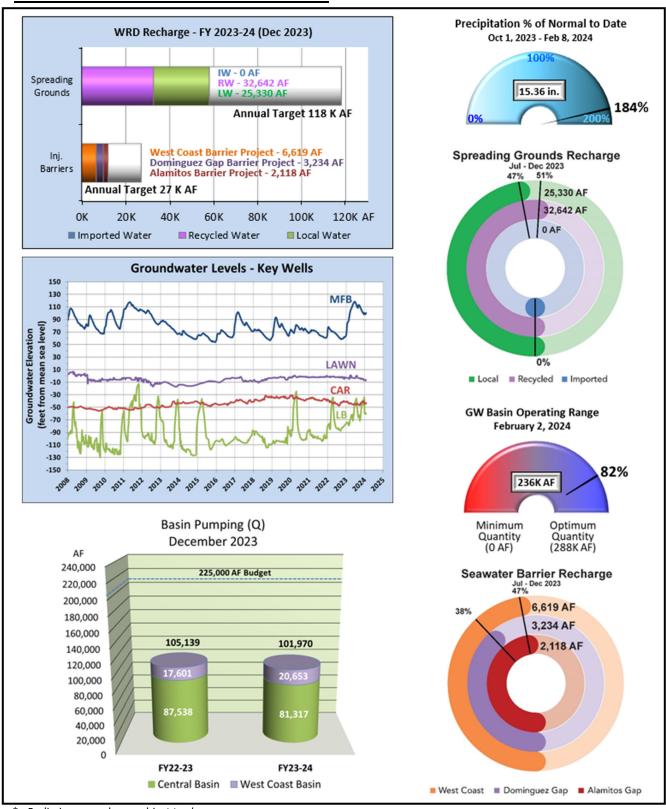


GROUNDWATER BASIN UPDATE FOR FERUARY 2024

GROUNDWATER BASINS AT A GLANCE*



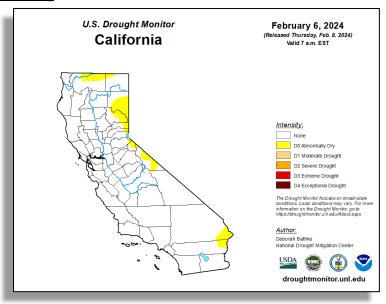
^{* -} Preliminary numbers, subject to change.

SUMMARY

Staff monitors groundwater conditions in the District's service area throughout the year. A summary of the latest information is presented below.

Precipitation (October 1, 2023 – February 8, 2024)

The WRD precipitation index reports that for the 2023-24 Water Year, there has been above average rainfall (15.36 inches) through February 8, 2024. The normal rainfall for this time period is 8.33 inches, so the District is 184% of normal. As of February 6, 2024, the U.S. Drought Monitor is reporting 7% of the State is dry (+4%),abnormally 0% under moderate (same) 0% under severe (same), 0% under extreme (same), and 0% exceptional (same) drought According to the U.S. conditions. Drought Monitor, Los Angeles County is currently not in a drought.



Snowpack (Snow Water Content [SWE] as of February 8, 2024)

In 1929, the State established the California Cooperative Snow Surveys Program with the California Department of Water Resources as the coordinator. Today, over 50 state, national, and private agencies collaborate in collecting snow data from over 300 snow courses with more than 60 of the courses being the original courses established in the early 1900's. The average snow course is 1,000 feet long and consists of about 10 sample points. Anywhere from two to six courses are measured per day depending on weather and access method.

The snow survey is completed using a snow sampling tube equipped with a cutter on the end that is driven through the snow measuring the depth and obtaining a snow core. The snow core is then weighed, and the snow water content (or snow water equivalent) calculated. The surveys are completed throughout the winter by returning to the same sample points throughout the season to observe the changing conditions. From February through May the data is used by the State to forecast snow melt Statewise Summary runoff. Many snow courses are only measured on or around April 1st, and since it is presumed that the snow accumulates up to April 1st and melts thereafter, April 1st is the benchmark for historic data comparisons.

Data For: 08-Feb-2024	
Number of Stations Reporting	25
Average snow water equivalent	15.9"
Percent of April 1 Average	55%
Percent of normal for this date	82%

CENTRAL

Data For: 08-Feb-2024	
Number of Stations Reporting	50
Average snow water equivalent	13.6"
Percent of April 1 Average	51%
Percent of normal for this date	75%

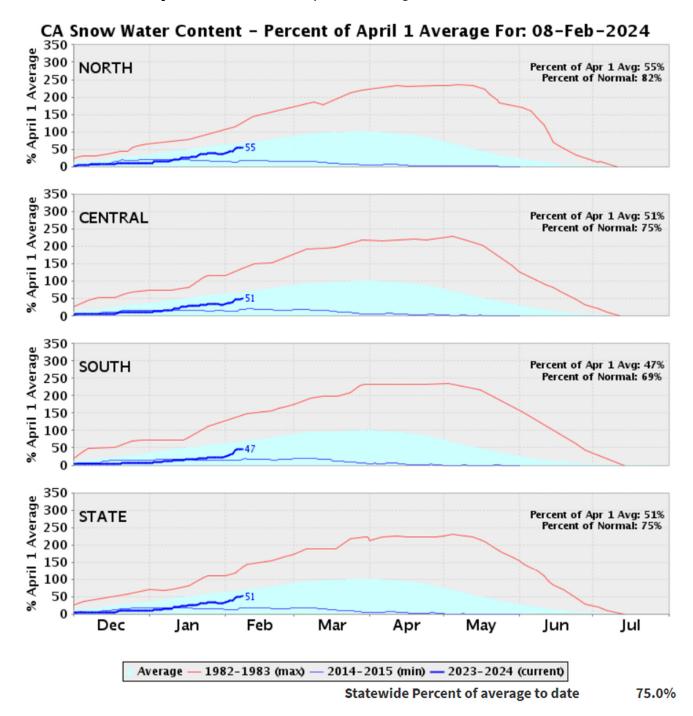
SOUTH

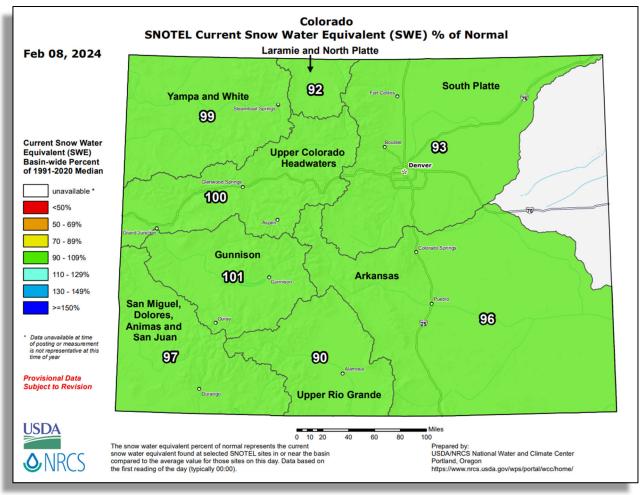
Data For: 08-Feb-2024	
Number of Stations Reporting	24
Average snow water equivalent	11.2"
Percent of April 1 Average	47%
Percent of normal for this date	69%
l .	

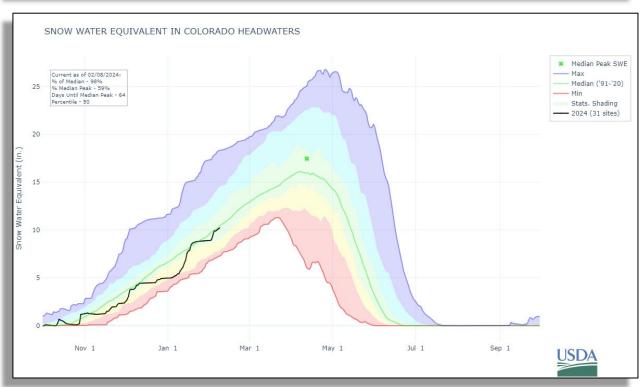
Data For: 08-Feb-2024 Number of Stations Reporting 99 Average snow water equivalent 13.6" Percent of April 1 Average 51% Percent of normal for this date 75%		
Average snow water equivalent 13.6" Percent of April 1 Average 51%	Data For: 08-Feb-2024	
Percent of April 1 Average 51%	Number of Stations Reporting	99
. cream or ripin z riverage	Average snow water equivalent	13.6"
Percent of normal for this date 75%	Percent of April 1 Average	51%
The state of the s	Percent of normal for this date	75%

Snow Water Equivalent (SWE):

Northern Sierra Nevada – 15.9 in., 55% of April 1st average and 82% of normal to date Central Sierra Nevada – 13.6 in., 51% of April 1st average and 75% of normal to date Southern Sierra Nevada – 11.2 in., 47% of April 1st average and 69% of normal to date Statewide Summary – 13.6 in., 51% of April 1st average and 75% of normal to date

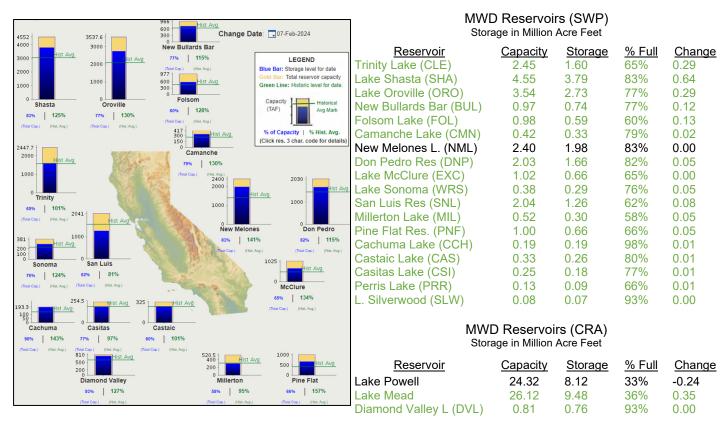






Reservoirs (as of January 10, 2023)

For the 21 reservoirs reported monthly to the committee, water levels have increased in 19 of 21 reservoirs. The largest increase occurred at Lake Shasta (0.64 million acre feet, MAF). The smallest increase occurred at Lakes McClure, Silverwood, and Diamond Valley (<0.01 MAF). The largest decrease (-0.24 MAF) occurred at Lake Powell. The smallest decrease (<-0.01 MAF) occurred at New Melones Lake.



Black Text - Decrease or no change in storage since the last report. Green Text - Increase in storage since the last report.

These 21 reservoirs are at 48% capacity (35.74 MAF) which is up 1.92 MAF (+2.6%) from the prior month (+1.81 MAF State Water Project [SWP] and +0.11 MAF Colorado River Aqueduct [CRA]).

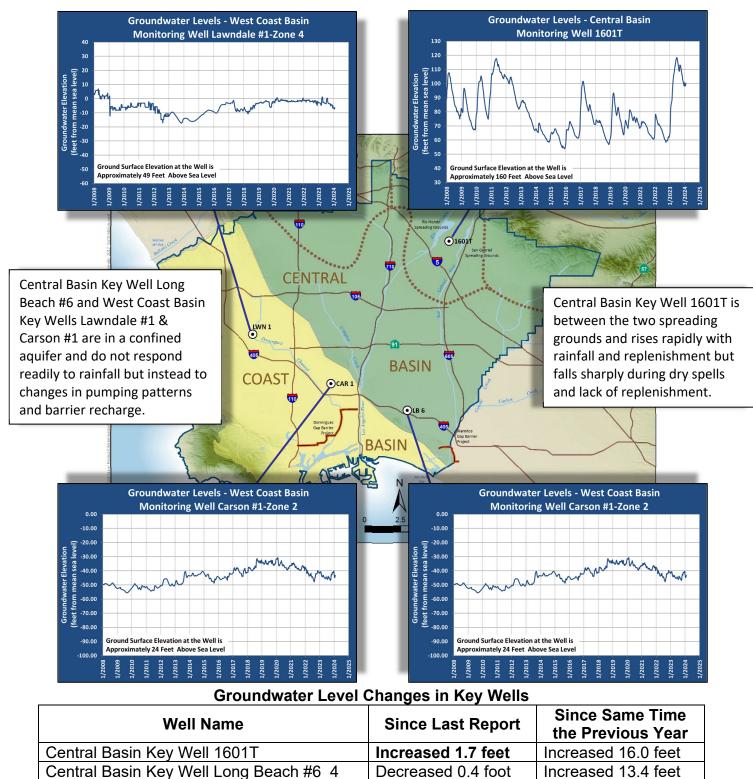


Díd you know?

2.78 million trillion gallons of the world's freshwater is groundwater. That's about 30%!

Groundwater Levels (through February 2, 2024)

Groundwater levels in key monitoring wells are shown in the hydrographs below.



Bold indicates a change in direction (decreasing or increasing) since the last report.

West Coast Basin Key Well Lawndale #1 4

West Coast Basin Key Well Carson #1 2

Increased 0.4 foot

Increased 0.1 foot

Decreased 3.3 feet

Decreased 2.7 feet

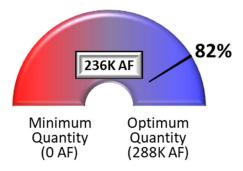
Optimum and Minimum Groundwater Quantity (February 2, 2024)

The Board of Directors adopted an Optimum and Minimum Quantity for groundwater in the District to define an appropriate operating range that would sustain adjudicated pumping rights, leave room for future storage projects, and identify a lower limit. The amounts are based on the accumulated overdraft concept, which the District tracks year by year based on changes in groundwater storage.

After an extensive review of over 70 years of water level fluctuations and discussions with the Board and pumping community, Water Year 1999/2000 was recognized as a representative year for the Optimum Quantity, which equated to an accumulated overdraft of approximately 612,000 acre feet. The Minimum Quantity was defined as an accumulated overdraft of 900,000 acre feet, which allowed an operating range from 0 acre feet (minimum) to 288,000 acre feet (optimum). The Board also adopted a policy to make up the groundwater deficit should the accumulated overdraft fall too far below the Optimum Quantity.

The Accumulated Overdraft as of February 2, 2024, has been estimated at 664,311 acre feet (subject to change), which is 235,689 acre feet above the Minimum Quantity and 52,311 acre feet below Optimum Quantity. The Basin is at 82% of Optimum Quantity which is 2% higher than what was reported last month (~7,000 AF higher).

GW Basin Operating Range February 2, 2024



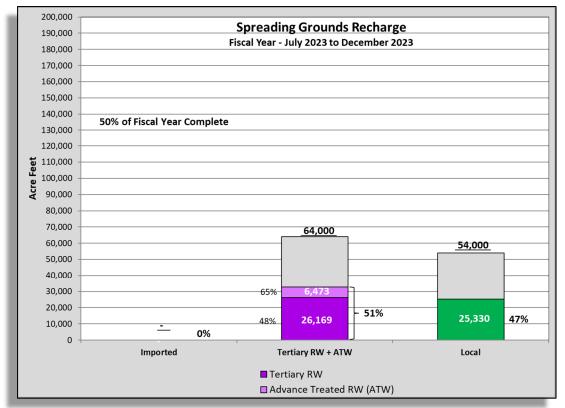
FACT:

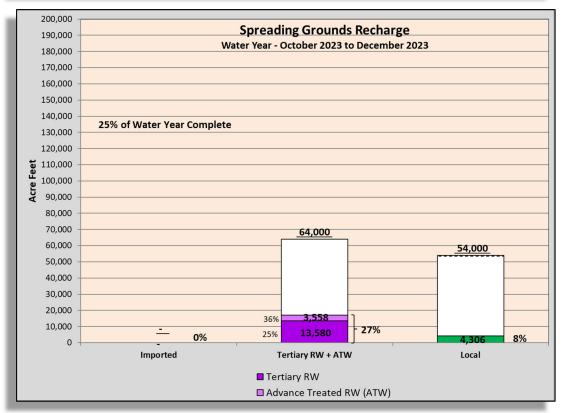
It's raining, it's pouring - about 25% of all rainfall in the U.S. becomes groundwater.



Montebello Forebay Spreading Grounds (July 2023 - December 2023)

The following Charts shows the preliminary spreading grounds replenishment water for the current Fiscal Year (2023-24; 6 months) and Water Year (2023-24; 3 months):



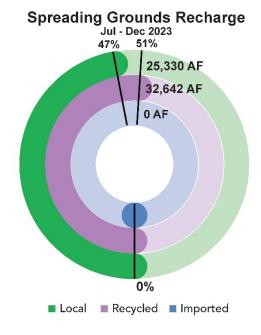


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No imported water purchases were planned for Fiscal Year 2023-24.

Local water (stormwater plus dry weather urban runoff) is captured by the Los Angeles County Department of Public Works (LACPW) at the spreading grounds for recharge. Local water amounts are determined as the sum of the total water conserved at the spreading grounds less the imported and recycled water deliveries. For the 2023-24 Fiscal Year, 25,330 acre feet of local water capture have been reported by the LACPW.

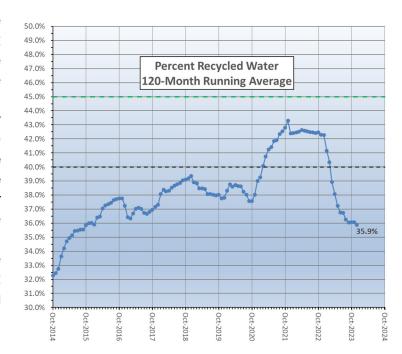
Preliminary numbers for the 2023-24 Fiscal Year show that approximately 32,642 acre feet of recycled water has been recharged with 6,473 acre feet consisting of advanced treat water from the ARC AWTF and 26,169 acre feet of tertiary recycled water. Presuming the advanced treated water as "Null Water", the 120-month running average of the recycled water contribution in the



Montebello Forebay is 35.9% and the regulatory maximum is 45%, with additional monitoring being required once 40% is reached.

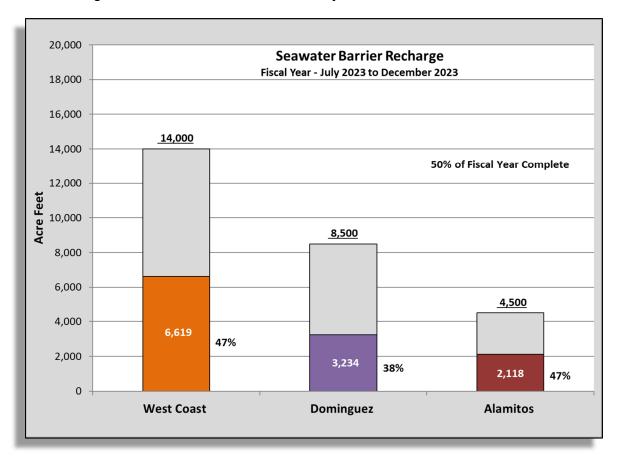
Tertiary Recycle Water Permit Update

The permit is continuing to progress with LACSD and WRD staff working to update pertinent sections of the new Title 22 Engineering Report. Due to the persistent drought conditions over the past few decades and associated emergency drought proclamation by Governor Newsom, LACSD and WRD submitted a request to modify the recycled water contribution percentage to 50% and the advanced treated water classification to diluent in a letter to the LARWQCB and CA-DDW dated July 8, 2022. LACSD and WRD staff are targeting 2024 to have the new Title 22 Engineering Report submitted, including the requests to increase the recycled water contribution percentage to 50% and reclassify the advanced treated water as diluent.

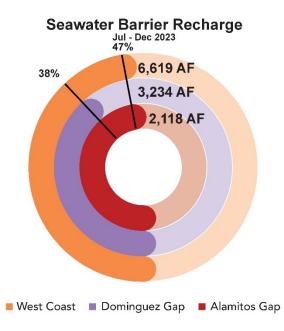


Seawater Barrier Well Injection and Replenishment (July 2023 – December 2023)

The following Chart shows the barrier water injection:

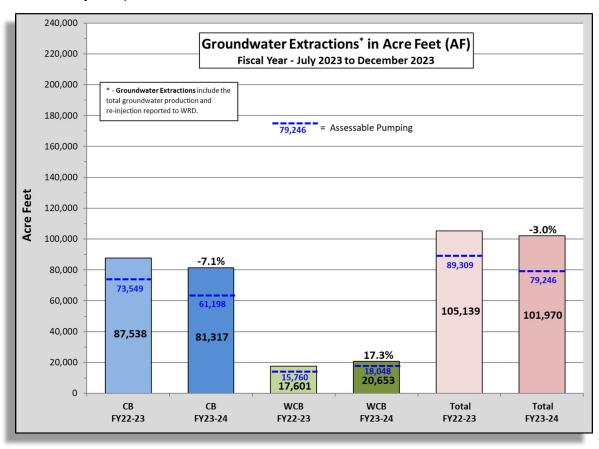


Preliminary numbers for the 2023-24 Fiscal Year show that the West Coast Barrier has used 6,619 acre feet of the total 14,000 acre feet planned for injection, 47% of total for the Fiscal Year. The Dominguez Gap Barrier used 2,593 acre feet of the total 8,500 acre feet planned for injection, 38% of the total for the Fiscal Year. The Alamitos Barrier, on the WRD side, used 1,756 acre feet of the total 4,500 acre feet planned for injection, 47% of the total for the Fiscal Year.



Total Pumping (Fiscal Year 2023-24, July 2023 – December 2023)

Preliminary numbers for groundwater production in the District for the Fiscal Year 2023-24 (July - December) indicate total pumping in the Central Basin was down 6,221 acre feet from the same time of the previous fiscal year (-7.1%) and the West Coast Basin total pumping was 3,169 acre feet higher than the previous fiscal year (+17.3%). The total pumping is 101,970 acre feet compared to 105,139 acre feet during the same time the previous year for a decrease of 3,169 acre feet, or -3.0%. The current pumping data does not include seven (7 Central Basin pumpers and three (3) West Coast Basin Pumpers, who have not yet reported, for an estimated 108 additional acre feet.

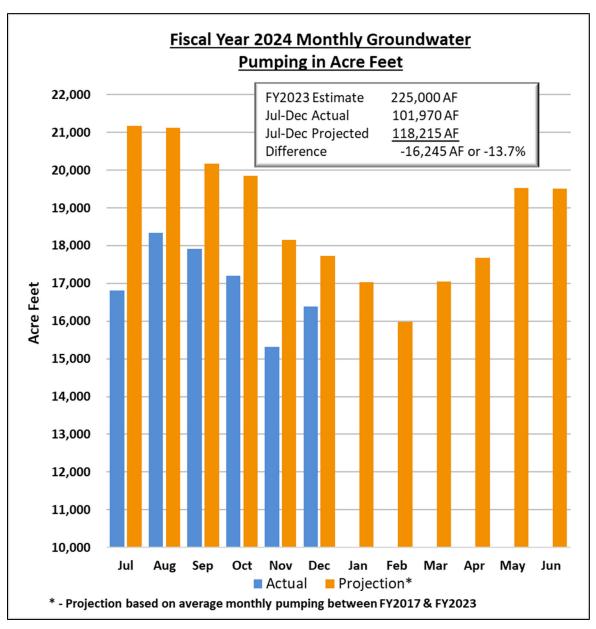




Interesting...

What makes it taste so good? The most common dissolved minerals in groundwater that give it its unique flavor are calcium, magnesium, sodium, potassium, chloride, sulfate, and bicarbonate.

Preliminary numbers indicate 101,970 acre feet have been pumped this fiscal year and is 13.7% below the projected fiscal year to date goal of 118,215 acre feet (or -16,245 acre feet). Monthly actual production versus the 7-year average monthly production projections (FY 2017 through 2023) are included in the chart below.



"If there is magic on this planet, it is contained in water." - Loren Eiseley.



For the Fiscal Year 2023-24 (July 2023 – December 2023), staff has tracked the production trends of the top five (5) producing pumpers and the bottom five (5) producing pumpers in each basin. These pumpers are identified in the following tables and are based on the change in volume (in acre feet) compared to the same time period for the previous Fiscal Year. Production data for all the pumpers can be found in the attached Exhibit A (Central Basin) and Exhibit B (West Coast Basin).

Production Trends - Central Basin				
Top 5 Producing by Volume (AF)	Jul 2023 - Dec 2023	Jul 2023 - Dec 2023	Difference	% Change
Whittier, City	2,219.29	3,542.48	1323.19	37.35
Commerce, City	213.23	824.96	611.73	74.15
Cal. American Water Co. Alpha 0679	581.26	979.90	398.64	40.68
Cal. Water Service Co. (East LA)	5,310.49	5,634.31	323.82	5.75
San Gabriel Valley Water Co.	1,290.65	1,561.28	270.63	17.33
Bottom 5 Producing by Volume (AF)	Jul 2023 - Dec 2023	Jul 2023 - Dec 2023	Difference	% Change
Long Beach, City - CB	14,866.24	11,279.24	-3587.00	-31.80
Los Angeles, City - CB	3,183.42	7.89	-3175.53	-40,247.5
Santa Fe Springs, City	960.69	13.70	-946.99	-6,912.34
Vernon, City	3,076.66	2,413.13	-663.53	-27.50
Golden State Water Co CB	9,597.84	9,138.85	-458.99	-5.02

Production Trends – West Coast Basin				
Top 5 Producing by Volume (AF)	Jul 2023 - Dec 2023	Jul 2023 - Dec 2023	Difference	% Change
Golden State Water Co WB	2,550.57	4,496.65	1946.08	43.28
Cal. Water Service Co. Dominguez - WB	1,515.08	3,320.76	1805.68	54.38
Torrance Refining	465.76	595.50	129.74	21.79
Cal. Water Service Co. Alpha 7050	392.06	518.77	126.71	24.43
Eco Services Operations	175.68	294.64	118.96	40.37
Bottom 5 Producing by Volume (AF)	Jul 2023 - Dec 2023	Jul 2023 - Dec 2023	Difference	% Change
Tesoro Refining	5,290.40	4,262.78	-1027.62	-24.11
Phillips 66 Co Alpha 7093	2,677.95	2,356.38	-321.57	-13.65
Torrance, City	807.30	501.21	-306.09	-61.07
Manhattan Beach, City	232.27	101.47	-130.80	-128.91
L.A. County Department of Parks	198.22	86.04	-112.18	-130.38

Water Replenishment District (WRD) publishes the Groundwater Basin Update (GWBU) monthly. All information contained herein is preliminary and is meant to be a snapshot the status of the basins at the time of publication and should not constitute an official WRD report. All the information presented in the GWBU utilizes the best available data at the time of publication. Data provided herein is a compilation of WRD data and publicly available information from several of our partners including, by not limited to, the Los Angeles County Department of Public Works - Stormwater Engineering Division, Metropolitan Water District of Southern California, California Department of Water Resources, US Bureau of Reclamation, University of Nebraska - Lincoln, and the US Department of Agriculture - Natural Resources Conservation Service. The GWBU is prepared by Senior Hydrogeologist, Everett Ferguson, who can be contacted directly with questions at eferguson@wrd.org.



Central Basin Production Trends

Central Basin	July 2022 - December 2022	July 2023 - December 2023	Difference	%Change
ABC USD	11.14	8.99	-2.15	-23.92
American Text. M.	26.62	31.05	4.43	14.27
Artesia, City	7.22	1.15	-6.07	-527.83
Atlas Iron and Metal Co.	0.18	0.18	.00	0.00
Bell Gardens, City	0.00	0.00	.00	0.00
Bellflower Home Garden	0.00	0.00	.00	0.00
Bellflower, City	231.98	0.00	-231.98	-100.00
Bellflower-Somerset MWC	2,480.78	2,476.04	-4.74	-0.19
Boeing Co.	12.94	60.62	47.68	78.65
Boeing, Compton Site	22.48	33.23	10.75	32.35
Cal. American Water Co. Alpha 0679	581.26	979.90	398.64	40.68
Cal. Water Service Co. (East LA)	5,310.49	5,634.31	323.82	5.75
Cal. Water Service Co. Dominguez - CB	430.84	566.56	135.72	23.96
Caltrans	1.26	7.94	6.68	84.13
Central Basin MWD	0.00	0.00	.00	0.00
Cerritos, City	3,852.40	3,780.88	-71.52	-1.89
Coast Packing Co.	70.03	66.93	-3.10	-4.63
Commerce, City	213.23	824.96	611.73	74.15
Compton, City	3,557.51	3,457.42	-100.09	-2.89
Darling-Delaware Co.	0.00	0.00	.00	0.00
Defense Logistic Agency	1.21	2.32	1.11	47.84
Demenno Kerdoon	0.75	1.19	.44	36.97
Downey, City	7,209.43	7,249.23	39.80	0.55
El Rancho Unified School District	0.00	0.00	.00	0.00
Furr, Nancy J.	0.04	0.00	04	-100.00
Golden State Water Co CB	9,597.84	9,138.85	-458.99	-5.02
Huntington Park, City - Alpha 2378	1,452.52	1,356.79	-95.73	-7.06
L.A. County Department of Parks	0.00	0.00	.00	0.00
LA County Rancho Los Amigos	106.50	110.61	4.11	3.72
La Habra Heights County WD	1,394.38	1,290.77	-103.61	-8.03
Lakewood - City	3,484.84	3,577.58	92.74	2.59
Liberty Utilities - CB	2,355.96	2,207.23	-148.73	-6.74

Central Basin	July 2022 - December 2022	July 2023 - December 2023	Difference	%Change
Lincoln Memorial Park	6.51	0.00	-6.51	-100.00
Little Lake Cemetery District	1.36	0.00	-1.36	-100.00
Long Beach, City - CB	14,866.24	11,279.24	-3587.00	-31.80
Los Angeles, City - CB	3,183.42	7.89	-3175.53	-40,247.53
Lunday-Thagard	0.00	0.00	.00	0.00
Lynwood Park Mutual Water Co.	41.61	14.24	-27.37	-192.21
Lynwood, City	2,281.10	2,395.54	114.44	4.78
Maywood Mutual No. 1	324.36	325.18	.82	0.25
Maywood Mutual No. 2	443.80	467.66	23.86	5.10
Maywood Mutual No. 3	725.30	724.48	82	-0.11
Montebello Land and Water Co.	1,505.89	1,500.58	-5.31	-0.35
Montebello, City	0.00	0.00	.00	0.00
Newark Group, Inc.	79.85	75.81	-4.04	-5.33
Northrop Grumman	1.74	0.00	-1.74	-100.00
Norwalk, City	297.10	160.93	-136.17	-84.61
Omega OU1/OU3 LLC	0.00	2.88	2.88	100.00
Orchard Dale Water District	964.40	942.27	-22.13	-2.35
PABCO Building Products	0.00	0.00	.00	0.00
Paradise Memorial Park	5.51	5.23	28	-5.35
Paramount USD	2.11	0.81	-1.30	-160.49
Paramount, City	1,346.61	1,414.57	67.96	4.80
Pico Rivera, City	2,150.64	2,036.19	-114.45	-5.62
Pico Water District	1,354.33	1,354.25	08	-0.01
Rockview Dairies	63.10	1.78	-61.32	-3,444.94
Roman Catholic Archbishop - CB	66.76	150.82	84.06	55.74
Rowland Water District	0.00	0.00	.00	0.00
San Gabriel Valley Water Co.	1,290.65	1,561.28	270.63	17.33
Santa Fe Springs, City	960.69	13.70	-946.99	-6,912.34
Sativa Water District	1.14	0.00	-1.14	-100.00
Scantlebury, Robert P.	0.28	0.12	16	-133.33
SFPP L.P.	0.00	0.00	.00	0.00
Signal Hill, City	399.58	643.73	244.15	37.93
South Gate, City	4,253.43	4,015.45	-237.98	-5.93
South Montebello Irrigation Dist	894.86	842.60	-52.26	-6.20
Southern California Edison Co CB	2.13	0.53	-1.60	-301.89
St. John Bosco School	21.64	5.77	-15.87	-275.04

Central Basin	July 2022 - December 2022	July 2023 - December 2023	Difference	%Change
Suburban Water Systems	558.15	802.39	244.24	30.44
Tract 180 Water Co.	628.88	629.55	.67	0.11
Tract 349 Mutual Water Co.	319.23	319.10	13	-0.04
Tucker, William M.	0.17	0.02	15	-750.00
Vernon, City	3,076.66	2,413.13	-663.53	-27.50
Virginia Country Club	217.39	183.43	-33.96	-18.51
Walnut Park Mutual	544.91	544.51	40	-0.07
Whittier Union HSD	15.62	13.74	-1.88	-13.68
Whittier, City	2,219.29	3,542.48	1323.19	37.35
WRD	7.82	60.74	52.92	87.13
Yamamoto, Alice	0.07	0.00	07	-100.00



West Coast Basin Production Trends

West Basin	July 2022 - December 2022	July 2023 - December 2023	Difference	%Change
ABC Nursery	7.50	0.00	-7.50	-100.00
Cal. Water Service Co. Alpha 7050	392.06	518.77	126.71	24.43
Cal. Water Service Co. Dominguez - WB	1,515.08	3,320.76	1805.68	54.38
Cal. Water Service Co./Hawthorne Lease	233.11	319.68	86.57	27.08
Eco Services Operations	175.68	294.64	118.96	40.37
Golden State Water Co WB	2,550.57	4,496.65	1946.08	43.28
Hillside Memorial Park	73.31	59.68	-13.63	-22.84
Honeywell International	0.00	0.00	.00	0.00
Inglewood, City	926.83	896.63	-30.20	-3.37
Kinder Morgan Liquids Terminals	19.14	20.43	1.29	6.31
L.A. County Department of Parks	198.22	86.04	-112.18	-130.38
L.A. County Sanitation Districts-JWPCP	0.00	0.00	.00	0.00
Lomita, City	0.00	0.00	.00	0.00
Long Beach, City - WB	0.00	22.20	22.20	100.00
Manhattan Beach, City	232.27	101.47	-130.80	-128.91
Montrose Chemical Corp.	-0.51	-0.82	31	37.80
Myron Z. Chalavin	0.00	0.00	.00	0.00
Pacific Crest Cemetery Co.	23.91	0.23	-23.68	-10,295.65
Phillips 66 Co Alpha 7093	2,677.95	2,356.38	-321.57	-13.65
Rolling Hills Country Club	136.00	136.00	.00	0.00
Roman Catholic Archbishop - WB	99.81	67.07	-32.74	-48.81
SCI Funeral Services	0.00	18.65	18.65	100.00
Shell Oil Co NCWUP	55.19	16.82	-38.37	-228.12
Southern California Edison Co WB	9.42	13.73	4.31	31.39
Tesoro Refining	5,290.40	4,262.78	-1027.62	-24.11
Torrance Refining	465.76	595.50	129.74	21.79
Torrance, City	807.30	501.21	-306.09	-61.07
West Basin Brewer Desalter	0.00	0.00	.00	0.00