



*Inland Empire Utilities Agency*  
A MUNICIPAL WATER DISTRICT

2024

**IEUA**

**Planning Annual Report**

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## SECTION 1: THE REGION AT A GLANCE

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### An Introduction to IEUA

The Inland Empire Utilities Agency (IEUA) is located in Western San Bernardino County and serves approximately 945,000 residents in a 242-square mile service area. As a regional wastewater treatment agency, IEUA provides wastewater utility services to seven local sewage collection agencies (SCAs): cities of Chino, Chino Hills, Fontana, Montclair, Ontario, Upland, and Cucamonga Valley Water District (CVWD) in the city of Rancho Cucamonga. Since the 1970s, IEUA has provided wastewater service through the Regional Sewage Service Contract (Regional Contract). As the original Regional Contract was set to expire in January 2023, IEUA's Board of Directors adopted a Regional Sewage System Service Ordinance (Ordinance No. 111) in December 2022, which served as the document to continue the governance of the operations and maintenance of the Regional Sewer System absent a new Regional Contract. Following continued negotiations, a new Regional Contract was signed with four of seven SCAs in November 2023, while wastewater service for three SCAs remain governed under ordinance. The adopted Ordinance No. 111, later superseded by Ordinance No. 114 in December 2023, did not change IEUA's existing oversight of its wastewater service program, nor change any of the wastewater services provided to each of the SCAs. In addition to wastewater service the Agency also provides wholesale imported water from the Metropolitan Water District of Southern California (MWD) to seven customer agencies: the cities of Chino, Chino Hills, Ontario, Upland, CVWD in the city of Rancho Cucamonga, Fontana Water Company (FWC) in the city of Fontana, and the Monte Vista Water District (MVWD) in the city of Montclair.

In addition to providing these key services, IEUA also produces and distributes high quality recycled water, implements the Chino Basin groundwater recharge program, operates the Chino I Desalter for the Chino Desalter Authority (CDA), operates the Inland Empire Regional Composting Facility for the Inland Empire Regional Composting Authority, and provides regional water resources planning to ensure reliable, cost-effective environmentally responsible water supplies for current and future customers. The purpose of the Planning Annual Report (PAR) is to provide annually updated information about the IEUA service area's regional water use, imported water, local water, wastewater, recycled water, groundwater recharge, and environmental flows. This report also provides a summary of historic trends, usage patterns, current programs, and future forecasts.

## IEUA’s Water Cycle

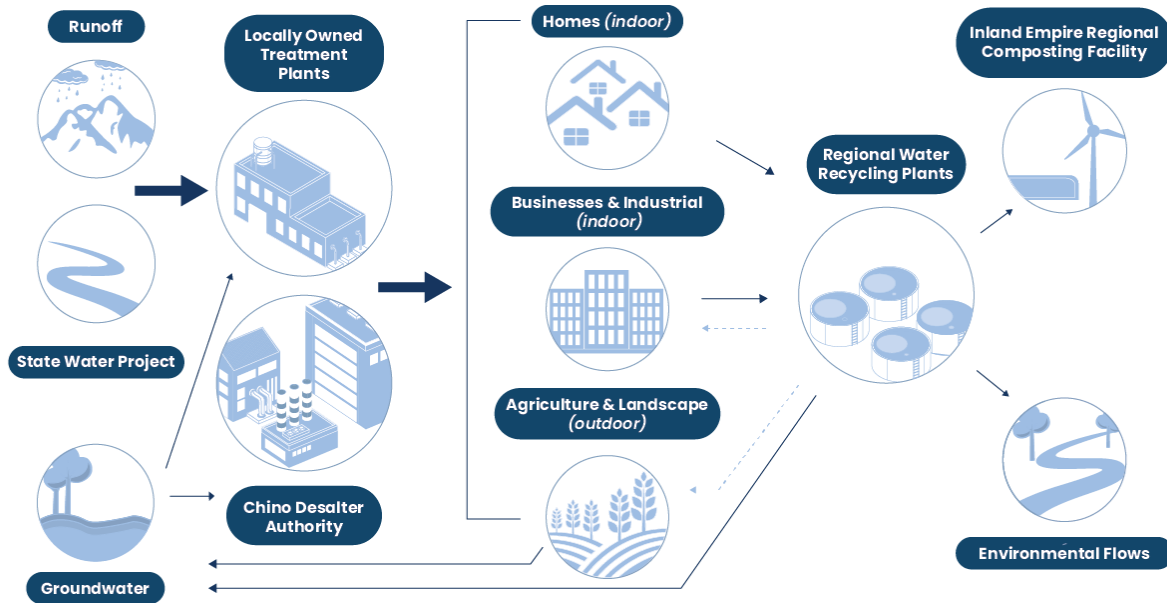


Figure 1 – IEUA Regional Water Cycle

## Regional Population Growth

The IEUA service area has experienced tremendous growth since the start of the 21<sup>st</sup> Century. In Fiscal Year (FY) 00/01, IEUA served a population of just over 700,000, but now serves an estimated 945,000 people as of FY 23/24 with the expectation to serve approximately 1 million people by FY 30/31 as projected by Southern California Association of Governments (SCAG).

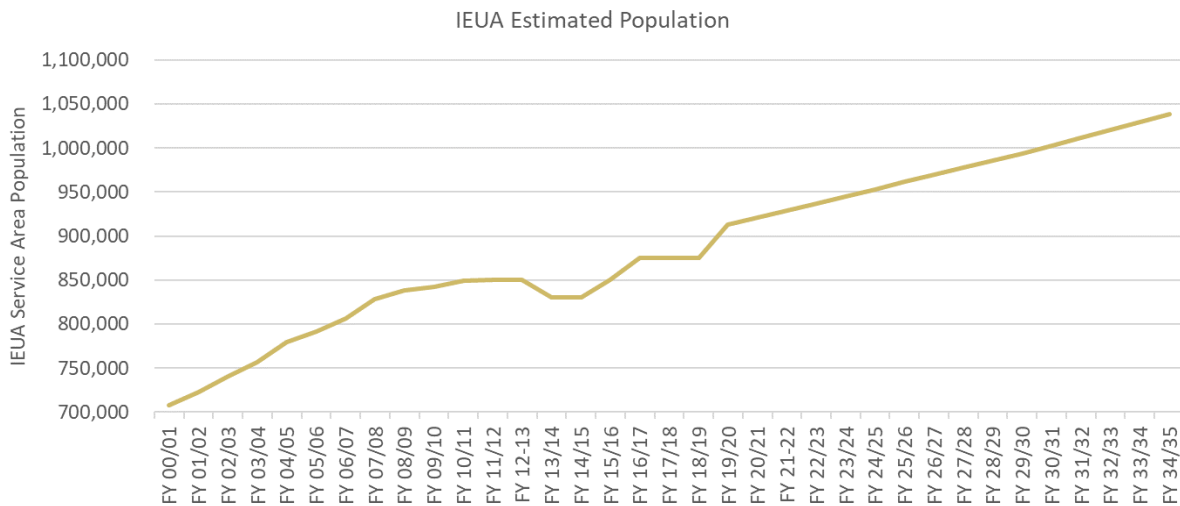


Figure 2 – IEUA Regional Population Growth

Increases in population are met with an increase in the number of water meters in the service area. IEUA tracks the relative increase in water meter capacity by keeping count of Meter

Equivalent Units (MEUs). An MEU is a measure of each connection’s capacity requirement. One MEU is equivalent to one 5/8-inch or 3/4-inch water meter, which are the typical residential meter sizes. Meters larger than a 5/8-inch or 3/4-inch are greater than one MEU due to the increase in potential water flow capacity. In FY 24/25, the MEU count increased by 1,150 MEUs for a total of 424,876 MEUs region wide.

**Table 1 – Meter Equivalent Units**

<b>Retail Agency</b>	<b>FY 23/24 MEUs</b>	<b>FY 24/25 MEUs</b>
Chino	41,532	40,987
Chino Hills	39,173*	39,345
CVWD	106,384	106,798
FWC	93,084	93,173
MVWD	22,098	22,091
Ontario	80,638	81,445
SAWCo	1,869	1,874
Upland	35,039	34,719
WVWD**	3,909	4,447
<b>Total</b>	<b>423,726</b>	<b>424,876</b>

*\*Chino Hills FY 23/24 MEUs were corrected from 39,986 to 39,173 in FY 24/25*

*\*\*IEUA and WVWD have a shared service area for emergency supply Regional Water Use*

IEUA monitors and compiles water use data from each of its customer agencies to track overall water demands and sources of supply. Annual water use is split between potable water usage and the direct use of recycled water. IEUA’s regional water usage in FY 23/24 was approximately 177,831 Acre Feet (AF) which includes 161,227 AF potable usage and 16,604 AF recycled water direct usage.

Despite large swings in outdoor water use due to drought, water availability, and regional population growth, overall, per person water use in the region is on a downward trend. In FY 23/24 per person water usage, calculated as gallons per capita per day (GPCD), increased slightly to 168 GPCD from the previous value of 164 GPCD, but did not return to pre-drought levels. This slight increase was anticipated, as the GPCD in FY 22/23 was artificially low as a result of limited imported water availability.

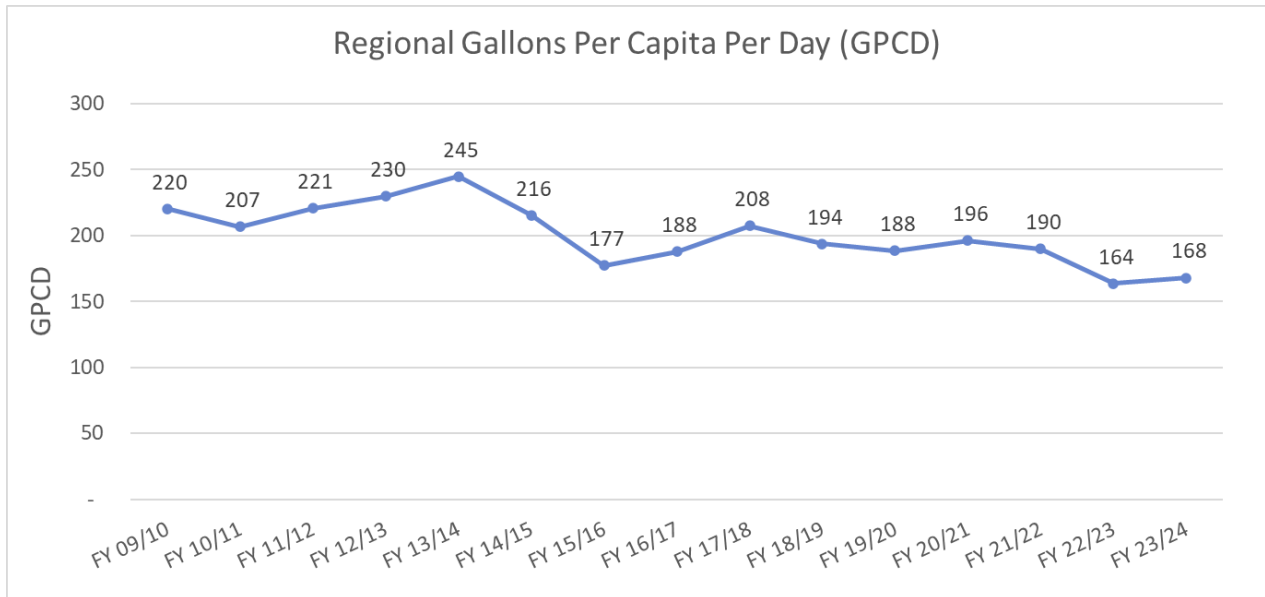


Figure 3 – IEUA Regional GPCD

### Regional Water Use Projections

Projected regional water use was calculated as part of the development of the 2020 Urban Water Management Plan (UWMP). IEUA collected each customer agencies’ projected water use from their respective UWMP and totaled the projected use to obtain a regional water use projection. Regional water use projections include both potable and non-potable recycled water direct use.

Table 2 – 2020 UWMP Projected Water Demand by Retail Agency (AF)

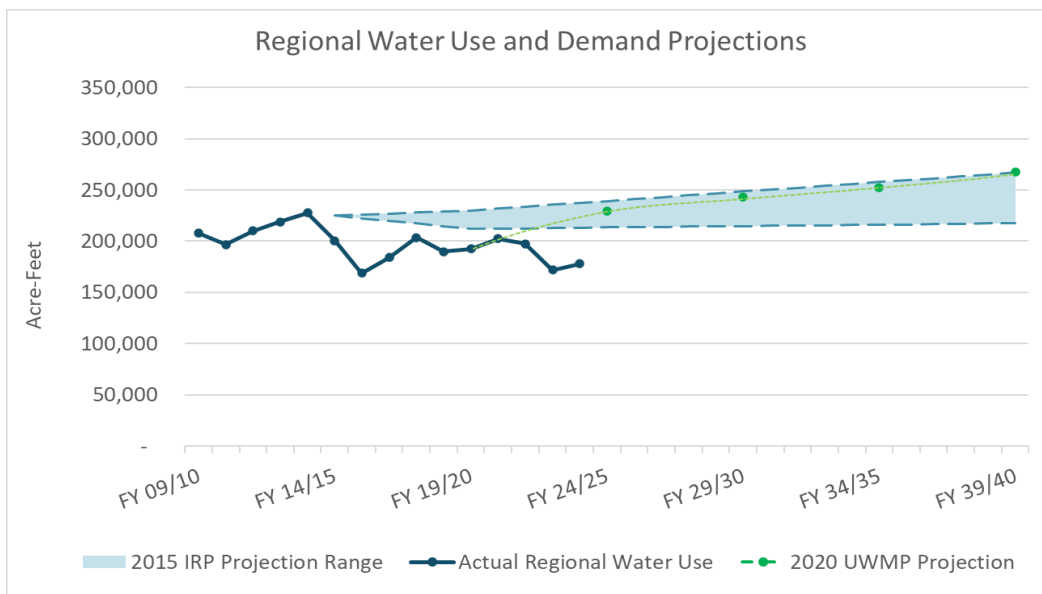
Retail Agency	2025	2030	2035	2040	2045
Chino	20,843	22,310	23,087	23,963	25,108
Chino Hills	17,120	17,334	17,678	17,725	17,769
CVWD	53,369	58,092	59,650	60,949	60,949
FWC	45,593	46,909	47,665	50,442	51,943
MVWD	14,232	14,564	15,175	15,437	15,706
Ontario	52,550	58,513	63,406	73,668	73,668
Upland	25,328	25,328	25,328	25,328	25,328
<b>Total</b>	<b>229,035</b>	<b>243,050</b>	<b>251,989</b>	<b>267,512</b>	<b>270,471</b>

Projected water use was also calculated as part of the 2015 Integrated Resources Plan (2015 IRP), which developed a range of demand possibilities to accommodate for future uncertainty caused by the various demand factors including climate change. This analysis came from demand modeling conducted as part of the 2015 IRP and 2015 UWMP, which found that new developments in the region are more water efficient due to changes in the plumbing code, higher density developments with less landscaping, and compliance landscape ordinance requirements set forth in AB1881.

**Table 3 – 2015 IRP Demand Forecast (AF)**

Urban M&I Forecast	2015	2020	2040
High Forecast	225,000	230,000	267,000
Medium Forecast	225,000	220,100	238,600
Low Forecast	225,000	212,000	217,400

Serving a growing population and increasing resource demand, IEUA predicted a range of future water use in the 2015 IRP, with a bottom projection of stable usage to a high estimate of year over year regional water use increases. Immediately following the 2015 IRP, the region was struck by drought, and water usage drastically dropped. As the drought ended, water usage rose to approximately 200,000 AF a year in FY 17/18 and usage was again projected in the 2020 UWMP, only to have record drought, mandatory water use restrictions, and limited imported water availability impact the region again in FY 22/23, decreasing water usage. With the drought and subsequent imported water allocation over, FY 23/24 saw an increase in regional water usage, from 171,823 AF in FY 22/23 to 177,831 AF in FY 23/24. Despite the increase, regional usage has not returned to pre drought usage levels seen in FY 20/21. Regional water use includes all the utility provided water used in IEUA’s service area including supplies imported from MWD, recycled water supplies made available in-region purple pipe direct use, and local water supplies like pumped groundwater and surface water. Regional water use does not include water recharged into the Chino Groundwater Basin as these supplies are stored as a supply for later use and will be counted when the water is pumped out of the Chino Basin.



**Figure 4 – IEUA Regional Water Use and Projections**

The 2020 UWMP and 2015 IRP both project approximately 267,000 AF of annual water demands by FY 39/40. However, IEUA's actual FY 23/24 regional water use of 177,831 AF is well below both 2020 UWMP and 2015 IRP projections for that respective year. A continuous focus on water use efficiency and per capita reductions, as required in SB X7-7, AB 1668, and SB 606 is anticipated to continue to reduce per capita water use and demands. Over the planning horizon, demands are not expected to exceed the peak 10-year demand reached during FY 13/14 despite an increasing population.





## SECTION 2: IMPORTED WATER USE

### Imported Water Use Summary

IEUA is a member agency of MWD, which is a municipal water district that provides imported water from the northern California State Water Project (SWP) and Colorado River Aqueduct (CRA) to 26 member agencies located in Los Angeles, Orange, Riverside, San Bernardino, San Diego, and Ventura Counties. IEUA is a SWP dependent MWD agency that currently has no access to CRA supplies and relies solely on SWP for supplies for imported deliveries. When there are excess imported water supplies, MWD stores water in the Chino Basin to offset demands at a later period under the conjunctive use Dry Year Yield (DYY) program. In FY 23/24, IEUA service area imported water deliveries totaled 41,151 AF, which was an approximate a 14% increase from FY 22/23. The increase in imported water deliveries was a direct result of the end of an MWD imported water supply allocation that severely limited IEUA's ability to purchase imported water supplies for its customer retail agencies. With no restrictions on MWD imported water supplies in FY 23/24, the region's utilization of imported water supplies trended slightly upwards.

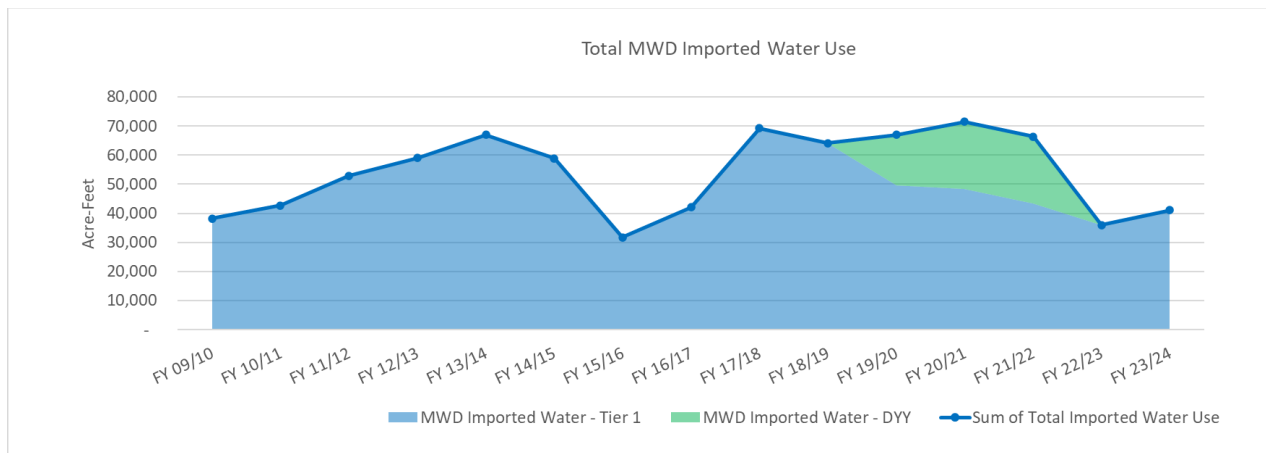


Figure 5 – Imported Water Use

### Dry Year Yield

The DYY program provides for the storage of up to 100,000 AF of water in a MWD Storage Account in the Chino Basin pursuant to the Groundwater Storage Program Funding Agreement dated June 2003 and as subsequently amended. Signatories to the Phase I Agreement are:

- Metropolitan Water District of Southern California
- Inland Empire Utilities Agency
- Three Valleys Municipal Water District
- Chino Basin Watermaster

The DYY Agreement allows MWD to request storage of imported water supplies in the Chino Basin, up to 25,000 AF per year or more with the approval of the DYY Operating Committee and Chino Basin Watermaster. The DYY Agreement also allows MWD to request the extraction of up to 33,000 AF per year not to exceed the amount of water stored in MWD’s Chino Basin storage account (DYY Account).

From June 2017 through June 2020 a total of 63,308 AF were stored in the DYY Account; 58,372 AF by basin infiltration and 4,936 AF by injection through Monte Vista Water District’s Aquifer Storage and Recovery (ASR) wells. From July 2019 through June 2022, Cucamonga Valley Water District and Fontana Water Company extracted 63,308 AF, leaving the DYY Account with a balance of 0 AF. In FY 22/23, DYY storage puts began again and by the end of FY 23/24 storage in the DYY Account included 36,674 AF by basin infiltration, 600 AF by ASR injection, and 2,098 AF by in-lieu storage for a total of approximately 39,372 AF stored in FY 23/24. This increased the DYY Account balance to 49,176 AF by the end of FY 23/24. These stored values are rounded and exclude any evapotranspiration loss.

**Table 4 – DYY Account Balance FY 23/24**

<b>DYY Account Balance (June 2017-June 2024)</b>	
<b>“PUTS”</b>	
Recharged Water	104,708 AF
MVWD ASR Injection	5,678 AF
In-Lieu	2,098 AF
<b>“TAKES”</b>	
CVWD	55,808 AF
FWC	7,500 AF
<b>Total</b>	<b>49,176 AF</b>

*Values based on DYY Certifications through MWD, data may differ from physical recharge activities due to operational losses or changes*

### **Imported Water Use Projections**

Demands for MWD Tier 1 imported water brought into the region through IEUA were projected to 2045 as part of the 2020 UWMP. The 2020 UWMP imported water demand projections were supplied by the retail agencies to IEUA. IEUA expects imported demand to increase over the next 25 years based on the 2020 UWMP projections. The forecast presented on Table 5 assumes average weather and precipitation conditions.

**Table 5 – Projected Imported Water Use Demands by Retail Agency (AF)**

<b>Retail Agency</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>	<b>2045</b>
Chino	5,353	5,353	5,353	5,353	5,353
Chino Hills	7,153	7,367	7,711	7,758	7,802
CVWD	28,369	28,369	28,369	28,369	28,369
FWC	15,000	15,000	15,000	15,000	15,000
MVWD	5,000	5,000	5,000	5,000	5,000
Ontario	11,000	13,000	15,000	17,000	17,000
Upland	5,541	5,541	5,541	5,541	5,541
<b>Total</b>	<b>77,416</b>	<b>79,630</b>	<b>81,974</b>	<b>84,021</b>	<b>84,065</b>



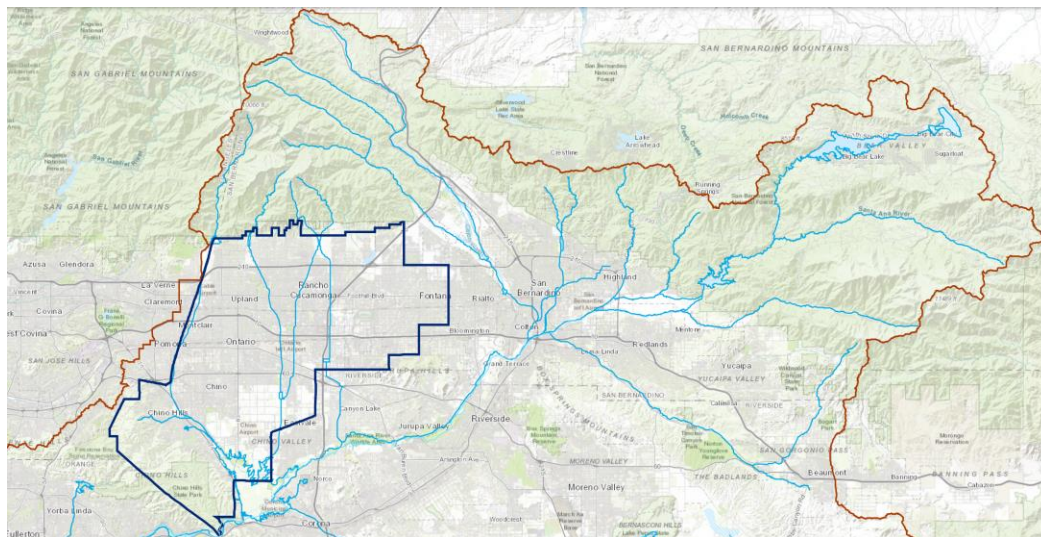
## SECTION 3: LOCAL WATER SUPPLIES

### Local Supplies

IEUA serves as the MWD member agency providing imported water from MWD to IEUA's customer water retail agencies. Although imported water is an important component of the region's water supply portfolio, IEUA's customer agencies rely most heavily on locally available water supplies such as surface water and groundwater.

### Local Surface Water Use

Located within the Santa Ana River Watershed and directly below the eastern San Gabriel Mountain Range, agencies in the norther portion of IEUA's service region have access to surface water flows, weather permitting. As precipitation accumulates in the San Gabriel Mountains, it works its way South via streams and tunnels where it can be collected, treated, and used to supplement water supplies. Surface water availability is heavily influenced by climate patterns. Increased precipitation typically correlates with increased surface water availability, reducing an agency's need to procure water from other sources.



IEUA Service Area

Santa Ana River Watershed

Surface Water

**Figure 6 – Local Surface Water Map**

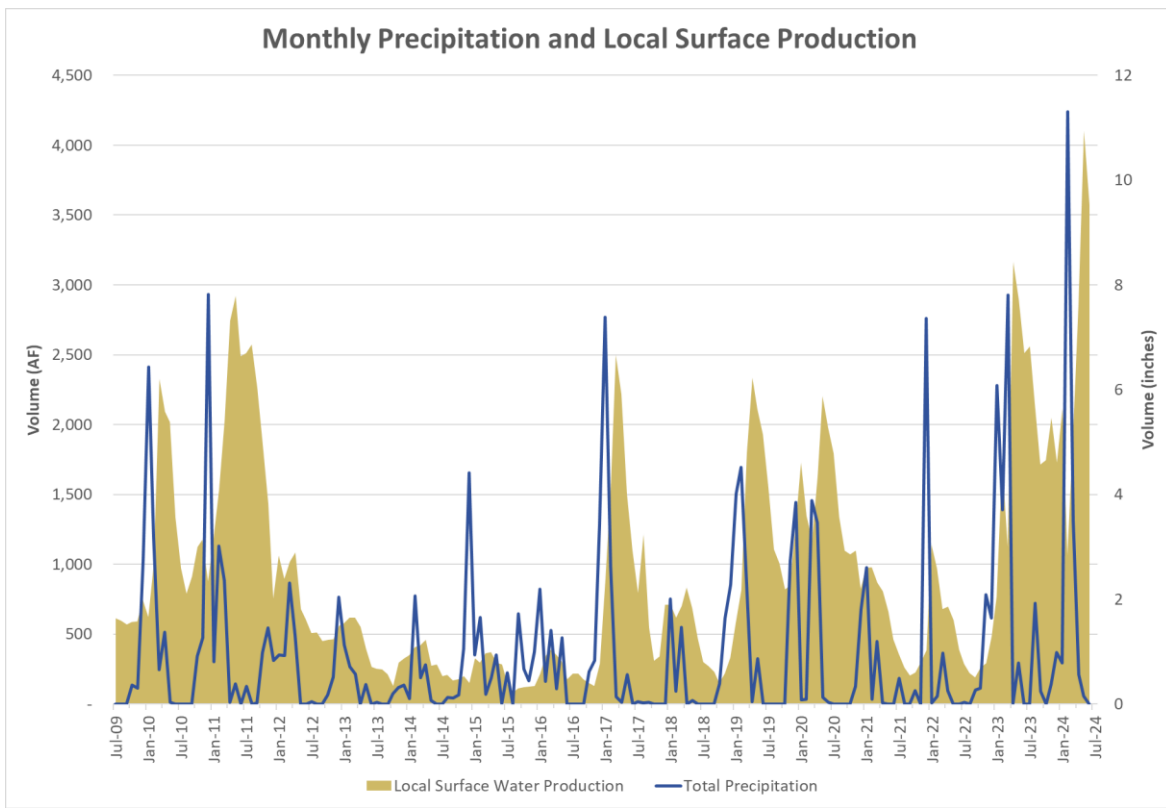
FY 23/24 saw a record amount of surface water production. Total surface water production for FY 23/24 was 27,545 AF which represents approximately 98% increase from last year's surface water production of 13,937 AF.

**Table 6 – Surface Water Production**

Customer Agency	FY 22/23 Surface Water Production (AF)	FY 23/24 Surface Water Production (AF)
CVWD	3,567	5,360
FWC	4,255	12,346
SAWCo	6,115	9,839
<b>Total</b>	<b>13,937</b>	<b>27,545</b>

Analysis of data from the past 15 years demonstrates a correlation between precipitation levels and surface water production.

A trend of note is that there is often a lag between rainfall events and the observed peak water surface water production. This delay is influenced by various factors, including the size of the watershed, local topography, and soil characteristics. These elements collectively affect the rate at which precipitation translates into increased surface water availability.

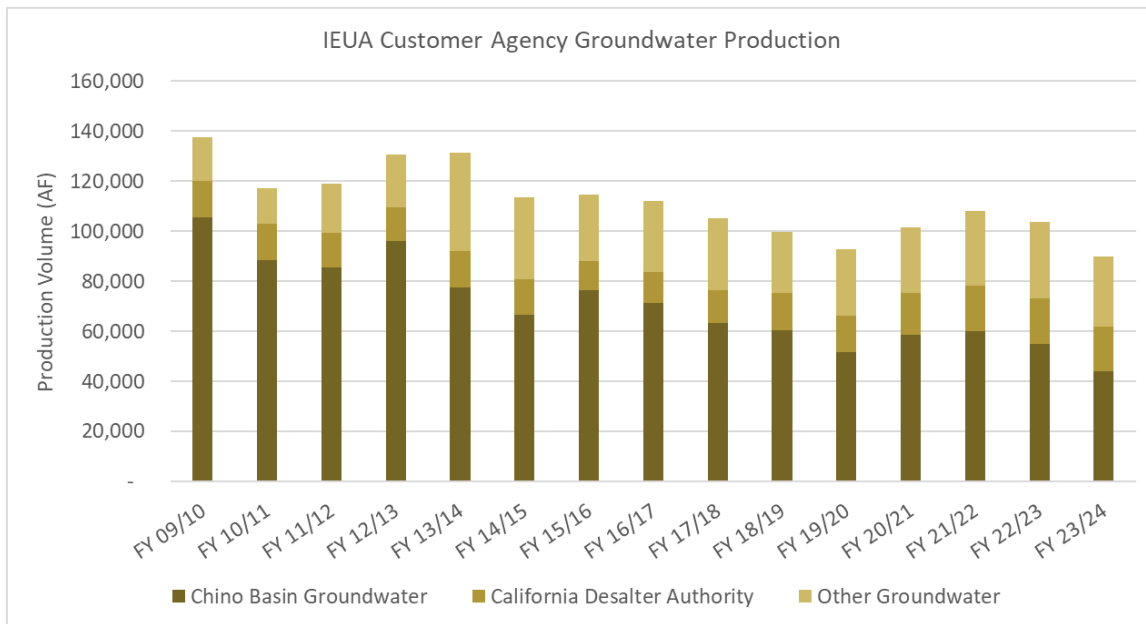


**Figure 7 - Precipitation and Local Water Production Trends in Summer and Winter Months**

## Groundwater Production

IEUA’s service area retail agencies primarily rely on groundwater supplies to meet the majority of their service area water demands. IEUA’s service area largely overlays the Chino Groundwater Basin, which is managed by the Chino Basin Watermaster and provides local groundwater supplies that can be pumped, filtered, and introduced into the region’s water supply. IEUA’s retail agencies have access to pumped groundwater from the Chino Basin either directly from their own wells or through the Chino Desalter Authority for those in the southern part of the service area. Portions of the northern part of the service area has access to neighboring groundwater basins including the Lytle Basin, Cucamonga Basin, and Rialto Basin, collectively identified as “Other Groundwater”.

FY 23/24 saw a reduction in the amount of groundwater production. Total groundwater production by IEUA customer agencies for FY 23/24 was 90,244 AF, which represents an approximately 13% decrease from last year’s groundwater production of 103,819 AF.



**Figure 8 – IEUA Customer Agency Groundwater Production**



## SECTION 4: WASTEWATER

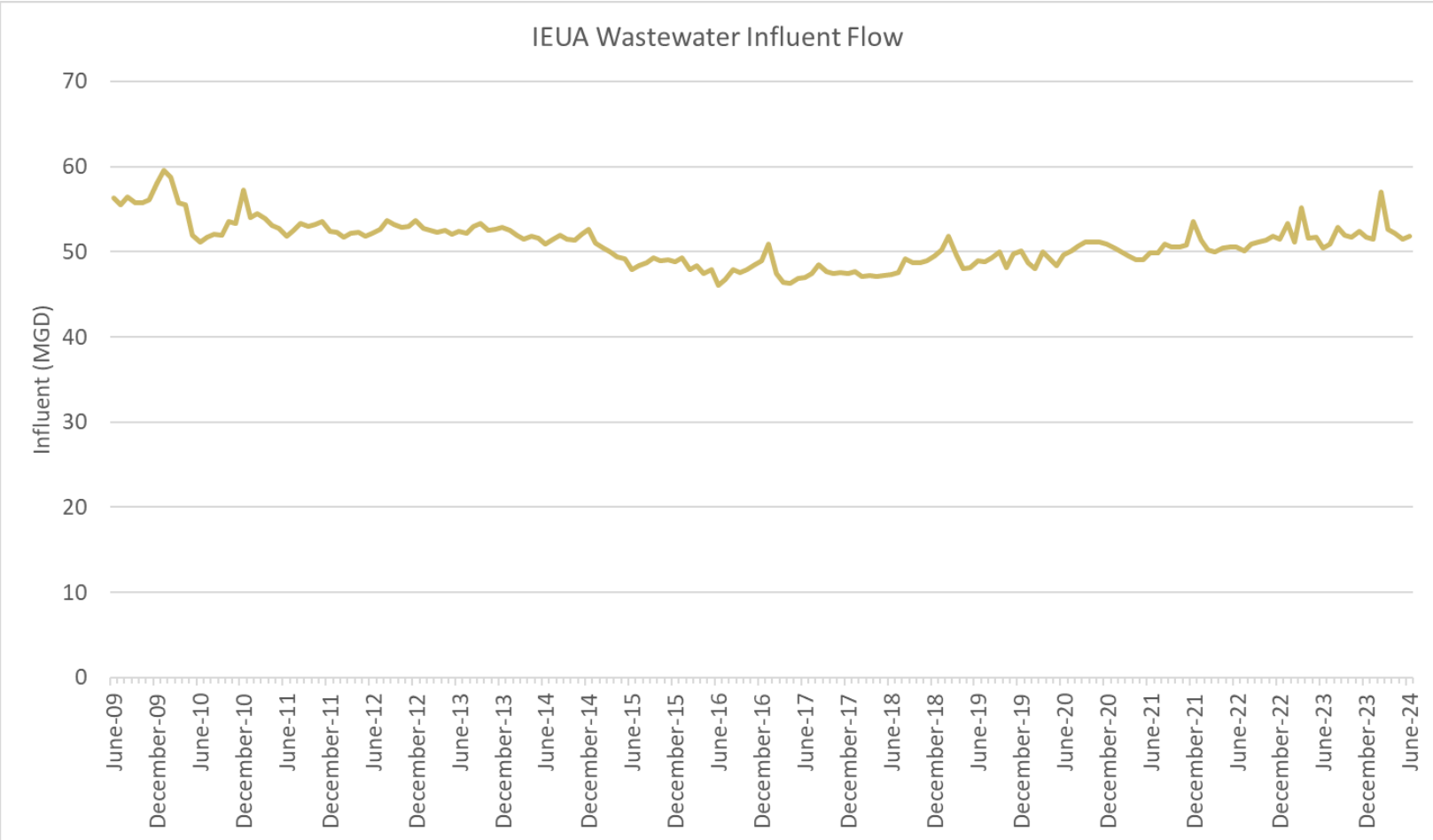
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### Wastewater Influent

Water used indoors is returned to IEUA via a 90-mile sanitary sewer system that transports wastewater to one of four Regional Water Recycling Plants. Over the past decade, the IEUA service area has experienced an increase in indoor water use efficiency as a direct result of drought, shifting public policy, more efficient building and plumbing codes, and effective conservation program campaigns. This increased efficiency had decreased the volume of wastewater flows received by IEUA treatment plants from a peak in 2010 until 2017, when a slight upward trend started. The slow increase in wastewater influent is likely due to the regional population continuing to grow despite reduced per person water use.

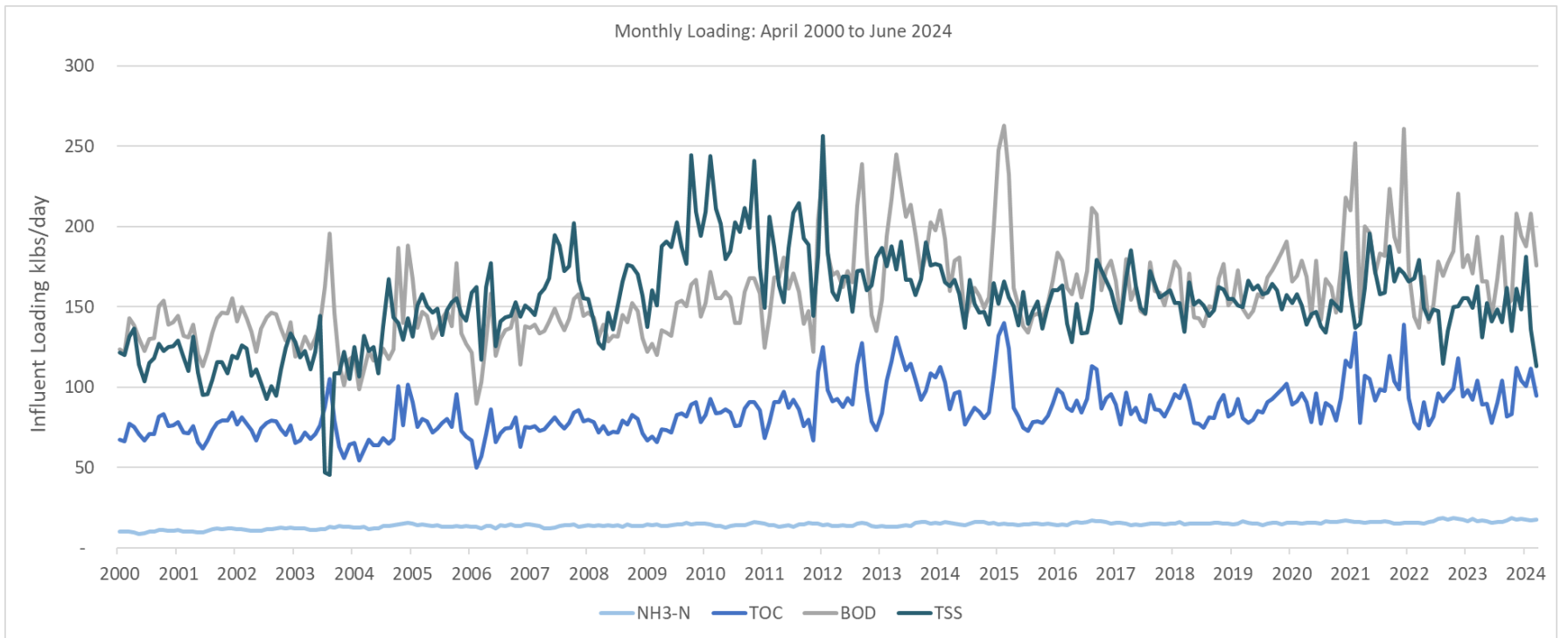
Senate Bill 606 and Assembly Bill 1668, collectively known as “Making Conservation a California Way of Life” were passed by the State Water Board on July 3, 2024. “Making Conservation a California Way of Life” establishes water use objectives for IEUA’s retail water agencies and is expected to further reduce the amount of water used in the State. This additional conservation has the potential to reduce wastewater influent to IEUA’s Regional Water Recycling Plants as it takes the established 55 GPCD indoor water use Standard and reduces it over time to a final value of 42 GPCD in 2030. IEUA’s estimated indoor water use, based on Department of Water Resources data, ranges from 37 to 60 GPCD depending on the customer agency. Agencies at the upper end of the range have the potential to lower indoor usage to comply with the regulation, reducing influent flow to IEUA.

The combination of an increased population but overall reduced wastewater flow per household has resulted in an increase in the strength of the wastewater coming into IEUA’s treatment facilities. This trend of increased wastewater strength is expected to continue as both the population and regional water efficiency standards continue to increase. Current and future wastewater treatment plant expansions are driven by the increased strength of wastewater flows to the facilities, rather than the volume of flows to the facilities.



**Figure 9 – Historical Regional Influent Flows**





**Figure 10 – Influent Loading**

## Wastewater Effluent

At IEUA’s Regional Water Recycling Plants, wastewater is treated to Title 22 recycled water regulations set by the State Division of Drinking Water and distributed for agricultural, municipal irrigation, industrial uses, and for groundwater replenishment. A portion of that recycled water is dechlorinated and used for environmental flows in the Santa Ana River. Environmental flows peak in the winter when demand for recycled water is low and decline in the summer when demands for recycled water increase.

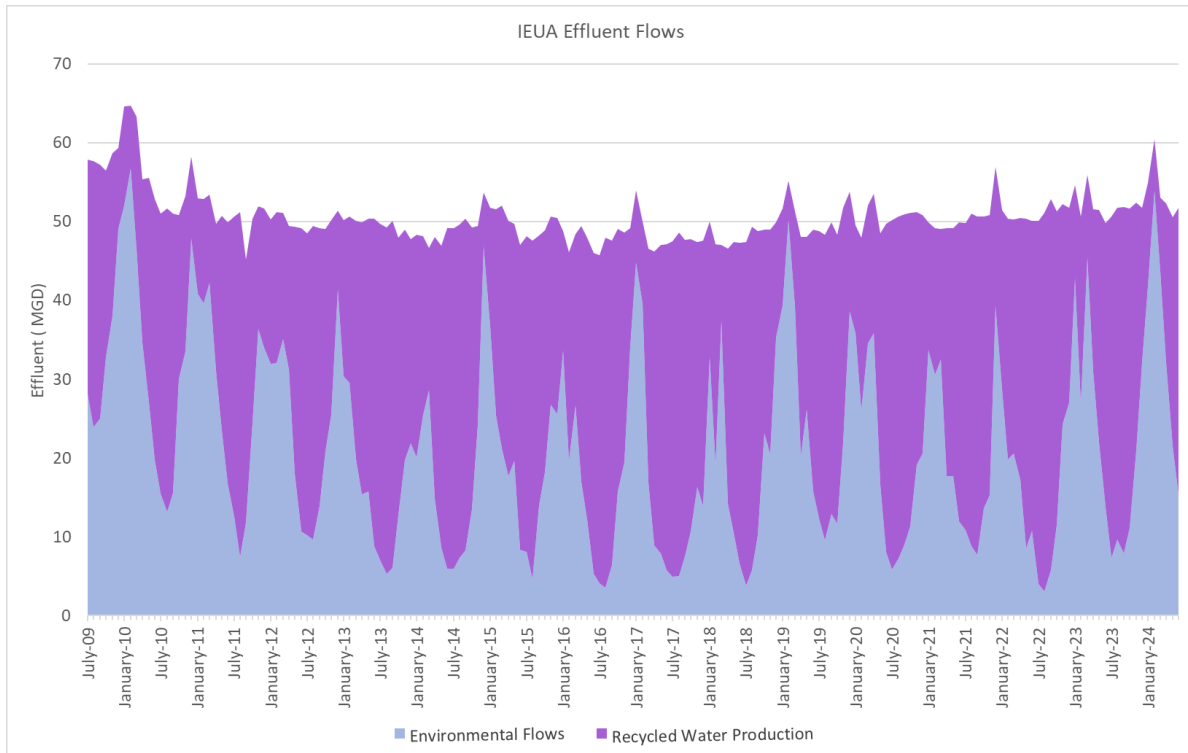


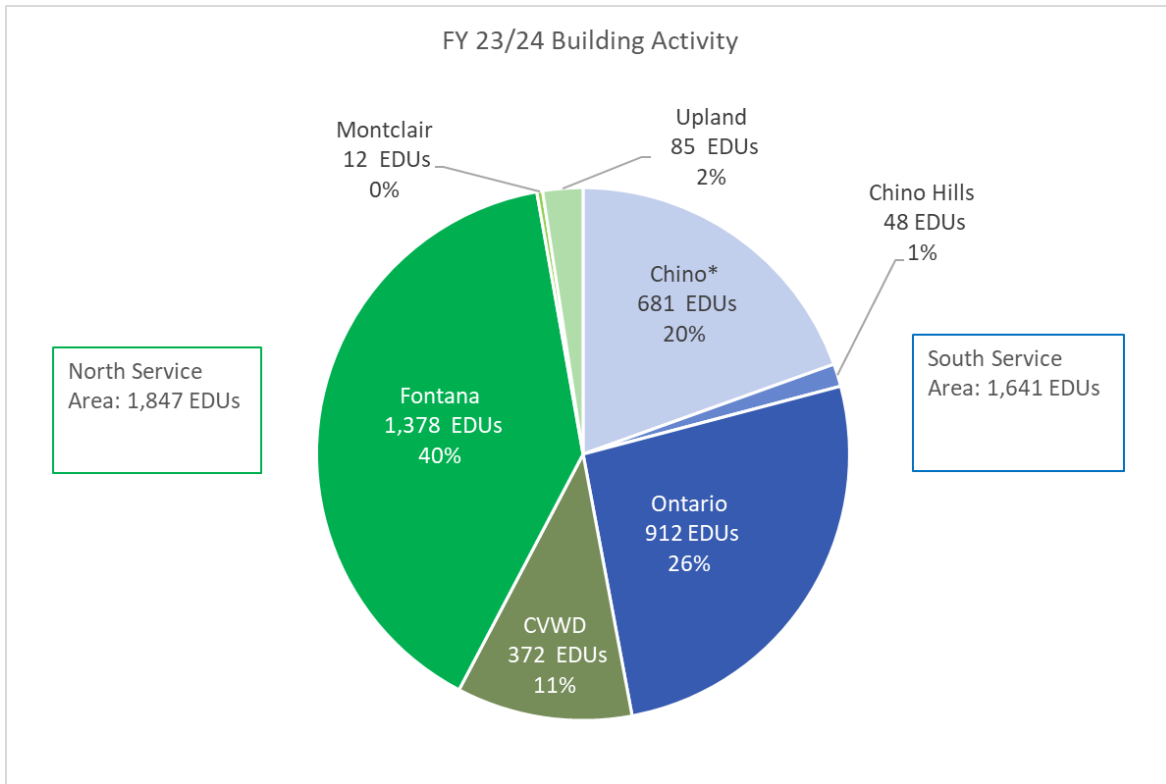
Figure 11 – IEUA Monthly Effluent

## Equivalent Dwelling Units

An Equivalent Dwelling Unit (EDU) is a measure of wastewater flow equivalent in quantity and strength to the daily flow of an average residential household. New EDU connection activity increased in FY 23/24 with the addition of 3,488 connection EDUs to the region. The additional connection EDUs added in FY 23/24 were 4,290 EDUs lower than the SCAs projections of 7,778 EDUs and 512 EDUs less than the IEUA Budgeted Projections of 4,000 connection EDUs. Two sets of projections exist to allow for conservative estimates on both the flow and financial aspects of EDUs. The SCAs provide growth projections, which are considered when determining plant treatment capacity needs. Budgeted projections on the other hand are used by IEUA to project future funding needs and are held conservatively low. Moving forward, IEUA will continue working with the SCAs to improve growth models and enhance projection reliability.

**Table 7 – Historical EDU Activity**

Building Activity for Last Five Fiscal Years (FY 18/19 through FY 23/24)			
Year	Building Activity (EDUs)	Budgeted Projections (EDUs)	SCAs Projections (EDUs)
FY 18/19	3,459	4,000	6,149
FY 19/20	3,435	4,000	6,390
FY 20/21	5,281	4,000	9,013
FY 21/22	4,767	4,000	9,144
FY 22/23	3,494	4,000	8,059
FY 23/24	3,488*	4,000	7,778



**Figure 12 – Building Activity**

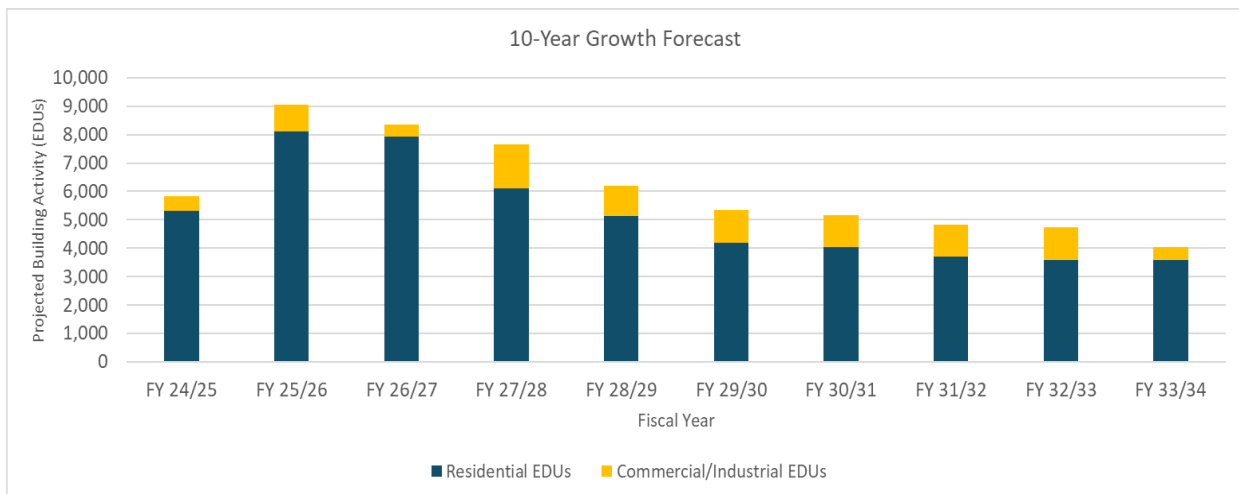
*\*Value is draft and still subject to revision*

## Wastewater Projections

Wastewater flow forecasts are conducted annually and are based on four main components: (1) historical wastewater flow trends; (2) per dwelling unit wastewater generation factors, based on the 2015 Wastewater Facilities Master Plan Update (WWFMPU) projections; (3) actual influent flows measured at the treatment plants; and (4) expected future growth numbers provided by the SCAs. These projections are used to determine future demands on the Agency’s facilities and help anticipate the need for modifications to treatment plants and solids handling facilities.

The WWFMPU identified the projected flows to the treatment plants in 2035 through 2060. The WWFMPU estimates that there will be a regional flow of 73.5 MGD by 2035 and an ultimate/build-out flow of 80 MGD by 2060. The increase in flows implies that there will be facility expansions over the next 20 years.

Each year, IEUA and the SCA’s update the 10-year demand forecast. The results of the 10-year capacity demand forecast survey are summarized in Figure 13 below. Approximately 63% of the projected growth over the next ten years is anticipated to be from new development in the City of Ontario and City of Fontana service areas; building activity is projected to be approximately 84% residential and 16% commercial/industrial.



**Figure 13 – 10-Year Growth Forecast**



## SECTION 5: RECYCLED WATER

### Current Recycled Water Use

Total recycled water use in FY 23/24 was 30,455 AF (16,604 AF of direct use and 13,851 AF for groundwater recharge). This high recycled water utilization can at least partially be attributed to the San Bernardino Avenue Lift Station and the Montclair Lift Station. The Montclair Lift Station pumps wastewater from portions of Montclair, Upland, and Chino to IEUA’s RP-1 and CCWRF treatment plants. The San Bernardino Ave Pump Station pumps a portion of the flow from the City of Fontana to IEUA’s RP-4 treatment plant. Together, these lift stations help shift flows that would naturally flow from one portion of the service area to a different treatment plant to balance flows and keep water in the northern portion of the service area. This shift in flows allows IEUA to maximize the potential for recycled water use, especially as the majority of recycled water groundwater recharge activity occurs in the northern portion of the service area. These lift stations also increase regional system flexibility and allow the treatment plants to operate as an interconnected system.

### Recycled Water Direct Use

IEUA is the wholesale recycled water provider to the SCAs which work as or with retail agencies to directly serve customers. FWC and MVWD are the water retailers in the Cities of Fontana and Montclair, respectively, but do not provide wastewater to IEUA. FWC and MVWD retail recycled water obtained from their overlying cities. San Bernardino County is currently a direct use customer of IEUA based on long standing historical contracts. Total recycled water direct use within the region was 16,604 AF in FY 23/24.

**Table 8 – Recycled Water Demand by Agency for FY 23/24**

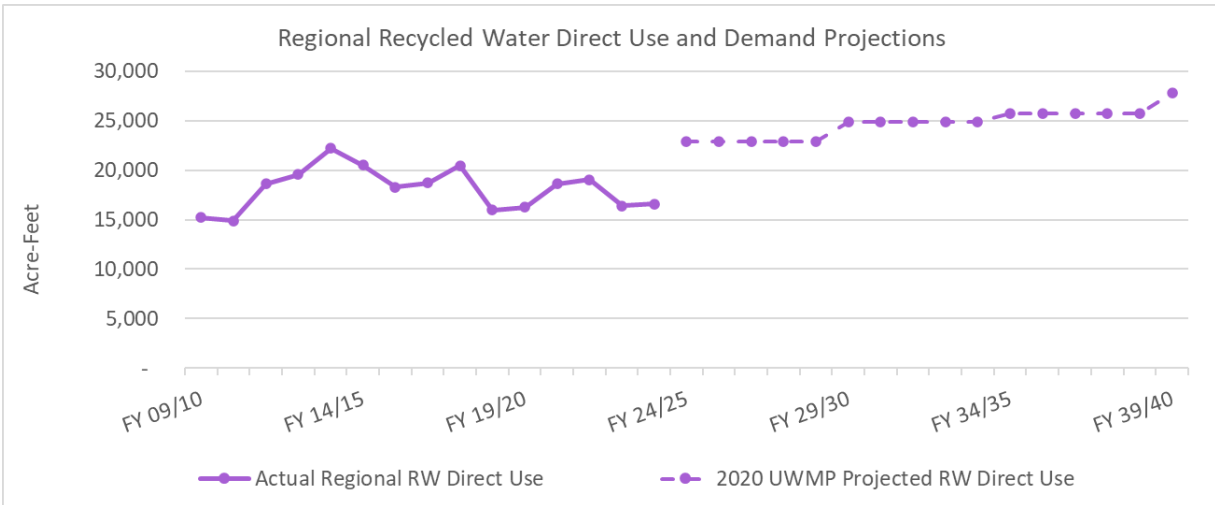
Retail Agency	Direct Use (AF)	Percent of Direct Demand
Chino	3,970	23.9%
Chino Hills	992	6.0%
CVWD	1,014	6.1%
Fontana/FWC	293	1.8%
Montclair/MVWD	264	1.6%
Ontario	9,180	55.3%
Upland	525	3.2%
IEUA	155	0.9%
San Bernardino County	211	1.3%
<b>Total</b>	<b>16,604</b>	<b>100%</b>

## Recycled Water Direct Use Projections

Direct recycled water use in the IEUA service area has been projected out to 2040 in both the 2020 UWMP and as part of the Recycled Water Demand Forecast Technical Memorandum (Demand Forecast). The 2020 UWMP recycled water projections were supplied by the retail agencies to IEUA as part of the 2020 UWMP. The Demand Forecast recycled water projections utilized land use-based demand modeling completed by IEUA in conjunction with the retail agencies in 2015 and were subsequently updated in 2021. Projections for recycled water direct use will be revised as part of IEUA’s Recycled Water Program Strategy update.

**Table 9 – Projected Recycled Water Direct Use Demand by Retail Agency (AF)**

<b>Retail Agency</b>	<b>Projection Source</b>	<b>2025</b>	<b>2030</b>	<b>2035</b>	<b>2040</b>
Chino	2020 UWMP	4,500	4,500	4,000	3,800
	Demand Forecast	5,498	5,780	5,961	6,178
Chino Hills	2020 UWMP	1,609	1,609	1,609	1,609
	Demand Forecast	1,858	2,047	2,047	2,626
CVWD	2020 UWMP	1,800	2,000	2,000	2,000
	Demand Forecast	2,032	2,288	2,513	2,674
FWC	2020 UWMP	1,000	1,500	2,000	2,500
	Demand Forecast	994	1,392	1,911	2,000
MVWD	2020 UWMP	1,100	1,100	1,100	1,100
	Demand Forecast	359	363	396	398
Ontario	2020 UWMP	12,168	13,465	14,330	16,059
	Demand Forecast	9,188	10,383	10,814	12,820
Upland	2020 UWMP	703	703	703	703
	Demand Forecast	940	1,022	1,062	1,158
<b>Total</b>	<b>2020 UWMP</b>	<b>22,880</b>	<b>24,877</b>	<b>25,742</b>	<b>27,771</b>
	<b>Demand Forecast</b>	<b>20,869</b>	<b>23,275</b>	<b>24,704</b>	<b>27,854</b>



**Figure 14 – FY 23/24 Recycled Water Direct Use and Projections**

### Recycled Water Groundwater Recharge

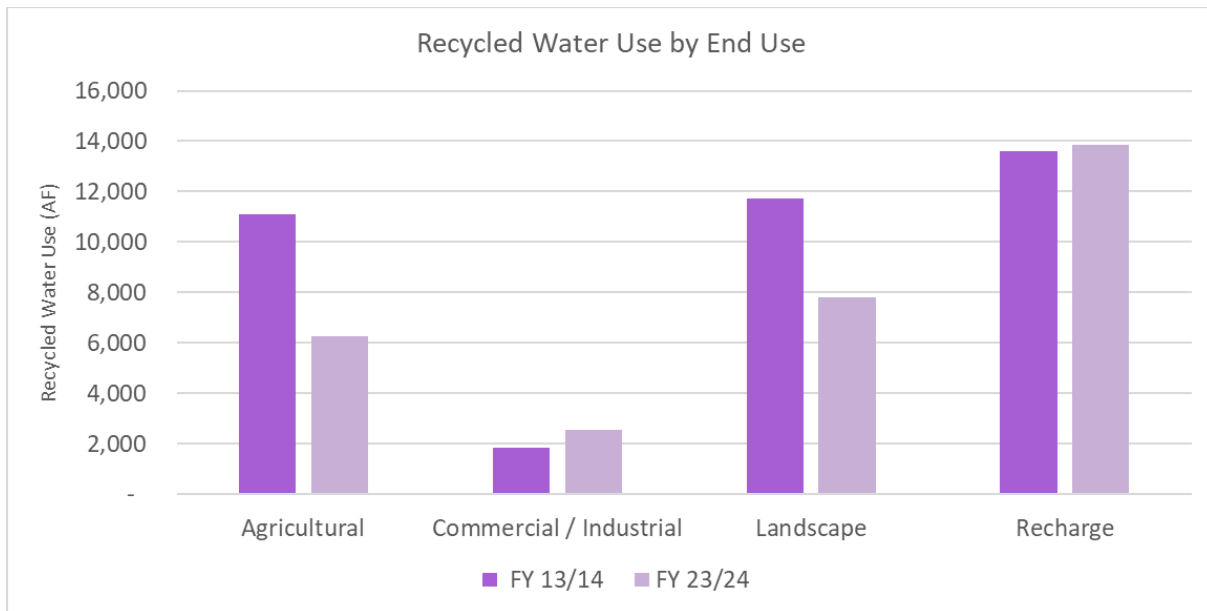
Other than direct use, recycled water is also used as a supply to recharge the Chino Groundwater Basin. Recycled water groundwater recharge deliveries were 13,851 AF in FY 23/24, down 6.3% from FY 22/23 recycled water groundwater recharge deliveries of 14,785 AF. Recycled water groundwater recharge volumes were lower during the year primarily due to heavy precipitation. Stormwater groundwater recharge takes priority over recycled water supplies, so frequent and heavy rainfall fills the recharge basins with stormwater instead of recycled water supplies. Stormwater is prioritized due to the basins’ primary function to prevent flooding in the event of heavy precipitation. Recycled water is recharged by IEUA on behalf of its SCAs and retail water agencies. Details about groundwater recharge can be found in Section 6 below.

**Table 10 – FY 23/24 Recycled Groundwater Recharge Deliveries by Agency**

Retail Agency	Recycled Water Recharge (AF)
Chino	1,523
Chino Hills	1,198
CVWD	3,254
Fontana/FWC	2,751
Montclair/MVWD	561
Ontario	3,298
Upland	1,266
<b>Total</b>	<b>13,851</b>

## Recycled Water Land Use Change

Of the ways in which recycled water beneficial use is maximized within the region has changed as the Inland Empire has developed. In FY 13/14, recycled water utilization hit its peak at 38,251 AF with agriculture using 29%, landscape irrigation using 31%, groundwater recharge using 36%, and commercial, industrial, and construction using 5%. Ten years later, in FY 23/24, total recycled water utilization was 30,455 AF, with agriculture using 21%, landscape irrigation using 26%, groundwater recharge using 45%, and commercial, industrial, and construction using 8%. The shift away from agricultural and towards groundwater recharge is due to the rapid development of what was previously farmland within the region. Shrinking agricultural needs and increasingly efficient landscaping has provided the opportunity to expand the groundwater recharge program, supplementing local water supplies through indirect potable reuse.



**Figure 15 – Recycled Use Water by End Use**





## SECTION 6: GROUNDWATER RECHARGE DELIVERIES

### Historical Groundwater Recharge Deliveries

The Chino Basin is one of the largest groundwater basins in Southern California containing approximately 5,000,000 AF of water with an un-used storage capacity of approximately 1,000,000 AF. Groundwater from the Chino Basin accounted for approximately 25% of FY 23/24, regional water supplies used. The Chino Basin is an adjudicated basin and has been overseen by the Chino Basin Watermaster (CBWM) since 1978. The basin is dependent on rainfall and supplemental sources for recharge.

IEUA, in coordination with CBWM, the Chino Basin Water Conservation District (CBWCD), and San Bernardino County Flood Control District (SBCFCD) capture water for replenishment. Sources include recycled water from IEUA's regional water recycling plants, stormwater and dry weather flow capture, and imported water recharge.

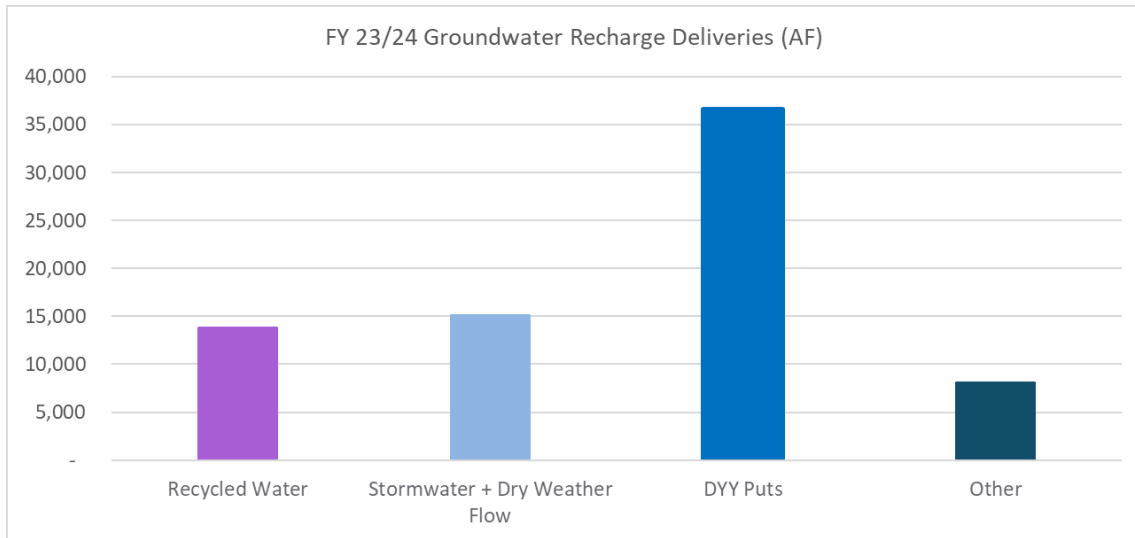
Recharged imported water is either purchased by a local agency, requested by the Chino Basin Watermaster to maintain safe operating yield of the basin, or stored as part of the Chino Basin Dry-Year Yield (DYY) Program. Total groundwater recharge delivered to the Chino Basin in FY 22/23 was 73,729 AF. Groundwater recharge deliveries are water delivered to recharge facilities and do not take into consideration evaporative or other losses that may occur prior to recharge.

**Table 11 – FY 23/24 Groundwater Recharge Sources**

Groundwater Recharge Source	Recharge (AF)
Recycled Water	13,851
Stormwater & Dry Weather Flow	15,141
Imported Water	44,737
<i>DYY Puts*</i>	36,674
<i>Other**</i>	8,063
<b>Total</b>	<b>73,729</b>

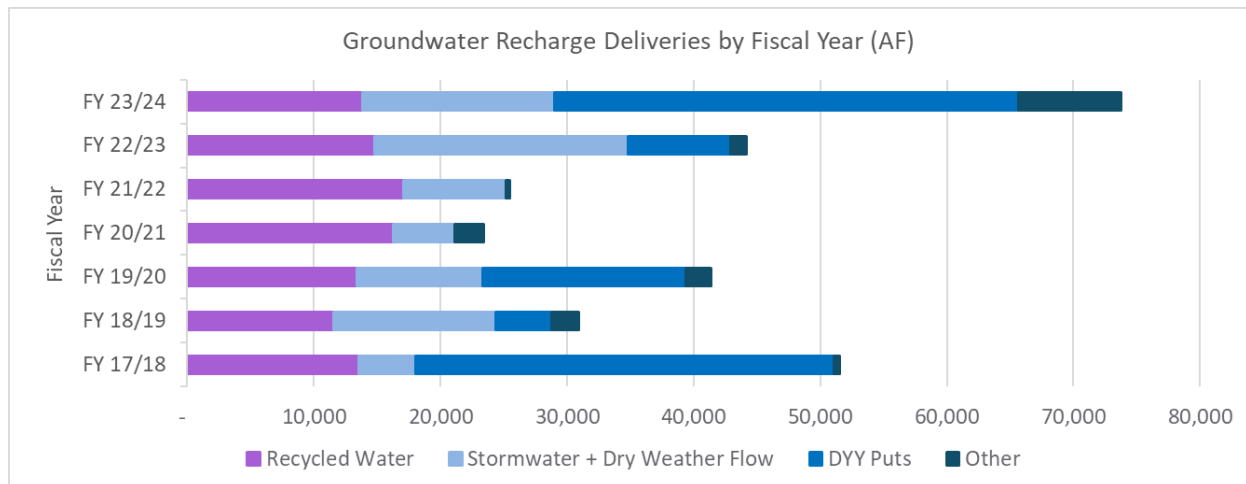
*\*DYY Puts Exclude aquifer storage and recovery and In-Lieu*

*\*\* Supplies recharged that were delivered from outside IEUA's service area not including IEUA purchases. Includes water recharged on behalf of CVWD, SAWCo, Three Valley Municipal Water District, and Western Municipal Water District.*



**Figure 16 – FY 22/23 Groundwater Recharge Deliveries**

FY 23/24 saw a large increase in recharge due to the DYY program, which experienced a full fiscal year of recharge activities. Heavy winter rainfall and the resulting stormwater flows also added significantly to the recharge program. Other recharge activity for the year was higher than normal and included IEUA recharging not only on behalf of CVWD and SAWCo, but Three Valley Municipal Water District, and Western Municipal Water District as well.



**Figure 17 – Historical Groundwater Recharge Deliveries**

### Projected Groundwater Recharge Deliveries

It is projected that future groundwater recharge delivery projections will remain at an estimated 16,420 AF per year of recycled water as outlined in the Chino Basin Watermaster’s 2023 Recharge Master Plan Update. Due to the unpredictability of storm events and variability of imported water for groundwater recharge in the IEUA region, the five-year average was taken to determine

the projected recharge of stormwater and dry weather flows as well as imported water. Table 12 below shows the projected recharge for recycled water, stormwater and dry weather flows, and imported water. The imported groundwater projections do not include DYY program values.

**Table 12 – Projected Groundwater Recharge Deliveries by Source**

Groundwater Recharge Source	Projected Groundwater Recharge (AF)
Recycled Water	16,420
Stormwater + Dry Weather Flow	11,631
Imported Water (No DYY)	2,737
<b>Total</b>	<b>30,788</b>



## SECTION 7: ENVIRONMENTAL FLOWS

### Santa Ana River Regional Base Flow Obligation

The Santa Ana River has a regional base flow obligation established by past judgment. The base flow obligation is a joint obligation between IEUA and Western Municipal Water District (Western) to ensure an average annual adjusted base flow of 42,000 AF at Prado(Dam). The base flow is the portion of the total flow remaining after subtracting storm flow, non-tributary flow, exchange water purchased by Orange County Water District, and other flows as determined by the Santa Ana River Watermaster. IEUA and Western each year shall be responsible for not less than 37,000 AF of base flow at Prado, plus one-third of any cumulative debit; provided however, that for any year commencing on or after October 1, 1986, when there is no cumulative debit, or any year prior to 1986 whenever the cumulative credit exceeds 30,000 AF, said minimum shall be 34,000 AF. In Water Year (WY) 2022/2023, base flow at Prado Dam was 89,199 AF and the cumulative credit was 3,896,258 AF. More information about the Santa Ana River baseflow obligation can be found in the Santa Ana River Watermaster Annual Report.

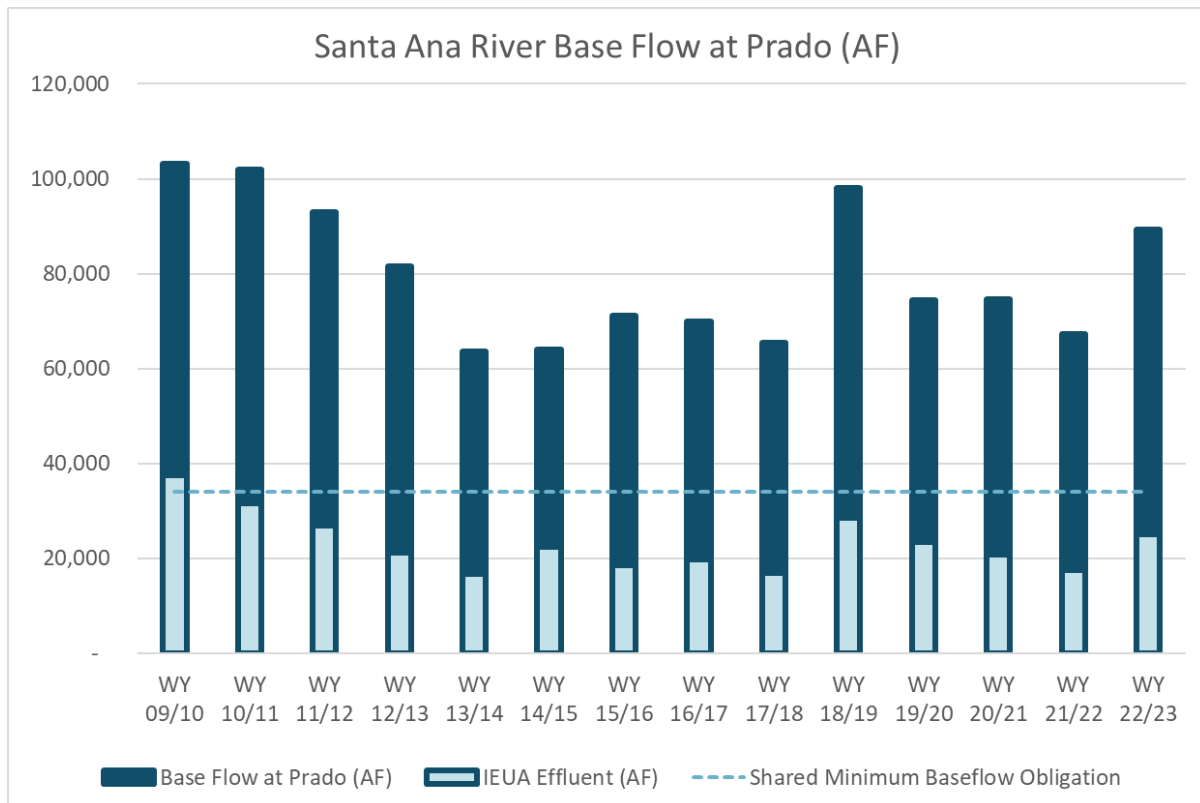


Figure 18 – Santa Ana River Base Flow at Prado

## **APPENDIX A: ACRONYMS**

**AF: Acre Feet**

**ASR: Aquifer Storage and Recovery**

**CBWCD: Chino Basin Water Conservation District**

**CBWM: Chino Basin Water Master**

**CDA: California Desalter Authority**

**CVWD: Cucamonga Valley Water District**

**DYY: Dry Year Yield Program**

**EDU: Equivalent Dwelling Unit**

**FWC: Fontana Water Company**

**IEUA: Inland Empire Utilities Agency**

**IRP: 2015 Integrated Resource Plan**

**MEUs: Meter Equivalent Units**

**MGD: Million Gallons per Day**

**MVWD: Monte Vista Water District**

**MWD: Metropolitan Water District of Southern California**

**SPAR: Strategic Planning Annual Report**

**SCAs: Sewer Contracting Agencies**

**SAR: Santa Ana River**

**SAWCo: San Antonio Water Company**

**SBCFCD: San Bernardino County Flood Control District**

**UWMP: Urban Water Management Plan**

**WVMWD: West Valley Municipal Water District**

**WWFMPU: 2015 Wastewater Facilities Master Plan Update**

**APPENDIX B: WATER USE TABLES**

		Total IEUA Service Area Water Use By All Member Agencies (Acre Feet)										FY 23/24		
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	4,908	6,050	5,463	4,533	3,296	2,677	1,828	2,103	2,774	2,001	2,563	2,955	41,151
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	2,189	2,699	2,315	1,980	1,638	1,122	625	301	297	590	1,124	1,726	16,604
	<b>Subtotal</b>	<b>7,097</b>	<b>8,748</b>	<b>7,778</b>	<b>6,513</b>	<b>4,934</b>	<b>3,800</b>	<b>2,453</b>	<b>2,403</b>	<b>3,071</b>	<b>2,590</b>	<b>3,687</b>	<b>4,681</b>	<b>57,756</b>
Production	Chino Groundwater	5,240	3,904	3,580	4,744	3,919	3,887	3,411	2,268	1,996	2,651	3,626	4,840	44,065
	Other Groundwater	3,830	3,497	2,812	2,008	1,632	1,702	1,408	1,740	1,909	1,847	2,324	3,284	27,994
	Local Surface Water	2,559	2,148	1,713	1,744	2,050	1,727	2,117	1,066	1,897	2,857	4,099	3,568	27,545
	<b>Subtotal</b>	<b>11,629</b>	<b>9,550</b>	<b>8,106</b>	<b>8,496</b>	<b>7,601</b>	<b>7,315</b>	<b>6,937</b>	<b>5,074</b>	<b>5,801</b>	<b>7,355</b>	<b>10,049</b>	<b>11,692</b>	<b>99,604</b>
Purchases	CDA	1,703	1,683	1,636	1,646	1,582	1,272	1,342	1,180	1,529	1,606	1,574	1,433	18,185
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	379	435	419	368	232	191	10	67	11	25	461	518	3,115
	SAWCo	1,285	1,178	806	729	602	646	521	306	466	557	708	899	8,704
	SBVMWD	343	370	374	383	374	365	47	26	91	131	-	13	2,518
	West End	88	91	298	332	346	190	95	95	122	100	162	175	2,093
	<b>Subtotal</b>	<b>3,797</b>	<b>3,757</b>	<b>3,533</b>	<b>3,458</b>	<b>3,137</b>	<b>2,665</b>	<b>2,015</b>	<b>1,673</b>	<b>2,219</b>	<b>2,420</b>	<b>2,904</b>	<b>3,038</b>	<b>34,615</b>
Sales	Chino Hills	(629)	(609)	(594)	(543)	(407)	(366)	(185)	(117)	(136)	(165)	(461)	(518)	(4,728)
	Ontario	(44)	(44)	(42)	(46)	(39)	(42)	(34)	(33)	(41)	(36)	(41)	(44)	(485)
	MVWD	(50)	(49)	(48)	(52)	(44)	(47)	(38)	(37)	(46)	(40)	(46)	(129)	(626)
	Upland	(1,241)	(1,135)	(762)	(639)	(563)	(605)	(526)	(280)	(482)	(529)	(688)	(855)	(8,304)
	<b>Subtotal</b>	<b>(1,963)</b>	<b>(1,836)</b>	<b>(1,447)</b>	<b>(1,279)</b>	<b>(1,053)</b>	<b>(1,059)</b>	<b>(783)</b>	<b>(466)</b>	<b>(704)</b>	<b>(771)</b>	<b>(1,236)</b>	<b>(1,546)</b>	<b>(14,144)</b>
<b>Total</b>		<b>20,560</b>	<b>20,219</b>	<b>17,970</b>	<b>17,188</b>	<b>14,618</b>	<b>12,720</b>	<b>10,621</b>	<b>8,684</b>	<b>10,388</b>	<b>11,594</b>	<b>15,405</b>	<b>17,865</b>	<b>177,831</b>



		Total IEUA Service Area Water Use By Chino (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	482	475	462	346	231	179	167	88	101	122	217	285	3,156
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	513	753	498	671	508	230	108	37	27	105	201	319	3,970
	<b>Subtotal</b>	<b>994</b>	<b>1,228</b>	<b>960</b>	<b>1,017</b>	<b>739</b>	<b>409</b>	<b>275</b>	<b>125</b>	<b>128</b>	<b>227</b>	<b>419</b>	<b>604</b>	<b>7,126</b>
Production	Chino Groundwater	642	575	437	518	482	465	390	349	365	411	579	643	5,858
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>642</b>	<b>575</b>	<b>437</b>	<b>518</b>	<b>482</b>	<b>465</b>	<b>390</b>	<b>349</b>	<b>365</b>	<b>411</b>	<b>579</b>	<b>643</b>	<b>5,858</b>
Purchases	CDA	456	460	474	458	443	279	389	322	427	462	442	456	5,066
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>456</b>	<b>460</b>	<b>474</b>	<b>458</b>	<b>443</b>	<b>279</b>	<b>389</b>	<b>322</b>	<b>427</b>	<b>462</b>	<b>442</b>	<b>456</b>	<b>5,066</b>
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>		<b>2,092</b>	<b>2,263</b>	<b>1,871</b>	<b>1,994</b>	<b>1,664</b>	<b>1,153</b>	<b>1,055</b>	<b>795</b>	<b>920</b>	<b>1,101</b>	<b>1,439</b>	<b>1,704</b>	<b>18,050</b>

		Total IEUA Service Area Water Use By Chino Hills (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	200	200	120	100	90	90	100	100	100	100	100	200	1,500
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	124	175	137	116	100	63	24	10	9	20	83	131	992
Subtotal		324	375	257	216	190	153	124	110	109	120	183	331	2,492
Production	Chino Groundwater	250	174	175	175	175	175	175	50	125	140	-	-	1,614
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		250	174	175	175	175	175	175	50	125	140	-	-	1,614
Purchases	CDA	449	392	383	387	374	327	323	271	360	385	388	400	4,438
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	379	435	419	368	232	191	10	67	11	25	461	518	3,115
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		827	827	802	754	607	518	333	337	371	410	849	918	7,553
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>1,401</b>	<b>1,375</b>	<b>1,234</b>	<b>1,145</b>	<b>972</b>	<b>846</b>	<b>632</b>	<b>497</b>	<b>605</b>	<b>669</b>	<b>1,032</b>	<b>1,249</b>	<b>11,658</b>

		Total IEUA Service Area Water Use By CVWD (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	2,289	2,425	1,916	1,384	927	478	-	668	942	886	942	999	13,855
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	143	126	114	101	92	54	35	13	34	56	121	126	1,014
Subtotal		2,432	2,550	2,030	1,485	1,019	532	35	681	976	942	1,063	1,125	14,869
Production	Chino Groundwater	1,067	932	1,037	1,397	1,265	1,450	1,253	411	226	589	1,090	1,904	12,622
	Other Groundwater	580	451	394	379	479	502	596	593	661	643	667	641	6,587
	Local Surface Water	630	544	473	481	484	316	436	92	269	367	672	598	5,360
Subtotal		2,277	1,927	1,905	2,257	2,228	2,268	2,284	1,096	1,156	1,600	2,429	3,143	24,569
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>4,709</b>	<b>4,477</b>	<b>3,934</b>	<b>3,742</b>	<b>3,247</b>	<b>2,800</b>	<b>2,319</b>	<b>1,777</b>	<b>2,132</b>	<b>2,542</b>	<b>3,493</b>	<b>4,268</b>	<b>39,438</b>

		Total IEUA Service Area Water Use By FWC (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	211	576	699	664	707	776	847	637	934	124	0	-	6,175
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	54	43	37	29	20	13	6	1	3	11	30	45	293
	<b>Subtotal</b>	<b>265</b>	<b>619</b>	<b>736</b>	<b>693</b>	<b>727</b>	<b>789</b>	<b>853</b>	<b>639</b>	<b>936</b>	<b>135</b>	<b>30</b>	<b>45</b>	<b>6,469</b>
Production	Chino Groundwater	495	217	358	928	335	85	50	221	61	54	20	37	2,862
	Other Groundwater	1,956	1,790	1,639	899	633	548	275	557	619	585	761	1,591	11,854
	Local Surface Water	903	769	381	473	969	913	1,171	392	645	1,435	2,326	1,970	12,346
	<b>Subtotal</b>	<b>3,353</b>	<b>2,777</b>	<b>2,379</b>	<b>2,300</b>	<b>1,937</b>	<b>1,546</b>	<b>1,496</b>	<b>1,170</b>	<b>1,326</b>	<b>2,074</b>	<b>3,107</b>	<b>3,598</b>	<b>27,063</b>
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	343	370	374	383	374	365	47	26	91	131	-	13	2,518
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>343</b>	<b>370</b>	<b>374</b>	<b>383</b>	<b>374</b>	<b>365</b>	<b>47</b>	<b>26</b>	<b>91</b>	<b>131</b>	<b>-</b>	<b>13</b>	<b>2,518</b>
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>3,961</b>	<b>3,766</b>	<b>3,489</b>	<b>3,377</b>	<b>3,038</b>	<b>2,700</b>	<b>2,395</b>	<b>1,834</b>	<b>2,354</b>	<b>2,341</b>	<b>3,137</b>	<b>3,656</b>	<b>36,049</b>	

		Total IEUA Service Area Water Use By MVWD (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	452	1,249	1,197	1,136	718	572	273	219	275	276	458	457	7,280
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	46	45	28	30	24	20	5	3	5	12	19	26	264
	<b>Subtotal</b>	<b>497</b>	<b>1,294</b>	<b>1,226</b>	<b>1,166</b>	<b>741</b>	<b>592</b>	<b>278</b>	<b>222</b>	<b>279</b>	<b>288</b>	<b>476</b>	<b>483</b>	<b>7,543</b>
Production	Chino Groundwater	1,003	174	160	185	344	419	455	321	314	373	595	541	4,887
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>1,003</b>	<b>174</b>	<b>160</b>	<b>185</b>	<b>344</b>	<b>419</b>	<b>455</b>	<b>321</b>	<b>314</b>	<b>373</b>	<b>595</b>	<b>541</b>	<b>4,887</b>
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Sales	Chino Hills	(629)	(609)	(594)	(543)	(407)	(366)	(185)	(117)	(136)	(165)	(461)	(518)	(4,728)
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>(629)</b>	<b>(609)</b>	<b>(594)</b>	<b>(543)</b>	<b>(407)</b>	<b>(366)</b>	<b>(185)</b>	<b>(117)</b>	<b>(136)</b>	<b>(165)</b>	<b>(461)</b>	<b>(518)</b>	<b>(4,728)</b>
<b>Total</b>		<b>872</b>	<b>859</b>	<b>792</b>	<b>809</b>	<b>678</b>	<b>646</b>	<b>548</b>	<b>427</b>	<b>458</b>	<b>496</b>	<b>611</b>	<b>507</b>	<b>7,702</b>

		Total IEUA Service Area Water Use By Ontario											(Acre Feet)		FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total		
Purchases from IEUA	MWD Imported Water - Tier 1	756	606	552	510	381	339	259	217	239	297	626	723	5,505		
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Recycled (Direct Use)	1,180	1,427	1,400	957	820	690	416	214	193	339	587	956	9,180		
	<b>Subtotal</b>	<b>1,936</b>	<b>2,033</b>	<b>1,952</b>	<b>1,467</b>	<b>1,201</b>	<b>1,029</b>	<b>675</b>	<b>431</b>	<b>432</b>	<b>636</b>	<b>1,213</b>	<b>1,678</b>	<b>14,684</b>		
Production	Chino Groundwater	1,620	1,682	1,353	1,382	1,206	1,116	950	813	803	948	1,171	1,459	14,502		
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-		
	<b>Subtotal</b>	<b>1,620</b>	<b>1,682</b>	<b>1,353</b>	<b>1,382</b>	<b>1,206</b>	<b>1,116</b>	<b>950</b>	<b>813</b>	<b>803</b>	<b>948</b>	<b>1,171</b>	<b>1,459</b>	<b>14,502</b>		
Purchases	CDA	798	831	779	801	765	666	630	587	742	760	745	577	8,680		
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-		
	SAWCo	44	44	42	46	39	42	34	33	41	36	41	44	485		
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-		
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-		
	<b>Subtotal</b>	<b>842</b>	<b>875</b>	<b>821</b>	<b>847</b>	<b>803</b>	<b>708</b>	<b>664</b>	<b>620</b>	<b>782</b>	<b>795</b>	<b>785</b>	<b>622</b>	<b>9,165</b>		
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-		
	<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>		
<b>Total</b>	<b>4,398</b>	<b>4,589</b>	<b>4,127</b>	<b>3,695</b>	<b>3,211</b>	<b>2,853</b>	<b>2,289</b>	<b>1,864</b>	<b>2,018</b>	<b>2,379</b>	<b>3,169</b>	<b>3,759</b>	<b>38,352</b>			

		Total IEUA Service Area Water Use By SAWCo (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	-	-	-	-	-	-	-	-	-	-	-	-	-
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
Production	Chino Groundwater	0	0	1	0	1	-	0	1	-	0	0	100	<b>104</b>
	Other Groundwater	1,179	1,117	676	617	411	546	436	479	522	515	695	870	<b>8,062</b>
	Local Surface Water	1,027	835	859	790	597	498	511	582	983	1,055	1,101	1,001	<b>9,839</b>
	<b>Subtotal</b>	<b>2,205</b>	<b>1,953</b>	<b>1,536</b>	<b>1,408</b>	<b>1,009</b>	<b>1,044</b>	<b>947</b>	<b>1,062</b>	<b>1,505</b>	<b>1,570</b>	<b>1,796</b>	<b>1,971</b>	<b>18,005</b>
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	-	-	-	-	-	-	-	-	-	-	-	-	-
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	(44)	(44)	(42)	(46)	(39)	(42)	(34)	(33)	(41)	(36)	(41)	(44)	<b>(485)</b>
	MVWD	(50)	(49)	(48)	(52)	(44)	(47)	(38)	(37)	(46)	(40)	(46)	(129)	<b>(626)</b>
	Upland	(1,241)	(1,135)	(762)	(639)	(563)	(605)	(526)	(280)	(482)	(529)	(688)	(855)	<b>(8,304)</b>
	<b>Subtotal</b>	<b>(1,335)</b>	<b>(1,227)</b>	<b>(853)</b>	<b>(737)</b>	<b>(646)</b>	<b>(693)</b>	<b>(598)</b>	<b>(350)</b>	<b>(568)</b>	<b>(606)</b>	<b>(775)</b>	<b>(1,028)</b>	<b>(9,415)</b>
	<b>Total</b>	<b>870</b>	<b>726</b>	<b>683</b>	<b>671</b>	<b>363</b>	<b>350</b>	<b>349</b>	<b>712</b>	<b>937</b>	<b>964</b>	<b>1,021</b>	<b>942</b>	<b>8,589</b>

		Total IEUA Service Area Water Use By San Bernadino County (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	-	-	-	-	-	-	-	-	-	-	-	-	-
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	33	33	19	13	21	17	8	6	3	12	21	25	211
	<b>Subtotal</b>	<b>33</b>	<b>33</b>	<b>19</b>	<b>13</b>	<b>21</b>	<b>17</b>	<b>8</b>	<b>6</b>	<b>3</b>	<b>12</b>	<b>21</b>	<b>25</b>	<b>211</b>
Production	Chino Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	
<b>Total</b>	<b>33</b>	<b>33</b>	<b>19</b>	<b>13</b>	<b>21</b>	<b>17</b>	<b>8</b>	<b>6</b>	<b>3</b>	<b>12</b>	<b>21</b>	<b>25</b>	<b>211</b>	



		Total IEUA Service Area Water Use By Upland (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	471	483	468	383	243	241	152	153	151	184	198	242	3,370
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	83	82	69	51	37	23	9	5	13	23	48	83	525
Subtotal		554	565	536	434	280	264	161	158	164	207	246	326	3,895
Production	Chino Groundwater	163	149	59	157	110	176	137	102	102	135	171	154	1,617
	Other Groundwater	51	64	35	38	38	33	67	42	33	37	128	109	674
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		214	213	95	195	148	209	205	145	134	171	299	263	2,291
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	1,241	1,135	763	683	563	605	488	273	425	522	667	855	8,219
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	88	91	298	332	346	190	95	95	122	100	162	175	2,093
Subtotal		1,329	1,226	1,061	1,016	910	794	583	368	547	621	829	1,030	10,313
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>2,097</b>	<b>2,004</b>	<b>1,692</b>	<b>1,644</b>	<b>1,337</b>	<b>1,267</b>	<b>949</b>	<b>670</b>	<b>846</b>	<b>1,000</b>	<b>1,374</b>	<b>1,619</b>	<b>16,499</b>

		Total IEUA Service Area Water Use By WVWD (Acre Feet)											FY 23/24	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	47	35	50	10	-	3	30	21	32	12	22	50	311
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>47</b>	<b>35</b>	<b>50</b>	<b>10</b>	<b>-</b>	<b>3</b>	<b>30</b>	<b>21</b>	<b>32</b>	<b>12</b>	<b>22</b>	<b>50</b>	<b>311</b>
Production	Chino Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Groundwater	65	75	67	75	72	74	34	69	73	67	71	73	816
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>65</b>	<b>75</b>	<b>67</b>	<b>75</b>	<b>72</b>	<b>74</b>	<b>34</b>	<b>69</b>	<b>73</b>	<b>67</b>	<b>71</b>	<b>73</b>	<b>816</b>
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
	<b>Subtotal</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>112</b>	<b>110</b>	<b>117</b>	<b>85</b>	<b>72</b>	<b>77</b>	<b>65</b>	<b>89</b>	<b>105</b>	<b>79</b>	<b>94</b>	<b>123</b>	<b>1,127</b>	

		Total IEUA Service Area Water Use By IEUA											FY 23/24	
		(Acre Feet)												
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	-	-	-	-	-	-	-	-	-	-	-	-	-
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	14	16	13	13	15	11	13	11	11	12	13	13	155
Subtotal		14	16	13	13	15	11	13	11	11	12	13	13	155
Production	Chino Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Total		14	16	13	13	15	11	13	11	11	12	13	13	155