2023-12-08 00:00:00	-0.675	-0.705
2023-12-09 00:00:00	-0.682	-0.704
2023-12-10 00:00:00	-0.692	-0.704
2023-12-11 00:00:00	-0.696	-0.702
2023-12-12 00:00:00	-0.699	-0.7
2023-12-13 00:00:00	-0.695	-0.698
2023-12-14 00:00:00	-0.672	-0.697
2023-12-15 00:00:00	-0.68	-0.695
2023-12-16 00:00:00	-0.695	-0.694
2023-12-17 00:00:00	-0.668	-0.693
2023-12-18 00:00:00	-0.698	-0.693
2023-12-19 00:00:00	-0.722	-0.694
2023-12-20 00:00:00	-0.729	-0.696
2023-12-21 00:00:00	-0.726	-0.697
2023-12-22 00:00:00	-0.704	-0.698
2023-12-23 00:00:00	-0.72	-0.699
2023-12-24 00:00:00	-0.702	-0.701
2023-12-25 00:00:00	-0.705	-0.702
2023-12-26 00:00:00	-0.675	-0.703
2023-12-27 00:00:00	-0.67	-0.704
2023-12-28 00:00:00	-0.69	-0.705
2023-12-29 00:00:00	-0.691	-0.706
2023-12-30 00:00:00	-0.675	-0.706
2023-12-31 00:00:00	-0.679	-0.708
2024-01-01 00:00:00	-0.698	-0.709
2024-01-02 00:00:00	-0.713	-0.71
2024-01-03 00:00:00	-0.708	-0.711
2024-01-04 00:00:00	-0.733	-0.71
2024-01-05 00:00:00	-0.712	-0.71
2024-01-06 00:00:00	-0.734	-0.709
2024-01-07 00:00:00	-0.735	-0.708
2024-01-08 00:00:00	-0.724	-0.706
2024-01-09 00:00:00	-0.729	-0.705
2024-01-10 00:00:00	-0.707	-0.704
2024-01-11 00:00:00	-0.732	-0.704
2024-01-12 00:00:00	-0.723	-0.705
2024-01-13 00:00:00	-0.733	-0.704

2024-01-14 00:00:00	-0.689	-0.704
2024-01-15 00:00:00	-0.726	-0.704
2024-01-16 00:00:00	-0.715	-0.705
2024-01-17 00:00:00	-0.722	-0.705
2024-01-18 00:00:00	-0.717	-0.705
2024-01-19 00:00:00	-0.699	-0.705
2024-01-20 00:00:00	-0.716	-0.704
2024-01-21 00:00:00	-0.692	-0.705
2024-01-22 00:00:00	-0.681	-0.705
2024-01-23 00:00:00	-0.667	-0.705
2024-01-24 00:00:00	-0.677	-0.705
2024-01-25 00:00:00	-0.665	-0.705
2024-01-26 00:00:00	-0.678	-0.706
2024-01-27 00:00:00	-0.683	-0.705
2024-01-28 00:00:00	-0.683	-0.705
2024-01-29 00:00:00	-0.675	-0.704
2024-01-30 00:00:00	-0.69	-0.705
2024-01-31 00:00:00	-0.702	-0.704
2024-02-01 00:00:00	-0.705	-0.704
2024-02-02 00:00:00	-0.703	-0.703
2024-02-03 00:00:00	-0.703	-0.703
2024-02-04 00:00:00	-0.705	-0.704
2024-02-05 00:00:00	-0.752	-0.704
2024-02-06 00:00:00	-0.723	-0.704
2024-02-07 00:00:00	-0.727	-0.706
2024-02-08 00:00:00	-0.735	-0.707
2024-02-09 00:00:00	-0.742	-0.707
2024-02-10 00:00:00	-0.716	-0.709
2024-02-11 00:00:00	-0.712	-0.709
2024-02-12 00:00:00	-0.716	-0.71
2024-02-13 00:00:00	-0.71	-0.71
2024-02-14 00:00:00	-0.717	-0.711
2024-02-15 00:00:00	-0.706	-0.712
2024-02-16 00:00:00	-0.707	-0.712
2024-02-17 00:00:00	-0.702	-0.713
2024-02-18 00:00:00	-0.718	-0.713
2024-02-19 00:00:00	-0.708	-0.714
2024-02-20 00:00:00	-0.718	-0.714
2024-02-21 00:00:00	-0.713	-0.712
2024-02-22 00:00:00	-0.718	-0.711
2024-02-23 00:00:00	-0.699	-0.71
2024-02-24 00:00:00	-0.697	-0.708
2024-02-25 00:00:00	-0.705	-0.706
2024-02-26 00:00:00	-0.694	-0.705
2024-02-27 00:00:00	-0.697	-0.705
2024-02-28 00:00:00	-0.702	-0.704
2024-02-29 00:00:00	-0.707	-0.704

2024-03-01 00:00:00	-0.72	-0.704
2024-03-02 00:00:00	-0.705	-0.704
2024-03-03 00:00:00	-0.713	-0.705
2024-03-04 00:00:00	-0.719	-0.705
2024-03-05 00:00:00	-0.717	-0.705
2024-03-06 00:00:00	-0.708	-0.705
2024-03-07 00:00:00	-0.698	-0.705
2024-03-08 00:00:00	-0.693	-0.705
2024-03-09 00:00:00	-0.693	-0.705
2024-03-10 00:00:00	-0.669	-0.705
2024-03-11 00:00:00	-0.678	-0.706
2024-03-12 00:00:00	-0.698	-0.707
2024-03-13 00:00:00	-0.696	-0.707
2024-03-14 00:00:00	-0.693	-0.708
2024-03-15 00:00:00	-0.708	-0.708
2024-03-16 00:00:00	-0.722	-0.709
2024-03-17 00:00:00	-0.716	-0.709
2024-03-18 00:00:00	-0.716	-0.71
2024-03-19 00:00:00	-0.72	-0.71
2024-03-20 00:00:00	-0.711	-0.71
2024-03-21 00:00:00	-0.714	-0.711
2024-03-22 00:00:00	-0.718	-0.711
2024-03-23 00:00:00	-0.717	-0.712
2024-03-24 00:00:00	-0.721	-0.712
2024-03-25 00:00:00	-0.698	-0.712
2024-03-26 00:00:00	-0.719	-0.713
2024-03-27 00:00:00	-0.726	-0.715
2024-03-28 00:00:00	-0.72	-0.715
2024-03-29 00:00:00	-0.714	-0.715
2024-03-30 00:00:00	-0.706	-0.717
2024-03-31 00:00:00	-0.718	-0.717
2024-04-01 00:00:00	-0.732	-0.716
2024-04-02 00:00:00	-0.734	-0.716
2024-04-03 00:00:00	-0.719	-0.716
2024-04-04 00:00:00	-0.732	-0.716
2024-04-05 00:00:00	-0.72	-0.716
2024-04-06 00:00:00	-0.723	-0.716
2024-04-07 00:00:00	-0.717	-0.716
2024-04-08 00:00:00	-0.701	-0.716
2024-04-09 00:00:00	-0.702	-0.716
2024-04-10 00:00:00	-0.705	-0.717
2024-04-11 00:00:00	-0.717	-0.717
2024-04-12 00:00:00	-0.695	-0.716
2024-04-13 00:00:00	-0.708	-0.716
2024-04-14 00:00:00	-0.747	-0.716
2024-04-15 00:00:00	-0.707	-0.716
2024-04-16 00:00:00	-0.709	-0.716



2024-04-17 00:00:00	-0.705	-0.716
2024-04-18 00:00:00	-0.713	-0.716
2024-04-19 00:00:00	-0.73	-0.716
2024-04-20 00:00:00	-0.703	-0.715
2024-04-21 00:00:00	-0.72	-0.715
2024-04-22 00:00:00	-0.704	-0.715
2024-04-23 00:00:00	-0.729	-0.714
2024-04-24 00:00:00	-0.727	-0.714
2024-04-25 00:00:00	-0.732	-0.715
2024-04-26 00:00:00	-0.722	-0.716
2024-04-27 00:00:00	-0.697	-0.716
2024-04-28 00:00:00	-0.712	-0.717
2024-04-29 00:00:00	-0.708	-0.718
2024-04-30 00:00:00	-0.709	-0.717
2024-05-01 00:00:00	-0.712	-0.718
2024-05-02 00:00:00	-0.724	-0.719
2024-05-03 00:00:00	-0.733	-0.72
2024-05-04 00:00:00	-0.722	-0.721
2024-05-05 00:00:00	-0.721	-0.721
2024-05-06 00:00:00	-0.714	-0.721
2024-05-07 00:00:00	-0.711	-0.722
2024-05-08 00:00:00	-0.701	-0.722
2024-05-09 00:00:00	-0.707	-0.722
2024-05-10 00:00:00	-0.732	-0.722
2024-05-11 00:00:00	-0.718	-0.721
2024-05-12 00:00:00	-0.719	-0.721
2024-05-13 00:00:00	-0.732	-0.722
2024-05-14 00:00:00	-0.727	-0.723
2024-05-15 00:00:00	-0.738	-0.723
2024-05-16 00:00:00	-0.732	-0.724
2024-05-17 00:00:00	-0.733	-0.724
2024-05-18 00:00:00	-0.731	-0.724
2024-05-19 00:00:00	-0.738	-0.724
2024-05-20 00:00:00	-0.733	-0.724
2024-05-21 00:00:00	-0.727	-0.725
2024-05-22 00:00:00	-0.733	-0.725
2024-05-23 00:00:00	-0.723	-0.725
2024-05-24 00:00:00	-0.716	-0.725
2024-05-25 00:00:00	-0.716	-0.726
2024-05-26 00:00:00	-0.717	-0.725
2024-05-27 00:00:00	-0.723	-0.726
2024-05-28 00:00:00	-0.721	-0.726
2024-05-29 00:00:00	-0.727	-0.725
2024-05-30 00:00:00	-0.734	-0.725
2024-05-31 00:00:00	-0.719	-0.725
2024-06-01 00:00:00	-0.73	-0.725
2024-06-02 00:00:00	-0.724	-0.725

2024-06-03 00:00:00	-0.725	-0.724
2024-06-04 00:00:00	-0.736	-0.723
2024-06-05 00:00:00	-0.734	-0.723
2024-06-06 00:00:00	-0.71	-0.723
2024-06-07 00:00:00	-0.707	-0.723
2024-06-08 00:00:00	-0.723	-0.723
2024-06-09 00:00:00	-0.721	-0.724
2024-06-10 00:00:00	-0.721	-0.725
2024-06-11 00:00:00	-0.726	-0.726
2024-06-12 00:00:00	-0.719	-0.726
2024-06-13 00:00:00	-0.712	-0.726
2024-06-14 00:00:00	-0.736	-0.726
2024-06-15 00:00:00	-0.727	-0.727
2024-06-16 00:00:00	-0.727	-0.727
2024-06-17 00:00:00	-0.73	-0.728
2024-06-18 00:00:00	-0.7	-0.728
2024-06-19 00:00:00	-0.716	-0.728
2024-06-20 00:00:00	-0.731	-0.727
2024-06-21 00:00:00	-0.733	-0.727
2024-06-22 00:00:00	-0.737	-0.728
2024-06-23 00:00:00	-0.728	-0.729
2024-06-24 00:00:00	-0.736	-0.729
2024-06-25 00:00:00	-0.742	-0.729
2024-06-26 00:00:00	-0.74	-0.73
2024-06-27 00:00:00	-0.739	-0.73
2024-06-28 00:00:00	-0.726	-0.73
2024-06-29 00:00:00	-0.73	-0.73
2024-06-30 00:00:00	-0.745	-0.73
2024-07-01 00:00:00	-0.726	-0.73
2024-07-02 00:00:00	-0.746	-0.73
2024-07-03 00:00:00	-0.74	-0.73
2024-07-04 00:00:00	-0.723	-0.731
2024-07-05 00:00:00	-0.719	-0.732
2024-07-06 00:00:00	-0.73	-0.732
2024-07-07 00:00:00	-0.736	-0.732
2024-07-08 00:00:00	-0.725	-0.732
2024-07-09 00:00:00	-0.732	-0.733
2024-07-10 00:00:00	-0.735	-0.733
2024-07-11 00:00:00	-0.726	-0.732
2024-07-12 00:00:00	-0.728	-0.732
2024-07-13 00:00:00	-0.725	-0.731
2024-07-14 00:00:00	-0.726	-0.731
2024-07-15 00:00:00	-0.737	-0.731
2024-07-16 00:00:00	-0.72	-0.73
2024-07-17 00:00:00	-0.72	-0.731
2024-07-18 00:00:00	-0.728	-0.731
2024-07-19 00:00:00	-0.751	-0.731

2024-07-20 00:00:00	-0.738	-0.731
2024-07-21 00:00:00	-0.729	-0.731
2024-07-22 00:00:00	-0.722	-0.731
2024-07-23 00:00:00	-0.741	-0.731
2024-07-24 00:00:00	-0.748	-0.732
2024-07-25 00:00:00	-0.749	-0.732
2024-07-26 00:00:00	-0.719	-0.732
2024-07-27 00:00:00	-0.727	-0.732
2024-07-28 00:00:00	-0.72	-0.732
2024-07-29 00:00:00	-0.719	-0.733
2024-07-30 00:00:00	-0.72	-0.733
2024-07-31 00:00:00	-0.739	-0.733
2024-08-01 00:00:00	-0.73	-0.733
2024-08-02 00:00:00	-0.757	-0.732
2024-08-03 00:00:00	-0.739	-0.732
2024-08-04 00:00:00	-0.714	-0.731
2024-08-05 00:00:00	-0.732	-0.731
2024-08-06 00:00:00	-0.733	-0.731
2024-08-07 00:00:00	-0.731	-0.732
2024-08-08 00:00:00	-0.748	-0.733
2024-08-09 00:00:00	-0.726	-0.732
2024-08-10 00:00:00	-0.737	-0.731
2024-08-11 00:00:00	-0.74	-0.732
2024-08-12 00:00:00	-0.737	-0.732
2024-08-13 00:00:00	-0.74	-0.732
2024-08-14 00:00:00	-0.729	-0.733
2024-08-15 00:00:00	-0.728	-0.733
2024-08-16 00:00:00	-0.718	-0.733
2024-08-17 00:00:00	-0.702	-0.734
2024-08-18 00:00:00	-0.719	-0.733
2024-08-19 00:00:00	-0.732	-0.733
2024-08-20 00:00:00	-0.738	-0.733
2024-08-21 00:00:00	-0.737	-0.734
2024-08-22 00:00:00	-0.757	-0.734
2024-08-23 00:00:00	-0.752	-0.735
2024-08-24 00:00:00	-0.729	-0.734
2024-08-25 00:00:00	-0.725	-0.735
2024-08-26 00:00:00	-0.746	-0.735
2024-08-27 00:00:00	-0.727	-0.734
2024-08-28 00:00:00	-0.719	-0.734
2024-08-29 00:00:00	-0.734	-0.733
2024-08-30 00:00:00	-0.737	-0.733
2024-08-31 00:00:00	-0.735	-0.733
2024-09-01 00:00:00	-0.747	-0.732
2024-09-02 00:00:00	-0.727	-0.733
2024-09-03 00:00:00	-0.739	-0.733
2024-09-04 00:00:00	-0.733	-0.733

2024-09-05 00:00:00	-0.749	-0.734
2024-09-06 00:00:00	-0.751	-0.734
2024-09-07 00:00:00	-0.747	-0.733
2024-09-08 00:00:00	-0.73	-0.733
2024-09-09 00:00:00	-0.738	-0.733
2024-09-10 00:00:00	-0.734	-0.732
2024-09-11 00:00:00	-0.731	-0.732
2024-09-12 00:00:00	-0.727	-0.732
2024-09-13 00:00:00	-0.718	-0.732
2024-09-14 00:00:00	-0.719	-0.731
2024-09-15 00:00:00	-0.722	-0.731
2024-09-16 00:00:00	-0.701	-0.731
2024-09-17 00:00:00	-0.709	-0.731
2024-09-18 00:00:00	-0.727	-0.73
2024-09-19 00:00:00	-0.746	-0.73
2024-09-20 00:00:00	-0.748	-0.73
2024-09-21 00:00:00	-0.743	-0.729
2024-09-22 00:00:00	-0.741	-0.729
2024-09-23 00:00:00	-0.734	-0.728
2024-09-24 00:00:00	-0.727	-0.728
2024-09-25 00:00:00	-0.721	-0.728
2024-09-26 00:00:00	-0.728	-0.728
2024-09-27 00:00:00	-0.733	-0.728
2024-09-28 00:00:00	-0.71	-0.728
2024-09-29 00:00:00	-0.72	-0.728
2024-09-30 00:00:00	-0.728	-0.729
2024-10-01 00:00:00	-0.738	-0.728
2024-10-02 00:00:00	-0.727	-0.729
2024-10-03 00:00:00	-0.725	-0.729
2024-10-04 00:00:00	-0.731	-0.73
2024-10-05 00:00:00	-0.733	-0.729
2024-10-06 00:00:00	-0.726	-0.729
2024-10-07 00:00:00	-0.727	-0.728
2024-10-08 00:00:00	-0.724	-0.728
2024-10-09 00:00:00	-0.733	-0.728
2024-10-10 00:00:00	-0.731	-0.728
2024-10-11 00:00:00	-0.743	-0.729
2024-10-12 00:00:00	-0.73	-0.729
2024-10-13 00:00:00	-0.733	-0.728
2024-10-14 00:00:00	-0.719	-0.728
2024-10-15 00:00:00	-0.73	-0.729
2024-10-16 00:00:00	-0.716	-0.729
2024-10-17 00:00:00	-0.714	-0.729
2024-10-18 00:00:00	-0.728	-0.729
2024-10-19 00:00:00	-0.732	-0.728
2024-10-20 00:00:00	-0.737	-0.728
2024-10-21 00:00:00	-0.726	-0.728

2024-10-22 00:00:00	-0.731	-0.728
2024-10-23 00:00:00	-0.729	-0.728
2024-10-24 00:00:00	-0.732	-0.728
2024-10-25 00:00:00	-0.733	-0.728
2024-10-26 00:00:00	-0.739	-0.729
2024-10-27 00:00:00	-0.728	-0.729
2024-10-28 00:00:00	-0.708	-0.728
2024-10-29 00:00:00	-0.727	-0.729
2024-10-30 00:00:00	-0.732	-0.729
2024-10-31 00:00:00	-0.732	-0.729
2024-11-01 00:00:00	-0.729	-0.729
2024-11-02 00:00:00	-0.735	-0.729
2024-11-03 00:00:00	-0.703	-0.728
2024-11-04 00:00:00	-0.734	-0.728
2024-11-05 00:00:00	-0.715	-0.728
2024-11-06 00:00:00	-0.731	-0.729
2024-11-07 00:00:00	-0.729	-0.729
2024-11-08 00:00:00	-0.736	-0.729
2024-11-09 00:00:00	-0.74	-0.728
2024-11-10 00:00:00	-0.743	-0.728
2024-11-11 00:00:00	-0.739	-0.728
2024-11-12 00:00:00	-0.714	-0.729
2024-11-13 00:00:00	-0.743	-0.73
2024-11-14 00:00:00	-0.723	-0.729
2024-11-15 00:00:00	-0.73	-0.73
2024-11-16 00:00:00	-0.719	-0.73
2024-11-17 00:00:00	-0.728	-0.73
2024-11-18 00:00:00	-0.698	-0.73
2024-11-19 00:00:00	-0.732	-0.731
2024-11-20 00:00:00	-0.742	-0.731
2024-11-21 00:00:00	-0.738	-0.731
2024-11-22 00:00:00	-0.736	-0.731
2024-11-23 00:00:00	-0.723	-0.731
2024-11-24 00:00:00	-0.719	-0.731
2024-11-25 00:00:00	-0.732	-0.73
2024-11-26 00:00:00	-0.743	-0.731
2024-11-27 00:00:00	-0.743	-0.73
2024-11-28 00:00:00	-0.729	-0.73
2024-11-29 00:00:00	-0.724	-0.73
2024-11-30 00:00:00	-0.736	-0.73
2024-12-01 00:00:00	-0.736	-0.73
2024-12-02 00:00:00	-0.74	-0.73
2024-12-03 00:00:00	-0.733	-0.731
2024-12-04 00:00:00	-0.73	-0.732
2024-12-05 00:00:00	-0.727	-0.732
2024-12-06 00:00:00	-0.73	-0.732
2024-12-07 00:00:00	-0.726	-0.731

2024-12-08 00:00:00	-0.721	-0.73
2024-12-09 00:00:00	-0.732	-0.73
2024-12-10 00:00:00	-0.734	-0.73
2024-12-11 00:00:00	-0.747	-0.73
2024-12-12 00:00:00	-0.713	-0.728
2024-12-13 00:00:00	-0.724	-0.727
2024-12-14 00:00:00	-0.733	-0.727
2024-12-15 00:00:00	-0.738	-0.727
2024-12-16 00:00:00	-0.722	-0.727
2024-12-17 00:00:00	-0.73	-0.727
2024-12-18 00:00:00	-0.737	-0.726
2024-12-19 00:00:00	-0.736	-0.726
2024-12-20 00:00:00	-0.739	-0.725
2024-12-21 00:00:00	-0.73	-0.724
2024-12-22 00:00:00	-0.72	-0.723
2024-12-23 00:00:00	-0.711	-0.722
2024-12-24 00:00:00	-0.72	-0.722
2024-12-25 00:00:00	-0.725	-0.721
2024-12-26 00:00:00	-0.709	-0.72
2024-12-27 00:00:00	-0.689	-0.718
2024-12-28 00:00:00	-0.729	-0.718
2024-12-29 00:00:00	-0.717	-0.718
2024-12-30 00:00:00	-0.726	-0.718
2024-12-31 00:00:00	-0.731	-0.718
2025-01-01 00:00:00	-0.736	-0.718
2025-01-02 00:00:00	-0.725	-0.718
2025-01-03 00:00:00	-0.718	-0.718
2025-01-04 00:00:00	-0.696	-0.718
2025-01-05 00:00:00	-0.696	-0.718
2025-01-06 00:00:00	-0.712	-0.717
2025-01-07 00:00:00	-0.7	-0.717
2025-01-08 00:00:00	-0.706	-0.717
2025-01-09 00:00:00	-0.708	-0.717
2025-01-10 00:00:00	-0.687	-0.717
2025-01-11 00:00:00	-0.69	-0.719
2025-01-12 00:00:00	-0.715	-0.721
2025-01-13 00:00:00	-0.737	-0.722
2025-01-14 00:00:00	-0.723	-0.722
2025-01-15 00:00:00	-0.731	-0.722
2025-01-16 00:00:00	-0.737	-0.722
2025-01-17 00:00:00	-0.727	-0.72
2025-01-18 00:00:00	-0.742	
2025-01-19 00:00:00	-0.733	
2025-01-20 00:00:00	-0.72	
2025-01-21 00:00:00	-0.717	
2025-01-22 00:00:00	-0.714	
2025-01-23 00:00:00	-0.717	

2025-01-24 00:00:00	-0.717
2025-01-25 00:00:00	-0.733
2025-01-26 00:00:00	-0.768
2025-01-27 00:00:00	-0.748
2025-01-28 00:00:00	-0.744
2025-01-29 00:00:00	-0.738
2025-01-30 00:00:00	-0.729
2025-01-31 00:00:00	-0.71
2025-02-01 00:00:00	-0.679

## APPENDIX G

Casmalia Stream Gage Data



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Surface Water

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

# USGS 11136100 SAN ANTONIO C NR CASMALIA CA

## PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site

Time-series: Daily data

GO

Click to hide station-specific text

This station managed by the Santa Maria Field Office.

### Available Parameters

- All 3 Available Parameters for this site
- 00010 Temperature, water(Max.,Min.)
- 00060 Discharge(Mean)
- 00400 pH(Max.,Min.)

### Period of Record

1981-12-08 1983-10-04  
 1955-10-01 2025-02-09  
 1981-12-08 1983-10-04

### Output format

- Graph
- Graph w/ stats
- Graph w/ meas
- Graph w/ (up to 3) parms
- Table
- Tab-separated

Days (365)

[Summary of all available data for this site](#)

GO

[Instantaneous-data availability statement](#)

-- or --

Begin date

2023-10-01

End date

2024-09-30

### Daily Mean Discharge, cubic feet per second

DATE	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024
1	0.52 <sup>A</sup> e	0.50 <sup>A</sup> e	0.33 <sup>A</sup>	0.70 <sup>A</sup>	12.0 <sup>A</sup>	8.80 <sup>A</sup> e	3.79 <sup>A</sup> e	3.00 <sup>A</sup> e	2.44 <sup>A</sup>	0.56 <sup>P</sup>	0.76 <sup>P</sup>	0.64 <sup>P</sup>
2	0.52 <sup>A</sup> e	0.50 <sup>A</sup> e	0.32 <sup>A</sup>	0.23 <sup>A</sup>	10.3 <sup>A</sup>	28.7 <sup>A</sup>	3.65 <sup>A</sup> e	2.85 <sup>A</sup> e	2.03 <sup>A</sup>	0.77 <sup>P</sup>	0.64 <sup>P</sup>	0.53 <sup>P</sup>
3	0.52 <sup>A</sup> e	0.49 <sup>A</sup> e	0.17 <sup>A</sup> e	0.42 <sup>A</sup>	3.44 <sup>A</sup>	31.0 <sup>A</sup>	3.15 <sup>A</sup> e	2.70 <sup>A</sup> e	2.18 <sup>A</sup>	0.61 <sup>P</sup>	0.66 <sup>P</sup>	0.50 <sup>P</sup>
4	0.52 <sup>A</sup> e	0.49 <sup>A</sup> e	0.34 <sup>A</sup>	0.86 <sup>A</sup>	17.5 <sup>A</sup>	22.7 <sup>A</sup>	2.70 <sup>A</sup> e	2.55 <sup>A</sup> e	2.26 <sup>A</sup>	0.75 <sup>P</sup>	0.65 <sup>P</sup>	0.54 <sup>P</sup>
5	0.52 <sup>A</sup> e	0.49 <sup>A</sup> e	0.33 <sup>A</sup>	0.19 <sup>A</sup>	46.1 <sup>A</sup>	14.9 <sup>A</sup>	6.12 <sup>A</sup>	2.40 <sup>A</sup> e	2.30 <sup>A</sup>	0.79 <sup>P</sup>	0.74 <sup>P</sup>	0.57 <sup>P</sup>
6	0.52 <sup>A</sup> e	0.50 <sup>A</sup> e	0.42 <sup>A</sup>	0.16 <sup>A</sup>	39.4 <sup>A</sup>	18.0 <sup>A</sup>	4.78 <sup>A</sup>	2.25 <sup>A</sup> e	2.43 <sup>A</sup>	1.37 <sup>P</sup>	0.64 <sup>P</sup>	0.56 <sup>P</sup>
7	0.52 <sup>A</sup> e	0.56 <sup>A</sup>	0.22 <sup>A</sup>	0.10 <sup>A</sup>	29.0 <sup>A</sup>	36.2 <sup>A</sup> e	3.01 <sup>A</sup>	2.09 <sup>A</sup> e	2.27 <sup>A</sup>	0.56 <sup>P</sup>	0.62 <sup>P</sup>	0.58 <sup>P</sup>

<b>8</b>	0.52 <sup>A e</sup>	0.49 <sup>A</sup>	0.08 <sup>A</sup>	0.08 <sup>A</sup>	35.8 <sup>A</sup>	21.8 <sup>A e</sup>	2.93 <sup>A</sup>	1.94 <sup>A e</sup>	2.68 <sup>A</sup>	0.51 <sup>P</sup>	0.77 <sup>P</sup>	0.57 <sup>P</sup>
<b>9</b>	0.52 <sup>A e</sup>	0.49 <sup>A</sup>	0.09 <sup>A</sup>	0.08 <sup>A</sup>	9.83 <sup>A</sup>	13.2 <sup>A e</sup>	2.66 <sup>A</sup>	1.79 <sup>A e</sup>	2.29 <sup>A</sup>	0.45 <sup>P</sup>	0.75 <sup>P</sup>	0.57 <sup>P</sup>
<b>10</b>	0.52 <sup>A e</sup>	0.69 <sup>A</sup>	0.17 <sup>A</sup>	0.18 <sup>A</sup>	2.46 <sup>A</sup>	7.51 <sup>A</sup>	2.41 <sup>A</sup>	1.66 <sup>A e</sup>	2.19 <sup>A</sup>	0.33 <sup>P</sup>	0.80 <sup>P</sup>	0.55 <sup>P</sup>
<b>11</b>	0.51 <sup>A e</sup>	0.58 <sup>A</sup>	0.21 <sup>A</sup>	0.40 <sup>A</sup>	0.56 <sup>A</sup>	6.68 <sup>A</sup>	1.83 <sup>A</sup>	1.62 <sup>A e</sup>	1.74 <sup>A</sup>	0.39 <sup>P</sup>	0.82 <sup>P</sup>	0.61 <sup>P</sup>
<b>12</b>	0.51 <sup>A e</sup>	0.50 <sup>A</sup>	0.17 <sup>A</sup>	0.21 <sup>A</sup>	0.19 <sup>A</sup>	5.16 <sup>A e</sup>	1.55 <sup>A</sup>	1.56 <sup>A</sup>	1.96 <sup>A</sup>	0.35 <sup>P</sup>	0.90 <sup>P</sup>	0.66 <sup>P</sup>
<b>13</b>	0.51 <sup>A e</sup>	0.53 <sup>A</sup>	0.11 <sup>A</sup>	0.12 <sup>A</sup>	0.12 <sup>A</sup>	4.16 <sup>A</sup>	19.8 <sup>A</sup>	1.74 <sup>A</sup>	2.19 <sup>A</sup>	0.36 <sup>P</sup>	0.85 <sup>P</sup>	0.68 <sup>P</sup>
<b>14</b>	0.51 <sup>A e</sup>	0.54 <sup>A e</sup>	0.27 <sup>A</sup>	0.12 <sup>A</sup>	0.09 <sup>A</sup>	1.80 <sup>A e</sup>	38.1 <sup>A</sup>	1.52 <sup>A</sup>	2.34 <sup>A</sup>	0.34 <sup>P</sup>	0.77 <sup>P</sup>	0.62 <sup>P</sup>
<b>15</b>	0.51 <sup>A e</sup>	0.58 <sup>A</sup>	0.33 <sup>A</sup>	0.13 <sup>A</sup>	0.15 <sup>A</sup>	1.61 <sup>A e</sup>	23.7 <sup>A</sup>	1.37 <sup>A</sup>	2.18 <sup>A</sup>	0.40 <sup>P</sup>	0.78 <sup>P</sup>	0.61 <sup>P</sup>
<b>16</b>	0.51 <sup>A e</sup>	0.53 <sup>A</sup>	0.37 <sup>A</sup>	0.11 <sup>A</sup>	0.27 <sup>A</sup>	1.16 <sup>A e</sup>	9.08 <sup>A</sup>	1.53 <sup>A</sup>	2.10 <sup>A</sup>	0.39 <sup>P</sup>	0.85 <sup>P</sup>	0.59 <sup>P</sup>
<b>17</b>	0.51 <sup>A e</sup>	0.48 <sup>A</sup>	0.39 <sup>A</sup>	0.13 <sup>A</sup>	0.22 <sup>A</sup>	0.98 <sup>A e</sup>	4.28 <sup>A</sup>	1.60 <sup>A</sup>	1.61 <sup>A</sup>	0.32 <sup>P</sup>	1.03 <sup>P</sup>	0.61 <sup>P</sup>
<b>18</b>	0.51 <sup>A e</sup>	0.76 <sup>A</sup>	0.30 <sup>A</sup>	0.15 <sup>A</sup>	1.41 <sup>A</sup>	0.92 <sup>A</sup>	2.77 <sup>A</sup>	2.34 <sup>A</sup>	1.39 <sup>P</sup>	0.43 <sup>P</sup>	1.34 <sup>P</sup>	0.79 <sup>P</sup>
<b>19</b>	0.51 <sup>A e</sup>	0.70 <sup>A</sup>	0.57 <sup>A</sup>	0.15 <sup>A</sup>	290 <sup>A</sup>	0.85 <sup>A</sup>	2.96 <sup>A</sup>	2.49 <sup>A</sup>	1.27 <sup>P</sup>	0.42 <sup>P</sup>	1.03 <sup>P</sup>	0.66 <sup>P</sup>
<b>20</b>	0.51 <sup>A e</sup>	0.39 <sup>A</sup>	5.05 <sup>A</sup>	0.24 <sup>A e</sup>	70.2 <sup>A</sup>	0.79 <sup>A</sup>	2.23 <sup>A</sup>	2.35 <sup>A</sup>	0.83 <sup>P</sup>	0.39 <sup>P</sup>	0.64 <sup>P</sup>	0.59 <sup>P</sup>
<b>21</b>	0.51 <sup>A e</sup>	0.34 <sup>A</sup>	3.76 <sup>A</sup>	0.24 <sup>A</sup>	50.7 <sup>A</sup>	0.76 <sup>A</sup>	2.19 <sup>A</sup>	2.88 <sup>A</sup>	1.13 <sup>P</sup>	0.50 <sup>P</sup>	0.64 <sup>P</sup>	0.66 <sup>P</sup>
<b>22</b>	0.51 <sup>A e</sup>	0.42 <sup>A</sup>	0.39 <sup>A</sup>	2.83 <sup>A</sup>	29.2 <sup>A</sup>	0.62 <sup>A</sup>	2.00 <sup>A</sup>	2.69 <sup>A</sup>	1.21 <sup>P</sup>	0.75 <sup>P</sup>	0.59 <sup>P</sup>	0.72 <sup>P</sup>
<b>23</b>	0.50 <sup>A e</sup>	0.31 <sup>A</sup>	0.20 <sup>A</sup>	3.19 <sup>A</sup>	19.3 <sup>A</sup>	2.04 <sup>A</sup>	1.64 <sup>A</sup>	2.98 <sup>A</sup>	1.00 <sup>P</sup>	0.76 <sup>P</sup>	0.63 <sup>P</sup>	0.55 <sup>P</sup>
<b>24</b>	0.50 <sup>A e</sup>	0.30 <sup>A</sup>	0.08 <sup>A</sup>	0.45 <sup>A e</sup>	12.1 <sup>A</sup>	0.86 <sup>A</sup>	1.37 <sup>A</sup>	2.69 <sup>A</sup>	0.89 <sup>P</sup>	0.75 <sup>P</sup>	0.74 <sup>P</sup>	0.69 <sup>P</sup>
<b>25</b>	0.50 <sup>A e</sup>	0.24 <sup>A</sup>	0.06 <sup>A</sup>	0.18 <sup>A</sup>	8.81 <sup>A</sup>	0.52 <sup>A e</sup>	1.60 <sup>A e</sup>	2.60 <sup>A</sup>	0.92 <sup>P</sup>	0.68 <sup>P</sup>	0.73 <sup>P</sup>	0.59 <sup>P</sup>
<b>26</b>	0.50 <sup>A e</sup>	0.19 <sup>A</sup>	0.07 <sup>A e</sup>	0.11 <sup>A e</sup>	6.23 <sup>A e</sup>	0.58 <sup>A e</sup>	1.83 <sup>A e</sup>	2.92 <sup>A</sup>	0.92 <sup>P</sup>	0.79 <sup>P</sup>	0.67 <sup>P</sup>	0.46 <sup>P</sup>
<b>27</b>	0.50 <sup>A e</sup>	0.17 <sup>A</sup>	0.07 <sup>A e</sup>	0.11 <sup>A e</sup>	5.47 <sup>A e</sup>	0.60 <sup>A e</sup>	2.44 <sup>A</sup>	2.84 <sup>A</sup>	0.70 <sup>P</sup>	0.65 <sup>P</sup>	0.72 <sup>P</sup>	0.51 <sup>P</sup>
<b>28</b>	0.50 <sup>A e</sup>	0.28 <sup>A</sup>	0.07 <sup>A e</sup>	0.11 <sup>A e</sup>	5.08 <sup>A e</sup>	0.79 <sup>A</sup>	2.53 <sup>A</sup>	3.03 <sup>A</sup>	0.59 <sup>P</sup>	0.61 <sup>P</sup>	0.68 <sup>P</sup>	0.38 <sup>P</sup>
<b>29</b>	0.50 <sup>A e</sup>	0.32 <sup>A</sup>	0.06 <sup>A e</sup>	0.11 <sup>A e</sup>	6.01 <sup>A e</sup>	0.83 <sup>A</sup>	3.09 <sup>A</sup>	3.01 <sup>A</sup>	0.65 <sup>P</sup>	0.67 <sup>P</sup>	0.63 <sup>P</sup>	0.44 <sup>P</sup>
<b>30</b>	0.50 <sup>A e</sup>	0.26 <sup>A e</sup>	2.62 <sup>A</sup>	0.11 <sup>A e</sup>		12.1 <sup>A</sup>	2.82 <sup>A e</sup>	2.89 <sup>A</sup>	0.56 <sup>P</sup>	0.90 <sup>P</sup>	0.67 <sup>P</sup>	0.50 <sup>P</sup>
<b>31</b>	0.50 <sup>A e</sup>		3.85 <sup>A</sup>	0.10 <sup>A e</sup>		7.66 <sup>A</sup>		2.58 <sup>A</sup>		0.88 <sup>P</sup>	0.65 <sup>P</sup>	
<b>COUNT</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>29</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>30</b>	<b>31</b>	<b>31</b>	<b>30</b>
<b>MAX</b>	<b>0.52</b>	<b>0.76</b>	<b>5.05</b>	<b>3.19</b>	<b>290</b>	<b>36.2</b>	<b>38.1</b>	<b>3.03</b>	<b>2.68</b>	<b>1.37</b>	<b>1.34</b>	<b>0.79</b>
<b>MIN</b>	<b>0.50</b>	<b>0.17</b>	<b>0.06</b>	<b>0.08</b>	<b>0.09</b>	<b>0.52</b>	<b>1.37</b>	<b>1.37</b>	<b>0.56</b>	<b>0.32</b>	<b>0.59</b>	<b>0.38</b>

### Explanation

A	Approved for publication -- Processing and review completed.
P	Provisional data subject to revision.
e	Value has been estimated.

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