

**MAIN SAN GABRIEL BASIN WATERMASTER
REPORT ON
PRELIMINARY DETERMINATION OF
OPERATING SAFE YIELD
FOR 2025-26 THROUGH 2029-30**

APRIL 2, 2025



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SPECIAL INTRODUCTION

For fiscal year 2024-25, the Basin is currently experiencing 36 percent of average rainfall and the State is currently experiencing 93 percent of normal snowfall and 119 percent of normal rainfall. The State Water Project (SWP) Allocation for 2025 is 40 percent, as of March, and may still increase due to the rainfall and snowfall during February and March and potentially during April in Northern California. In addition, due to an unprecedented long-term drought since 2005, there was strong conservation messaging throughout the Basin to help the Basin water levels from declining further, along with 2022 and 2023 local wet conditions. The conservation messaging and wet conditions resulted in the Basin experiencing production as low as 168,000 acre-feet in fiscal year 2022-23, which is a historical low since the adjudication. It appears fiscal year 2024-25 production is trending to be around 190,000 acre-feet, even with below average rainfall. In addition to conservation messaging, the Watermaster has made significant changes to Basin management (including Water Resources Development Assessment (RDA)) to help supplement the significant reduction in local water supply for Basin replenishment. During this time, the Watermaster reduced and held the Operating Safe Yield (OSY) at 150,000 acre-feet for the last ten (10) consecutive years, which is unprecedented. The Engineer has stated, "...the Watermaster should consider maintaining the OSY at no more than 150,000 acre-feet until such times as the operational elevation at the Key Well is significantly above elevation 200 feet...", and hydrologic conditions demonstrate an increasing Key Well elevation, significant storage in canyon reservoirs for

replenishment, and adequate imported water supply availability. Last year was the first time since that 10-year period the Watermaster increased the OSY to 160,000 acre-feet. The Watermaster has used the RDA and OSY as the primary “tools” for Basin water supply management.

INTRODUCTION

Operating Safe Yield is the quantity of water which the Main San Gabriel Basin Watermaster (Watermaster) determines may be pumped from the Main San Gabriel Basin (Basin) in a fiscal year, free of Replacement Water assessments. In accordance with Section 43 of the amended Main San Gabriel Basin Judgment¹, Watermaster at its regular meeting in May of each year determines the Operating Safe Yield applicable to the succeeding fiscal year and estimates the Operating Safe Yield for the next succeeding four fiscal years.

A Report on the “Preliminary Determination of Operating Safe Yield” is submitted by its Engineer to Watermaster at its regular meeting in April each year. On acceptance of that Report by Watermaster, a copy is distributed to each Pumper and Integrated Producer at least 10 days prior to a hearing, which is held at the regular meeting of Watermaster in May each year. Objections, comments or suggested modifications to the preliminary Operating Safe Yield are considered by Watermaster at that hearing and Watermaster, through vote of its Board members, adopts the final Operating Safe Yield.

BASIN OPERATING CRITERIA

Section 42 of the amended Judgment states in part, "... Watermaster shall recharge Replacement Water in accordance with the Watermaster Operating Criteria

¹ Upper San Gabriel Valley Municipal Water District vs. City of Alhambra, et al. Case No. 924128, Los Angeles County, as amended June 21, 2012.

and, insofar as practicable, to maintain the water level at the Key Well above Elevation two hundred (200).” Replacement Water is defined in Section 10 (cc) of the amended Judgment as “Water purchased by Watermaster to replace: (1) Production in excess of a Pumper’s Share of Operating Safe Yield; (2) The consumptive use portion resulting from the exercise of an Overlying Right; and (3) Production in excess of a Diverter’s right to Divert for Direct Use”. Producers and Responsible Agencies, through Watermaster, are allowed to deliver Supplemental Water into their respective Cyclic Storage accounts as a pre-delivery of Replacement Water. Furthermore, as a result of recent significant local drought conditions (see Appendix A) the Watermaster took unprecedented actions to supplement local water supplies, and, as part of 2012 Amendments to the Judgment, Watermaster may make deliveries of Supplemental Water to augment the lack of local water replenishment through the Water Resources Development Assessment (RDA) stormwater augmentation program. The Operating Safe Yield, using Replacement Water, and delivery of Supplemental Water, using the RDA, are the primary tools being used for management of Basin groundwater levels.

The Operating Safe Yield, which is established in May of each year, along with the prior year’s carryover rights and the Diversion component of Integrated Producers, results in a Replacement Water requirement (net of any withdrawals from Producer Cyclic Storage accounts) that is delivered (at the earliest) in October of the second fiscal year, a span of about 17 months, and possibly not until the following June, a span of 26 months, assuming imported Supplemental Water is available. In the time frame between when the Operating Safe Yield is established and Supplemental Water is actually delivered, the actual hydrologic conditions experienced may have had significant impacts on the Basin groundwater levels. Therefore, it is prudent to conservatively manage the Basin groundwater levels and assure that Replacement Water assessment funds and RDA funds are appropriately collected and available for the purchase of available Supplemental Water to provide for Basin replenishment. The producer’s significant purchase of Cyclic Storage water in advance of a Replacement Water obligation has helped to manage the “17-month” time delay for the actual

delivery of Replacement water. This Report is for the management of Basin groundwater levels using the Replacement Water management tool.

Watermaster evaluates numerous factors when determining the Operating Safe Yield. The most critical factors are the provisions of the Judgment and the current and projected groundwater elevation at the Baldwin Park Key Well (Key Well), which represents the water stored in the Basin. Importantly, Watermaster focuses on the “operational” groundwater elevation at the Key Well (which excludes the impacts of Supplemental Water held in all Cyclic Storage accounts).

Figure 1 shows the projected Key Well elevation through the end of this fiscal year 2024-25 (June 30, 2025) and next fiscal year 2025-26 (June 30, 2026). Figure 1 assumes MWD imported water deliveries of about 100,000 acre-feet starting spring 2025. The projection also assumes the delivery and replenishment of local water, and the return of normal percolation rates at SFSG’s. Figure 1 shows two lines, one is the “measured” Key Well elevation and the second is the “operational” Key Well elevation (only local water and delivered RDA water, and no Cyclic Storage water). The “operational” Key Well elevation is used in determining the OSY.

Figure 1 shows a projection of the Key Well elevation to June 2026, assuming the availability of imported water through calendar year 2025 of about 100,000 acre-feet and (essentially) worst-case local conditions for fiscal year 2025-26 (dry year and production of 190,000 acre-feet). The projected “operational” Key Well elevation (only local water and delivered RDA water, and no Cyclic Storage water) in June 2025 is projected to be about 215 feet and further decrease in June 2026 to about 200 feet. In addition, the projected Key Well elevation “measured” in June 2025 is about 242 feet and in June 2026 is about 234 feet.

Figure 2 shows the measured groundwater elevation at the Key Well, which includes stored Supplemental Water (Cyclic Storage and the initial Water Resource Development Assessment deliveries to Cyclic Storage) and the operational

groundwater elevation at the Key Well, which is used to characterize “natural” groundwater elevations for the purposes of establishing an Operating Safe Yield. However, for the purpose of this Report, the measured Key Well elevation is referenced throughout.

Figure 3 shows the Key Well elevation and the relationship between the “measured” water level, the natural water level with only RDA water, and the natural water level (excludes RDA water and Cyclic Storage). Watermaster also reviews historical and current hydrologic conditions within the Basin, such as rainfall, storage of local runoff in surface reservoirs and conservation of local runoff; the availability of Supplemental Water; the quantity of water in Cyclic Storage; Carry-over Rights; and other information. Presented in Table 1 is the historical record of the annual Operating Safe Yield, Carry-over Rights, Lost Carry-over Rights, Production Rights, Water Production, and Replacement Water Requirement for each year of Watermaster operations beginning with fiscal year 1973-74.

Stormwater Augmentation – Water Resources Development Assessment

During fiscal year 2015-16, the Watermaster developed a “RDA Stormwater Augmentation Program,” whereby Watermaster uses its Water Resource Development Assessment (RDA II) to purchase available untreated imported water to supplement the shortage of local stormwater replenishment (discussed in detail in the following section). Consequently, once the Stormwater Augmentation Program water is delivered to the Basin, and paid for, it is considered to be a supplement to “local water and available to all Basin pumpers,” but not Supplemental Water. As a result of just the RDA programs (includes all RDA actual water deliveries, including RDA water not yet paid for), Watermaster and the Producers have added over 225,000 acre-feet of replenishment water and increased the elevation of the Baldwin Park Key Well by about 38 feet, as shown in Figure 3. The RDA is the second “tool” in addition to OSY, the Watermaster has to manage Basin water levels and Basin storage. Other

Watermaster and Producer actions have also contributed to maintaining the Basin water supply reliability.

MWD Pre-Delivery Agreement

Under the MWD Pre-Delivery Agreement, MWD, Upper District and Watermaster entered into an Agreement to coordinate large amounts of delivery (up to 200,000 acre-feet) into MWD's Cyclic Storage account. Upper District and Watermaster have up to ten years to purchase that water. At a minimum, MWD requires an annual purchase each year. The purpose of the MWD Pre-Delivery Agreement is when water is available in the SWP Allocation (around 30-35%), MWD would like to deliver as much water as possible in order to prepare for the next drought conditions, when MWD may not deliver Supplemental Water to the Basin. This potential MWD pre-delivery program is predicated on Watermaster managing the Basin so that, when the MWD replenishment supply interruption occurs, the pre-delivered water will be stored in the Basin and available for pumping. Upper District and MWD agreed that the payment schedule for the purchase of water delivered will be over five to ten years. In order to fund these purchases every year, Watermaster uses funds from Replacement Water/Cyclic Storage orders and the RDA from Upper District. Currently, there is about 68,000 acre-feet in MWD's Cyclic Storage under the Pre-Delivery Agreement. To ensure funds are available each year, the OSY would need to be set in order to create a Replacement Water/Cyclic Storage requirement (i.e., setting a low OSY creates more Replacement Water/Cyclic Storage requirement). If there are not enough funds due to increasing the OSY, more RDA water would need to be purchased to make up the difference. This is accomplished by increasing the RDA assessment. This is how both OSY and RDA are used as "tools" to manage Basin water levels and Basin storage.

BASIN CONDITIONS - GROUNDWATER ELEVATIONS

Exhibit H, Section 2 of the amended Judgment states in part “Watermaster in determining Operating Safe Yield and the importation of Replacement Water shall be guided by water level elevations in the Basin.” The following describes the groundwater elevation at the Baldwin Park Key Well.

Baldwin Park Key Well

The Key Well is located in the central portion of the Basin, as shown in Plate 1. It has been successfully used to generally represent basin-wide groundwater elevation trends. A one-foot groundwater elevation change at the Key Well is estimated to represent approximately 8,000 acre-feet of water in storage, under normal conditions (Basin operating conditions). Figure 4 is a hydrograph showing the groundwater elevation at the Key Well and annual rainfall at San Gabriel Dam since October 1, 1937. The highest groundwater elevation at the Key Well, since entry of the Judgment, occurred on July 20, 1983 at 295.3 feet at which time 9,900 acre-feet (about one foot) were in Cyclic Storage. The historical low groundwater elevation at the Key Well, since entry of the Judgment, occurred on November 21, 2018 at 169.4 feet at which time 161,000 acre-feet (about 20 feet) were in Cyclic Storage. Without Cyclic Storage, the groundwater elevation at the Key Well would have been about 150 feet on November 21, 2018. Subsequently, the groundwater elevation rose above 210 feet, but again the long-term drought caused the groundwater elevation to decline to nearly 175 feet in 2022. Due to a combination of spreading imported water, recent local storm events and conservation efforts, the Key Well increased by 68 feet since 2022.

Fiscal year 2024-25 is proving to be a below-normal rainfall year. On March 14, 2025, the groundwater elevation at the Key Well was 243.4 feet, at which time about 169,000 acre-feet (about 21 feet) were in Cyclic Storage. Without Cyclic

Storage, the Key Well elevation would have been about 222.2 feet on March 14, 2025 (“Operational” Key Well elevation), as shown on Figure 2.

Thus far during fiscal year 2024-25 (through March 16, 2025), rainfall at Puddingstone Dam has been about 6.67 inches (the long-term annual average through March 31st is about 16.10 inches), which is about 41 percent of long-term average through March. Currently, the Key Well elevation was 243.4 feet on March 14, 2025. Typically, during the Summer and early Fall, the measured groundwater elevation at the Key Well decreases by about 10 feet.

Other “Key Wells”

While the groundwater elevation at the Baldwin Park Key Well has decreased by about 1 foot from October 25, 2024 to March 14, 2025, the change in groundwater elevations in other parts of the Basin shows an increase. A well location map showing other “Key Wells” is included as Plate 1 and hydrographs of groundwater elevations at four other wells located throughout the Basin (compared to the measured Baldwin Park Key Well groundwater elevation) are included in Appendix B. San Gabriel County Water District Well 10 is located westerly of the Baldwin Park Key Well, County of Los Angeles Well No. 2947F is located southerly of the Baldwin Park Key Well in the vicinity of Whittier Narrows, Suburban Water Systems Well 155W-2 is located in the vicinity of the Puente Narrows and Valencia Heights Water Company Well No. 5 is located southeasterly of the Baldwin Park Key Well. In general, groundwater elevations at each of the four monitoring wells in the Basin react (both upward and downward) in a comparable but in a delayed and less dramatic manner as the Baldwin Park Key Well. As shown on the hydrographs in Appendix B, the groundwater elevations at these wells generally do not increase as high as the Baldwin Park Key Well during wet periods (with significant groundwater replenishment), but also do not have as significant of a decrease during dry periods with less groundwater replenishment. Significant changes in the water level for the other “Key Wells” are not expected in the near future.

BASIN CONDITIONS - RAINFALL

Rainfall in the San Gabriel River watershed provides direct percolation and typically results in local stormwater runoff which is captured and subsequently percolated in spreading facilities and contributes to Basin replenishment. Precipitation amounts vary throughout the San Gabriel River watershed and typically are highest in the foothills and mountains. Precipitation recorded at San Gabriel Dam, the City of Pasadena and Puddingstone Dam, are described below. The locations of these rainfall stations are shown on Plate 1.

San Gabriel Dam - Station 425B-E

Rainfall at San Gabriel Dam, which is located in the upper watershed and not on the valley floor, was about 10.9 inches for the period July 1, 2024 through February 28, 2025, or about 51 percent of average for that period. Rainfall is estimated to be about 14 inches through March 31, 2025, or about 53 percent of average for that period. Assuming average rainfall for the balance of the year, the annual rainfall is projected to be about 58 percent of average. Figure 5 shows the cumulative rainfall for 1) fiscal years, 2017-18, 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24; 2) the period July 2024 through March 2025; and 3) the long-term average rainfall at San Gabriel Dam.

Pasadena City Hall - Station 610B

Rainfall at the Pasadena City Hall was 5.9 inches for the period July 1, 2024 through February 28, 2025, or about 40 percent of average for that period. Rainfall is estimated to be about 9 inches through March 31, 2025, or about 50 percent of average for that period. Assuming average rainfall for the balance of the year, the annual rainfall is projected to be about 55 percent of average. Figure 6 shows the cumulative rainfall for 1) fiscal years 2017-18, 2018-19, 2019-20, 2020-21, 2021-22,

2022-23, 2023-24; 2) the period July 2024 through March 2025; and 3) the long-term average rainfall at the Pasadena City Hall.

Puddingstone Dam - Station 96C

Rainfall at Puddingstone Dam was 4.74 inches for the period July 1, 2024 through February 28, 2025, or about 36 percent of average for that period. Rainfall is estimated to be about 7 inches through March 31, 2025, or about 41 percent of average for that period. Assuming average rainfall for the balance of the year, the annual rainfall is projected to be about 50 percent of average. Figure 7 shows the cumulative rainfall for 1) fiscal years 2017-18, 2018-19, 2019-20, 2020-21, 2021-22, 2022-23, 2023-24; 2) the period July 2024 through March 2025; and 3) the long-term average rainfall at Puddingstone Dam.

Precipitation in the San Gabriel River watershed during fiscal year 2024-25, through the end of February 2025 was about 42 percent of average and through the end of March 2025 is estimated to be about 48 percent of average.

BASIN CONDITIONS - LOCAL WATER IN SURFACE STORAGE RESERVOIRS

Local runoff water in surface reservoirs located on streams tributary to the Basin is stored by the DPW. This local runoff water is later released to the San Gabriel River system either for direct delivery to users or for replenishment of the groundwater Basin.

Table 4 shows the maximum reservoir storage capacity and the quantities of water in storage in surface reservoirs tributary to the San Gabriel Valley on March 26, 2024 and March 18, 2025. Also shown are the current recorded inflow and outflow rates at the reservoirs on March 18, 2025. The total amount of local water stored in surface reservoirs in the San Gabriel Valley as of March 18, 2025, was about 31,800 acre-feet (about 29 percent of capacity), which is a decrease of about 24,200 acre-feet

in storage compared to March 26, 2024 (56,000 – 31,800). DPW indicates it maintains a minimum pool in Cogswell, San Gabriel and Morris Reservoirs representing about 10,500 acre-feet. Available stored water will be used to replenish groundwater supplies.

BASIN CONDITIONS - LOCAL AND IMPORTED WATER CONSERVED

The amount of local water conserved, which is typically the primary component of Basin replenishment, is dependent upon the amount of precipitation on the tributary watershed, resulting runoff, and the subsequent water replenishment activities of DPW. Historically, when the Basin experiences average to above-average precipitation, it results in a larger amount of local water available to replenish the Basin and the groundwater elevation increases. Examples of this relationship are shown on Figure 4 (see 1977-78, 1982-83, 2004-05, 2022-23 and 2023-24). The occurrence and duration of annual rainfall is also an important factor. For example, a large amount of rainfall over a short period of time may result in limited replenishment to the Basin due to surface flows exceeding water replenishment capabilities and even result in flow of local runoff to the ocean. Also, rainfall that follows severe dry periods will often result in lower runoff amounts due to dry soil absorbing effects in the watershed.

Below normal rainfall in the Basin watershed so far during fiscal year 2024-25 has been about 42 percent of average through February 2025.. Although DPW replenishment records are incomplete this time of year, preliminary data indicate approximately 9,000 acre-feet (about 9 percent of annual average) of local runoff was replenished in the Basin between October 1, 2024 and January 31, 2025. The average annual local water Basin replenishment has averaged about 110,000 acre-feet, prior to the recent long-term drought.

In addition, MWD plans to deliver imported water into the Basin (into MWD's Cyclic Storage account) in the spring 2025. Figure 1 includes a projection of the Key

Well elevation assuming MWD delivers and replenishes 100,000 acre-feet in calendar year 2025 and the Basin experiences dry conditions.

Table 2 summarizes the annual rainfall, local water plus RDA II water and imported water replenished for Cyclic Storage and measured and operational groundwater elevations at the Key Well since the inception of Watermaster operations.

BASIN CONDITIONS - SUPPLEMENTAL WATER AVAILABILITY

Section 10 of the amended Judgment defines Supplemental Water as “Non-tributary water imported through a Responsible Agency.” Upper District, Three Valleys Municipal Water District (Three Valleys District) and San Gabriel Valley Municipal Water District (San Gabriel District) are the Responsible Agencies which deliver Supplemental Water to the Basin. Upper District and Three Valleys District are member agencies of MWD. The San Gabriel District is a SWP contractor. The following describes the availability of Supplemental Water from MWD and San Gabriel District.

Metropolitan Water District of Southern California

MWD primarily receives its water supply from the State Water Project and the Colorado River. Below is a description of the availability of water from MWD.

Availability of Imported Water

An “8-station index” is used by the California Department of Water Resources (DWR) to determine average precipitation in the Sacramento River hydrologic region of northern California, which is the source of much of the imported water supply to the Basin. Through February 28, 2025, the “8-station index” indicated average precipitation of 39.2 inches or about 109 percent of average for that time of year, while rainfall in the San Gabriel Valley was about 42 percent of average (through February

28, 2025). As of March 19, 2025, the “8-station index” indicated average precipitation of 49.2 inches or about 119 percent of average for that time of year, while rainfall in the San Gabriel Valley is estimated to be about 52 percent of average (through March 31, 2025). This indicates that even though the San Gabriel Valley is experiencing below average rainfall, Northern California’s above average rainfall may increase the SWP Allocation to more than 40 percent and, consequently, more SWP water may be available to MWD and San Gabriel District for replenishment to the Main Basin.

On December 2, 2024, DWR announced the 2025 initial allocation of SWP water was 5 percent of the contractors’ Table A Entitlement. On March 25, 2025, DWR announced the 2025 allocation of SWP water has increased to 40 percent of the contractors’ Table A entitlement. As stated in DWR’s Notice to State Water Project Contractors, the allocation is based on “projected 2025 demands, existing storage in SWP conservation facilities, estimate of future runoff...” In general, every five percent of SWP allocation equates to about 100,000 acre-feet of supply for MWD. With a 40 percent SWP allocation, MWD would receive about 764,600 acre-feet. Based on above average rainfall and snowfall in February and March 2025, and potentially April 2025, the SWP has potential to increase the Table A entitlement.

Based on the Colorado River Compact, the seven basin states receive allocations to Colorado River water. Based on California’s allocation of Colorado River water, MWD staff has indicated about 939,000 acre-feet of Colorado River water are available to MWD during calendar year 2025. While Colorado River water can be delivered as Supplemental Water to help replenish the Basin, there are issues which must be addressed prior to delivery. Quagga mussels are in Colorado River water and have the potential to negatively impact the replenishment facilities unless the Colorado River water is isolated and the replenishment facilities are allowed to dry out, which effectively eliminates the Quagga mussels. A second concern is the high Total Dissolved Solids (TDS) concentration in Colorado River water, which would need to be addressed through Watermaster’s “Criteria for Delivery of Supplemental Water”. There are currently no planned deliveries of Colorado River water for Basin

replenishment. However, MWD, Upper District and Watermaster have worked cooperatively on preparing a Provisional Quagga Mussel Control Plan to potentially deliver Colorado River water to the Basin as a last resort only if SWP water is not available and the Key Well is projected to reach emergency water levels.

San Gabriel District

San Gabriel District has a contract for State Water Project water (see description of State Water Project availability under MWD). San Gabriel District's current 2025 allocation is 35 percent of its State Water Project Table A entitlement of 28,800 acre-feet. Consequently, it is anticipated San Gabriel District will deliver about 10,080 acre-feet to the Basin during calendar year 2025.

Deliveries of Stormwater Augmentation Program Water (RDA II)

Section 45(b)(7) of the amended Judgment allows Watermaster to "...levy an Assessment on all Pumping, as determined through Rules and Regulations ... to support the purchase, financing, and/or development of new or additional Supplemental Water sources, in cooperation with one or more Responsible Agencies as appropriate." Section 45(b)(7) established the RDA for the purchase or development of additional Supplemental Water supplies.

As previously discussed, the "Stormwater Augmentation Program," purchases available untreated imported water to supplement the shortage of local stormwater replenishment. The RDA II assessment is on all production and the purchased water is added to the natural Basin water supply, with no specific rights to recover the water. Production during fiscal year 2016-17 was the first year RDA II assessment was applied at \$40/AF. The RDA II assessment increased to \$175/AF on fiscal year 2020-21 and remained at \$175/AF every year through fiscal year 2024-25. For the eighth year, at \$175 on fiscal year 23-24 production of about 171,000 acre-feet, about 30,000 acre-feet was delivered during fiscal year 2024-25. Assuming fiscal year 2024-25

production is about 190,000 acre-feet and at \$175/AF, about 27,000 acre-feet could be purchased with RDA II assessment funds and be delivered during fiscal year 2025-26.

Deliveries of Supplemental Water

In addition to Basin replenishment from local water supply, the groundwater elevation at the Key Well is impacted by the amount of Supplemental Water delivered as Replacement Water, RDA Water and for Cyclic Storage accounts. A summary of historical Supplemental Water deliveries is shown on Table 5. The following sections describe Supplemental Water deliveries, as 1) Replacement Water for Upper District, San Gabriel District and Three Valleys District; 2) MWD Agreement water; 3) Producer and other Cyclic Storage accounts and 4) Future Deliveries.

Replacement Water

Section 42 of the amended Judgment states in part, "... Watermaster shall recharge Replacement Water in accordance with the Watermaster Operating Criteria and, insofar as practicable, to maintain the water level at the Key Well above Elevation two hundred (200)." (As of March 14, 2025, the groundwater elevation at the Key Well was 243.4 feet.) Typically, establishing a lower Operating Safe Yield results in reduced water rights, increased Replacement Water obligations and, consequently, increased deliveries and replenishment of imported water as Replacement Water. However, thus far, there is a lot of Cyclic Storage water in accounts, which can be deducted to meet Replacement Water obligations instead of delivering water to the Basin.

Estimated 2025-26 Supplemental Water Delivery Requirements - Replacement Water Plus Stormwater Augmentation Program Water

The estimated fiscal year 2024-25 over-production in the Basin is about 29,000 acre-feet, assuming production of about 190,000 acre-feet. It is assumed much of the over-production will be satisfied by a deduction from water in Producers' Cyclic Storage accounts.

Cyclic Storage Water

Cyclic Storage water is a pre-delivery of Replacement Water. Under the terms of Cyclic Storage agreements, the Individual Producers may make deliveries to Watermaster out of their Cyclic Storage accounts to satisfy Replacement Water requirements which are accounted for following June 30 of each year. The Responsible Agencies may make deliveries to Watermaster out of their Cyclic Storage accounts to satisfy Replacement Water requirements as of June 30 of each year.

There are Cyclic Storage agreements between Watermaster and each of the Responsible Agencies which provide for the total storage of up to 300,000 acre-feet of Supplemental (Replacement) Water in the Basin. This includes up to 50,000 acre-feet for San Gabriel District, up to 200,000 acre-feet for the MWD and Upper District, and up to 50,000 acre-feet for MWD and Three Valleys District. In addition, there are 21 producer Cyclic Storage agreements in which up to 175,525 acre-feet can be stored. The total amount of water that could be stored in existing Cyclic Storage accounts is up to 475,525 acre-feet. As of February 28, 2025 there was a total of about 170,000 acre-feet in Basin cyclic storage (represents about 21 feet at the Key Well).

Water in Cyclic Storage is available to supply Replacement Water by transfer to Watermaster in-lieu of physically delivering Supplemental Water. This is typically done at the discretion of the storing party. Table 3 is a summary of the monthly Cyclic Storage account balances since July 1, 2017. The storage balance in all of the Basin

Cyclic Storage accounts on July 1, 2024, the balance as of February 28, 2025 and the estimated balance as of June 30, 2025, is shown below in acre-feet.

	Cyclic Storage as of July 1, 2024	Account Balance as of February 28, 2025	Estimated Balance as of June 30, 2025^{1/}
San Gabriel Valley Municipal Water District	2,571	3,473	15,000
Upper San Gabriel Valley Municipal Water District	8,474	8,474	8,000
Three Valleys Municipal Water District	2,577	3,737	10,000
Producers in San Gabriel District	0	0	0
Producers in Upper District	47,186	50,508	50,000
Producers in Three Valleys District	809	809	800
Watermaster Pre-purchases	0	0	0
RDA I	12,756	12,756	13,000
Puente Basin Agency Storage and Export	20,416	22,413	22,000
MWD Cyclic Agreement (intended for RDA II)	<u>2,010</u>	<u>67,603</u>	<u>113,000</u>
	96,799	169,773	231,800

1/ It is assumed Replacement Water requirements will be deducted from Cyclic Storage accounts following the end of fiscal year 2024-25. It is assumed 2025 SWP water allocation is 40 percent.

BASIN CONDITIONS - CARRY-OVER RIGHTS

In accordance with the Judgment Section 49, “...Any Pumper's Share of the Operating Safe Yield and the Production Right of any Integrated Producer, which is not produced in a given fiscal year, may be carried over and accumulated for one fiscal year...” Establishing high operating safe yields will normally result in increased Carry-over Rights. These Carry-over Rights must be used by the Producer in the next year or can be leased to another Producer for use in that year. The first water produced in the succeeding fiscal year is deemed to be the Carry-over water and therefore, unused production right will be carried over the following year, which increases Carry-over Rights every year. Leasing of water rights, including Carry-over

Rights, also usually results in a reduction of the amount of water subject to Replacement Water assessments and, thus a decrease in delivery of Replacement Water to the Basin.

The amount of Carry-over Rights is considered when recommending the Operating Safe Yield. The Carry-over Rights at the beginning of fiscal year 2024-25 were approximately 35,000 acre-feet. It is estimated the Carry-over Rights at the beginning of fiscal year 2025-26 will be about 42,000 acre-feet assuming production of about 190,000 acre-feet. Historical Carry-over Rights and lost Carry-over Rights are shown on Table 1.

BASIN CONDITIONS - ESTIMATED WATER PRODUCTION DURING 2024-25

Historical water production under the Judgment since July 1, 1973, has been reported and recorded on a quarterly basis, as shown in Table 6. The preliminary total water production for the first two quarters of fiscal year 2024-25 was about 103,000 acre-feet. Figure 8 shows quarterly production in the Basin for the past 14 years (fiscal years 2011-12 through 2023-24) plus fiscal year 2024-25. Anticipated groundwater production for fiscal year 2024-25 has been estimated below.

The reported production for the first two quarters of fiscal year 2024-25 was about 103,000 acre-feet. This is similar to the first two quarters of fiscal years 2019-20 (103,000 acre-feet). Assuming production for the last two quarters of fiscal year 2019-20 is similar to the production for the last two quarters of fiscal years 2024-25, which was about 90,000 acre-feet, it is anticipated that the total fiscal year 2024-25 production will be about 190,000 acre-feet. Direct treated water deliveries have remained about the same, as described below. In addition, drought conservation activities have continued, which also have impacted production. Figure 8 shows production for the past 14 years and the estimated groundwater production for fiscal year 2024-25.

The historical total demand in the Basin is met by local water production and direct treated imported water deliveries. During fiscal year 2023-24, direct treated imported water sales were about 13,700 acre-feet, as shown in Table 7. Estimated direct treated imported water sales for fiscal year 2024-25 is about 19,000 acre-feet. Total demand during fiscal year 2024-25 is estimated to be about 209,000 acre-feet (190,000 + 19,000) and is about 13,000 acre-feet below the 13-year average total water demand of 222,000 acre-feet, as shown in Table 7.

FISCAL YEAR 2024-25 OPERATING SAFE YIELD DETERMINATION

On May 1, 2024, Watermaster considered the Engineer's recommended Preliminary Operating Safe Yield of 160,000 acre-feet for fiscal year 2024-25. At that time, the total rainfall in the Basin from July 1, 2023 to April 30, 2024, as represented by the Puddingstone Dam station, was 23.88 inches or 136 percent of long-term average for that period. (The total annual rainfall at the Puddingstone Dam station for fiscal year 2023-24 was 24.15 inches, representing about 131 percent of average.) The groundwater elevation at the Key Well at the time of the May 2024 Watermaster meeting was 235.8 feet and increasing at the rate of about 3 feet per week. Total water in local storage reservoirs was 36,000 acre-feet.

At its May 1, 2024 meeting, Watermaster established the Operating Safe Yield at 160,000 acre-feet for fiscal year 2024-25 and an estimated Operating Safe Yield of 140,000 acre-feet for fiscal years 2025-26, 2026-27, 2027-28 and 2028-29.

CONCLUSIONS

It is very important to recognize that "local" water resources and supplies have been seriously impacted by unprecedented long-term drought conditions and the Key Well reached 177 feet in October 2022 and projected to reach the historical low of 169 feet in November 2022. However, fiscal years 2022-23 and 2023-24 have been unexpected above average rainfall years and helped raise water levels to a peak of

240 feet in June 2024, as shown in Figure 2. Now fiscal year 2024-25 has, so far, been below average rainfall, only 6.67 inches as of March 16, 2025. However, Northern California has been experiencing 93 percent of normal snowfall and 119 percent of normal rainfall. The SWP Allocation for 2025 is 40 percent, as of March 2025, and may still increase due to the rainfall and snowfall during February and March, and potentially April in Northern California. This indicates that even though the San Gabriel Valley is experiencing below average rainfall, Northern California's snowfall and above average rainfall may have more SWP water available to MWD and San Gabriel District for replenishment to the Main Basin.

Watermaster uses funds from Replacement Water/Cyclic Storage orders and RDA requirements from Upper District in order to purchase water from MWD's Pre-Delivery Agreement over 5 to 10 years. Currently, there are plans to deliver water in MWD's Cyclic Storage under the Pre-Delivery Agreement starting in the spring. With the increase in the SWP Allocation to 40 percent, MWD will be able to deliver water through the end of 2025 under the Pre-Delivery Agreement. To ensure funds are available each year, the OSY would need to be set in order to create a Replacement Water/Cyclic Storage requirement. However, if there is not enough funds from Replacement Water requirement, more RDA water would need to be purchased to make up the difference. This is accomplished by increasing the RDA assessment. This is a way how both OSY and RDA are used as "tools" to manage Basin water levels and Basin storage.

As stated earlier in the Report, Section 42 of the amended Judgment states in part, "...Watermaster shall recharge Replacement Water in accordance with the Watermaster Operating Criteria and, in so far as practicable, to maintain the water level at the Key Well above Elevation two-hundred (200)". The Judgment criteria essentially establishes the Operating Safe Yield and delivery of Replacement Water as the primary Watermaster tool to manage groundwater supplies for the Basin. This management goal became not "practicable", as a result unprecedented local drought conditions, and resulted in the RDA II – Stormwater Augmentation Program. The

Stormwater Augmentation Program has resulted in the important recovery of Basin water levels and an addition to Watermaster’s Basin management approach under Section 42, of the amended Judgment. The RDA II Program will likely continue to be an additional management tool for Watermaster until Basin water levels fully recover and demonstrate sustainability, and annual Replacement Water requirements reduce the large quantity of water held in Cyclic Storage.

Fiscal Year 2023-24 (Full Year) and Fiscal Year 2024-25 Comparison

<u>Last Year’s (FY 23-24) Condition</u>	<u>This Year’s (as of March) Condition</u>
Key Well June 30 th – 239.5 ft	Key Well – 243.4 ft
Rainfall – 24.15 inches	Rainfall – 6.7 inches
Local Runoff – 156,000 AF	Est. Local Runoff – 9,000 AF
SWP Allocation – 40%	Est. SWP Allocation – 40%
Engineer Rec. – 160,000 AF	Engineer Rec. – 160,000 AF
Watermaster Adopted – 160,000 AF	Watermaster Adopted – TBD

Based on the evaluation presented in this Report, the Engineer’s Preliminary recommended Operating Safe Yield for fiscal year 2025-26 is 160,000 acre-feet. The Basin conditions will be re-evaluated for the preparation of the Final Report – Determination of the Operating Safe Yield for 2025-26 through 2029-30.

The Judgment requires that on or before the first meeting in April each year, Watermaster makes a Preliminary Determination of the Operating Safe Yield for the Basin for each of the succeeding five fiscal years. Watermaster’s Engineer recommends the following quantities as Operating Safe Yield for consideration by the Watermaster Board members.

<u>Fiscal Year</u>	Operating Safe Yield <u>(Acre-feet)</u>
2025-26	160,000
2026-27	140,000
2027-28	140,000
2028-29	140,000
2029-30	140,000

Attached, as Appendix C, is a tabulation showing each Pumper's Share in percent and the number of acre-feet each Producer can produce from the Basin free of Replacement Water assessments for quantities of Operating Safe Yield 130,000 acre-feet per year to 160,000 acre-feet per year. Those producers shown to have a share less than five acre-feet prior to June 21, 2012 are Minimal Producers and are allowed to produce up to five acre-feet free of Replacement Water assessments.

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TABLE 1

ANNUAL OPERATING SAFE YIELD,
PRODUCTION RIGHTS, WATER PRODUCTION
AND REPLACEMENT WATER REQUIREMENTS
(ACRE-FEET)

FISCAL YEAR	RAINFALL AT PUDDINGSTONE STA. NO. 96C-E (INCHES) 1/	MEASURED KEY WELL ELEVATION (FEET) 2/	OPERATING SAFE YIELD	CARRY OVER RIGHTS FROM PREVIOUS YEAR	LOST CARRY OVER RIGHTS	PRODUCTION RIGHTS	WATER PRODUCTION	BASIN OVER PRODUCTION		
								REPLACEMENT WATER REQUIREMENT	PRODUCER CYCLIC STORAGE	TOTAL
1973-74	15.05	238.4	226,800	--	--	238,132.94	235,460.40	14,518.98	0.00	14,518.98
1974-75	14.57	234.8	210,000	17,191.52	203.36	237,913.46	225,221.86	8,421.93	0.00	8,421.93
1975-76	7.77	221.1	200,000	20,908.91	131.06	231,391.95	242,246.36	24,744.88	0.00	24,744.88
1976-77	15.72	211.4	150,000	13,759.41	861.12	174,193.45	210,340.40	48,650.71	0.00	48,650.71
1977-78	40.08	270.4	150,000	9,980.67	1,198.54	170,473.30	195,275.53	36,818.25	0.00	36,818.25
1978-79	24.88	266.6	170,000	8,950.43	78.11	189,439.67	214,919.54	34,404.83	0.00	34,404.83
1979-80	33.76	282.4	220,000	6,745.88	81.54	237,226.13	232,088.89	9,896.39	0.00	9,896.39
1980-81	9.74	252.4	230,000	21,960.87	202.89	262,445.19	230,832.31	5,477.08	0.00	5,477.08
1981-82	19.94	245.5	210,000	35,642.01	380.30	255,281.37	220,391.54	10,582.35	0.00	10,582.35
1982-83	37.80	292.7	200,000	43,261.87	304.02	253,049.93	209,949.43	3,293.23	0.00	3,293.23
1983-84	12.09	267.1	230,000	45,378.26	80.10	287,394.98	236,679.19	2,151.85	1,573.60	3,725.45
1984-85	14.42	245.8	210,000	51,594.26	344.48	272,050.11	242,439.63	12,475.69	0.00	12,475.69
1985-86	23.33	250.8	190,000	40,395.40	198.50	240,319.81	246,223.58	33,774.82	0.00	34,774.82
1986-87	9.61	236.5	200,000	25,403.49	106.93	235,923.93	253,633.02	41,828.86	0.00	41,828.86
1987-88	16.79	224.0	190,000	22,457.73	143.63	222,985.31	248,101.54	51,989.89	0.00	51,989.89
1988-89	14.00	219.8	180,000	21,710.19	61.61	214,810.57	253,694.47	59,384.99	0.00	59,384.99
1989-90	12.11	206.5	180,000	19,741.33	282.28	210,268.35	252,135.76	62,582.49	0.00	62,582.49
1990-91	18.29	200.3	170,000	17,837.99	387.33	199,467.55	232,091.44	41,232.39	13,112.70	54,345.09
1991-92	23.93	236.9	140,000	18,796.02	345.83	169,575.74	221,476.83	31,214.19	35,916.90	67,131.09
1992-93	40.44	267.8	180,000	13,478.79	189.05	204,009.40	236,677.04	15,858.66	50,031.39	65,890.05
1993-94	12.44	248.8	220,000	31,718.29	462.81	262,029.85	243,616.55	8,915.59	25,422.42	34,338.01
1994-95	29.38	269.0	200,000	50,290.41	1,065.79	260,802.71	243,479.39	30,194.77	0.00	30,194.77
1995-96	15.92	248.9	220,000	44,262.41	737.28	274,608.47	268,950.50	32,526.05	0.00	32,526.05
1996-97	18.47	241.3	210,000	35,484.68	863.84	256,011.19	279,481.35	55,236.24	0.00	55,236.24
1997-98	35.84	267.8	220,000	28,965.55	704.70	263,725.27	253,921.28	26,362.42	4,331.64	30,694.06
1998-99	7.93	244.8	230,000	34,016.10	124.28	277,282.73	265,151.97	30,499.32	2,859.66	33,358.98
1999-00	14.65	228.5	220,000	40,633.83	592.51	274,824.14	278,687.14	39,749.83	3,663.84	43,625.83
2000-01	17.04	220.1	220,000	33,774.80	570.83	267,126.29	270,919.13	38,317.35	2,825.02	41,142.37
2001-02	6.41	208.7	210,000	32,015.15	532.59	258,992.70	264,328.17	40,773.50	6,450.10	47,223.60
2002-03	19.99	204.1	190,000	32,833.12	159.50	240,450.90	237,490.86	38,519.29	5,948.75	44,468.04
2003-04	12.77	204.2	170,000	38,370.38	79.24	224,691.75	252,811.50	51,416.73	8,870.23	60,286.96
2004-05	44.08	248.4	170,000	24,549.23	53.76	219,049.64	247,187.00	41,043.83	18,736.93	59,780.76
2005-06	16.82	249.7	240,000	17,402.45	156.28	268,418.02	259,807.52	12,065.12	6,908.92	18,974.04
2006-07	4.55	220.5	240,000	27,862.73	90.80	278,386.20	284,328.04	20,048.99	7,309.89	27,358.88
2007-08	16.17	202.7	210,000	29,374.42	182.17	249,433.95	258,167.00	28,777.98	9,157.53	37,935.51
2008-09	14.59	195.6	180,000	33,902.42	778.21	224,028.56	250,102.62	26,473.24	30,239.02	56,712.26
2009-10	20.04	204.2	170,000	28,729.17	236.31	210,117.25	237,846.31	35,129.38	14,929.92	50,059.30
2010-11	19.45	233.5	170,000	20,695.69	167.70	201,220.31	227,657.15	33,084.38	15,382.66	48,467.04
2011-12	12.06	226.4	210,000	21,657.47	166.96	242,181.86	237,028.57	19,685.04	20,704.45	40,389.49
2012-13	7.84	202.8	200,000	44,143.15	268.13	254,314.47	242,913.84	5,972.15	23,673.25	29,645.40
2013-14	4.77	187.8	180,000	42,864.86	377.39	233,389.45	240,552.41	3,779.32	36,325.98	40,105.30
2014-15	10.01	177.5	150,000	36,753.33	419.84	197,280.18	208,339.16	12,319.13	33,508.84	45,827.97
2015-16	10.04	174.0	150,000	35,226.32	284.47	195,752.95	182,826.49	6,909.20	19,510.99	26,420.19
2016-17	20.92	179.4	150,000	39,299.44	285.56	199,994.06	197,243.28	7,526.21	24,009.59	31,535.80
2017-18	6.92	178.5	150,000	34,893.57	144.60	195,420.20	209,499.70	12,520.95	27,409.98	39,930.93
2018-19	23.60	196.9	150,000	28,810.62	298.63	189,434.81	190,156.12	10,747.45	24,101.15	34,848.60
2019-20	16.49	203.1	150,000	34,603.48	640.76	194,608.18	192,583.66	12,911.67	21,913.85	34,825.52
2020-21	6.23	191.3	150,000	36,743.32	176.41	197,339.52	207,821.52	10,776.45	23,887.81	34,664.26
2021-22	11.42	185.2	150,000	25,117.46	147.97	185,717.47	186,148.03	9,177.33	26,324.07	35,501.40
2022-23	28.06	232.0	150,000	26,289.74	144.84	186,826.71	168,360.09	4,373.57	9,975.47	14,349.04
2023-24	24.15	239.5	150,000	32,956.25	1,143.17	193,504.72	171,320.42	4,691.06	10,103.27	14,794.33
2024-25	6.67	3/ 243.4 4/	160,000	35,453.22	--	205,700.00 5/	190,000.00 6/	--	--	--
11-YEAR AVERAGE:	11.85	--	162,727	--	--	--	208,647	--	--	--
20-YEAR AVERAGE:	15.91	--	173,500	31,093.76	308.20	215,820.93	219,994.45	15,900.62	20,205.68	36,106.18
51-YEAR AVERAGE:	17.91	--	188,565	29,588.70	352.76	229,084.66	233,129.52	24,702.47	11,080.78	35,806.97

1/ Water Year
2/ End of Fiscal Year, July to June
3/ As of March 16, 2025
4/ As of March 14, 2025
5/ Estimated value including Carry-over Rights and Diversion Rights
6/ Estimated value

TABLE 2

**RAINFALL AND WATER REPLENISHMENT OF
MAIN SAN GABRIEL BASIN**

WATER YEAR 1/	RAINFALL AT PUDDINGSTONE STA. NO. 96C-E (INCHES)	WATER REPLENISHED IN THE MAIN SAN GABRIEL BASIN			MEASURED BALDWIN PARK KEY WELL ELEV. AT END OF WATER YEAR (FT)	OPERATIONAL BALDWIN PARK KEY WELL ELEV. AT END OF WATER YEAR (FT)	
		LOCAL RUNOFF (AF)	IMPORTED (AF) 2/	TOTAL (AF)			
1973-74	15.05	92,000	8,835	100,835	234	234	
1974-75	14.57	62,000	14,564	76,564	226	226	
1975-76	7.77	22,400	28,018	50,418	214	212	
1976-77	15.72	21,000	18,335	39,335	206	203	
1977-78	40.08	262,400	20,549	282,949	259	258	
1978-79	24.88	160,000	30,968	190,968	254	253	
1979-80	33.76	227,700	5,805	233,505	269	268	
1980-81	9.74	49,100	0	49,100	243	242	
1981-82	19.94	92,200	42,623	134,823	240	239	
1982-83	37.80	298,800	28,345	327,145	284	283	
1983-84	12.09	70,000	3,326	73,326	256	255	
1984-85	14.42	32,700	66	32,766	240	239	
1985-86	23.33	70,200	55,862	126,062	241	234	
1986-87	9.61	26,700	55,943	82,643	238	228	
1987-88	16.79	48,500	43,989	92,489	218	208	
1988-89	14.00	33,000	45,925	78,925	211	201	
1989-90	12.11	37,700	47,504	85,204	201	193	
1990-91	18.29	95,500	54,153	149,653	205	199	
1991-92	23.93	222,100	68,304	290,404	237	230	
1992-93	40.44	220,000	62,632	282,632	268	265	
1993-94	12.44	43,000	38,296	81,296	250	247	
1994-95	29.38	210,500	22,354	232,854	266	261	
1995-96	15.92	105,900	32,480	138,380	248	238	
1996-97	18.47	34,700	55,075	89,775	239	228	
1997-98	35.84	171,600	62,887	234,487	264	255	
1998-99	7.93	48,200	13,346	61,546	239	230	
1999-00	14.65	66,500	59,559	126,059	226	214	
2000-01	17.04	84,900	34,998	119,898	217	206	
2001-02	6.41	55,900	60,543	116,443	205	194	
2002-03	19.99	55,200	63,508	118,708	203	189	
2003-04	12.77	45,600	67,533	113,133	197	180	
2004-05	44.08	398,000	19,921	417,921	248	237	
2005-06	16.82	138,600	88,014	226,614	240	225	
2006-07	4.50	47,800	24,780	72,580	213	199	
2007-08	16.25	85,400	7,727	93,127	203	191	
2008-09	14.82	73,800	6,607	80,407	191	185	
2009-10	20.02	157,400	32,708	190,108	204	198	
2010-11	19.45	241,500	68,424	309,924	234	227	
2011-12	12.06	39,100	57,846	96,946	212	203	
2012-13	7.84	24,600	44,678	69,278	196	188	
2013-14	4.77	21,900	36,717	58,617	182	174	
2014-15	10.01	14,500	41,519	56,019	174	165	
2015-16	10.04	35,200	60,092 1/	95,292	172	161	
2016-17	20.92	92,200	91,316 1/	183,516	182	163	
2017-18	6.92	29,400	55,115	84,514	172	152	
2018-19	23.60	173,500	99,265 1/	272,765	211	182	
2019-20	16.49	79,700	54,736 1/	134,436	201	173	
2020-21	6.23	32,700	18,287 1/	50,987	185	163	
2021-22	11.42	68,400	10,158 1/	78,558	180	160	
2022-23	28.06	286,000	54,527 1/	340,527	227	208	
2023-24	24.15	155,900	83,974 1/	239,874	243	225	
2024-25	6.67	3/ 9,400 4/	47,500 5/	56,900 5/	243	222	6/
11-Year Average	11.85	55,564	51,794	107,357	--	--	
20-Year Average	15.92	109,780	47,821	157,601	--	--	
51-Year Average	17.91	103,169	41,230	144,399	--	--	

1/ October 1 to September 30

2/ July 1 to June 30

3/ As of March 16, 2025

4/ Preliminary data as of January 31, 2025

5/ October 1, 2024 to January 31, 2025

6/ As of March 14, 2025

TABLE 3

MONTHLY STORAGE ACCOUNTS
AND EFFECT ON KEY WELL

END OF MONTH	ACCUMULATED CYCLIC STORAGE ACCOUNTS (acre-feet)						ADDITIONAL STORAGE ACCOUNTS				TOTAL	ESTIMATED KEY WELL ELEVATION INCREASE DUE TO STORAGE ACCOUNTS (FT) 1/	OPERATIONAL KEY WELL ELEVATION (WITHOUT STORAGE ACCOUNTS) (FT)	MEASURED KEY WELL ELEVATION (FT)
	MWD/UD	SGVMWD	MWD/TV	MWD AGREEMENT	PRODUCER	TOTAL CYCLIC STORAGE	WATERMASTER PRE-PURCHASES	PUEENTE BASIN WATER AGENCY	RESOURCE DEVELOPMENT (RDA I)					
Jul-19	11,572	15,073.15	19,842.60	68,388.00	47,297.80	162,174.0	0.00	10,677.32	12,756.00	185,607.31	23.20	174.3	197.5	
Aug-19	11,572	16,861.15	20,300.90	85,906.00	47,297.80	181,938.3	0.00	10,677.32	12,756.00	205,371.61	25.67	181.9	207.6	
Sep-19	11,572	18,640.44	20,668.30	102,889.70	47,297.80	201,068.7	0.00	10,677.32	12,756.00	224,502.00	28.06	182.4	210.5	
Oct-19	11,572	20,289.00	20,890.00	120,491.30	47,297.80	220,540.5	0.00	10,677.32	12,756.00	243,973.86	30.50	181.3	211.8	
Nov-19	11,572	21,897.21	20,923.90	132,031.70	47,297.80	233,723.1	0.00	10,677.32	12,756.00	257,156.37	32.14	179.7	211.8	
Dec-19	8,013	22,700.47	32,137.43	107,550.90	55,497.80	225,899.5	0.00	10,211.50	12,756.00	248,867.00	31.11	181.4	212.5	
Jan-20	8,013	11,607.01	32,152.03	108,084.00	55,497.80	215,353.7	0.00	10,211.50	12,756.00	238,321.24	29.79	181.9	211.7	
Feb-20	8,013	12,513.21	32,152.03	108,084.00	55,497.80	216,259.9	0.00	10,211.50	12,756.00	239,227.44	29.90	179.5	209.4	
Mar-20	8,013	12,421.43	32,152.03	108,084.00	55,497.80	216,168.2	0.00	9,694.93	12,756.00	238,619.09	29.83	177.9	207.7	
Apr-20	8,013	6,732.68	32,152.03	115,118.20	55,497.80	217,513.6	0.00	9,694.93	12,756.00	239,964.54	30.00	176.5	206.5	
May-20	8,013	6,641.27	32,152.03	115,416.60	55,497.80	217,720.6	0.00	9,694.93	12,756.00	240,171.53	30.02	174.2	204.2	
Jun-20	8,013	8,892.38	32,152.03	115,416.60	60,643.30	225,117.2	0.00	9,565.68	12,756.00	247,438.89	30.93	172.2	203.1	
Jul-20	8,013	10,394.96	31,552.03	115,416.60	38,729.45	204,105.9	0.00	10,165.68	12,756.00	227,027.62	28.38	176.0	204.4	
Aug-20	8,013	11,907.09	31,552.03	115,416.60	38,729.45	205,618.1	0.00	10,165.68	12,756.00	228,539.75	28.57	175.1	203.7	
Sep-20	8,013	11,803.49	31,552.03	115,416.60	38,729.45	205,514.5	0.00	10,165.68	12,756.00	228,436.15	28.55	172.8	201.4	
Oct-20	8,013	11,708.61	31,552.03	115,416.60	38,729.45	205,419.6	0.00	10,165.68	12,756.00	228,341.27	28.54	172.0	200.5	
Nov-20	8,013	11,618.81	31,552.03	115,416.60	48,881.15	215,481.5	0.00	10,165.68	12,756.00	238,403.17	29.80	169.5	199.3	
Dec-20	8,013	11,522.17	29,005.43	67,859.40	63,014.45	179,414.4	0.00	9,895.93	12,756.00	202,066.28	25.26	174.9	200.2	
Jan-21	8,013	11,431.74	29,005.43	67,859.40	63,014.45	179,323.9	0.00	9,895.93	12,756.00	201,975.85	25.25	173.9	199.1	
Feb-21	8,013	11,349.98	29,005.43	67,859.40	63,014.45	179,242.2	0.00	9,895.93	12,756.00	201,894.09	25.24	172.6	197.8	
Mar-21	8,013	11,260.03	29,005.43	67,859.40	63,014.45	179,152.2	0.00	9,895.93	12,756.00	201,804.14	25.23	171.5	196.7	
Apr-21	8,013	3,296.39	29,005.43	67,859.40	60,043.71	168,217.8	0.00	9,390.27	12,756.00	190,364.10	23.80	171.0	194.8	
May-21	8,013	3,421.35	29,005.43	67,859.40	60,043.71	168,342.8	0.00	9,390.27	12,756.00	190,489.06	23.81	169.3	193.1	
Jun-21	8,013	3,332.34	29,005.43	67,859.40	75,369.71	183,579.8	0.00	9,060.80	12,756.00	205,396.58	25.67	165.6	191.3	
Jul-21	8,013	3,229.08	20,264.73	74,859.40	51,481.90	157,848.0	0.00	9,660.80	12,756.00	180,264.81	22.53	166.5	189.0	
Aug-21	8,013	3,125.71	8,264.73	74,859.40	51,626.90	145,889.6	0.00	21,660.80	12,756.00	180,306.44	22.54	165.1	187.6	
Sep-21	8,013	3,025.63	8,264.73	74,859.40	51,771.90	145,934.6	0.00	21,660.80	12,756.00	180,351.36	22.54	162.8	185.3	
Oct-21	8,013	3,016.74	8,264.73	74,859.40	51,784.90	145,938.7	0.00	21,660.80	12,756.00	180,355.47	22.54	161.1	183.6	
Nov-21	8,013	2,927.24	8,264.73	74,859.40	51,784.90	145,849.2	0.00	21,660.80	12,756.00	180,265.97	22.53	159.9	182.4	
Dec-21	8,013	2,836.73	5,988.43	49,104.73	62,184.90	128,127.7	0.00	21,296.91	12,756.00	162,180.60	20.27	161.7	182.0	
Jan-22	8,013	2,746.56	5,988.43	49,104.73	62,184.90	128,037.5	0.00	21,296.91	12,756.00	162,090.43	20.26	161.9	182.2	
Feb-22	8,013	2,666.71	5,988.43	49,104.73	62,184.90	127,957.7	0.00	21,296.91	12,756.00	162,010.58	20.25	161.4	181.7	
Mar-22	8,013	2,573.14	5,988.43	49,104.73	62,184.90	127,864.1	0.00	21,296.91	12,756.00	161,917.01	20.24	161.7	180.9	
Apr-22	7,013	2,485.40	5,988.43	49,104.73	63,183.82	127,775.3	0.00	21,066.32	12,756.00	161,597.60	20.20	164.4	184.6	
May-22	7,013	2,395.15	5,988.43	49,104.73	63,183.82	127,685.0	0.00	21,066.32	12,756.00	161,507.35	20.19	166.1	186.3	
Jun-22	6,601	2,300.34	5,988.43	49,104.73	64,485.91	128,480.2	0.00	21,066.32	12,756.00	162,302.54	20.29	164.9	185.2	
Jul-22	5,711	2,205.06	5,388.43	49,104.73	46,634.59	109,043.6	0.00	21,666.32	12,756.00	143,465.94	17.93	164.1	182.0	
Aug-22	5,711	2,115.05	5,388.43	49,104.73	46,634.59	108,953.6	0.00	21,666.32	12,756.00	143,375.93	17.92	161.9	179.8	
Sep-22	5,711	2,405.30	5,388.43	49,104.73	52,634.59	115,243.9	0.00	21,666.32	12,756.00	149,666.18	18.71	159.2	177.9	
Oct-22	20,419	2,563.75	5,397.93	49,104.73	52,634.59	130,120.3	0.00	21,666.32	12,756.00	164,542.63	20.57	156.6	177.2	
Nov-22	20,419	3,066.26	5,599.43	49,104.73	52,634.59	130,824.3	0.00	21,666.32	12,756.00	165,246.64	20.66	159.0	179.7	
Dec-22	5,711	3,104.45	5,948.73	24,104.73	63,509.59	102,378.3	0.00	21,284.20	12,756.00	136,418.51	17.05	161.9	179.0	
Jan-23	5,711	3,021.35	5,948.73	24,104.73	63,509.59	102,295.2	0.00	21,284.20	12,756.00	136,335.41	17.04	162.4	179.4	
Feb-23	5,711	2,944.01	5,948.73	24,104.73	63,509.59	102,217.9	0.00	21,284.20	12,756.00	136,258.07	17.03	170.7	187.7	
Mar-23	5,711	2,849.24	5,948.73	24,104.73	63,509.59	102,123.1	0.00	20,796.90	12,756.00	135,676.00	16.96	187.9	204.9	
Apr-23	5,711	2,943.38	5,948.73	24,104.73	63,509.59	102,217.2	0.00	20,796.90	12,756.00	135,770.14	16.97	207.1	224.1	
May-23	5,711	4,231.92	5,948.73	24,104.73	63,909.59	103,905.8	0.00	20,796.90	12,756.00	137,458.68	17.13	214.8	231.9	
Jun-23	4,822	6,064.11	5,348.73	24,104.73	64,398.62	104,737.9	0.00	20,876.43	12,756.00	138,370.36	17.30	214.7	232.0	
Jul-23	4,822	7,888.89	5,348.73	25,416.43	54,623.21	98,099.0	0.00	20,876.43	12,756.00	131,731.43	16.47	212.7	229.2	
Aug-23	4,822	9,923.20	5,348.73	32,273.73	54,623.21	106,990.6	0.00	20,876.43	12,756.00	140,623.04	17.58	210.1	227.7	
Sep-23	4,822	11,693.56	5,348.73	38,430.83	54,623.21	114,918.1	0.00	20,798.37	12,756.00	148,472.44	18.56	208.3	226.9	
Oct-23	4,822	3,635.57	5,348.73	50,517.83	54,623.21	118,947.1	0.00	20,798.37	12,756.00	152,501.45	19.06	208.9	228.0	
Nov-23	4,822	4,938.30	5,348.73	52,068.83	54,623.21	121,800.8	0.00	20,798.37	12,756.00	155,355.18	19.42	210.4	226.8	
Dec-23	8,724	5,492.86	3,202.93	0.00	57,826.21	75,245.9	0.00	20,463.99	12,756.00	108,465.87	13.56	207.5	224.1	
Jan-24	8,724	7,345.63	3,202.93	0.00	57,826.21	77,098.7	0.00	20,463.99	12,756.00	110,318.64	13.79	208.6	222.4	
Feb-24	8,724	7,299.22	3,202.93	0.00	57,826.21	77,052.2	0.00	20,463.99	12,756.00	110,272.23	13.78	208.6	222.4	
Mar-24	8,724	8,480.66	3,202.93	0.00	57,826.21	78,233.7	0.00	20,019.15	12,756.00	111,008.87	13.88	209.9	223.8	
Apr-24	8,724	1,746.41	3,202.93	0.00	57,826.21	71,499.4	0.00	20,019.15	12,756.00	104,274.58	13.03	222.8	235.8	
May-24	8,724	4,427.81	3,202.93	0.00	57,826.21	74,180.8	0.00	20,416.77	12,756.00	107,353.60	13.42	226.9	240.3	
Jun-24	8,474	2,570.52	2,576.93	2,010.60	47,994.74	63,626.7	0.00	20,416.77	12,756.00	96,799.44	12.10	227.4	239.5	
Jul-24	8,474	4,831.70	2,576.93	15,036.90	47,994.74	78,914.2	0.00	20,416.77	12,756.00	112,086.92	14.01	227.2	241.2	
Aug-24	8,474	7,514.44	2,576.93	30,157.90	47,994.74	96,717.9	0.00	20,416.77	12,756.00	129,890.66	16.24	225.9	242.1	
Sep-24	8,474	9,754.66	3,675.83	44,920.10	47,994.74	114,819.2	0.00	20,416.77	12,756.00	147,991.98	18.50	224.9	243.4	
Oct-24	8,474	11,564.34	5,425.33	56,815.90	47,994.74	130,274.2	0.00	20,416.77	12,756.00	163,446.96	20.43	224.3	244.7	
Nov-24	8,474	3,221.78	4,632.93	71,542.30	51,316.90	139,187.8	0.00	20,416.77	12,756.00	172,360.56	21.55	223.8	245.3	
Dec-24	8,474	5,913.26	5,929.63	67,603.00	51,316.90	139,236.7	0.00	20,012.61	12,756.00	172,005.28	21.50	225.8	247.3	
Jan-25	8,474	3,176.02	3,737.70	67,603.00	51,316.90	134,307.5	0.00	22,412.61	12,756.00	169,476.11	21.18	225.4	246.6	
Feb-25	2/	8,474	3,472.65	3,737.70	67,603.00	134,604.1	0.00	22,412.61	12,756.00	169,772.74	21.22	223.3	244.5	
Mar-25	3/	8,474	3,382.65	3,737.70	67,603.00	134,514.1	0.00	22,412.61	12,756.00	169,682.74	21.21	222.2	243.4	

TABLE 4
LOCAL WATER IN STORAGE
IN SURFACE RESERVOIRS

<u>RESERVOIR</u>	<u>March 26, 2024</u>	<u>March 18, 2025</u>				
	<u>STORAGE</u> <u>(ACRE-FEET)</u>	<u>STORAGE</u> <u>(ACRE-FEET)</u>	<u>INFLOW</u> <u>(CFS)</u>	<u>OUTFLOW</u> <u>(CFS)</u>	<u>RESERVOIR CAPACITY</u> <u>(ACRE-FEET)</u>	<u>RESERVOIR STORAGE</u> <u>IN PERCENT</u>
Cogswell Dam	937	1,960	39	12	10,475	19%
San Gabriel Dam	29,320	14,130	142	0	44,044	32%
Morris Dam	23,811	8,122	6	40	28,736	28%
Sub-Total:	54,069	24,212			83,255	29%
Santa Fe Dam ^{1/}	463	0	0	0	--	--
Big Dalton Dam	384	5	2	2	--	--
San Dimas Dam	1,019	664	5	1	--	--
Puddingstone Dam ^{2/}	78	6,881	1	0	--	--
TOTALS:	56,012	31,762				

1/ Storage is typically zero. Reservoir used for Flood Control purposes only, not storage for water conservation purposes. As of March 19, 2025

2/ Storage is typically about 6,600 acre-feet. Used for recreational purposes, not water conservation purposes.

TABLE 5

SUPPLEMENTAL WATER DELIVERIES
TO THE MAIN SAN GABRIEL BASIN
FOR GROUNDWATER REPLENISHMENT
(ACRE-FEET)

FISCAL YEAR	UPPER DISTRICT						THREE VALLEYS DISTRICT					SAN GABRIEL DISTRICT						TOTALS		
	REPLACEMENT WATER		CYCLIC STORAGE	WATERMASTER PRE-PURCHASES	RESOURCE DEVELOPMENT	PRODUCER CYCLIC STORAGE	REPLACEMENT WATER	CYCLIC STORAGE	WATERMASTER PRE-PURCHASES	RESOURCE DEVELOPMENT	PRODUCER CYCLIC STORAGE	REPLACEMENT WATER	USG-5		CYCLIC STORAGE	WATERMASTER PRE-PURCHASES	TRANSFERS TO MWD		RESOURCE DEVELOPMENT	
	USG-3	USG-5 2/											EXCHANGE REPLACEMENT	CYCLIC STORAGE			CYCLIC STORAGE			CYCLIC STORAGE
1974-75	13,731.90	--	--	--	--	--	--	--	--	--	--	787.10	--	44.90	--	--	--	--	14,563.90	
1975-76	7,121.40	--	12,621.10	--	--	--	--	--	--	--	--	1,302.90	--	6,972.10	--	--	--	--	28,017.50	
1976-77	10,752.60	2,654.90	52.40	--	--	--	--	--	--	--	--	3,814.95	992.93	2,722.12	--	--	--	--	20,989.90	
1977-78	14,962.50	2,981.70	0.00	--	--	--	--	--	--	--	--	4,470.85	1,115.15	0.00	--	--	--	--	23,530.20	
1978-79	24,000.00	3,486.10	0.00	--	--	--	--	--	--	--	--	4,112.25	1,303.79	1,551.96	--	--	--	--	34,454.10	
1979-80	4,740.60	3,191.00	0.00	--	--	--	--	--	--	--	--	0.00	1,064.00	0.00	--	--	--	--	8,995.60	
1980-81	0.00	3,130.70	0.00	--	--	--	--	--	--	--	--	0.00	0.00	0.00	--	--	--	--	3,130.70	
1981-82	40,824.70	2,853.70	0.00	--	--	--	--	--	--	--	--	81.84	1,067.28	648.88	--	--	--	--	45,476.40	
1982-83	22,934.40	2,256.30	3,189.30	--	--	--	--	--	--	--	--	0.00	843.87	1,377.13	--	--	--	--	30,601.00	
1983-84	0.00	1,907.10	3,246.70	--	--	0.00	--	--	--	--	--	0.00	79.00	0.00	--	--	--	--	5,232.80	
1984-85	0.00	2,395.50	0.00	--	--	0.00	--	--	--	--	--	0.00	66.00	0.00	--	--	--	--	2,461.50	
1985-86	3,000.00	2,600.80	47,405.40	--	--	0.00	--	--	--	--	--	4,484.30	972.70	0.00	--	--	--	--	58,463.20	
1986-87	19,354.30	2,484.20	23,991.10	--	--	0.00	--	--	--	--	--	4,368.59	929.09	7,300.32	--	--	--	--	58,427.60	
1987-88	28,187.30	3,751.30	5,975.00	--	--	0.00	--	--	--	--	--	7,763.11	1,402.99	660.90	--	--	--	--	47,740.60	
1988-89	39,100.00	3,726.60	110.70	--	--	0.00	--	--	--	--	--	5,320.25	1,393.75	0.00	--	--	--	--	49,651.30	
1989-90	32,740.20	1,716.10	0.00	--	--	0.00	--	--	--	--	--	11,296.63	641.82	2,825.55	--	--	--	--	49,220.30	
1990-91	16,078.60	2,734.10	14,453.50	--	--	13,112.70	--	--	--	--	--	9,485.43	1,022.57	0.00	--	--	--	--	56,886.90	
1991-92	7,491.90	2,214.00	23,525.90	--	--	3,305.90	0.00	25,077.10	--	--	--	8,074.96	828.04	0.00	--	--	--	--	70,517.80	
1992-93	16,077.97	2,478.10	10,214.60	--	--	18,916.73	0.00	3,737.50	--	--	--	11,418.17	1,202.03	1,064.80	--	--	--	--	65,109.90	
1993-94	0.00	3,214.00	0.00	--	--	23,050.80	0.00	0.00	--	--	--	8,620.14	1,205.80	5,419.06	--	--	--	--	41,509.80	
1994-95	0.00	3,178.10	6,177.10	--	--	0.00	0.00	5,738.60	--	--	--	5,691.49	1,188.61	3,557.90	--	--	--	--	25,531.80	
1995-96	15,467.80	3,149.90	85.20	--	--	0.00	0.00	3,832.00	--	--	--	8,484.59	1,178.05	3,432.36	--	--	--	--	35,629.90	
1996-97	3,934.10	3,304.50	32,229.90	--	--	0.00	0.00	1,451.10	--	--	--	14,525.94	1,235.89	1,698.17	--	--	--	--	58,379.60	
1997-98	21,409.60	3,392.70	24,870.20	--	--	0.00	0.00	953.10	--	--	--	14,061.60	1,268.85	323.55	--	--	--	--	66,279.60	
1998-99	0.00	3,353.40	0.00	--	--	0.00	3,311.70	0.00	--	--	--	6,158.61	1,254.19	2,621.20	--	--	--	--	16,699.10	
1999-00	13,645.60	3,508.30	24,416.20	--	--	0.00	4,418.60	0.00	--	--	--	9,286.01	1,312.09	8,605.90	--	--	--	--	65,192.70	
2000-01	10,412.80	3,285.30	14,624.30	--	--	0.00	5,583.70	675.20	--	--	--	10,464.30	1,228.70	0.00	--	--	--	--	46,274.30	
2001-02	25,246.02	3,438.90	1,944.90	--	--	0.00	4,944.10	570.20	--	--	--	10,929.17	1,286.13	1,172.70	--	--	--	--	49,532.12	
2002-03	33,551.42	3,018.30	0.00	--	--	0.00	2,791.00	0.00	--	--	--	3,938.39	1,128.84	15,027.77	--	--	--	--	59,455.72	
2003-04	14,166.20	3,058.30	23,603.00	--	--	10,000.00	1,920.40	0.00	--	--	--	672.00	1,143.80	16,815.60	--	--	--	--	71,379.90	
2004-05	5,744.20	2,998.00	0.00	--	--	0.00	1,714.50	0.00	--	--	1,800.00	500.66	1,121.25	10,840.09	--	--	--	--	24,718.70	
2005-06	48,069.20	2,815.50	9,400.80	--	--	7,500.00	357.10	0.00	--	--	0.00	0.00	1,052.99	12,658.01	--	--	--	--	81,853.60	
2006-07	0.00	2,963.30	4,159.20	--	--	0.00	166.70	2,978.00	--	--	0.00	573.59	1,108.29	15,794.12	--	--	--	--	27,743.20	
2007-08	0.00	3,027.20	5,724.40	--	--	0.00	0.00	0.00	--	--	0.00	91.76	1,132.17	779.07	--	--	--	--	10,754.60	
2008-09	0.00	3,064.90	0.00	--	--	0.00	0.00	0.00	--	--	0.00	788.73	1,146.29	4,671.98	--	--	--	--	9,671.90	
2009-10	16,076.40	2,611.50	0.00	--	--	0.00	0.00	1,427.80	--	--	0.00	1,886.58	976.70	12,340.72	--	--	--	--	35,319.70	
2010-11	23,737.90	2,428.20	0.00	--	--	11,646.50	0.00	12,264.60	--	--	0.00	14,655.86	908.13	5,211.01	--	--	--	--	70,852.20	
2011-12	3,257.20	2,999.40	0.00	--	--	18,169.10	0.00	12,871.40	--	--	0.00	22,426.22	1,121.78	0.00	--	--	--	--	60,845.10	
2012-13	2,034.70	3,037.40	0.00	--	--	10,000.00	0.00	10,098.80	--	--	0.00	16,269.22	1,135.98	5,138.80	--	--	--	--	47,714.90	
2013-14	0.00	2,983.90	0.00	--	--	31,288.90	0.00	3,110.10	--	--	0.00	1,202.03	1,115.97	0.00	--	5,000.00	--	--	39,700.90	
2014-15	0.00	2,711.70	4,031.54	5,000.00	--	29,809.36	0.00	471.00	--	--	1,000.00	192.83	1,014.17	0.00	--	0.00	--	--	44,230.60	
2015-16	0.00	2,486.50	3,107.00	0.00	5,622.00	10,510.00	0.00	2,507.40	0.00	416.00	500.00	0.00	929.95	7,354.05	--	5,000.00	902.00	--	39,334.90	
2016-17	0.00	2,876.90	0.00	0.00	4,713.00	35,786.60	0.00	12,264.60	0.00	118.10	500.00	14,029.70	1,075.95	7,265.75	--	5,000.00	761.00	--	84,391.60	
2017-18	0.00	2,987.20	44,310.10	0.00	9,236.00	3,236.00	0.00	5,332.20	0.00	0.00	670.00	4,649.74	1,117.22	12,898.64	--	5,000.00	1,492.00	--	90,929.10	
2018-19	0.00	2,943.90	14,854.60	0.00	15,297.00	20,624.00	0.00	2,126.50	0.00	1,110.00	3,220.00	0.00	1,101.03	11,966.97	--	5,000.00	2,471.00	--	80,715.00	
2019-20	0.00	2,983.20	57,299.10	0.00	20,056.52	0.00	90.07	17,959.73	0.00	1,455.00	0.00	0.00	1,115.73	14,021.27	--	5,600.00	0.00	--	120,580.62	
2020-21	0.00	2,986.40	0.00	179.50	31,270.00	10,000.00	174.60	2,841.60	0.00	2,375.00	353.40	0.00	1,116.92	3,621.08	--	0.00	0.00	--	54,918.50	
2021-22	0.00	2,992.00	0.00	0.00	14,719.00	0.00	26.30	600.00	0.00	2,850.00	0.00	0.00	1,119.00	87.00	--	0.00	0.00	--	22,393.30	
2022-23	0.00	2,768.00	0.00	0.00	38,139.40	14,708.50	154.70	3,211.00	0.00	2,496.00	0.00	0.00	1,035.23	3,763.77	--	0.00	0.00	--	66,276.60	
2023-24	0.00	2,530.90	31,558.00	0.00	48,908.00	3,225.30	21.80	0.00	0.00	946.54	0.00	0.00	946.54	18,644.46	--	0.00	0.00	--	107,959.00	
2024-25	1/ 0.00	1,780.30	0.00	0.00	27,943.00	3,322.16	78.40	0.00	0.00	2,063.00	0.00	3,964.68	665.82	0.00	--	0.00	0.00	--	39,817.36	

1/ Estimated as of February 28, 2025.
2/ In-Lieu replenishment through CWEA.

TABLE 6

**HISTORICAL WATER PRODUCTION
(ACRE-FEET)**

<u>FISCAL YEAR</u>	<u>FIRST QUARTER</u>	<u>SECOND QUARTER</u>	<u>THIRD QUARTER</u>	<u>FOURTH QUARTER</u>	<u>TOTAL</u>
1973-74	76,455	51,809	40,649	65,397	234,310
1974-75	77,392	48,530	40,887	56,644	223,454
1975-76	77,811	51,274	47,542	63,439	240,066
1976-77	66,731	52,977	41,987	48,645	210,340
1977-78	59,996	47,251	33,189	54,839	195,275
1978-79	69,708	46,610	36,010	62,593	214,920
1979-80	75,291	51,799	37,496	58,522	223,108
1980-81	73,516	54,159	40,262	62,896	230,832
1981-82	77,656	50,996	39,071	51,819	219,541
1982-83	71,346	46,704	37,995	53,904	209,950
1983-84	69,443	44,463	51,157	69,616	234,679
1984-85	77,766	50,832	45,153	68,689	242,440
1985-86	77,193	53,773	46,083	69,175	246,223
1986-87	77,425	55,643	49,330	71,235	253,633
1987-88	76,057	51,642	53,093	67,319	248,111
1988-89	77,997	57,325	49,245	69,127	253,694
1989-90	77,509	60,257	50,941	63,412	252,118
1990-91	73,887	59,330	43,472	55,384	232,073
1991-92	65,688	54,633	40,696	60,461	221,477
1992-93	74,132	54,047	41,534	66,427	236,139
1993-94	76,624	57,381	47,652	61,949	243,606
1994-95	80,506	57,787	43,202	61,984	243,479
1995-96	81,408	63,428	50,931	73,184	268,950
1996-97	84,588	60,760	56,428	77,705	279,481
1997-98	84,624	60,585	46,940	61,890	254,039
1998-99	83,626	62,349	54,000	65,176	265,152
1999-00	82,395	69,076	53,697	73,519	278,687
2000-01	83,293	65,227	51,776	70,623	270,919
2001-02	82,434	61,691	55,724	64,480	264,328
2002-03	69,276	55,906	49,811	57,797	232,791
2003-04	71,337	56,815	54,740	69,957	252,850
2004-05	77,021	55,480	46,456	68,310	247,266
2005-06	79,323	62,977	53,745	63,894	259,940
2006-07	83,160	66,532	61,808	72,828	284,329
2007-08	75,251	57,898	53,327	71,691	258,167
2008-09	76,053	59,007	49,458	66,029	250,547
2009-10	74,867	56,356	43,456	62,445	237,123
2010-11	71,179	50,002	44,881	60,877	226,939
2011-12	74,369	51,922	48,340	61,659	236,290
2012-13	76,217	53,359	46,418	66,550	242,545
2013-14	73,131	54,706	48,357	64,359	240,552
2014-15	66,954	50,046	43,168	48,171	208,339
2015-16	54,430	42,182	37,364	48,850	182,826
2016-17	59,704	46,491	35,748	55,300	197,243
2017-18	63,580	53,479	41,816	50,625	209,500
2018-19	60,022	46,919	34,434	48,780	190,155
2019-20	58,198	44,615	40,766	49,005	192,584
2020-21	60,404	53,345	42,633	51,439	207,822
2021-22	54,603	43,508	39,642	48,395	186,148
2022-23	54,526	42,496	31,019	40,319	168,360
2023-24	49,857	42,974	33,710	44,780	171,320
2024-25	55,616	47,196	--	--	190,000 ^{1/}
13-Year Average	62,000	48,157	40,263	52,172	202,591
20-Year Average	67,142	51,715	43,827	57,215	219,900
51-Year Average	72,146	53,780	45,240	61,218	232,836

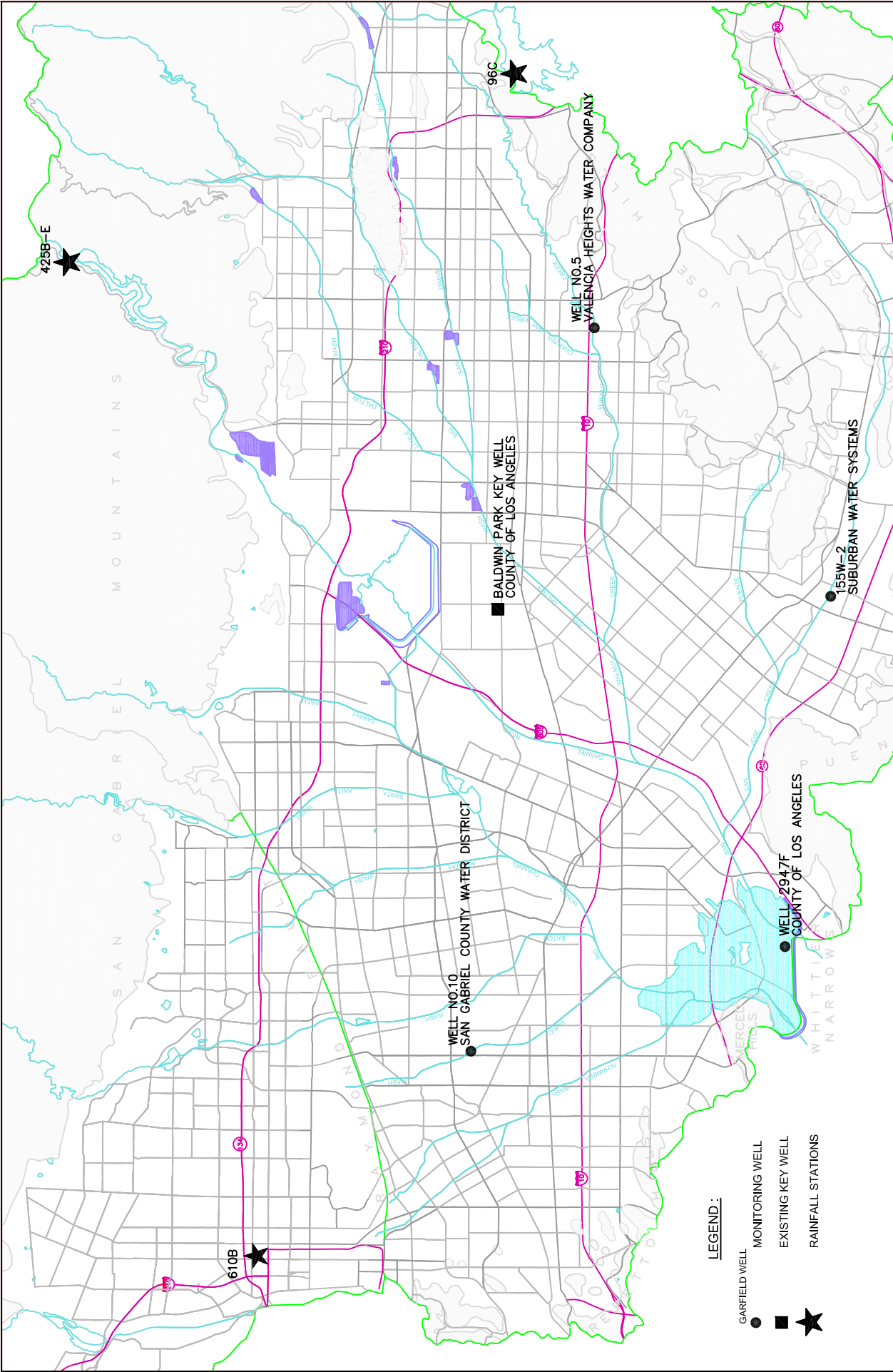
1/ ESTIMATED

TABLE 7

**TOTAL HISTORICAL WATER DEMAND IN BASIN
(ACRE-FEET)**

FISCAL YEAR	TREATED IMPORTED WATER	TOTAL PRODUCTION	TOTAL DEMAND
1973-74	630	235,460	236,090
1974-75	1,036	225,222	226,258
1975-76	3,539	242,246	245,785
1976-77	9,471	210,340	219,811
1977-78	11,427	195,276	206,702
1978-79	11,724	214,920	226,643
1979-80	13,032	223,089	236,121
1980-81	16,799	230,832	247,631
1981-82	17,402	220,392	237,793
1982-83	14,208	209,949	224,158
1983-84	18,298	236,679	254,977
1984-85	21,676	242,440	264,116
1985-86	20,872	246,224	267,095
1986-87	22,575	253,633	276,208
1987-88	28,537	248,102	276,638
1988-89	25,799	253,694	279,494
1989-90	31,478	252,136	283,614
1990-91	29,922	232,091	262,014
1991-92	18,606	221,477	240,083
1992-93	18,948	236,677	255,625
1993-94	18,412	243,617	262,029
1994-95	19,517	243,479	262,996
1995-96	16,931	268,951	285,881
1996-97	17,205	279,481	296,686
1997-98	14,208	253,921	268,129
1998-99	13,846	265,152	278,998
1999-00	21,062	278,687	299,749
2000-01	19,971	270,919	290,890
2001-02	35,153	264,328	299,481
2002-03	40,982	237,491	278,472
2003-04	50,758	252,812	303,570
2004-05	35,979	247,187	283,166
2005-06	23,125	259,808	282,932
2006-07	25,904	284,328	310,232
2007-08	30,174	258,167	288,341
2008-09	21,683	250,103	271,785
2009-10	16,329	237,846	254,176
2010-11	10,316	227,657	237,973
2011-12	10,561	237,029	247,590
2012-13	14,344	242,914	257,258
2013-14	22,216	240,552	262,768
2014-15	22,517	208,339	230,856
2015-16	12,740	182,826	195,566
2016-17	12,251	197,243	209,495
2017-18	13,576	209,500	223,076
2018-19	24,953	190,156	215,109
2019-20	26,335	192,584	218,919
2020-21	24,413	207,822	232,235
2021-22	34,023	186,148	220,171
2022-23	17,569	168,360	185,929
2023-24	13,742	171,320	185,063
2024-25	1/ 19,000	190,000	209,000
13-Year Average	19,172	202,676	221,849
20-Year Average	20,638	219,994	240,632
51-Year Average	19,937	233,130	253,066

1/ Estimated

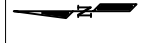


LEGEND :

-  GARFIELD WELL
-  MONITORING WELL
-  EXISTING KEY WELL
-  RAINFALL STATIONS

861 VILLAGE OAKS DRIVE, SUITE 100
 COVINA, CALIFORNIA 91724
 TEL: (626) 967-6202
 FAX: (626) 331-7065

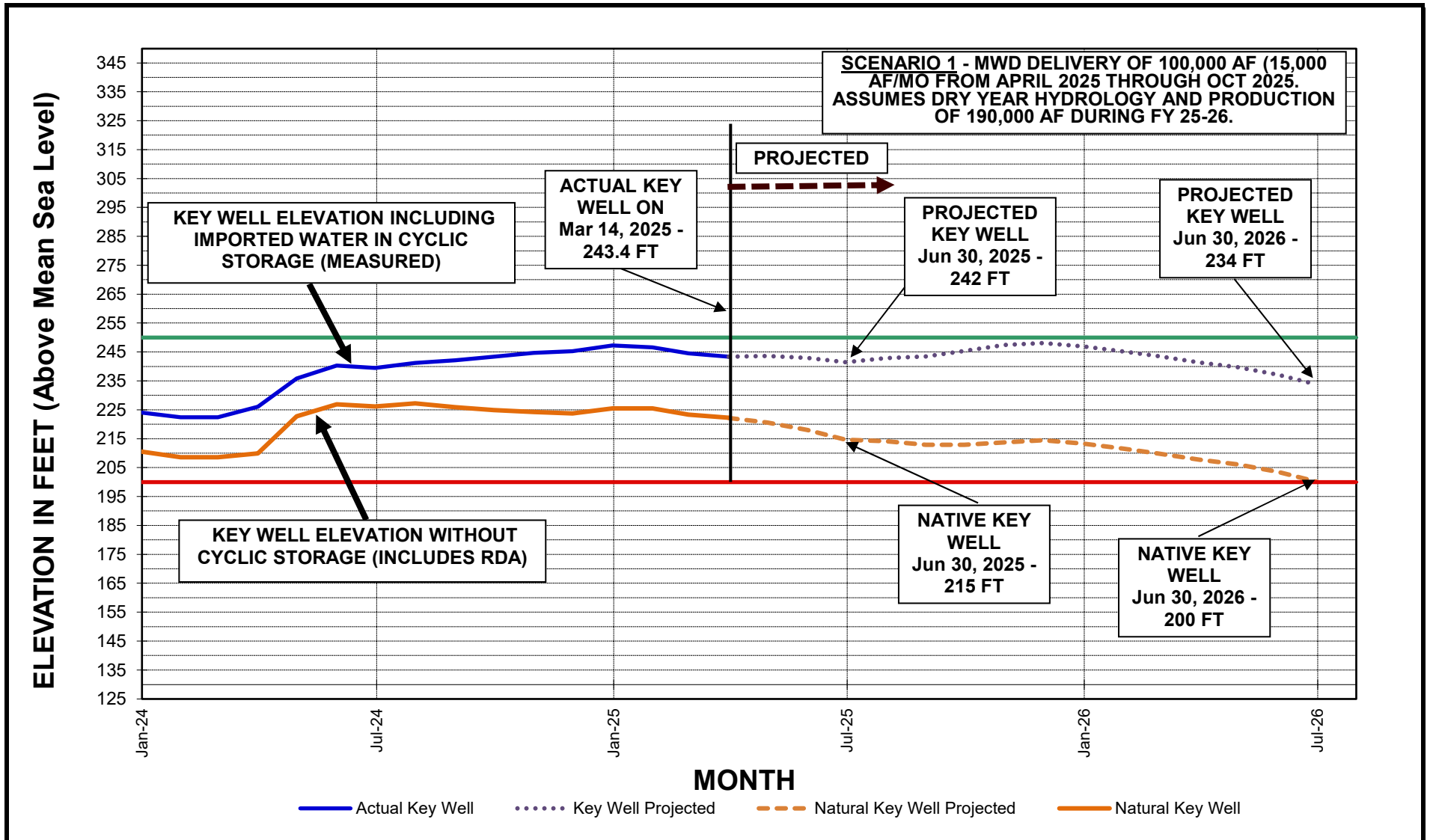
2171 E Francisco Blvd., Suite K
 San Rafael California 94901
 2651 W Guadalupe Rd., Suite A209
 Mesa Arizona 85202



APPROXIMATE SCALE
 1" = 12,000'

MAIN SAN GABRIEL BASIN WATERMASTER

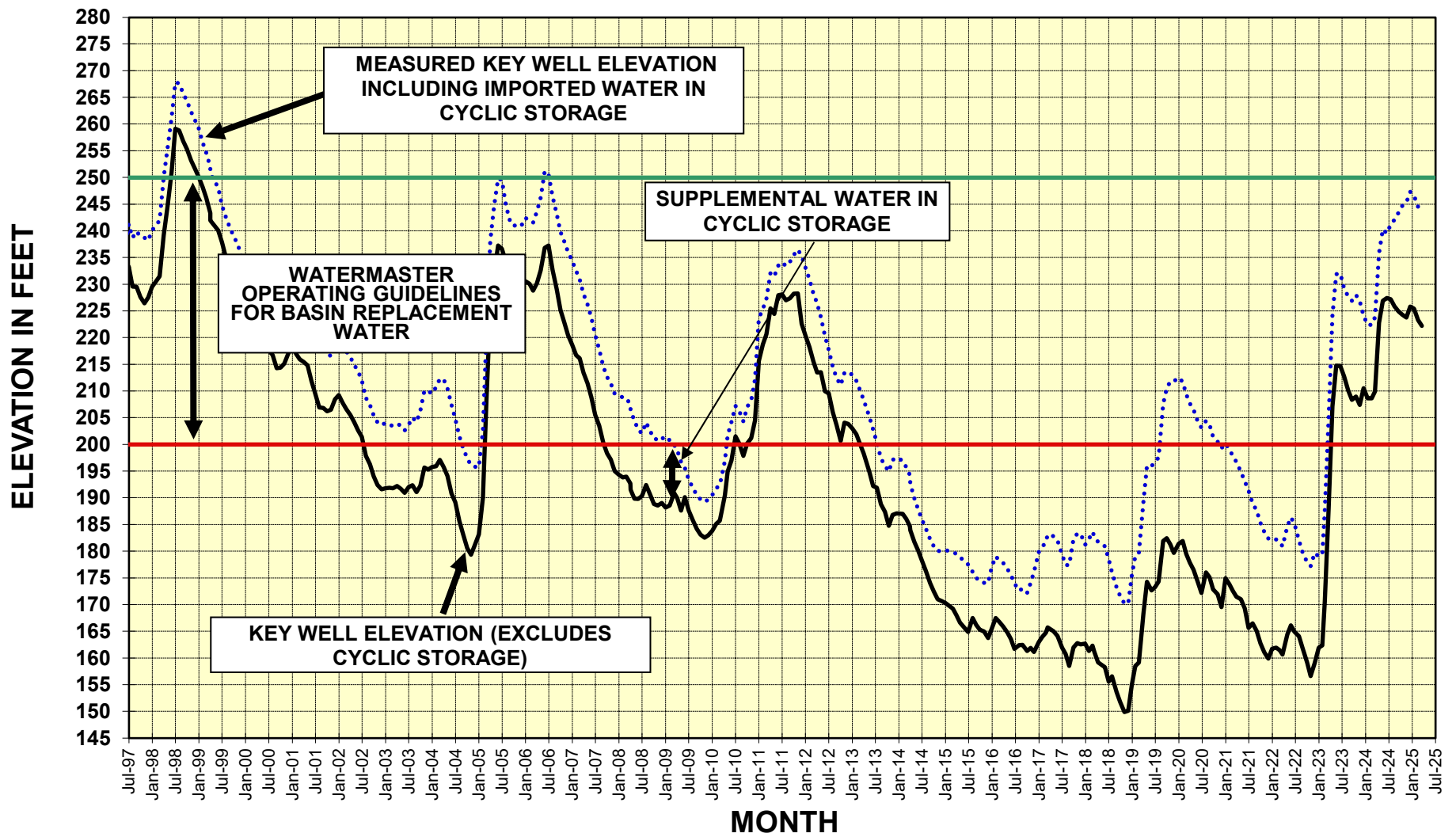
WELL LOCATION MAP



STETSON ENGINEERS INC.
 Covina San Rafael Mesa, Arizona
 WATER RESOURCE ENGINEERS

UPPER SAN GABRIEL VALLEY MUNICIPAL WATER DISTRICT
BALDWIN PARK KEY WELL
GROUNDWATER ELEVATION
PROJECTED THROUGH FY 2025-26

FIGURE 1



MAIN SAN GABRIEL BASIN WATERMASTER

**BALDWIN PARK KEY WELL
GROUNDWATER ELEVATION**

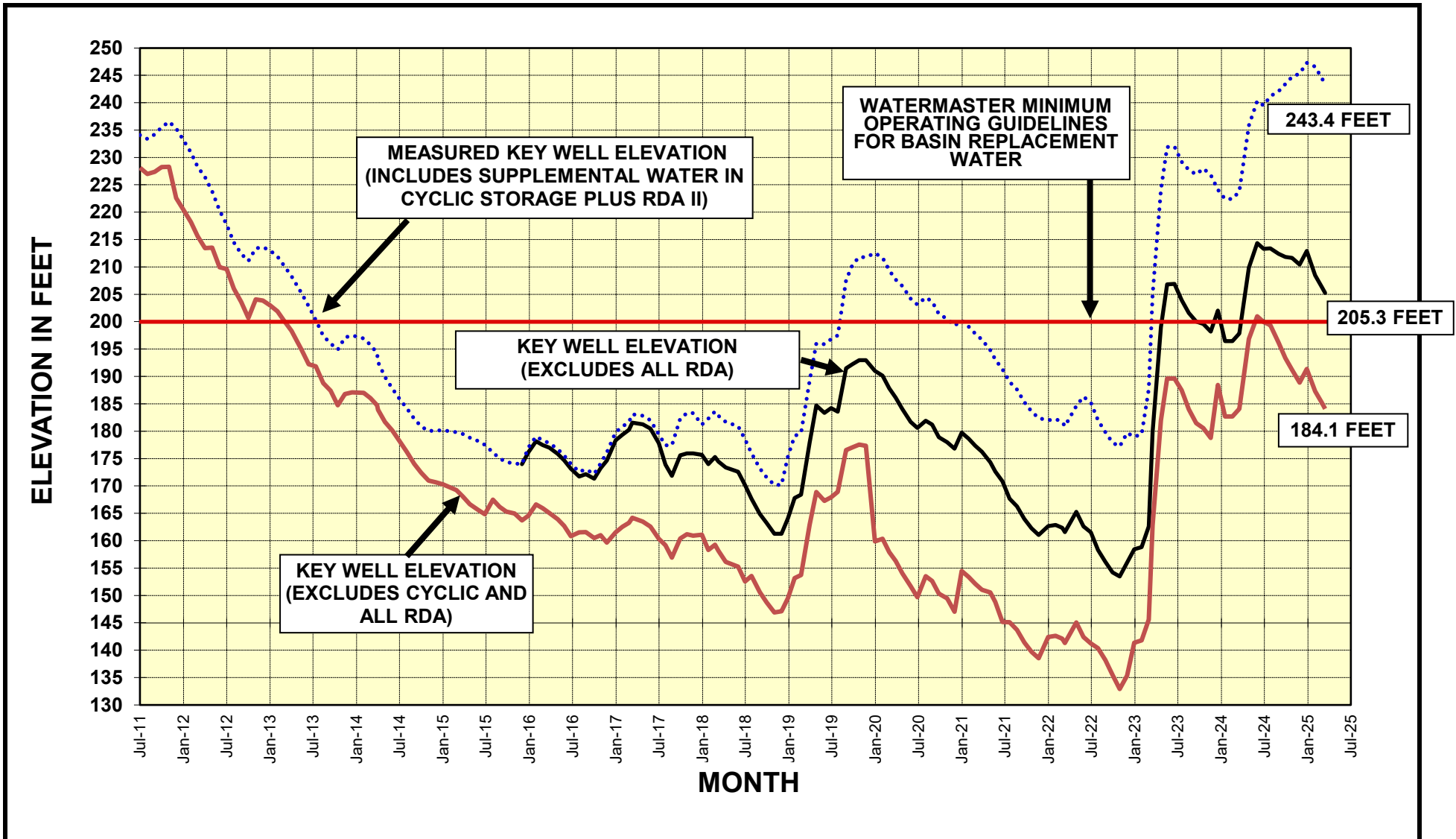


STETSON ENGINEERS INC.

Covina San Rafael Mesa, Arizona

WATER RESOURCE ENGINEERS

FIGURE 2



MAIN SAN GABRIEL BASIN WATERMASTER

**IMPACTS OF STORED WATER ON BALDWIN PARK
KEY WELL GROUNDWATER ELEVATION**



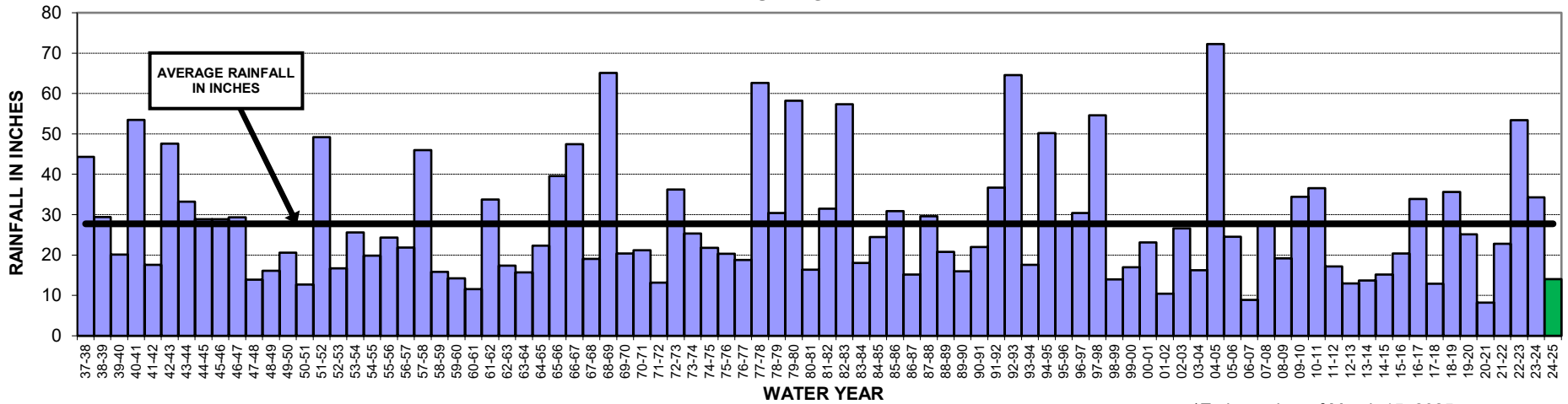
STETSON ENGINEERS INC.

Covina San Rafael Mesa, Arizona

WATER RESOURCE ENGINEERS

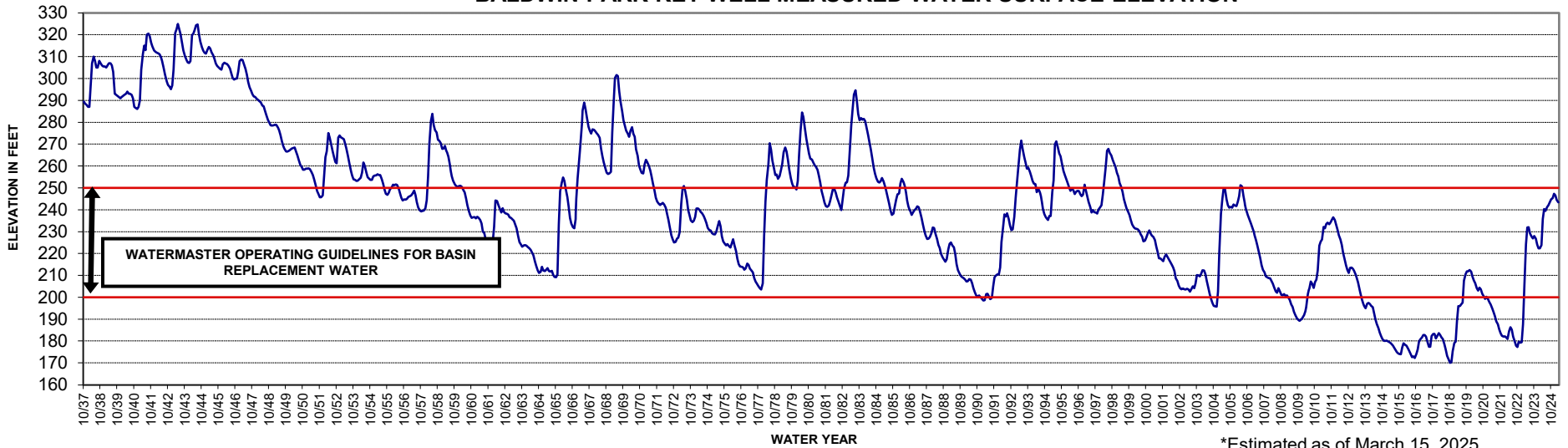
FIGURE 3

RAINFALL AT SAN GABRIEL DAM



*Estimated as of March 15, 2025

BALDWIN PARK KEY WELL MEASURED WATER SURFACE ELEVATION



*Estimated as of March 15, 2025



STETSON ENGINEERS INC.

Covina San Rafael Mesa, Arizona

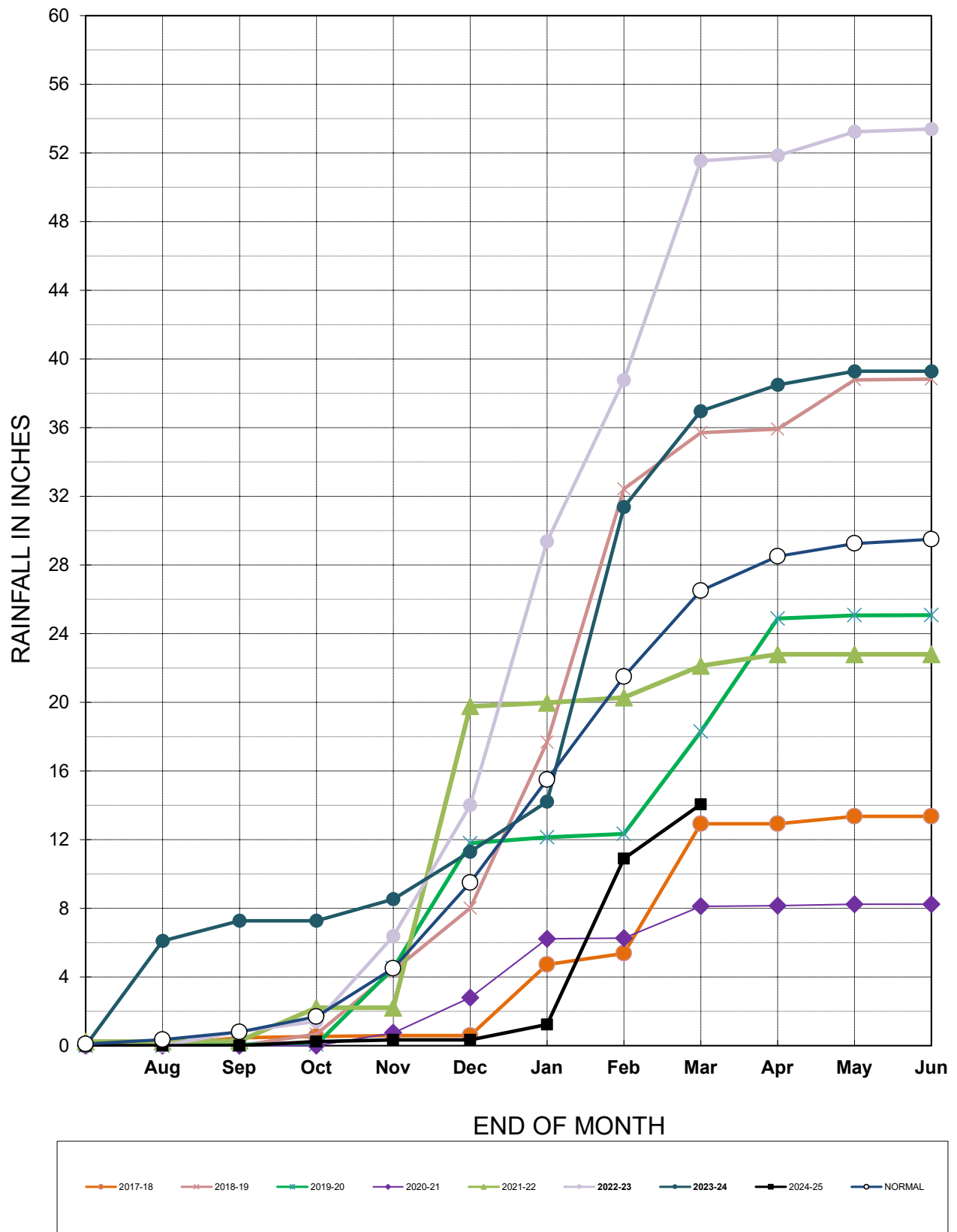
WATER RESOURCE ENGINEERS

MAIN SAN GABRIEL BASIN WATERMASTER

SAN GABRIEL DAM RAINFALL AND BALDWIN PARK KEY WELL ELEVATION

FIGURE 4

FIGURE 5

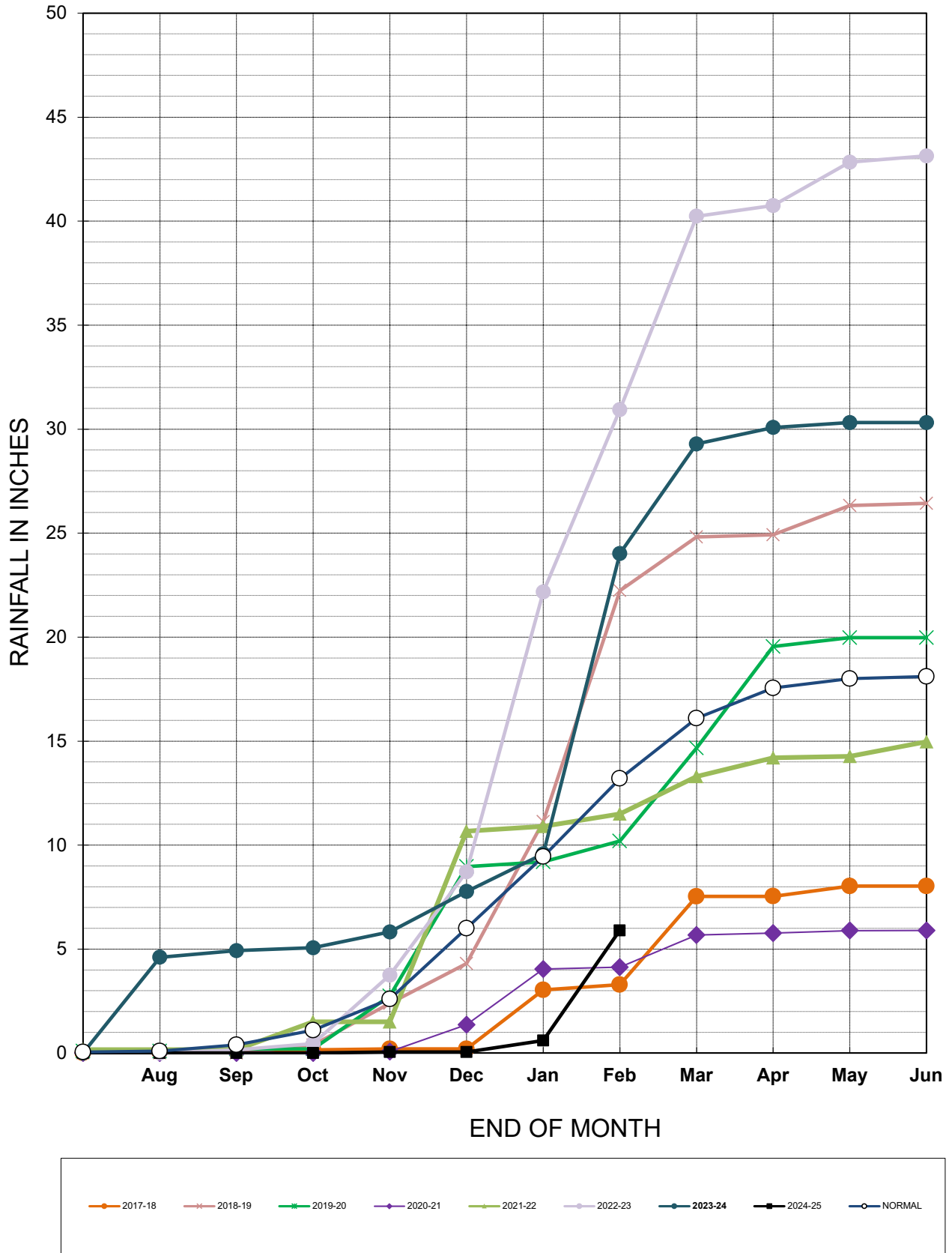


STETSON ENGINEERS INC.
 Covina San Rafael Mesa, Arizona
 WATER RESOURCE ENGINEERS

MAIN SAN GABRIEL BASIN WATERMASTER

**ACCUMULATED RAINFALL AT SAN GABRIEL DAM
 RAINFALL STATION NO. 425B-E**

FIGURE 6

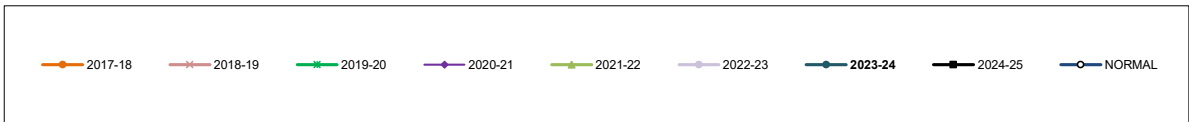
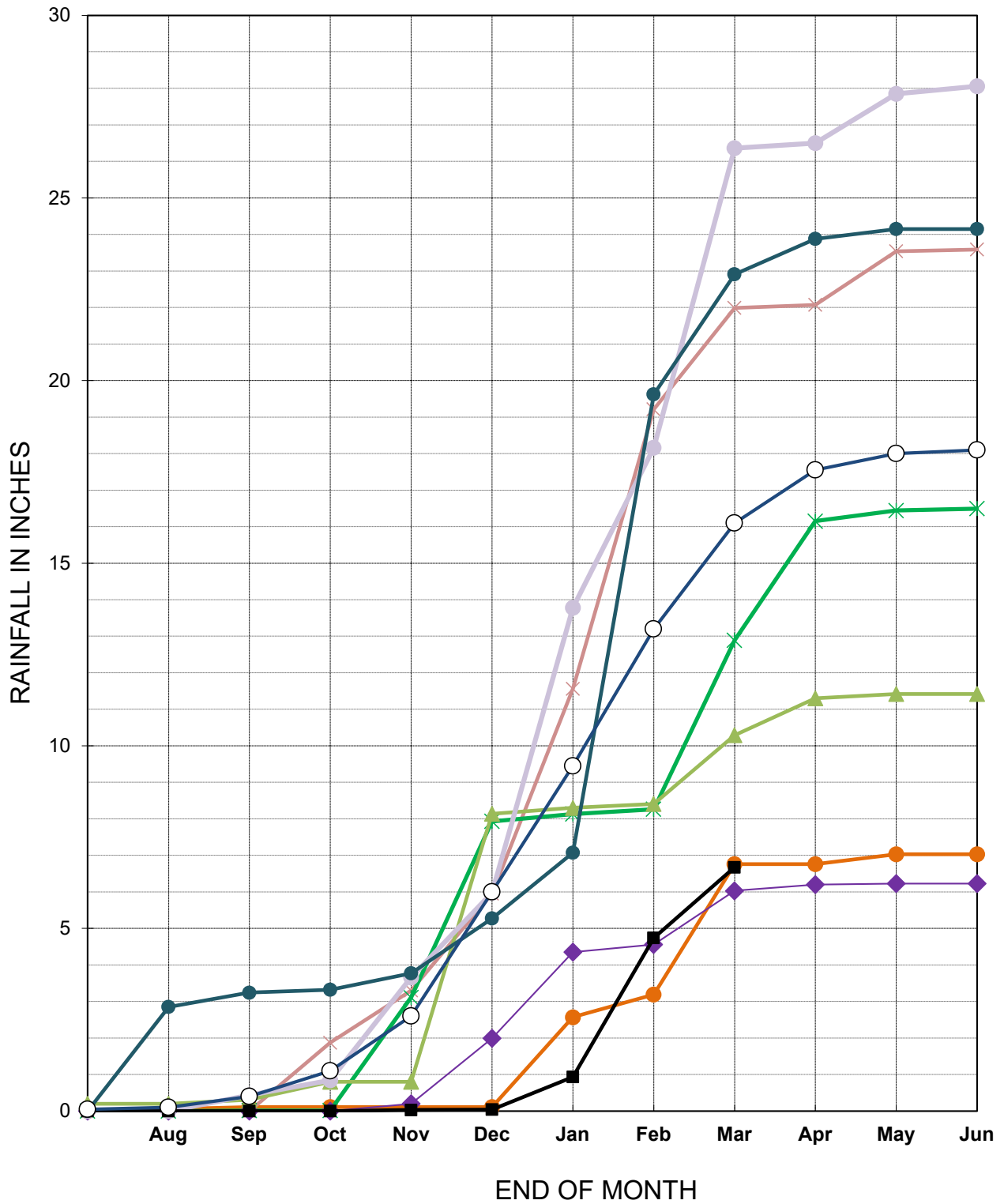


STETSON ENGINEERS INC.
Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS

MAIN SAN GABRIEL BASIN WATERMASTER

**ACCUMULATED RAINFALL AT PASADENA - CITY HALL
RAINFALL STATION NO. 610B**

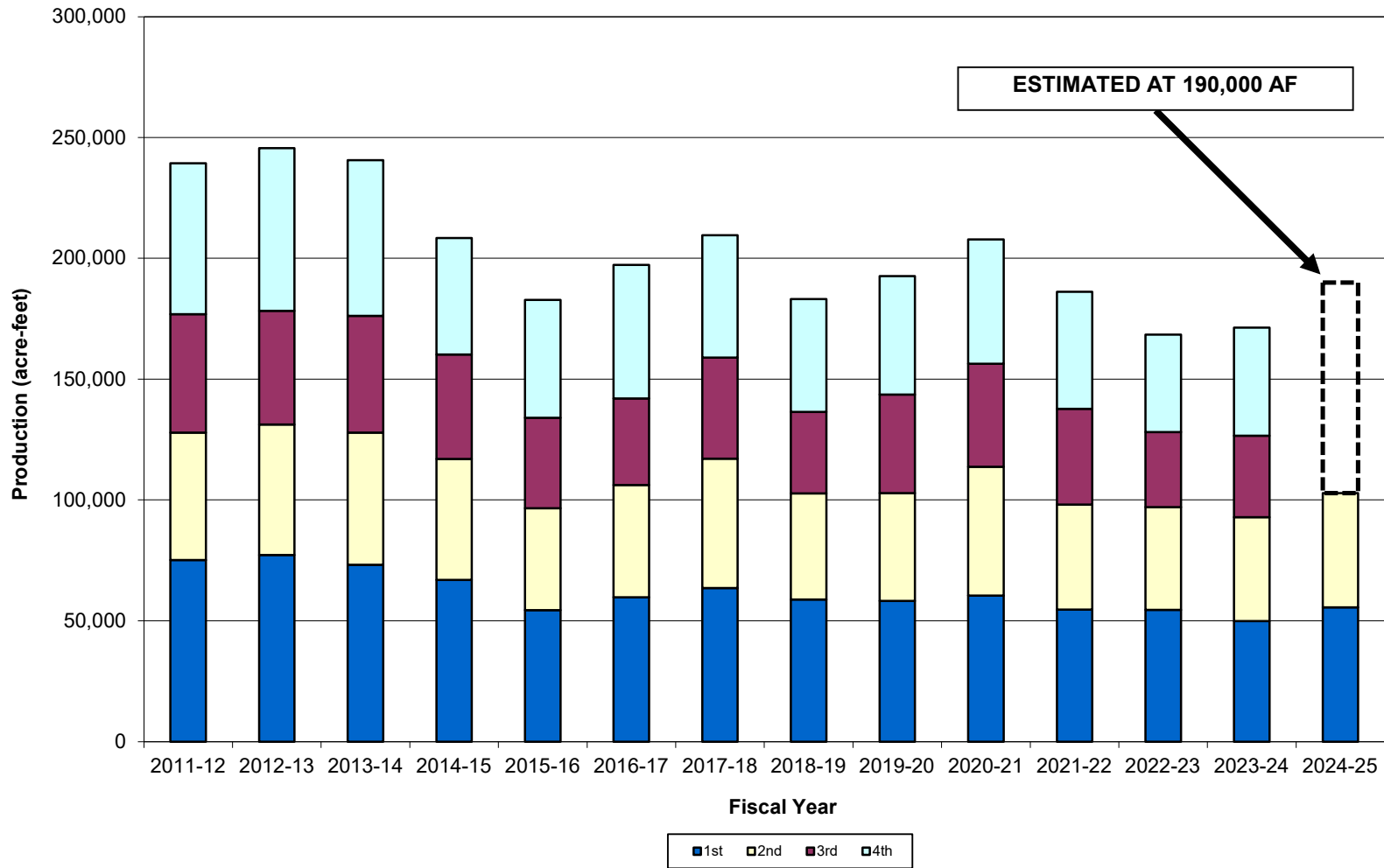
FIGURE 7



STETSON ENGINEERS INC.
 Covina San Rafael Mesa, Arizona
 WATER RESOURCE ENGINEERS

MAIN SAN GABRIEL BASIN WATERMASTER

**ACCUMULATED RAINFALL AT PUDDINGSTONE DAM
 RAINFALL STATION NO. 96-C**



ESTIMATED AT 190,000 AF



STETSON ENGINEERS INC.
 Covina San Rafael Mesa, Arizona
 WATER RESOURCE ENGINEERS

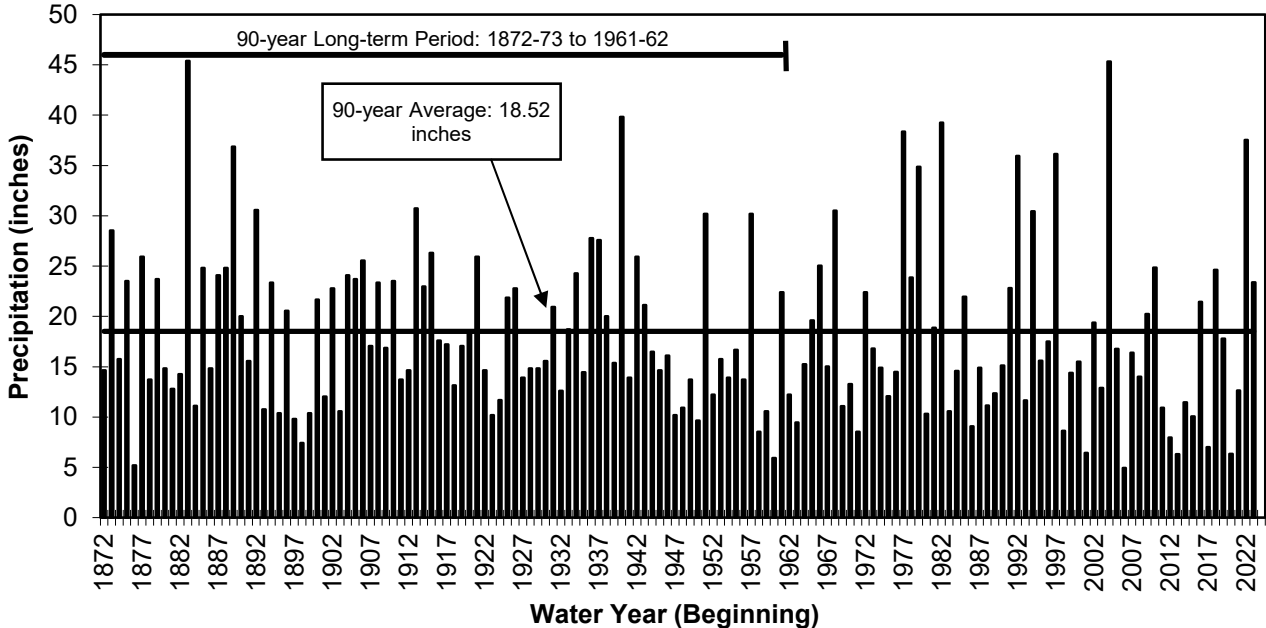
MAIN SAN GABRIEL BASIN WATERMASTER

**PRODUCTION IN
 MAIN SAN GABRIEL BASIN**

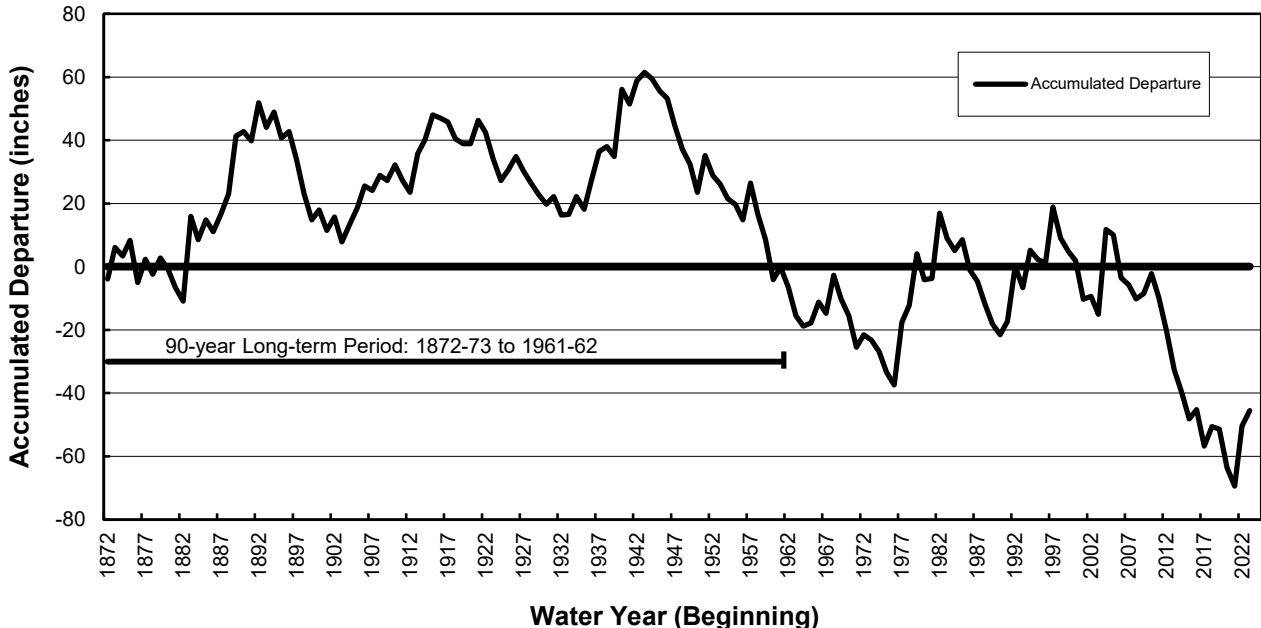
FIGURE 8

APPENDIX A

SAN GABRIEL VALLEY PRECIPITATION 1872-73 THROUGH 2023-24

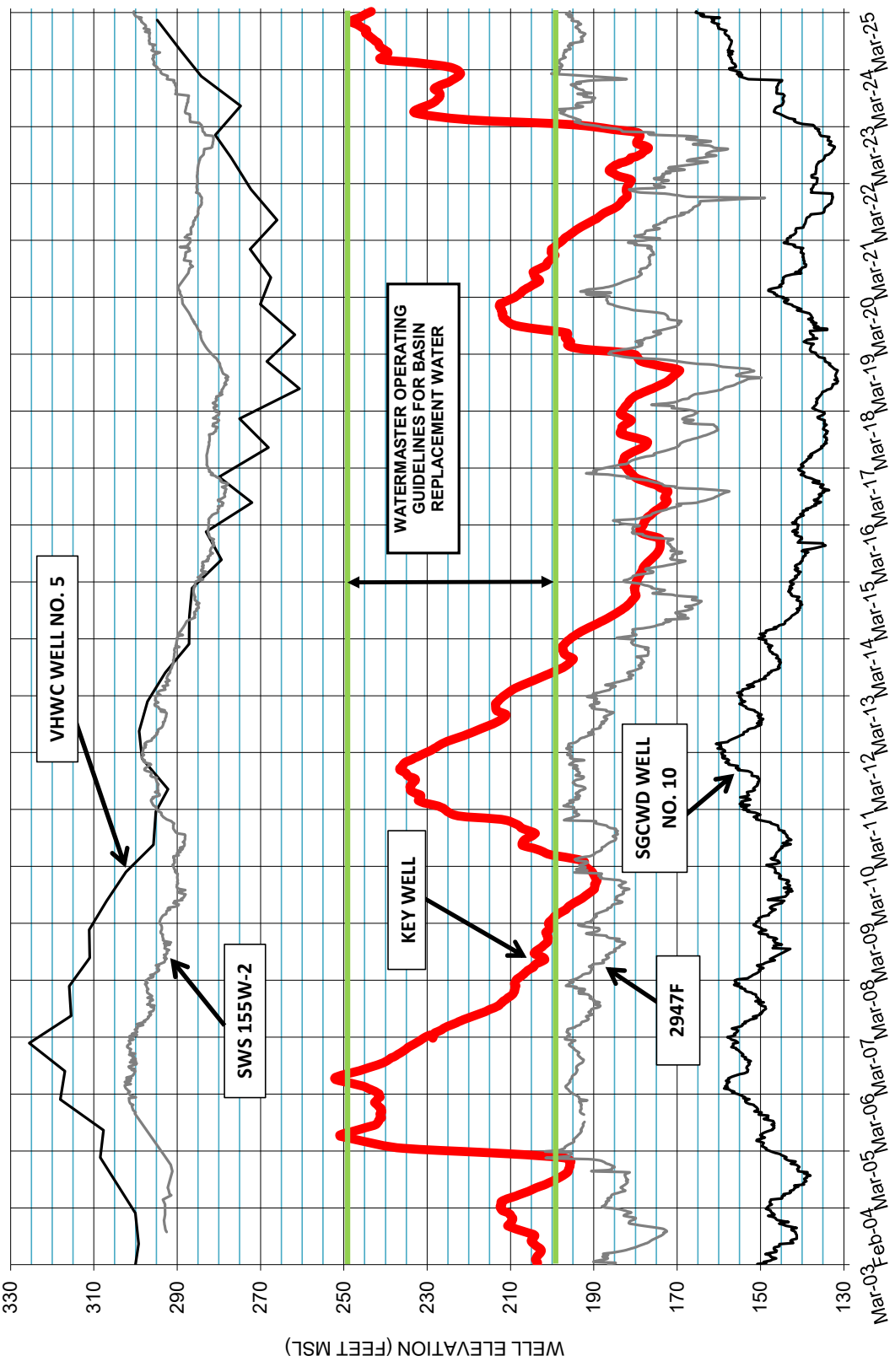


SAN GABRIEL VALLEY ACCUMULATED DEPARTURE 1872-73 THROUGH 2023-24



HISTORICAL PRECIPITATION IN THE SAN GABRIEL VALLEY

APPENDIX B



MAIN SAN GABRIEL BASIN WATERMASTER

HYDROGRAPHS FOR BALDWIN PARK KEY WELL AND OTHER "KEY WELLS" BETWEEN MARCH 2003 AND MARCH 2025

STETSON ENGINEERS INC.
 West Covina San Rafael Mesa, Arizona
WATER RESOURCE ENGINEERS



APPENDIX C

APPENDIX C

**RANGE OF OPERATING SAFE YIELDS
AND PUMPER'S SHARES THEREOF
(Acre-feet)**

Quantities which may be pumped free of Replacement Water Assessment

Pumper	Pumper's Share %	OSY of 130,000	OSY of 140,000	OSY of 150,000	OSY of 160,000
Alhambra, City of	4.45876	5,796.39	6,242.26	6,688.14	7,134.02
Amarillo Mutual	0.35874	466.36	502.24	538.11	573.98
Arcadia, City of	4.23099	5,500.29	5,923.39	6,346.49	6,769.58
Banks, Gale C.	0.02530	32.89	35.42	37.95	40.48
Brea, City of	0.76035	988.46	1,064.49	1,140.53	1,216.56
Cadway, Inc.	0.32545	423.09	455.63	488.18	520.72
Calif. American-San Marino	4.74431	6,167.60	6,642.03	7,116.47	7,590.90
California Domestic	6.26154	8,140.00	8,766.16	9,392.31	10,018.46
Canyon Water Company	0.00051	0.66	0.71	0.77	0.82
Chevron	0.00101	1.31	1.41	1.52	1.62
County Sanitation Dist. 18	0.00228	2.96	3.19	3.42	3.65
Covina, City of	0.23979	311.73	335.71	359.69	383.66
Crevolin, A.J.	0.00114	1.48	1.60	1.71	1.82
Dawes, Mary Kay	0.22359	290.67	313.03	335.39	357.74
Del Rio Mutual	0.10069	130.90	140.97	151.04	161.10
El Monte, City of	1.40888	1,831.54	1,972.43	2,113.32	2,254.21
El Monte Cemetery	0.00936	12.17	13.10	14.04	14.98
Fox Family Trust Michael Edward Fox and Crystal Marie Fox, Trustees	0.07378	95.91	103.29	110.67	118.05
Garnier, Anton and Anita	0.10843	140.96	151.80	162.65	173.49
Golden State Water-S.G.V. Dist.	2.92105	3,797.37	4,089.47	4,381.58	4,673.68
Green, Walter	0.02419	31.45	33.87	36.29	38.70
Hansen, Alice	0.00038	0.49	0.53	0.57	0.61
Heinrich, Carolyn	0.01269	16.50	17.77	19.04	20.30
Hemlock Mutual	0.08399	109.19	117.59	125.99	134.38
IBY Property Owner, LLC	1.20047	1,560.61	1,680.66	1,800.71	1,920.75
Industry, City of	0.55810	725.53	781.34	837.15	892.96
Irwindale, City of	0.19025	247.33	266.35	285.38	304.40
Kirklen, Jeffery	0.05665	73.65	79.31	84.98	90.64
Landeros, John	0.00038	0.49	0.53	0.57	0.61
La Puente Valley CWD	0.57197	743.56	800.76	857.96	915.15
Loucks, David	0.00152	1.98	2.13	2.28	2.43

APPENDIX C

**RANGE OF OPERATING SAFE YIELDS
AND PUMPER'S SHARES THEREOF
(Acre-feet)**

Quantities which may be pumped free of Replacement Water Assessment

Pumper	Pumper's Share %	OSY of 130,000	OSY of 140,000	OSY of 150,000	OSY of 160,000
Lovelady, June G.	0.09386	122.02	131.40	140.79	150.18
The Maggiore Family Trust	0.07379	95.93	103.31	110.69	118.06
Martin Marietta So. Calif. Aggregates,	1.17094	1,522.22	1,639.32	1,756.41	1,873.50
Martinez, Frances	0.00038	0.49	0.53	0.57	0.61
McIntyre, William	0.01467	19.07	20.54	22.01	23.47
Monterey Park, City of	3.39216	4,409.81	4,749.02	5,088.24	5,427.46
NCL Co, LLC	0.00050	0.65	0.70	0.75	0.80
Nick Tomovich	0.00001	0.01	0.01	0.02	0.02
Nicholson Family Trust - Marital Trust	0.01569	20.40	21.97	23.54	25.10
Pellissier Irrevocable QTIP Trust, et a	3.28384	4,268.99	4,597.38	4,925.76	5,254.14
Pico County Water Dist.	0.00038	0.49	0.53	0.57	0.61
Rados, Alexander	0.02176	28.29	30.46	32.64	34.82
Rana Living Trust, Jeanne	0.01269	16.50	17.77	19.04	20.30
Rosemead Development Ltd.	0.00051	0.66	0.71	0.77	0.82
Ruth, Roy	0.00038	0.49	0.53	0.57	0.61
San Gabriel Country Club	0.14476	188.19	202.66	217.14	231.62
San Gabriel County WD	2.73019	3,549.25	3,822.27	4,095.29	4,368.30
San Gabriel Valley WC	10.61200	13,795.60	14,856.80	15,918.00	16,979.20
Sonoco Products	0.15766	204.96	220.72	236.49	252.26
So. Calif. Edison Co.	0.08690	112.97	121.66	130.35	139.04
South Pasadena, City of	1.80520	2,346.76	2,527.28	2,707.80	2,888.32
Sterling Mutual	0.06072	78.94	85.01	91.08	97.15
Suburban Water Systems	12.59998	16,379.97	17,639.97	18,899.97	20,159.97
Sunny Slope Water Co.	1.12770	1,466.01	1,578.78	1,691.55	1,804.32
Tate, Phillip P. & Sieglinde A., et al	0.02926	38.04	40.96	43.89	46.82
Tyler Nursery	0.00162	2.11	2.27	2.43	2.59
United Rock Products	0.23253	302.29	325.54	348.80	372.05
Valencia Heights Water Co.	0.53685	697.91	751.59	805.28	858.96
Valley County Water District	3.01517	3,919.72	4,221.24	4,522.76	4,824.27
Valley View Mutual	0.31169	405.20	436.37	467.54	498.70
Vulcan Materials Company	0.90690	1,178.97	1,269.66	1,360.35	1,451.04
Whittier, City of	4.18519	5,440.75	5,859.27	6,277.79	6,696.30
Wilmott, Erma	0.00038	0.49	0.53	0.57	0.61
Workman Mill Invest. Comp.	0.87839	1,141.91	1,229.75	1,317.59	1,405.42
Total of Pumpers	76.46119	99,399.55	107,045.67	114,691.79	122,337.90

APPENDIX C

**RANGE OF OPERATING SAFE YIELDS
AND PUMPER'S SHARES THEREOF
(Acre-feet)**

Quantities which may be pumped free of Replacement Water Assessment

<u>Pumper</u>	<u>Pumper's Share %</u>	<u>OSY of 130,000</u>	<u>OSY of 140,000</u>	<u>OSY of 150,000</u>	<u>OSY of 160,000</u>
Azusa, City of	1.84988	2,404.84	2,589.83	2,774.82	2,959.81
Azusa Valley Water Co.	5.06299	6,581.89	7,088.19	7,594.49	8,100.78
Calif. American (Duarte) Covina Irrigating Co.	1.84634 3.22577	2,400.24 4,193.50	2,584.88 4,516.08	2,769.51 4,838.66	2,954.14 5,161.23
Glendora, City of	4.75261	6,178.39	6,653.65	7,128.92	7,604.18
Golden State Water Co. - San Dimas District	1.73984	2,261.79	2,435.78	2,609.76	2,783.74
Los Angeles, County of	1.88292	2,447.80	2,636.09	2,824.38	3,012.67
Metropolitan Water Dist. Monrovia, City of	0.08349 3.09472	108.54 4,023.14	116.89 4,332.61	125.24 4,642.08	133.58 4,951.55
Phillips, Alice B., et al	0.00025	0.33	0.35	0.37	0.40
Total of Integrated Producers	23.53881	30,600.45	32,954.33	35,308.21	37,662.10
Total of Pumpers	76.46119	99,399.55	107,045.67	114,691.79	122,337.90
TOTAL	100.00000	130,000.00	140,000.00	150,000.00	160,000.00