



Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT



2023

**IEUA's
Planning Annual Report**

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SECTION 1: THE REGION AT A GLANCE

An Introduction to IEUA

The Inland Empire Utilities Agency (IEUA) is located in Western San Bernardino County and serves approximately 935,000 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. 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 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, 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, 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

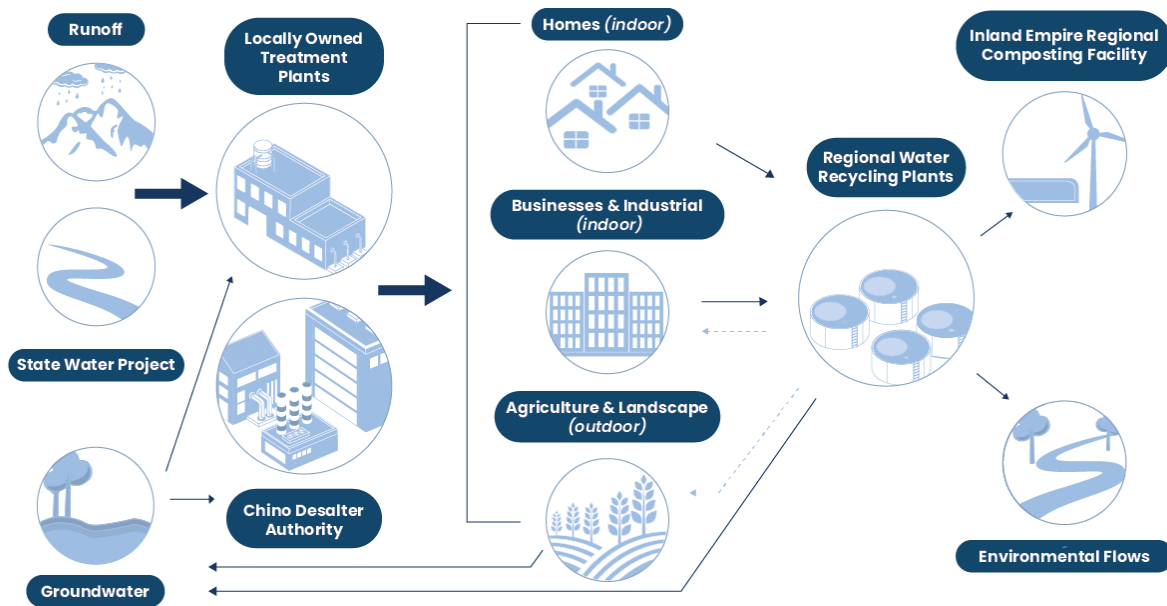


Figure 1 – IEUA Regional Water Cycle

Regional Population Growth

The IEUA service area has experienced tremendous growth since the start of the 21st Century. In Fiscal Year (FY) 00/01, IEUA served a population of just over 700,000, but now serves over 930,000 people in FY 22/23 with the expectation to serve approximately 1 million people by FY 30/31.

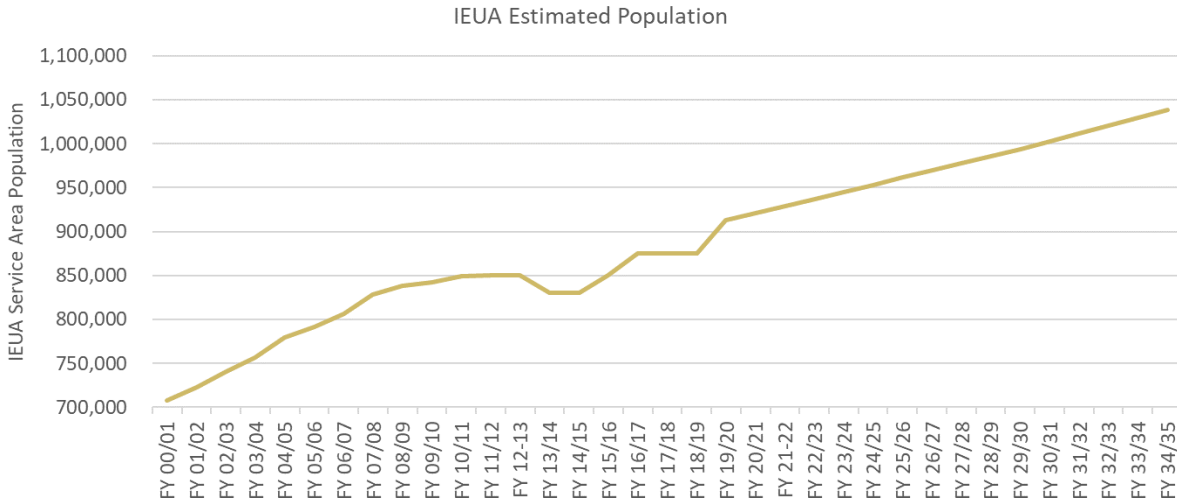


Figure 2 – IEUA Regional Population Growth

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 size. 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 23/24, the MEU count increased by 6,445 MEUs for a total of 424,539 MEUs region wide.

Table 1 – Meter Equivalent Units

Retail Agency	FY 22/23 MEUs	FY 23/24 MEUs
Chino	40,367	41,532
Chino Hills	39,305	39,986
CVWD	106,172	106,384
FWC	92,440	93,084
MVWD	22,009	22,098
Ontario	79,788	80,638
SAWCo	N/A	1,869
Upland	34,384	35,039
WVWD*	3,629	3,909
Total	418,094	424,539

**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 22/23 was approximately 171,823 Acre Feet (AF) which includes 155,423 AF potable usage and 16,401 AF recycled 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. The downward trend in per person water usage, calculated as gallons per capita per day (GPCD) was greatly amplified by limited imported water deliveries in FY 22/23 further described in Section 2 below. While the overall trend of lowering GPCD is expected to continue, GPCD is expected to rebound upwards from the artificially low FY 22/23 value of 164 GPCD caused by limited imported water availability.

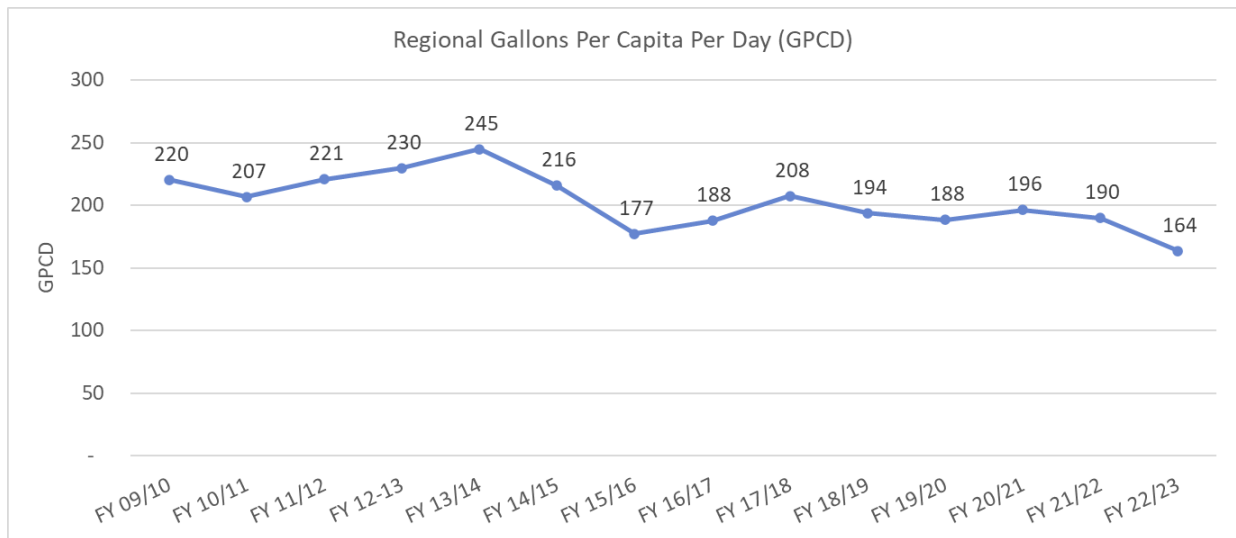


Figure 3 – IEUA Regional GPCD

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 retail agencies’ projected water use from their respective UWMP and totaled the use to obtain a regional water use projection. Regional water use projections include both potable and 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
Total	229,035	243,050	251,989	267,512	270,471

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 and water usage rose to approximately 200,000 AF a year, usage was again projected in the 2020 UWMP, only to have record drought, mandatory water use restrictions, and limited imported water availability starting again dramatically decrease water usage in the region. Regional water use includes all the water used in IEUA service area including supplies imported from MWD, recycled water supplies made available for in region purple pipe use, and local water supplies like pumped groundwater, stream flows, and in region purchases. Regional water use does not include water stored in the Chino Groundwater Basin as these supplies are stored for later use and will be counted when the water is pumped out of the Chino Basin. It is expected that regional water use will increase with the end of the drought,

but to what levels remains uncertain. A portion of the water savings are expected to harden and last, but the trend of increasing population and demands continues.

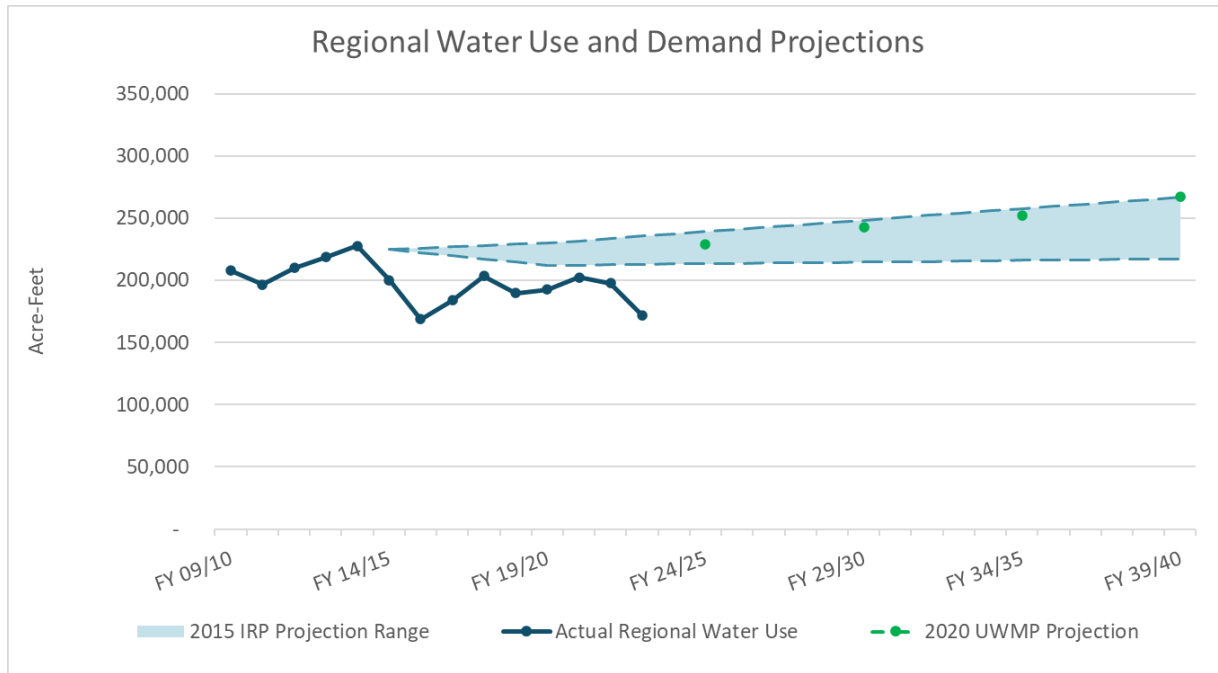


Figure 4 – IEUA Regional Water Use and Projections

The 2020 UWMP and 2015 IRP both project approximately 267,000 AF of demands in FY 39/40. However, IEUA’s actual FY 22/23 regional water use of 171,823 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 reduce per capita water use and demands. IEUA anticipates an increase in FY 23/24 water use due to a historic trend of water use rebounding post drought periods as seen in FY 16/17 and FY 17/18. Demands are not expected to exceed the peak 10-year demand reached during FY 13/14.

SECTION 2: IMPORTED WATER USE

Imported Water Use Summary

IEUA is a member agency of MWD, which is a public agency that provides supplemental 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. Due to MWD infrastructure constraints, IEUA is a SWP dependent MWD agency who has no access to CRA supplies and relies on SWP 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 Dry Year Yield (DYY) program. In FY 22/23, imported deliveries totaled 36,029 AF, which was approximately a 45% decrease from FY 21/22. The sharp decrease in imported supplies was a direct result of an MWD imported water allocation that severely limited IEUA’s ability to purchase imported water supplies for its member agencies. Additionally, DYY reserves were fully utilized in FY 21/22 resulting in no DYY supply availability at the start of FY 22/23.

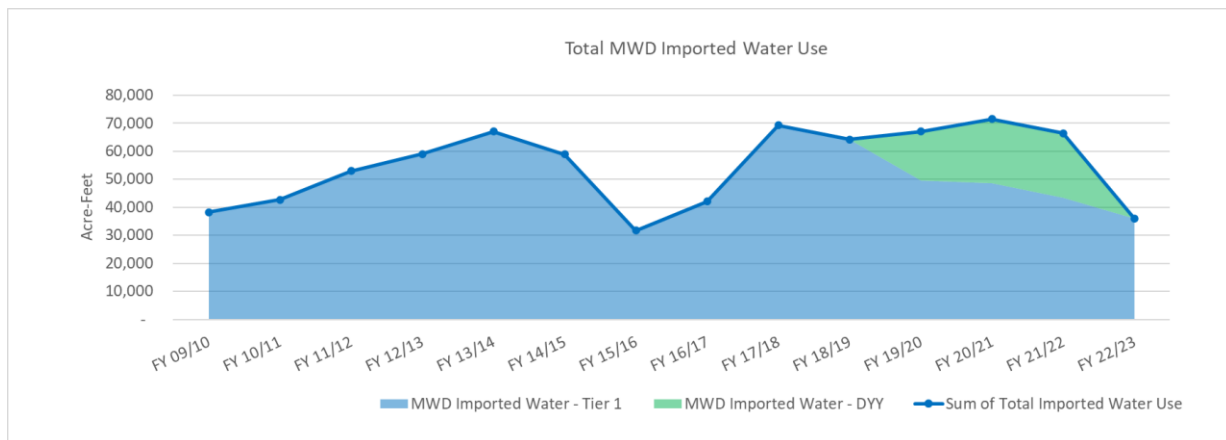


Figure 5 – Imported Water Use

Imported Water Availability

FY 22/23 was bookmarked by extreme shifts in imported water availability. The start of the fiscal year was the tail end of a 3-year unprecedented drought condition which led to drastic reductions in available SWP imported water supplies. In April of 2022, MWD declared a Water Shortage Emergency Condition on SWP dependent areas and adopted a framework for Emergency Water Conservation Program (EWCP) which set monthly imported water allocations on IEUA. In response, in May of 2022, IEUA adopted a Declaration of a Water Shortage Emergency and adopted their own EWCP which set monthly imported water allocations on IEUA’s customer

agencies through the end of the calendar year. MWD and IEUA both extended their EWCPs in December 2022 to continue imported water allocations. With improved hydrologic conditions, reduced regional demands, and increasing SWP supplies, MWD removed the Water Shortage Emergency Condition and terminated the EWCP, in March of 2023. IEUA removed the Declaration of a Water Shortage and its EWCP in April 2023.

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 provides for storage of up to 25,000 AF per year unless Chino Basin Watermaster allows for more, and extraction, at MWD's call during dry years, of up to 33,000 AF per year not to exceed the amount of water in the Metropolitan Storage Account (DYY Account). In February 2019, the signatories expanded the extraction provisions so that water could be voluntarily extracted from the DYY Account outside of call years, with approval from the signatories.

From June 2017 through June 2020 a total of 63,308 AF were stored in the DYY Account; 58,372 AF by groundwater recharge and 4,936 AF by Aquifer Storage and Recovery (ASR) injected water. From July 2019 through June 2022 Cucamonga Valley Water District and Fontana Water Company voluntarily extracted 63,308 AF, leaving the account with a balance of 0 AF. There were no DYY takes in FY 22/23. Starting in mid-May of 2023, DYY recharge began again with an initial Put of 3,465 AF and an additional 4,816 AF in June 2023 for a total of 8,281 AF recharged in FY 22/23. These recharge values exclude any evapotranspiration loss.

Table 4 – DYY Account Balance FY 22/23

DYY Account Balance (June 2017-June 2023)	
“PUTS”	
Recharged Water	66,511 AF
MVWD ASR Injection	5,078 AF
“TAKES”	
CVWD	55,808 AF
FWC	7,500 AF
Total	8,281 AF

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)

Retail Agency	2025	2030	2035	2040	2045
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
Total	77,416	79,630	81,974	84,021	84,065

SECTION 3: WASTEWATER

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 use. Still, the combination of an increased population but overall reduced wastewater flow 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.

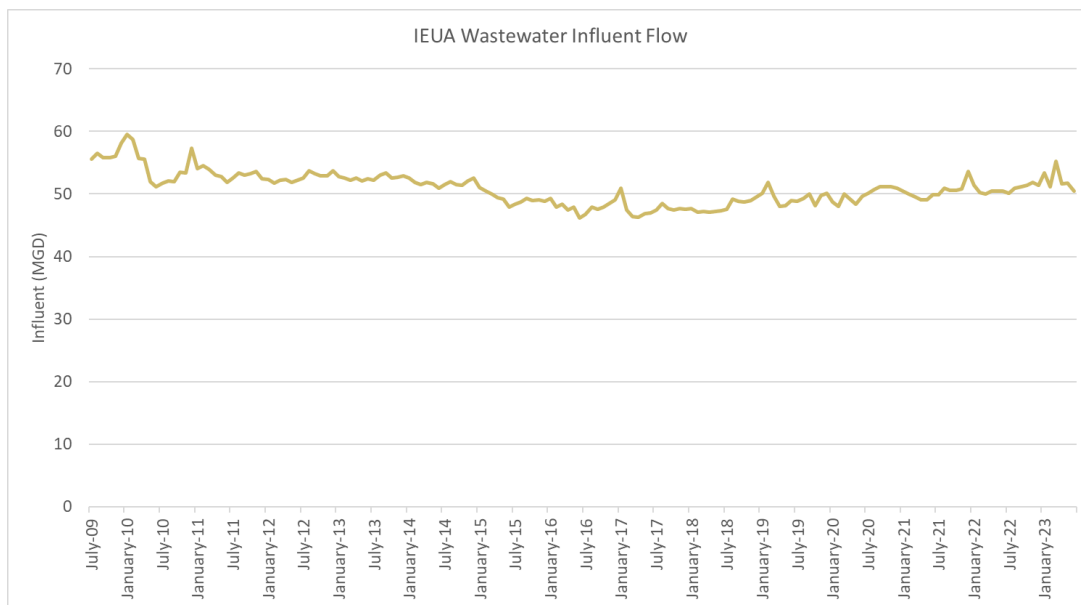


Figure 6 – Historical Regional Influent Flows

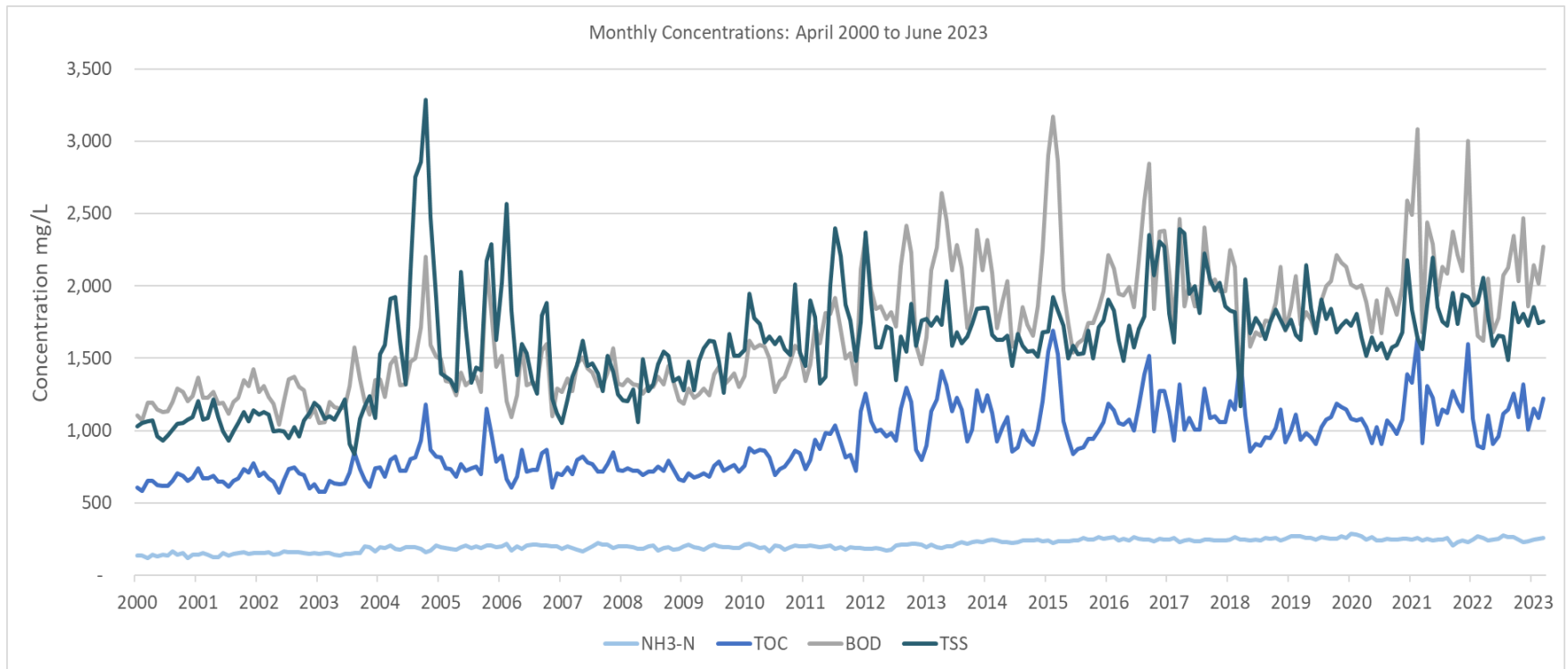


Figure 7 – Monthly Influent Concentrations

Wastewater Effluent

At the 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.

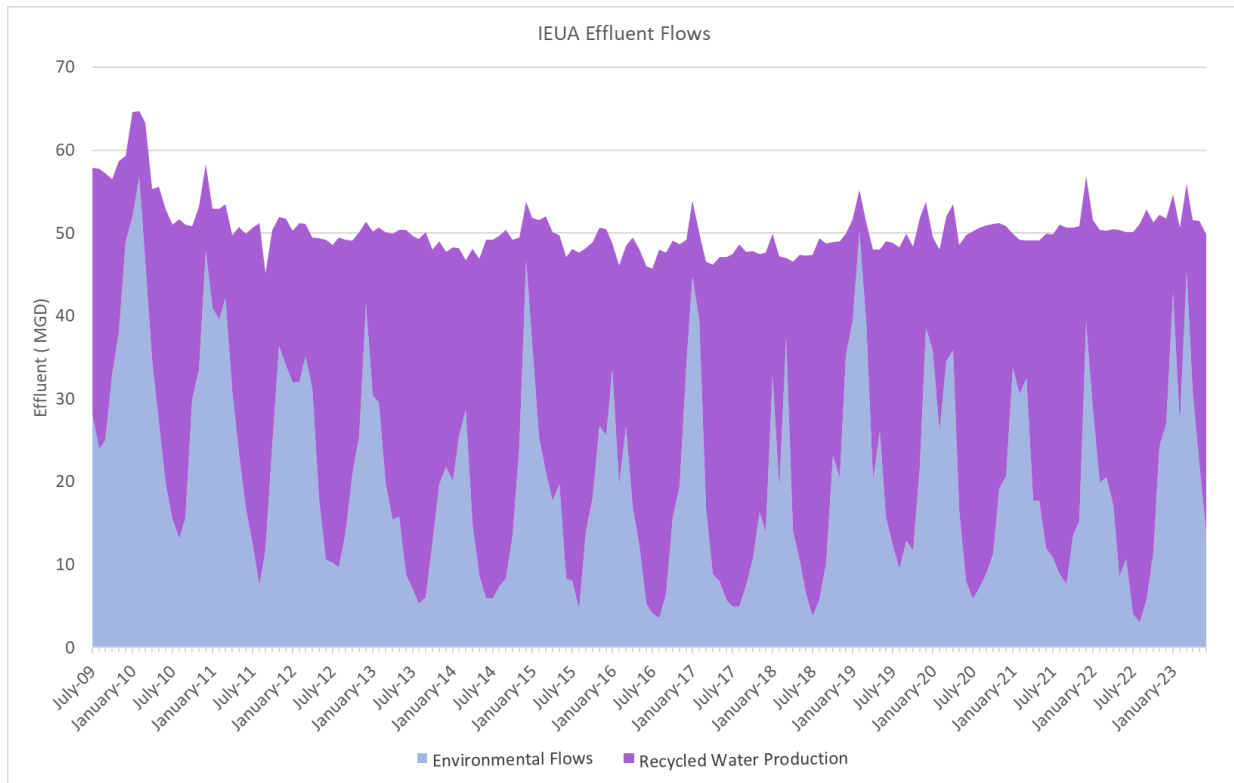


Figure 8 – IEUA Monthly Effluent

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. EDU activity increased in FY 22/23 with the addition of 3,462 EDUs to the region. The additional EDUs added in FY 22/23 were 4,597 EDUs lower than the SCAs projections of 8,059 EDUs and 538 EDUs less than the IEUA Budgeted Projections of 4,000 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 then used to determine plant treatment capacity needs. Budgeted projections on the other hand are used by IEUA to project future funding needs. To ensure fund availability, budgeted projections are conservatively low. The result of both sets of projections is the assumption that projections are conservative, ensuring IEUA treatment plants can handle the added load while also ensuring

the agency does not over project fund availability. Moving forward, IEUA will work with the SCAs to develop land use model-based growth projections to enhance projection reliability.

Table 6 – Historical EDU Activity

Building Activity for Last Five Fiscal Years (FY 18/19 through FY 22/23)			
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	3,462*	4,000	8,059

**Value is draft and still subject to revision*

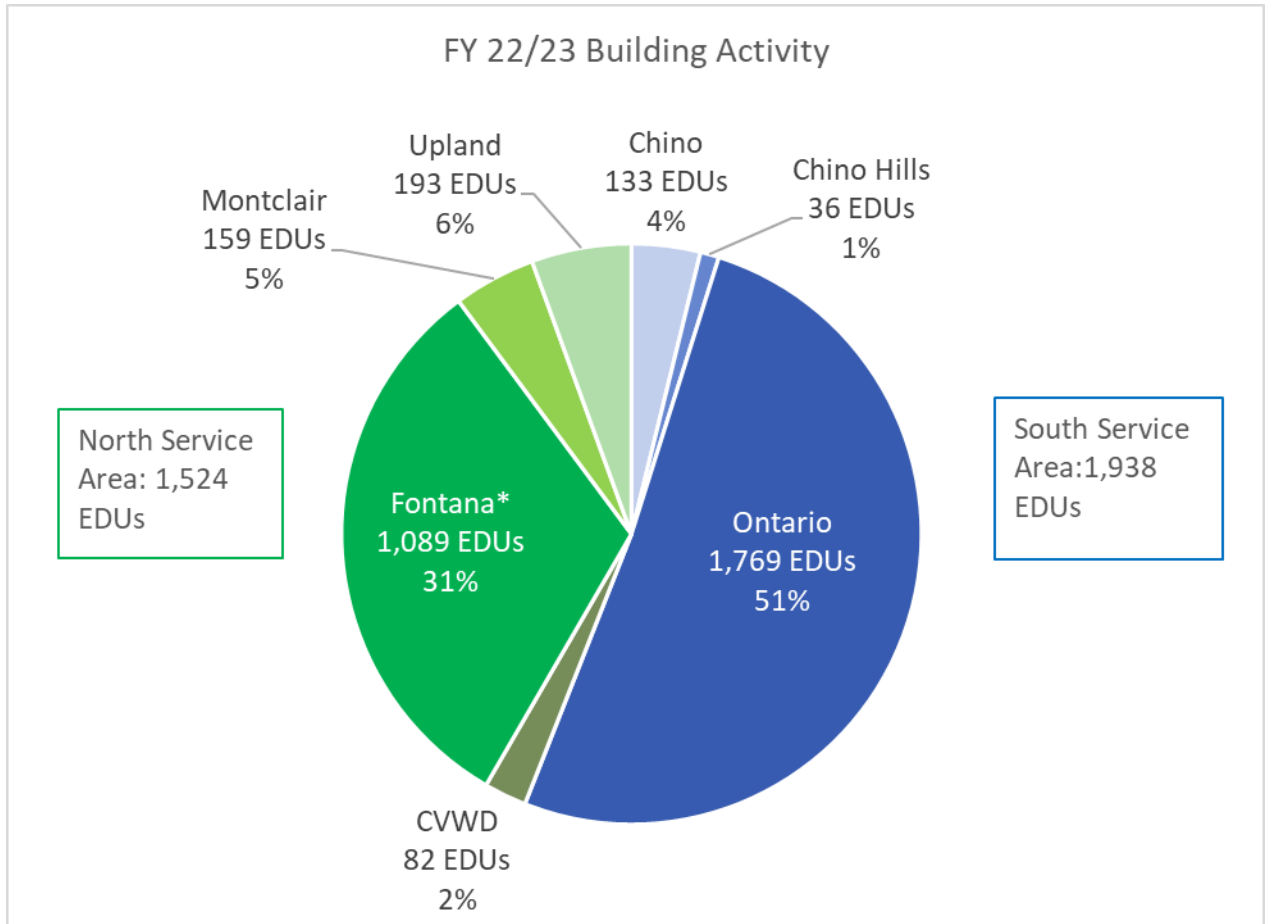


Figure 9 – FY 21/22 Building Activity

**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.

IEUA staff and SCAs are in the process of updating the 10-year demand forecast. The draft results of the 10-year capacity demand forecast survey are summarized in Figure 10 below. Approximately 70% 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 80% residential and 20% commercial/industrial.

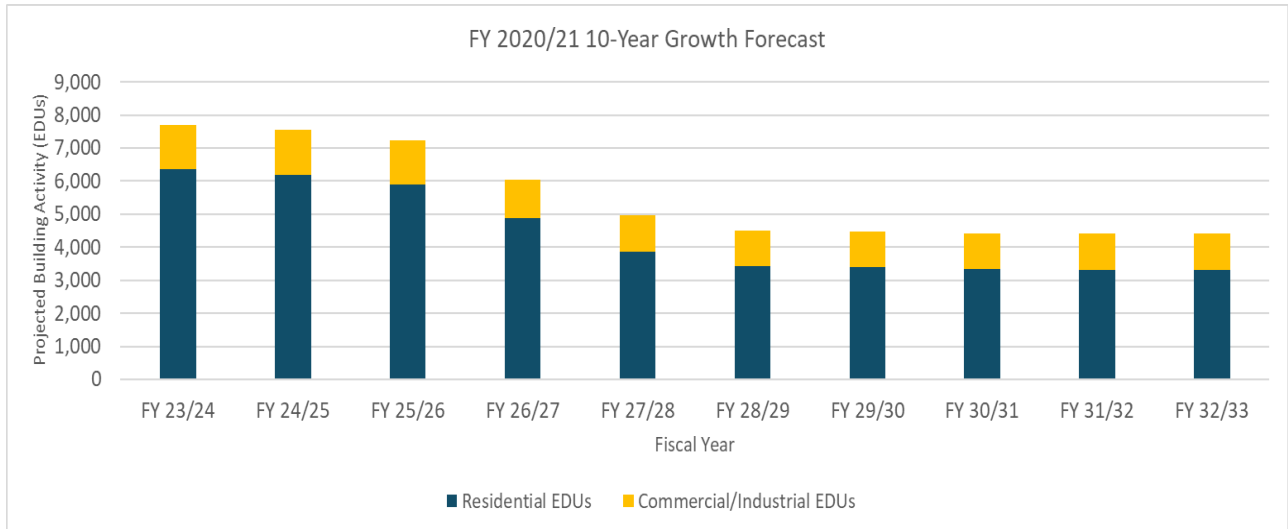


Figure 10 – FY 22/23 10-Year Growth Forecast

SECTION 4: RECYCLED WATER

Current Recycled Water Use

Total recycled water use in FY 22/23 was 31,186 AF (16,401 AF of direct use and 14,785 AF of 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 their 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 16,401 AF in FY 22/23.

Table 7 – Recycled Water Demand by Agency for FY 22/23

Retail Agency	Direct Use (AF)	Percent of Direct Demand
Chino	3,998	24.4%
Chino Hills	1,272	7.8%
CVWD	999	6.1%
Fontana/FWC	294	1.8%
Montclair/MVWD	291	1.8%
Ontario	8,790	53.6%
Upland	563	3.4%
IEUA	145	0.9%
San Bernardino County	49	0.3%
Total	16,401	100%

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.

Table 8 – Projected Recycled Water Direct Use Demand by Retail Agency (AF)

Retail Agency	Projection Source	2025	2030	2035	2040
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
Total	2020 UWMP	22,880	24,877	25,742	27,771
	Demand Forecast	20,869	23,275	24,704	27,854

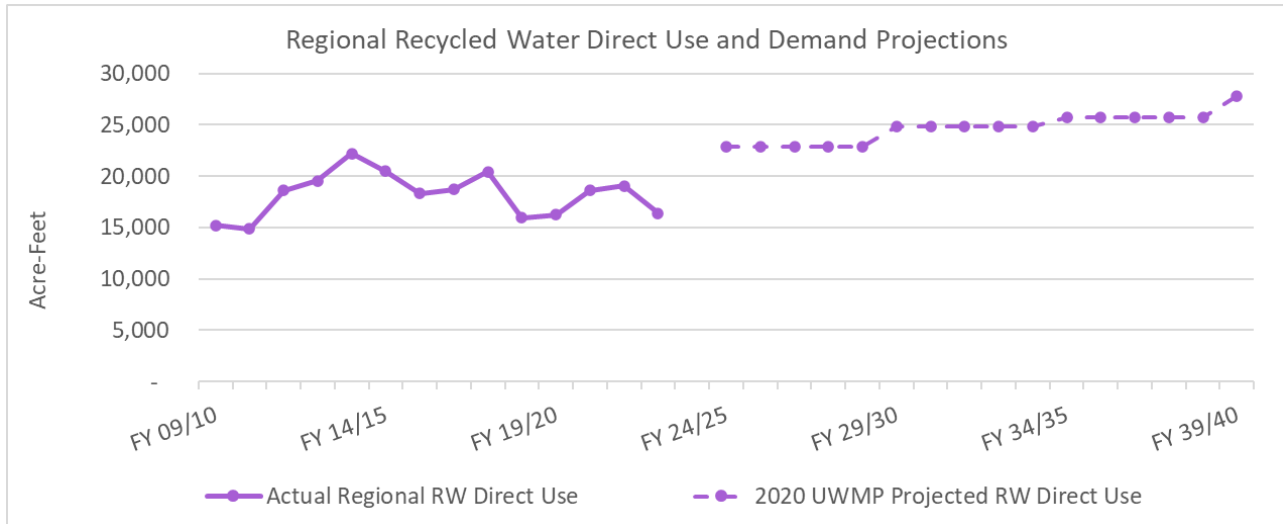


Figure 11 – FY 22/23 Recycled Water Direct Use and Projections

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 14,785 AF in FY 22/23, down 13.5% from FY 21/22 recycled water groundwater recharge deliveries of 17,054 AF. Recycled water groundwater recharge numbers dropped year over year largely in part due to increased rainfall in the region. 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 5 below.

Table 9 – FY 21/22 Recycled Groundwater Recharge Deliveries by Agency

Retail Agency	Recycled Water Recharge (AF)
Chino	1,642
Chino Hills	1,285
CVWD	3,472
Fontana/FWC	2,903
Montclair/MVWD	606
Ontario	3,517
Upland	1,360
Total	14,785

SECTION 5: 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 accounts for approximately 32% of FY 22/23, 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 44,194 AF. Groundwater recharge deliveries are water delivered to recharge facilities and does not take into consideration evaporative or other losses that may occur prior to recharge.

Table 10 – FY 22/23 Groundwater Recharge Sources

Groundwater Recharge Source	Recharge (AF)
Recycled Water	14,785
Stormwater & Dry Weather Flow	20,015
Imported Water	9,394
<i>IEUA (MWD)</i>	<i>0</i>
<i>DYY Puts*</i>	<i>8,139</i>
<i>Other**</i>	<i>1,255</i>
Total	44,194

**DYY Puts Exclude aquifer storage and recovery*

*** Supplies recharged that were delivered from outside IEUA's service area not including IEUA purchases.*

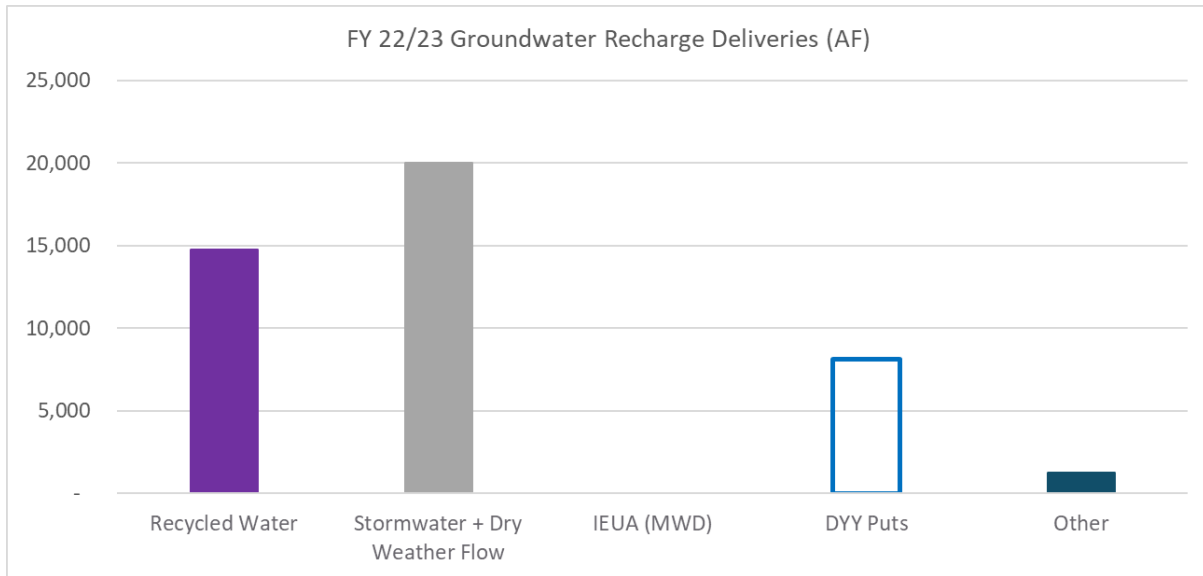


Figure 12 – FY 22/23 Groundwater Recharge Deliveries

FY 22/23 was the highest stormwater + dry weather flow recharge recorded to date at over 20,000 AF. Heavy winter rainfall resulted not only in additional stormwater flows for recharge but in extra DYY Puts through excess water MWD had available. The rainfall helped bring recharge deliveries back to pre-drought levels.

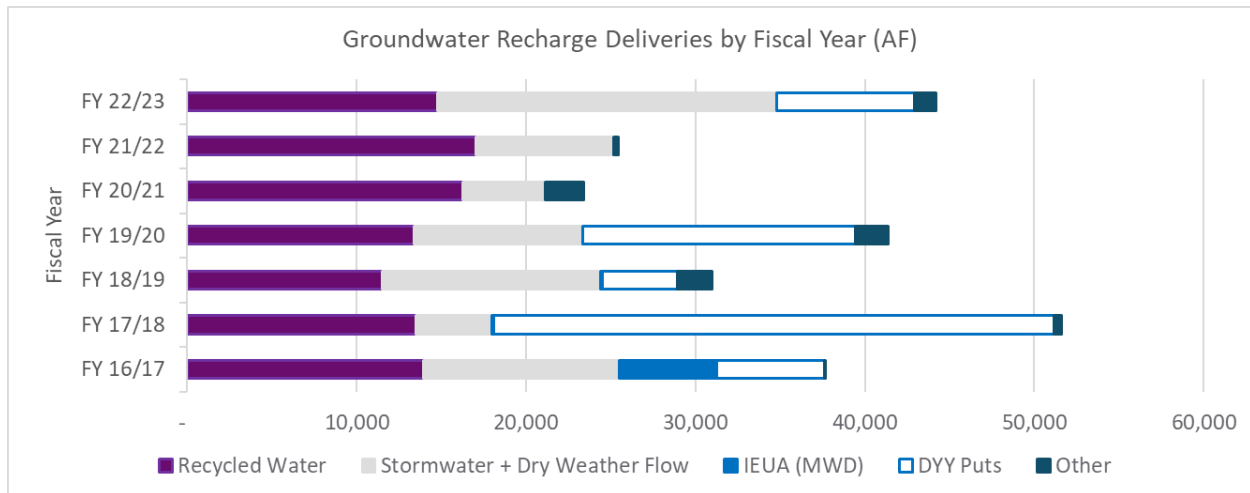


Figure 13 – Historical Groundwater Recharge Deliveries

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 2018 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 and imported water. Table 11 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 11 – Projected Groundwater Recharge Deliveries by Source

Groundwater Recharge Source	Projected Groundwater Recharge (AF)
Recycled Water	16,420
Stormwater + Dry Weather Flow	11,175
Imported Water (No DYY)	1,537
Total	29,131

SECTION 6: ENVIRONMENTAL FLOWS

Santa Ana River Regional Baseflow Obligation

The Santa Ana River has a regional baseflow obligation established by past judgment. The baseflow obligation is a joint obligation between IEUA and Western Municipal Water District to ensure an average of 42,000 AF at Prado Dam. The minimum baseflow obligation was reduced to 34,000 AF after 1986 as long as no cumulative baseflow debt exists. In Water Year 2021/2022, baseflow at Prado Dam was 78,452 AF. More information about the Santa Ana River baseflow obligation can be found in the Santa Ana River Watermaster Annual Report.

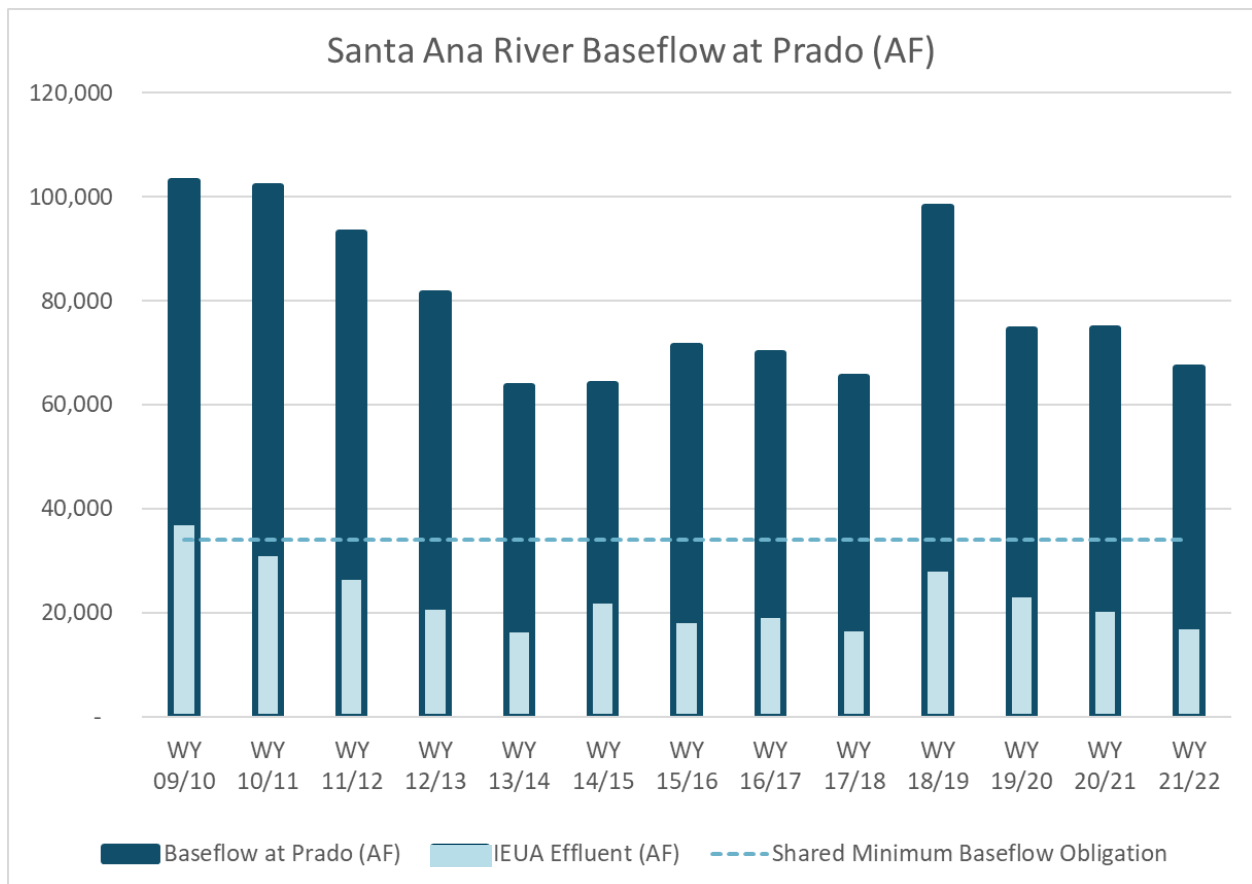


Figure 14 – Discharge of Santa Ana River at Prado

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 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	3,797	4,656	4,955	4,266	3,333	3,049	903	1,342	2,438	2,100	2,295	2,894	36,029
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	2,542	2,853	2,707	1,780	1,006	781	437	478	417	488	1,246	1,665	16,401
Subtotal		6,339	7,509	7,661	6,046	4,339	3,831	1,339	1,820	2,855	2,588	3,541	4,559	52,429
Production	Chino Groundwater	8,411	7,687	5,582	5,170	3,918	3,395	3,926	3,741	1,683	2,881	4,179	4,415	54,987
	Other Groundwater	3,750	3,676	3,163	2,345	2,012	1,944	2,129	1,844	1,910	2,051	2,668	3,278	30,770
	Local Surface Water	289	220	192	263	294	487	766	1,729	1,126	3,165	2,895	2,510	13,937
Subtotal		12,449	11,583	8,938	7,778	6,224	5,825	6,821	7,314	4,719	8,097	9,742	10,203	99,694
Purchases	CDA	1,624	1,699	1,610	1,632	1,446	1,406	1,208	1,169	1,518	1,524	1,617	1,611	18,062
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	385	422	486	376	78	5	163	49	127	228	326	245	2,890
	SAWCo	997	884	702	687	437	574	645	639	551	804	919	923	8,762
	SBVMWD	-	2	285	493	473	537	-	-	275	287	463	375	3,189
	West End	125	134	78	121	81	111	90	73	66	126	93	88	1,186
Subtotal		3,130	3,141	3,161	3,308	2,515	2,633	2,105	1,930	2,536	2,969	3,419	3,241	34,089
Sales	Chino Hills	(728)	(740)	(708)	(565)	(347)	(234)	(183)	(215)	(137)	(316)	(414)	(333)	(4,921)
	Ontario	(4)	(33)	(33)	(34)	(32)	(36)	(36)	(34)	(38)	(41)	(44)	(47)	(413)
	MVWD	(5)	(37)	(38)	(39)	(42)	(131)	(41)	(38)	(43)	(46)	(49)	(53)	(562)
	Upland	(993)	(851)	(667)	(647)	(402)	(537)	(696)	(672)	(514)	(763)	(875)	(876)	(8,494)
Subtotal		(1,730)	(1,662)	(1,446)	(1,285)	(823)	(939)	(956)	(958)	(733)	(1,166)	(1,383)	(1,309)	(14,389)
Total		20,189	20,571	18,314	15,847	12,256	11,350	9,310	10,106	9,378	12,488	15,319	16,695	171,823

		Total IEUA Service Area Water Use By Chino										(Acre Feet)		FY 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total	
Purchases from IEUA	MWD Imported Water - Tier 1	374	428	429	339	206	271	194	177	237	210	325	316	3,505	
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Recycled (Direct Use)	736	909	688	489	147	129	56	75	82	89	310	288	3,998	
Subtotal		1,110	1,337	1,117	828	353	400	250	252	319	299	635	604	7,503	
Production	Chino Groundwater	628	616	550	504	452	343	309	380	229	446	491	611	5,559	
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		628	616	550	504	452	343	309	380	229	446	491	611	5,559	
Purchases	CDA	450	476	439	450	405	373	368	360	407	454	443	419	5,044	
	CWWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		450	476	439	450	405	373	368	360	407	454	443	419	5,044	
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	
Total		2,188	2,429	2,106	1,781	1,210	1,115	927	993	956	1,199	1,569	1,634	18,106	

		Total IEUA Service Area Water Use By Chino Hills										(Acre Feet)		FY 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total	
Purchases from IEUA	MWD Imported Water - Tier 1	170	170	85	85	85	85	85	85	85	85	85	170	1,275	
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Recycled (Direct Use)	196	211	214	147	97	51	29	31	16	42	108	128	1,272	
Subtotal		366	381	299	232	182	136	114	116	101	127	193	298	2,547	
Production	Chino Groundwater	343	319	222	190	269	251	21	88	88	88	88	88	2,054	
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		343	319	222	190	269	251	21	88	88	88	88	88	2,054	
Purchases	CDA	377	400	370	380	345	309	274	282	390	353	408	464	4,350	
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MVWD	385	422	486	376	78	5	163	49	127	228	326	245	2,890	
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		762	822	856	756	424	314	436	331	517	581	734	709	7,240	
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	
Total		1,471	1,521	1,377	1,178	875	701	570	535	706	795	1,015	1,096	11,840	

		Total IEUA Service Area Water Use By Ontario (Acre Feet)											FY 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	518	522	501	439	241	225	97	142	219	278	384	490	4,055
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	1,276	1,364	1,501	916	625	495	295	271	265	219	616	947	8,790
Subtotal		1,795	1,886	2,002	1,355	866	719	391	413	484	496	1,000	1,437	12,845
Production	Chino Groundwater	2,079	2,025	1,689	1,441	1,303	1,128	1,046	1,142	709	1,098	1,354	1,369	16,386
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		2,079	2,025	1,689	1,441	1,303	1,128	1,046	1,142	709	1,098	1,354	1,369	16,386
Purchases	CDA	797	823	801	802	695	725	566	527	721	718	766	727	8,668
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	4	33	33	34	32	36	36	34	38	41	44	47	413
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		801	856	834	836	727	761	602	560	759	758	810	774	9,080
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Total		4,675	4,768	4,526	3,632	2,897	2,609	2,040	2,116	1,952	2,353	3,164	3,581	38,311

		Total IEUA Service Area Water Use By Upland (Acre Feet)											FY 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	489	636	530	350	232	211	95	122	138	152	207	285	3,445
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	103	111	63	53	29	20	4	17	6	36	47	74	563
Subtotal		592	747	593	402	261	230	99	139	144	187	254	359	4,008
Production	Chino Groundwater	97	72	56	61	70	31	24	49	35	39	87	185	808
	Other Groundwater	91	63	61	68	67	45	39	33	35	86	136	105	831
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		188	135	117	129	137	76	64	82	71	125	224	290	1,638
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	993	851	669	653	405	537	608	606	513	763	875	876	8,350
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	125	134	78	121	81	111	90	73	66	126	93	88	1,186
Subtotal		1,117	985	747	774	485	649	699	678	579	889	969	964	9,536
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Total		1,898	1,868	1,457	1,305	884	955	861	899	793	1,202	1,447	1,613	15,182

		Total IEUA Service Area Water Use By CVWD (Acre Feet)											FY 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	935	1,406	1,874	1,813	1,911	1,627	94	-	948	940	971	996	13,515
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	128	149	136	100	65	50	32	50	19	65	94	111	999
Subtotal		1,064	1,555	2,010	1,913	1,976	1,677	126	50	967	1,005	1,065	1,107	14,514
Production	Chino Groundwater	2,853	2,393	1,357	1,038	226	329	1,289	1,293	311	387	888	1,150	13,515
	Other Groundwater	615	613	567	553	545	388	459	507	395	456	611	571	6,280
	Local Surface Water	102	81	79	98	7	129	27	306	212	917	870	739	3,566
Subtotal		3,571	3,087	2,003	1,688	777	846	1,775	2,105	918	1,760	2,370	2,460	23,361
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MWWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MWWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Total		4,635	4,642	4,013	3,602	2,752	2,522	1,901	2,156	1,886	2,765	3,435	3,567	37,875

		Total IEUA Service Area Water Use By FWC											(Acre Feet)		FY 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total		
Purchases from IEUA	MWD Imported Water - Tier 1	796	866	694	618	395	484	0	530	530	168	15	213	5,310		
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Recycled (Direct Use)	52	45	47	31	14	15	5	9	2	9	26	39	294		
Subtotal		848	911	742	649	409	498	5	539	532	177	41	253	5,604		
Production	Chino Groundwater	1,035	1,106	921	1,203	965	795	1,028	487	15	254	535	377	8,721		
	Other Groundwater	1,891	1,943	1,644	894	718	593	768	672	815	824	1,119	1,717	13,599		
	Local Surface Water	109	80	63	83	132	158	228	530	286	1,043	904	640	4,255		
Subtotal		3,035	3,129	2,628	2,180	1,815	1,547	2,024	1,689	1,117	2,121	2,558	2,734	26,575		
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-		
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MWWD	-	-	-	-	-	-	-	-	-	-	-	-	-		
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-		
	SBVMWD	-	2	285	493	473	537	-	-	275	287	463	375	3,189		
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal		-	2	285	493	473	537	-	-	275	287	463	375	3,189		
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MWWD	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-		
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-		
Total		3,883	4,042	3,654	3,321	2,696	2,582	2,029	2,228	1,924	2,585	3,062	3,362	35,369		

		Total IEUA Service Area Water Use By MVWD										(Acre Feet)		FY 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total	
Purchases from IEUA	MWD Imported Water - Tier 1	407	528	733	578	260	148	338	286	281	268	292	399	4,516	
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Recycled (Direct Use)	37	51	44	32	17	11	5	13	3	16	29	32	291	
Subtotal		444	578	776	610	278	159	343	299	284	284	321	431	4,807	
Production	Chino Groundwater	1,253	1,047	674	622	626	518	210	302	295	569	735	635	7,486	
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		1,253	1,047	674	622	626	518	210	302	295	569	735	635	7,486	
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-	
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-	
Sales	Chino Hills	(728)	(740)	(708)	(565)	(347)	(234)	(183)	(215)	(137)	(316)	(414)	(333)	(4,921)	
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-	
Subtotal		(728)	(740)	(708)	(565)	(347)	(234)	(183)	(215)	(137)	(316)	(414)	(333)	(4,921)	
Total		969	885	743	667	557	443	370	387	442	536	642	732	7,372	

		Total IEUA Service Area Water Use By SAWCo (Acre Feet)											FY 22/23	
		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)	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Production	Chino Groundwater	122	108	113	110	6	-	0	-	-	-	-	-	459
	Other Groundwater	1,135	1,042	831	780	619	847	794	572	597	617	738	813	9,386
	Local Surface Water	78	59	51	82	156	200	511	893	628	1,205	1,121	1,131	6,115
Subtotal		1,335	1,209	995	973	781	1,047	1,305	1,465	1,225	1,823	1,858	1,945	15,960
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	West End	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	(4)	(33)	(33)	(34)	(32)	(36)	(36)	(34)	(38)	(41)	(44)	(47)	(413)
	MVWD	(5)	(37)	(38)	(39)	(42)	(131)	(41)	(38)	(43)	(46)	(49)	(53)	(562)
	Upland	(993)	(851)	(667)	(647)	(402)	(537)	(696)	(672)	(514)	(763)	(875)	(876)	(8,494)
Subtotal		(1,002)	(922)	(738)	(720)	(476)	(705)	(773)	(743)	(596)	(850)	(969)	(976)	(9,469)
Total		334	288	256	252	305	342	532	721	629	973	890	969	6,491

		Total IEUA Service Area Water Use By WWD (Acre Feet)											FY 22/23	
		July	August	September	October	November	December	January	February	March	April	May	June	Total
Purchases from IEUA	MWD Imported Water - Tier 1	108	101	109	46	4	-	-	-	-	-	16	24	408
	MWD Imported Water - DYY Take	-	-	-	-	-	-	-	-	-	-	-	-	-
	Recycled (Direct Use)	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		108	101	109	46	4	-	-	-	-	16	24	408	
Production	Chino Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Groundwater	17	14	60	51	63	70	68	61	67	69	64	71	675
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		17	14	60	51	63	70	68	61	67	69	64	71	675
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
West End		-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Total		125	115	169	97	67	70	68	61	67	69	80	95	1,083

		Total IEUA Service Area Water Use By San Bernadino County (Acre Feet)											FY 22/23	
		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)	1	1	1	0	0	0	-	-	12	0	-	34	49
Subtotal		1	1	1	0	0	0	-	-	12	0	-	34	49
Production	Chino Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Other Groundwater	-	-	-	-	-	-	-	-	-	-	-	-	-
	Local Surface Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Purchases	CDA	-	-	-	-	-	-	-	-	-	-	-	-	-
	CVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	SAWCo	-	-	-	-	-	-	-	-	-	-	-	-	-
	SBVMWD	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Sales	Chino Hills	-	-	-	-	-	-	-	-	-	-	-	-	-
	Ontario	-	-	-	-	-	-	-	-	-	-	-	-	-
	MVWD	-	-	-	-	-	-	-	-	-	-	-	-	-
	Upland	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal		-	-	-	-	-	-	-	-	-	-	-	-	-
Total		1	1	1	0	0	0	-	-	12	0	-	34	49

		Total IEUA Service Area Water Use By IEUA (Acre Feet)										FY 22/23		
		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)	12	12	12	12	11	11	11	11	11	12	17	13	145
	Subtotal	12	12	12	12	11	11	11	11	11	12	17	13	145
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		12	12	12	12	11	11	11	11	11	12	17	13	145