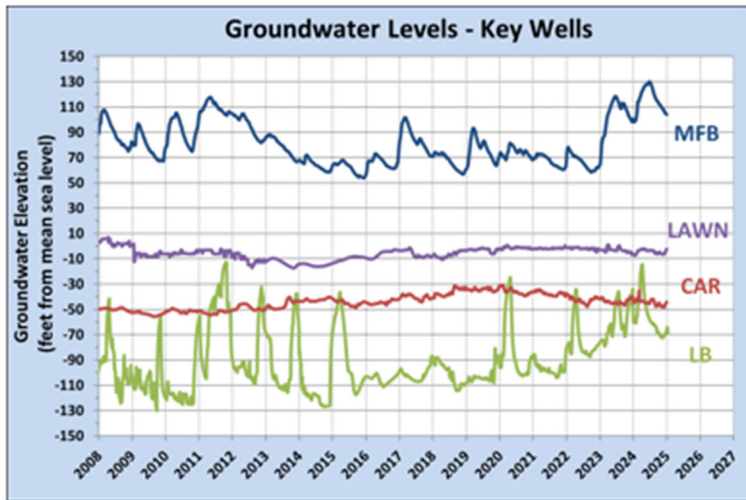
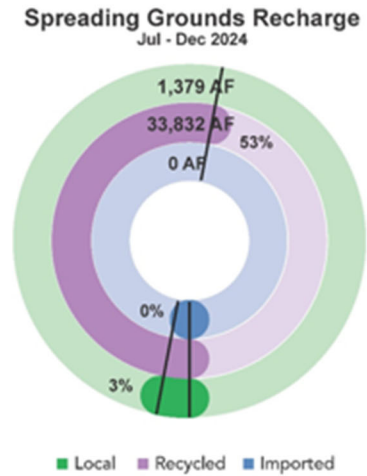
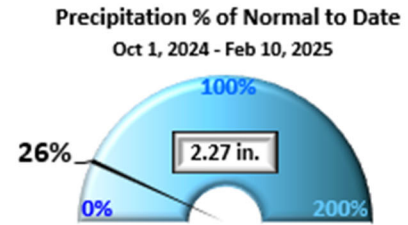
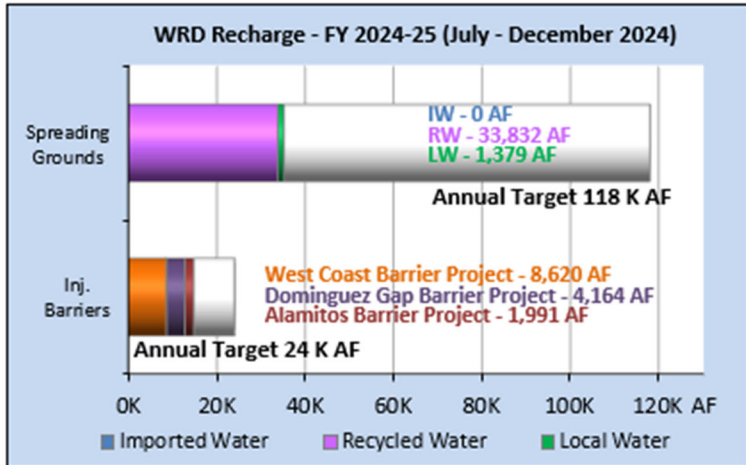
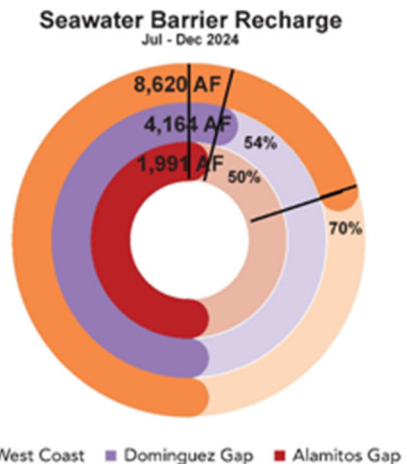
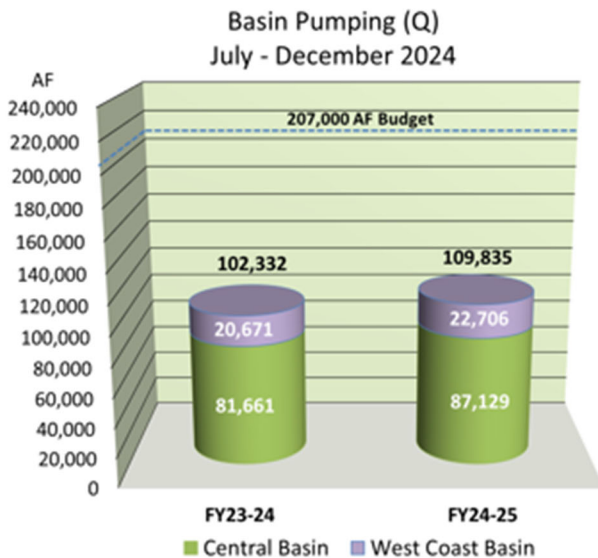
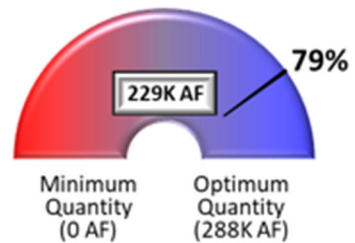


GROUNDWATER BASIN UPDATE FOR FEBRUARY 2025

GROUNDWATER BASINS AT A GLANCE*



GW Basin Operating Range
February 6, 2025



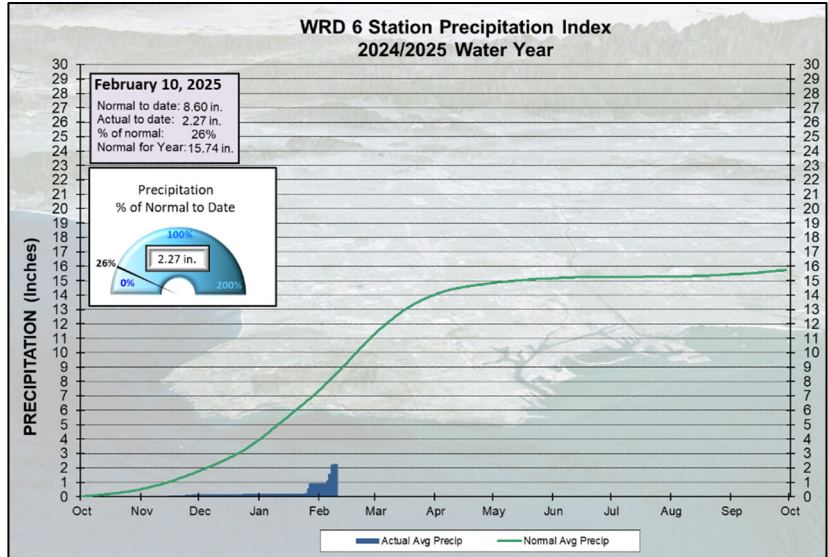
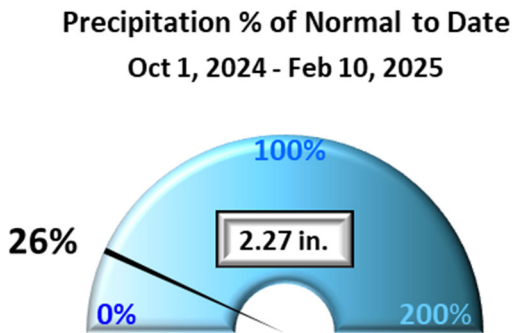
* - Preliminary numbers, subject to change.

SUMMARY

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

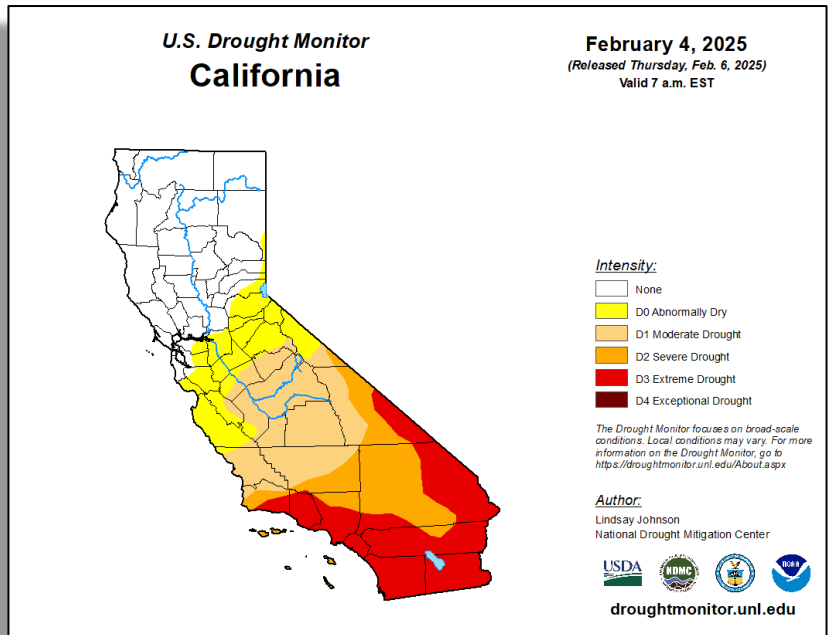
Precipitation (October 1, 2024 - February 10, 2025)

The WRD 6 Station Precipitation Index reports that for the 2024-25 Water Year, there has been below average rainfall (2.27 inches) through February 10, 2025. The normal rainfall for this time period is 8.60 inches, so the District is 26% of normal.



Drought Monitor (February)

As of February 4, 2024, the U.S. Drought Monitor is reporting 67% of the State is abnormally dry (up 8%), 54% under moderate (up 22%), 35% under severe (up 29%), 21% under extreme (up 20%), and 0% exceptional (same) drought conditions. According to the U.S. Drought Monitor, Los Angeles County is currently in a severe or extreme drought.



California Snowpack Snow Water Content [SWE] (February 9, 2025)

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 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.

California's Seasonal Water Storage
Snowpack and Reservoirs vs Historical Medians (1970-2020)

2024-25 2025-02-09

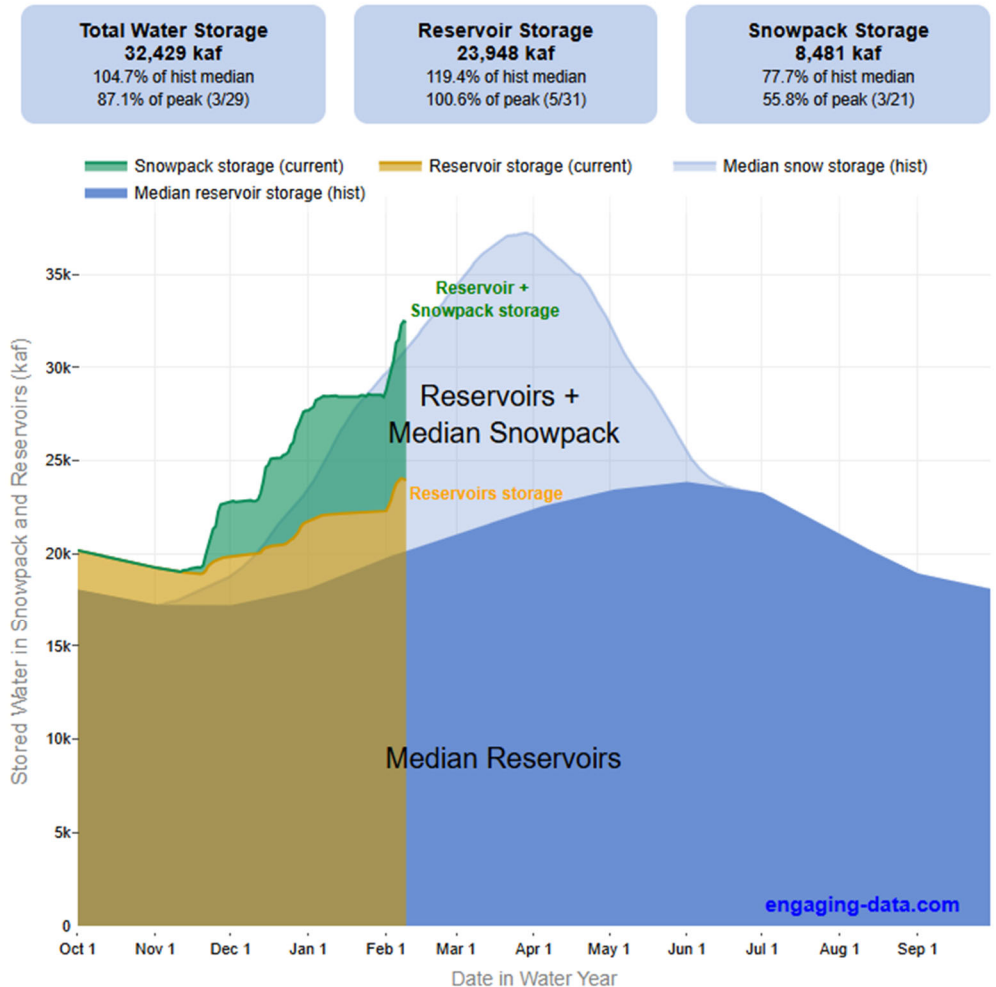
Snow Water Equivalent (SWE):

Northern Sierra Nevada
20.4 in., 79% of April 1st average and 115% of normal to date

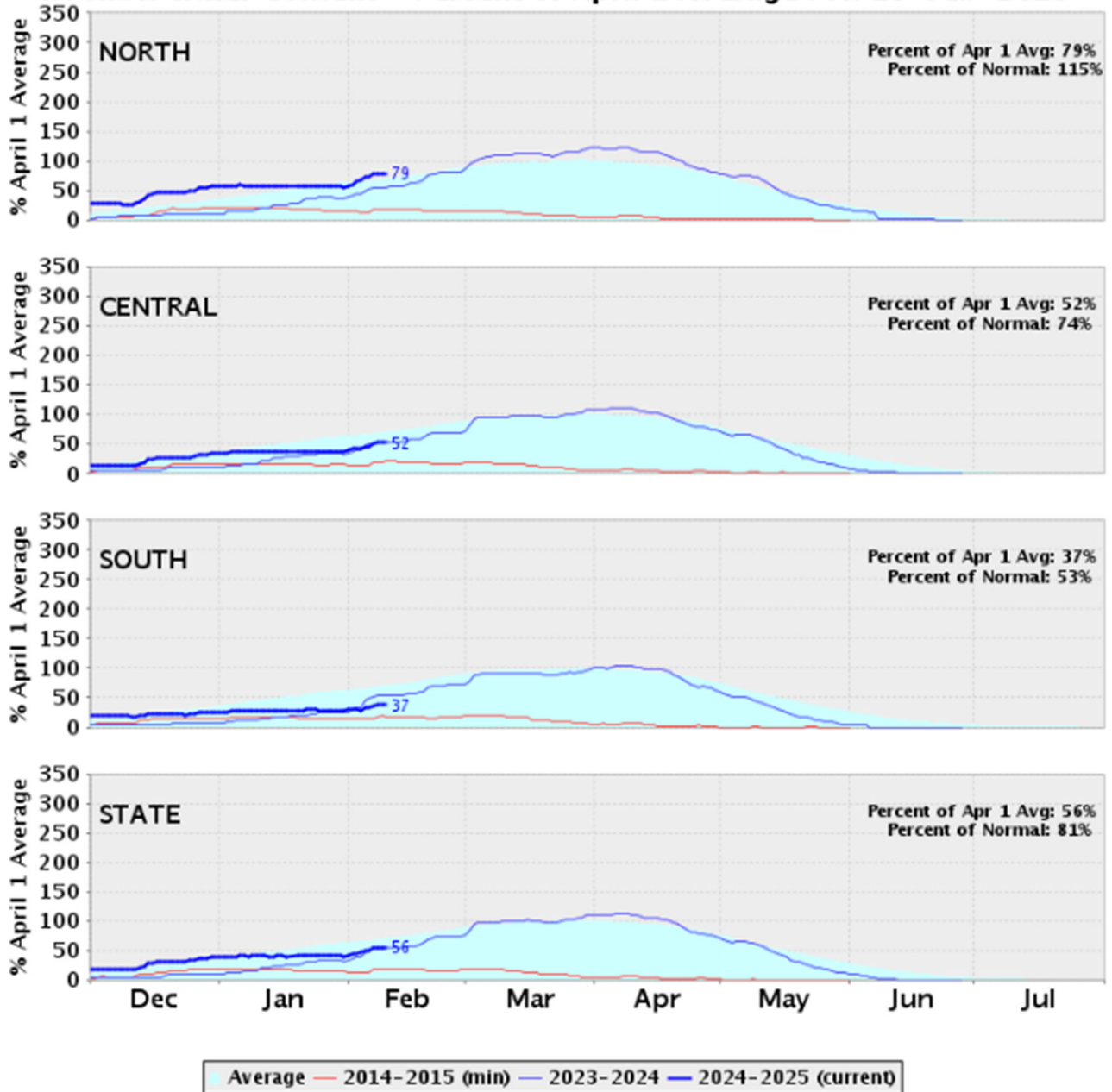
Central Sierra Nevada
14.6 in., 52% of April 1st average and 74% of normal to date

Southern Sierra Nevada
8.5 in., 37% of April 1st average and 53% of normal to date

Statewide Summary
14.6 in., 56% of April 1st average and 81% of normal to date



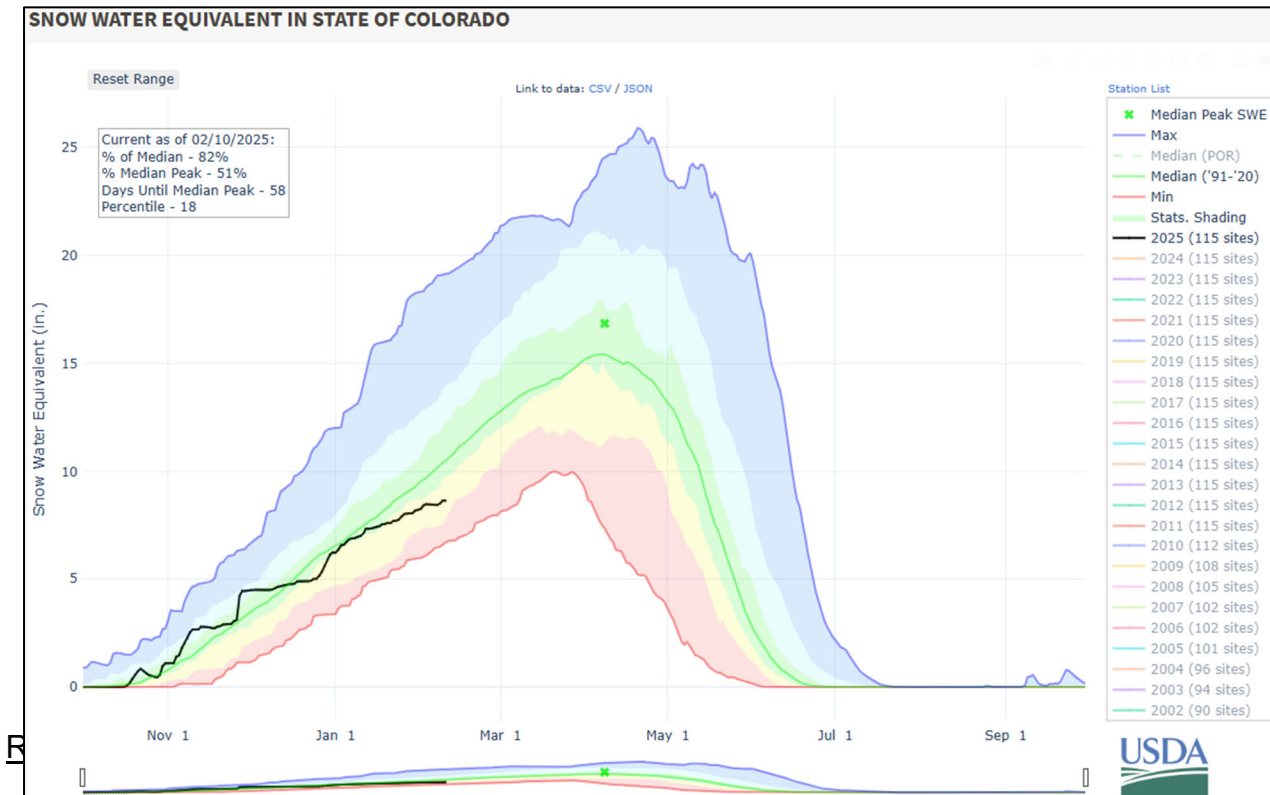
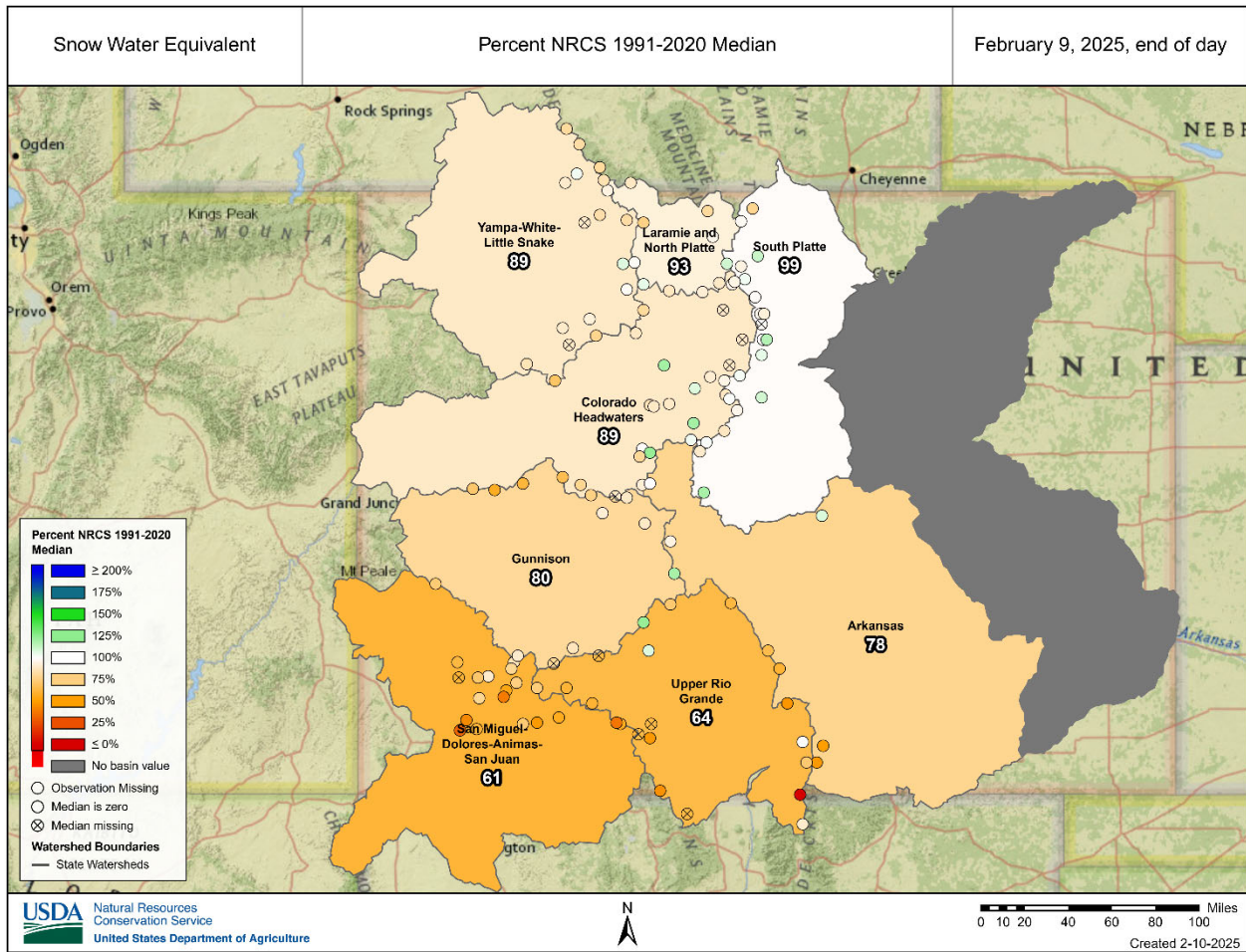
CA Snow Water Content - Percent of April 1 Average For: 10-Feb-2025



Statewide Percent of average to date **81.0%**

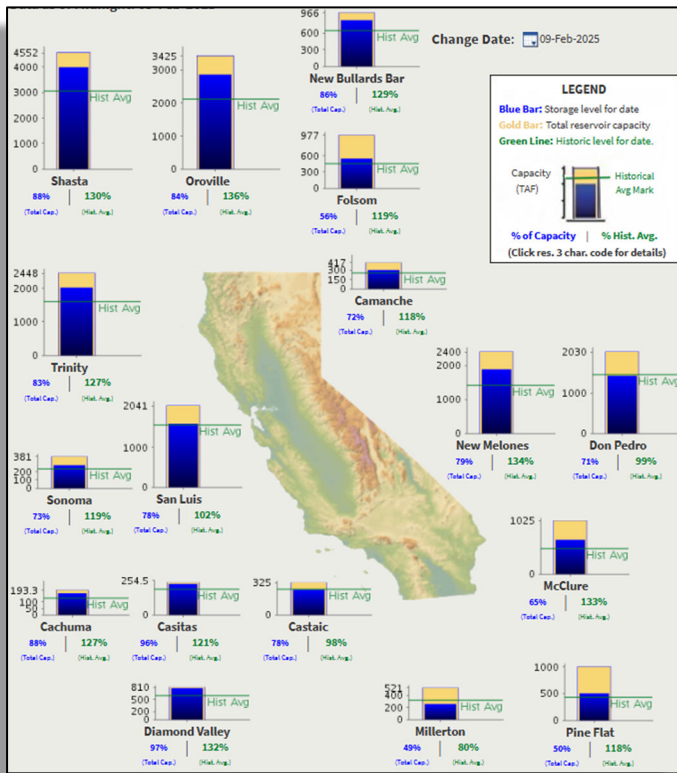
Colorado Snowpack (February 9, 2025)

As of February 9, 2025, the Colorado Snow Survey reported snowpack statewide is 82% of median. The SWE percent of median for 8 of 10 basins are presented of the map below with the Eastern South Platte and Eastern Arkansas Basins not reported at this time. Also presented below, the SWE chart illustrates the range of historic data (minimum, maximum, and median) on an annual basis with the current conditions presented by the black line.



Select California Reservoirs (February 9, 2025)

For the 21 reservoirs reported monthly to the committee, water levels have increased in 15 of 21 reservoirs. The largest increase occurred at Lake Oroville (0.45 million acre feet, MAF). The smallest increase occurred at Lakes Castaic and Perris (<0.01 MAF). The largest decrease (-0.27 MAF) occurred at Lake Powell. The smallest decrease (<-0.01 MAF) occurred at Lakes Camanche, Cachuma, Casitas, Silverwood, and Diamond Valley.



MWD Reservoirs (SWP) Storage in Million Acre Feet

Reservoir	Capacity	Storage	% Full	Change
Trinity Lake (CLE)	2.45	2.02	83%	0.15
Lake Shasta (SHA)	4.55	3.99	88%	0.44
Lake Oroville (ORO)	3.54	2.86	84%	0.45
New Bullards Bar (BUL)	0.97	0.83	86%	0.08
Folsom Lake (FOL)	0.98	0.55	56%	0.18
Camanche Lake (CMN)	0.42	0.30	72%	0.00
New Melones L. (NML)	2.40	1.89	79%	0.03
Don Pedro Res (DNP)	2.03	1.43	71%	0.04
Lake McClure (EXC)	1.02	0.66	64%	0.02
Lake Sonoma (WRS)	0.38	0.28	73%	0.02
San Luis Res (SNL)	2.04	1.59	78%	0.16
Millerton Lake (MIL)	0.52	0.25	49%	0.03
Pine Flat Res. (PNF)	1.00	0.50	50%	0.05
Cachuma Lake (CCH)	0.19	0.17	88%	0.00
Castaic Lake (CAS)	0.33	0.25	78%	0.00
Casitas Lake (CSI)	0.25	0.23	96%	0.00
Perris Lake (PRR)	0.13	0.11	82%	0.00
L. Silverwood (SLW)	0.08	0.07	88%	0.00

MWD Reservoirs (CRA) Storage in Million Acre Feet

Reservoir	Capacity	Storage	% Full	Change
Lake Powell	23.31	8.35	36%	-0.27
Lake Mead	26.12	8.91	34%	0.20
Diamond Valley L (DVL)	0.81	0.79	97%	0.00

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 49% capacity (36.04 MAF) which is up 1.57 MAF (2.1%) from the prior month (1.63 MAF State Water Project [SWP] and -0.07 MAF Colorado River Aqueduct [CRA]).

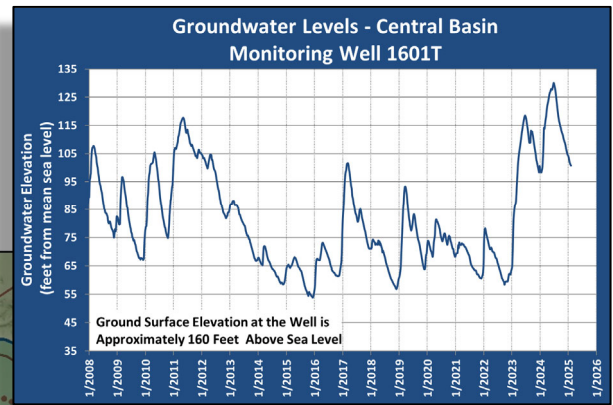
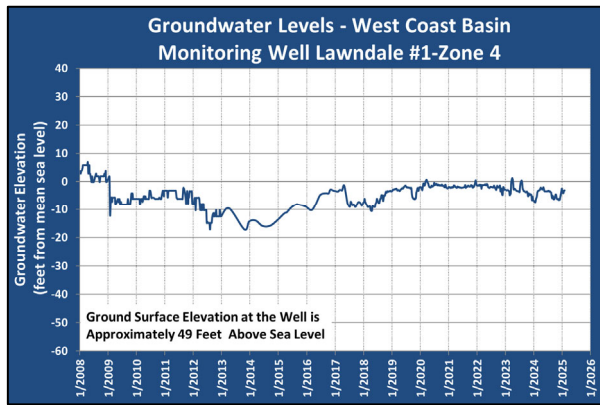


Did you know?

Fresh water bodies freeze faster than the oceans because the freezing point of water decreases as dissolved salt concentrations in water increase.

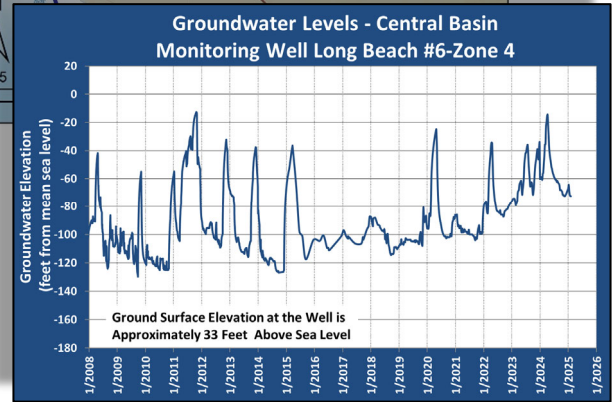
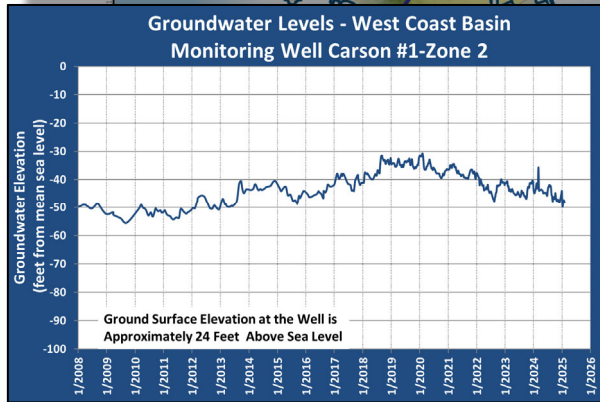
Groundwater Levels (February 6, 2025)

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



Central Basin Key Well Long Beach #6 and West Coast Basin Key Wells Lawndale #1 & Carson #1 are in a confined aquifer and do not respond readily to rainfall but instead to changes in pumping patterns and barrier recharge.

Central Basin Key Well 1601T is between the two spreading grounds and rises rapidly with rainfall and replenishment but falls sharply during dry spells and lack of replenishment.



Groundwater Level Changes in Key Wells

Well Name	Since Last Report	Since Same Time the Previous Year
Central Basin Key Well 1601T	Decreased 3.3 feet	Decreased 2.4 feet
Central Basin Key Well Long Beach #6 4	Decreased 5.4 feet	Decreased 16.0 feet
West Coast Basin Key Well Lawndale #1 4	Decreased 0.6 foot	Increased 2.7 feet
West Coast Basin Key Well Carson #1 2	Decreased 4.2 feet	Decreased 6.3 feet

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

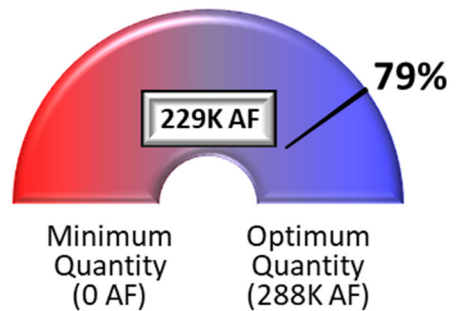
Optimum and Minimum Groundwater Quantity (February 6, 2025)

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 6, 2025, has been estimated at 671,173 acre feet (subject to change), which is 228,827 acre feet above the Minimum Quantity and 59,173 acre feet below Optimum Quantity. The Basin is at 79% of Optimum Quantity which is 5% lower than what was reported last month (~13,000 AF lower).

GW Basin Operating Range
February 6, 2025



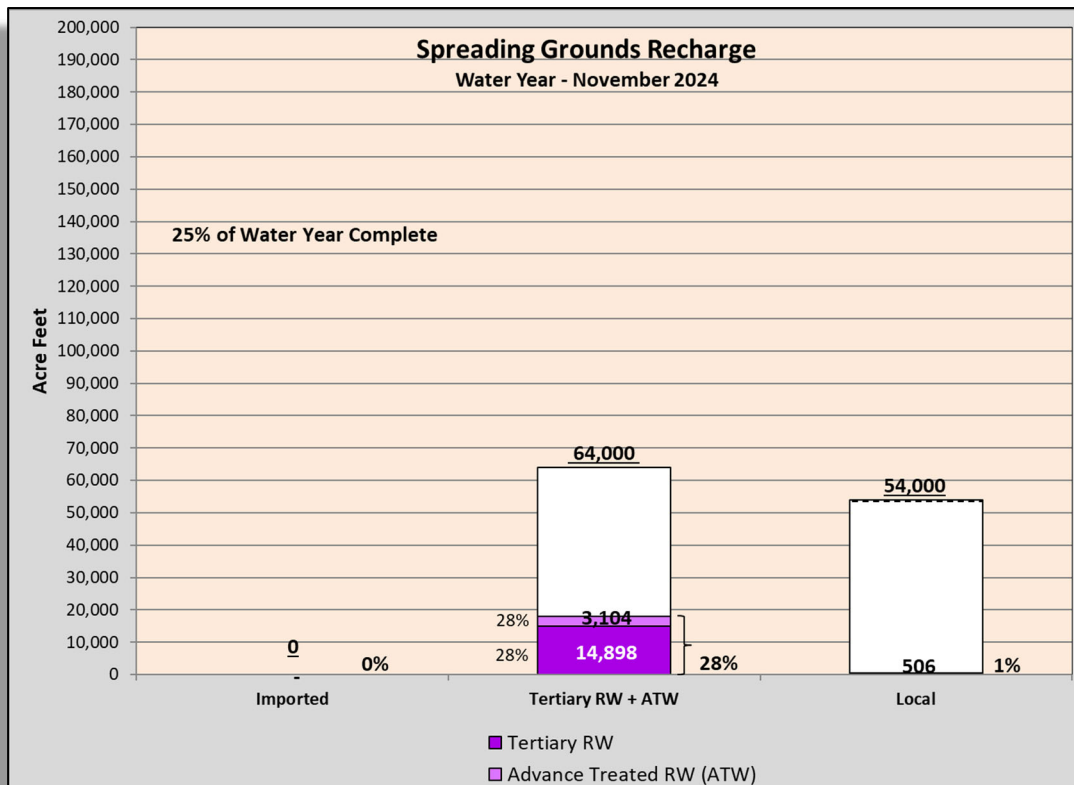
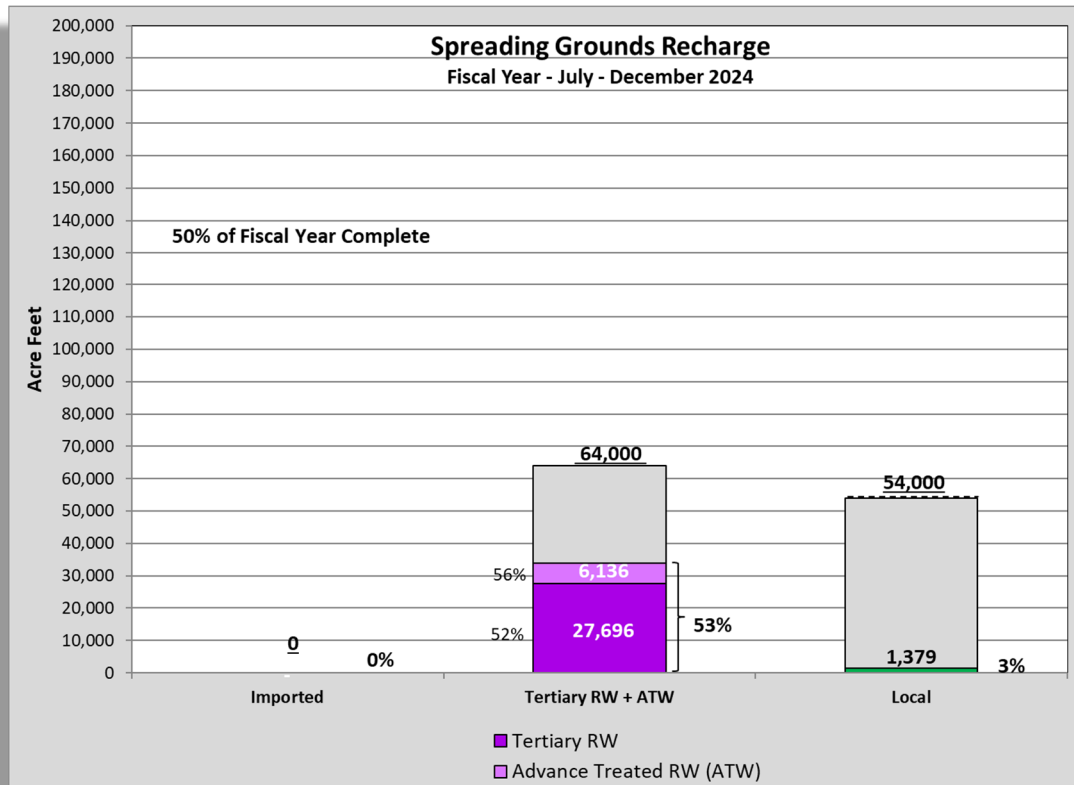
FACT:

Liquid pure water won't conduct electricity. Water conducts electricity only after it has dissolved substances (chemicals, minerals, and nutrients) that have electrical properties.



Montebello Forebay Spreading Grounds (July - December 2024)

The following Charts show the preliminary spreading grounds replenishment water for the current Fiscal Year (2024-25; 6 months) and Water Year (2024-25; 3 months):



No imported water purchases were planned for Fiscal Year 2024-25.

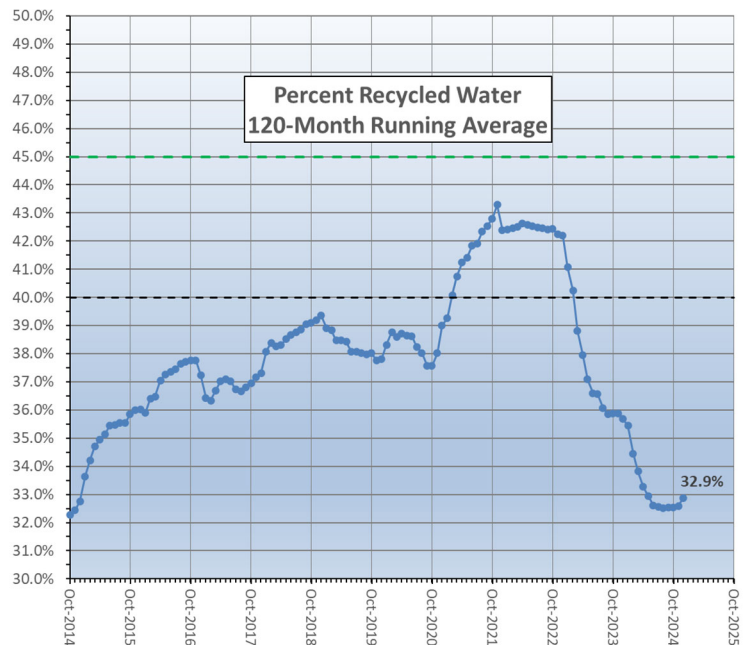
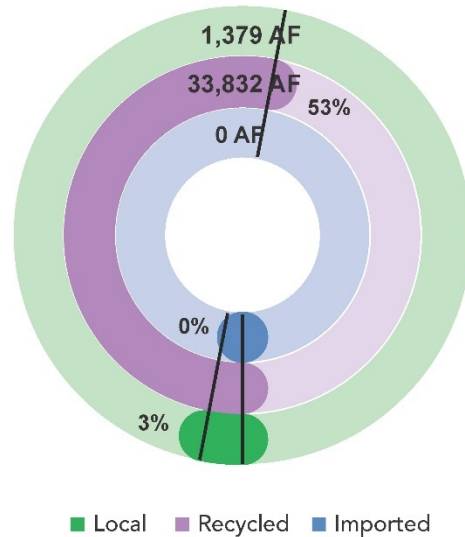
Local water (stormwater plus dry weather urban runoff) is captured by the Los Angeles County Department of Public Works (LACPW) at the spreading grounds for recharge. Local water amounts are determined as the sum of the total water conserved at the spreading grounds less the imported and recycled water deliveries. For the 2024-25 Fiscal Year, 1,379 acre feet of local water capture have been reported by the LACPW.

Preliminary numbers for the 2024-25 Fiscal Year show that approximately 33,832 acre feet of recycled water has been recharged with 6,136 acre feet consisting of advanced treated water from the ARC AWTF and 27,696 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 32.6% and the regulatory maximum is 45%, with additional monitoring being required once 40% is reached.

Tertiary Recycle Water Permit Update

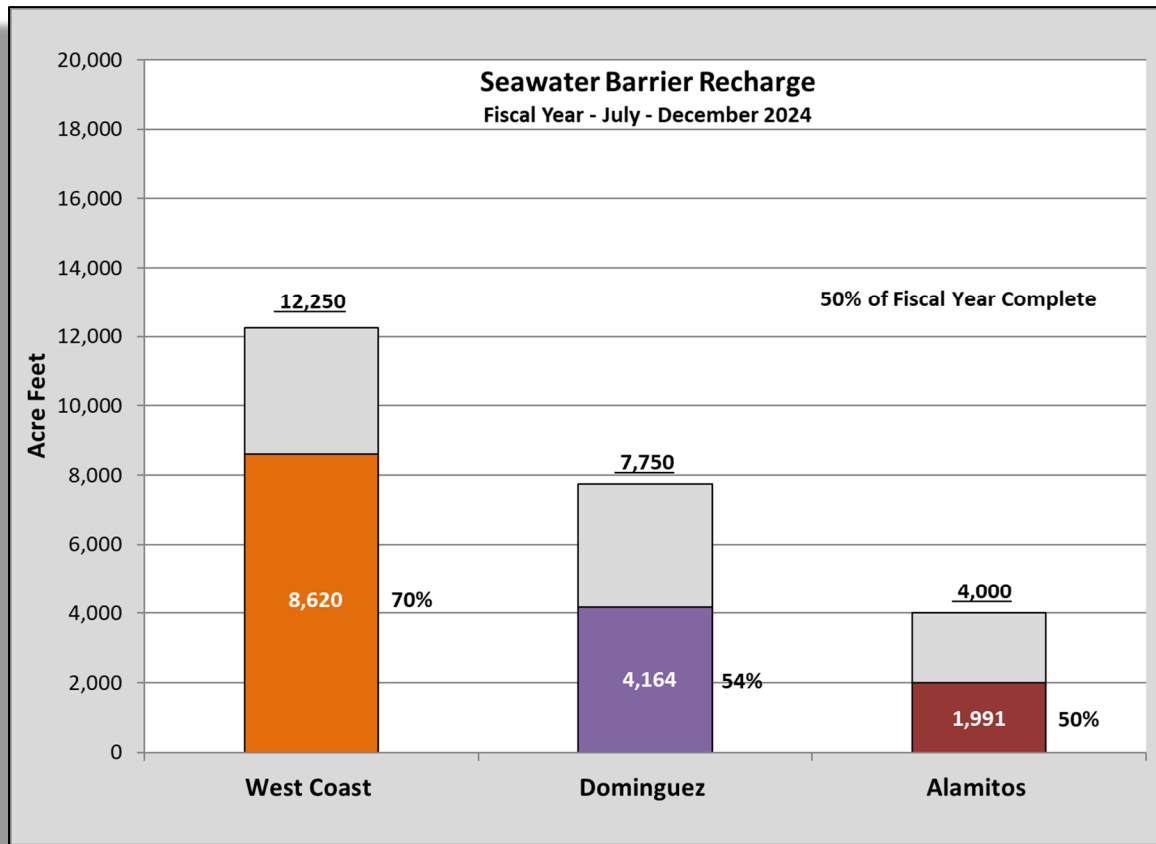
The permit is continuing to progress with LACSD and WRD staff working to update pertinent sections of the new Title 22 Engineering Report. Due to the persistent drought conditions over the past few decades and associated emergency drought proclamation by Governor Newsom, LACSD and WRD submitted a request 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 2025 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.

Spreading Grounds Recharge
Jul - Dec 2024

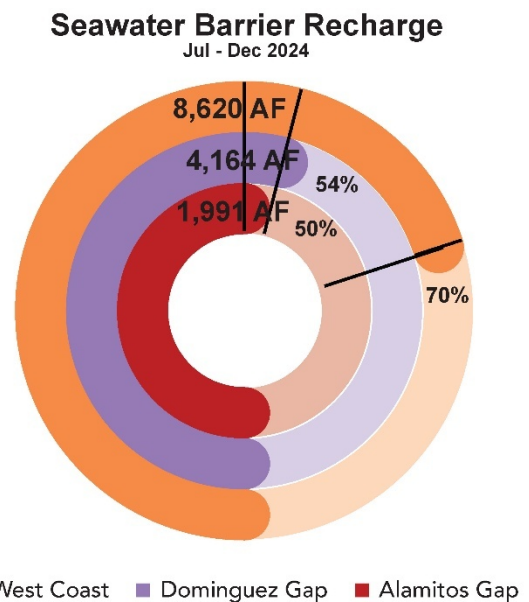


Seawater Barrier Well Injection and Replenishment (July - December 2024)

The following Chart shows the barrier water injection:

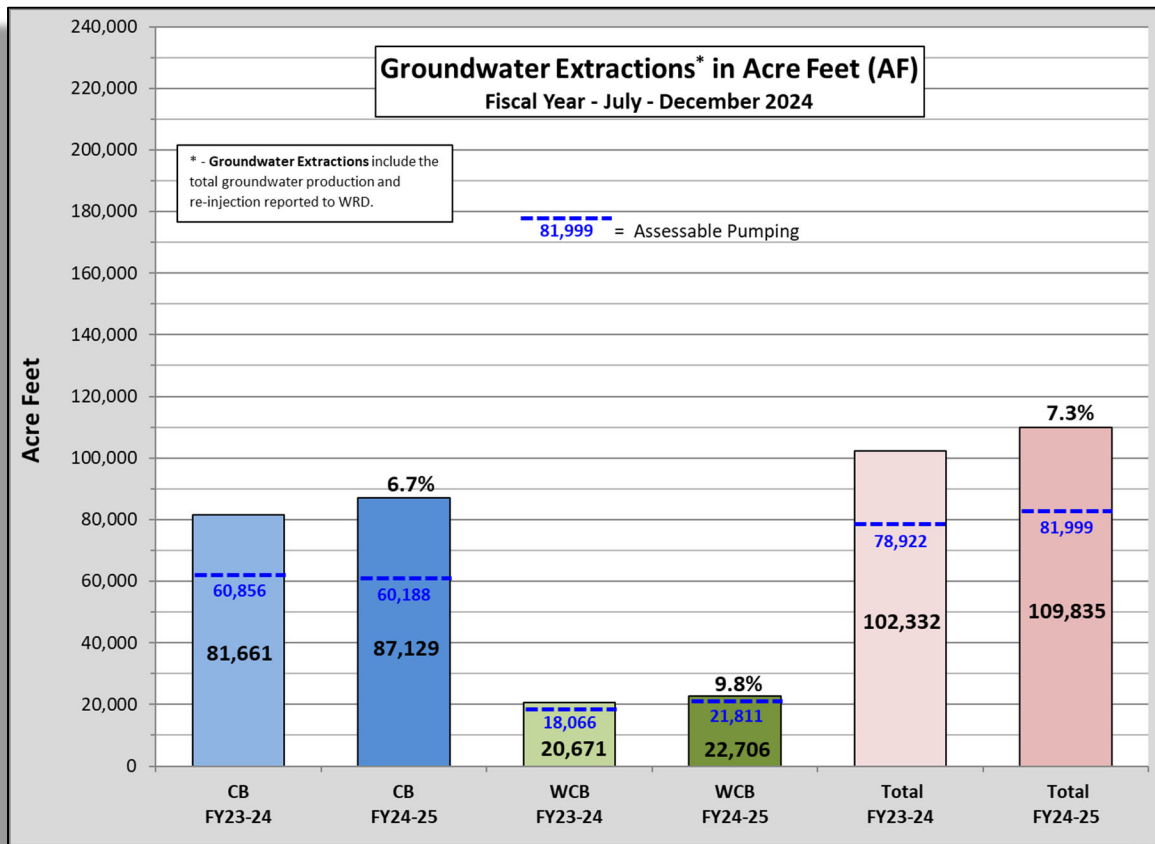


Preliminary numbers for the 2024-25 Fiscal Year show that the West Coast Barrier has used 8,620 acre feet of the total 12,250 acre feet planned for injection, 70% of total for the Fiscal Year. The Dominguez Gap Barrier used 4,164 acre feet of the total 7,750 acre feet planned for injection, 54% of the total for the Fiscal Year. The Alamos Gap Barrier, on the WRD side, used 1,991 acre feet of the total 4,000 acre feet planned for injection, 50% of the total for the Fiscal Year. Advanced Treated Recycled Water (ATW) usage at the three barriers for the Fiscal Year to date is 59% at the West Coast Barrier (+2%), 77% at the Dominguez Gap Barrier (-1%), and 73% Alamos Gap Barrier (same). The combined ATW usage at all three barriers is 66% (+1%).



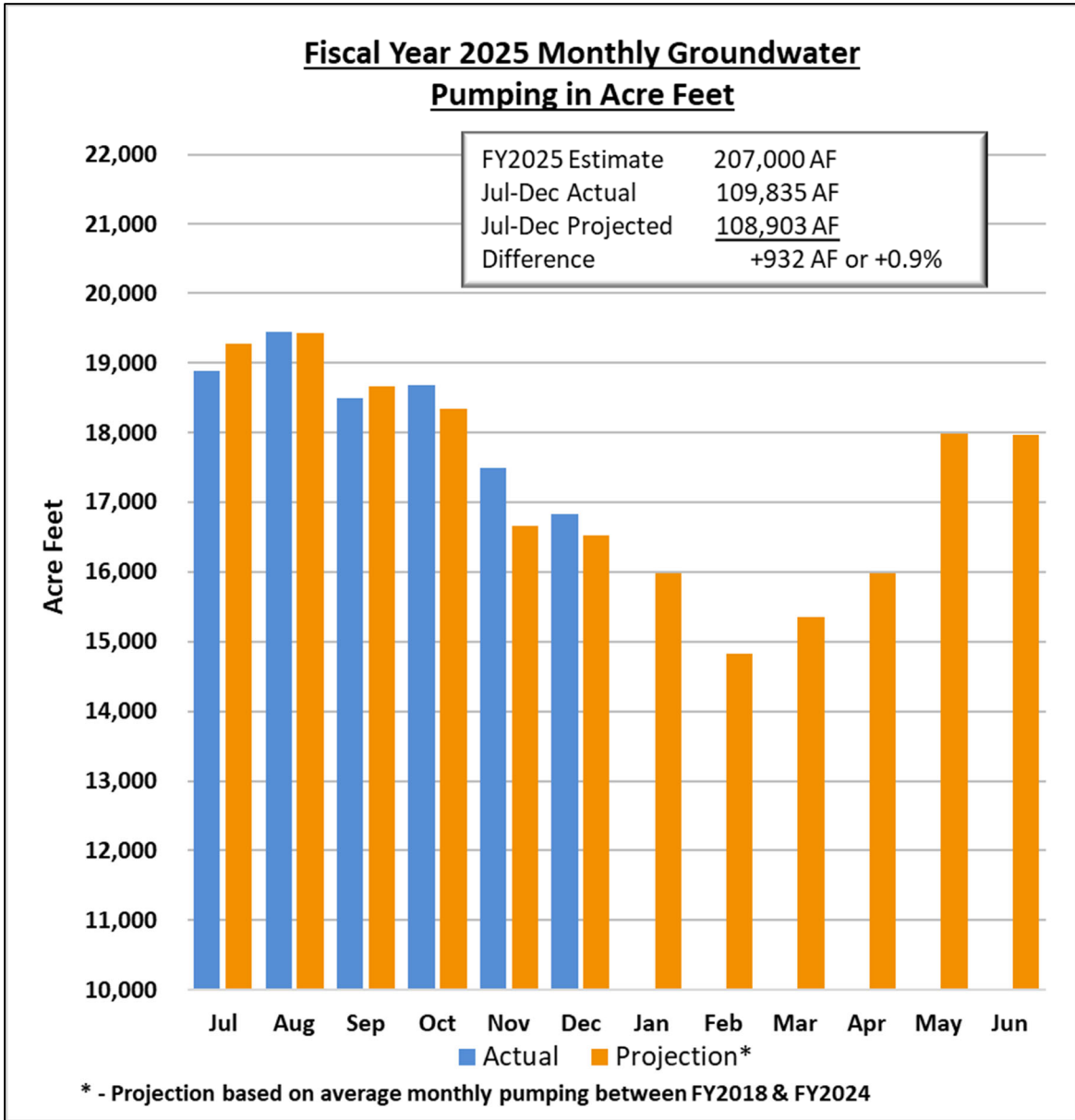
Total Pumping (Fiscal Year 2024-25, July - December 2024)

Preliminary numbers for groundwater production in the District for the Fiscal Year 2024-25 (July-December) indicate total pumping in the Central Basin was up 5,468 acre feet from the same time of the previous fiscal year (+6.7%) and the West Coast Basin total pumping was 2,035 acre feet higher than the previous fiscal year (+9.8%). The total pumping is 109,835 acre feet compared to 102,332 acre feet during the same time the previous year for an increase of 7,503 acre feet, or +7.3%. The current pumping data does not include ten (10) Central Basin pumpers and four (4) West Coast Basin pumpers, who have not yet reported, for an estimated 440 additional acre feet.



Interesting...
 The average total home water use for each person in the U.S. is about 80 gallons a day.

Preliminary numbers indicate 109,835 acre feet of groundwater have been pumped this fiscal year and is 0.9% above the projected fiscal year to date goal of 108,903 acre feet (or +932 acre feet). Monthly actual production versus the 7-year average monthly production projections (FY 2018 through 2024) are included in the chart below.



“Cleaning up groundwater contamination can be both time consuming and costly. That’s why it makes more sense to not contaminate it in the first place.” - Author Unknown



For the Fiscal Year 2024-25 (July-December 2024), 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 <u>by Volume</u> (AF)	Jul-Dec 2023	Jul-Dec 2023	Difference	% Change
Long Beach, City - CB	11,279.24	16,543.70	5264.46	31.82
Suburban Water Systems	802.39	1,426.25	623.86	43.74
Santa Fe Springs, City	355.43	910.38	554.95	60.96
South Gate, City	4,015.45	4,196.48	181.03	4.31
Cerritos, City	3,780.88	3,961.27	180.39	4.55
Bottom 5 Producing <u>by Volume</u> (AF)	Jul-Dec 2023	Jul-Dec 2023	Difference	% Change
Lynwood, City	2,395.54	1,585.04	-810.50	-51.13
Whittier, City	3,542.48	2,837.50	-704.98	-24.85
Bellflower-Somerset MWC	2,476.04	2,123.86	-352.18	-16.58
Signal Hill, City	643.73	341.65	-302.08	-88.42
Cal. American Water Co. Alpha 0679	979.90	906.23	-73.67	-8.13

Production Trends – West Coast Basin				
Top 5 Producing <u>by Volume</u> (AF)	Jul-Dec 2023	Jul-Dec 2023	Difference	% Change
Torrance, City	501.21	2,213.58	1712.37	77.36
Golden State Water Co. - WB	4,496.65	5,981.29	1484.64	24.82
Phillips 66 Co. - Alpha 7093	2,356.38	3,067.95	711.57	23.19
Tesoro Refining	4,267.24	4,865.25	598.01	12.29
L.A. County Department of Parks	86.04	194.55	108.51	55.77
Bottom 5 Producing <u>by Volume</u> (AF)	Jul-Dec 2023	Jul-Dec 2023	Difference	% Change
Cal. Water Service Co. Dominguez - WB	3,320.76	3,008.38	-312.38	-10.38
Inglewood, City	896.63	624.00	-272.63	-43.69
Eco Services Operations	294.64	57.86	-236.78	-409.23
Cal. Water Service Co./Hawthorne Lease	319.68	140.62	-179.06	-127.34
Torrance Refining	595.50	499.84	-95.66	-19.14

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 2023 - December 2023	July 2024 - December 2024	Difference	%Change
ABC USD	8.99	6.46	-2.53	-39.16
American Text. M.	31.05	29.61	-1.44	-4.86
Artesia, City	1.15	1.10	-.05	-4.55
Atlas Iron and Metal Co.	0.18	0.20	.02	10.00
Bell Gardens, City	0.00	0.00	.00	0.00
Bellflower Home Garden	0.00	0.00	.00	0.00
Bellflower-Somerset MWC	2,476.04	2,123.86	-352.18	-16.58
Boeing Co.	60.62	50.51	-10.11	-20.02
Boeing, Compton Site	33.23	33.36	.13	0.39
Cal. American Water Co. Alpha 0679	979.90	906.23	-73.67	-8.13
Cal. Water Service Co. (East LA)	5,634.31	5,658.98	24.67	0.44
Cal. Water Service Co. Dominguez - CB	566.56	693.41	126.85	18.29
Caltrans	7.94	2.73	-5.21	-190.84
Central Basin MWD	0.00	0.00	.00	0.00
Cerritos, City	3,780.88	3,961.27	180.39	4.55
Coast Packing Co.	66.93	77.42	10.49	13.55
Commerce, City	824.96	830.34	5.38	0.65
Compton, City	3,457.42	3,527.93	70.51	2.00
Darling-Delaware Co.	0.00	0.00	.00	0.00
Defense Logistic Agency	2.32	1.17	-1.15	-98.29
Demunno Kerdoon	1.19	1.35	.16	11.85
Downey, City	7,249.23	7,353.99	104.76	1.42
El Rancho Unified School District	0.00	0.00	.00	0.00
Golden State Water Co. - CB	9,139.89	9,216.77	76.88	0.83
HMB Bandini, LLC	0.00	0.12	.12	100.00

Central Basin	July 2023 - December 2023	July 2024 - December 2024	Difference	%Change
Huntington Park, City - Alpha 2378	1,356.79	1,439.88	83.09	5.77
L.A. County Department of Parks	0.00	0.00	.00	0.00
LA County Rancho Los Amigos	110.61	128.24	17.63	13.75
La Habra Heights County WD	1,290.77	1,446.24	155.47	10.75
Lakewood - City	3,577.58	3,521.76	-55.82	-1.59
Liberty Utilities - CB	2,207.23	2,153.57	-53.66	-2.49
Little Lake Cemetery District	0.00	0.00	.00	0.00
Long Beach, City - CB	11,279.24	16,543.70	5264.46	31.82
Los Angeles, City - CB	7.89	8.50	.61	7.18
Lunday-Thagard	0.00	0.00	.00	0.00
Lynwood Park Mutual Water Co.	14.24	17.81	3.57	20.04
Lynwood, City	2,395.54	1,585.04	-810.50	-51.13
Maywood Mutual No. 1	325.18	327.88	2.70	0.82
Maywood Mutual No. 2	467.66	479.82	12.16	2.53
Maywood Mutual No. 3	724.48	732.92	8.44	1.15
Montebello Land and Water Co.	1,500.58	1,546.62	46.04	2.98
Newark Group, Inc.	75.81	69.71	-6.10	-8.75
Norwalk, City	160.93	165.28	4.35	2.63
Omega OU1/OU3 LLC	2.88	3.80	.92	24.21
Orchard Dale Water District	942.27	1,020.83	78.56	7.70
PABCO Building Products	0.00	0.00	.00	0.00
Paradise Memorial Park	5.61	6.79	1.18	17.38
Paramount USD	0.81	0.16	-.65	-406.25
Paramount, City	1,414.57	1,398.94	-15.63	-1.12
Pico Rivera, City	2,036.19	2,099.10	62.91	3.00
Pico Water District	1,354.25	1,366.22	11.97	0.88
Rockview Dairies	1.78	84.94	83.16	97.90
Roman Catholic Archbishop - CB	150.82	190.22	39.40	20.71

Central Basin	July 2023 - December 2023	July 2024 - December 2024	Difference	%Change
Rowland Water District	0.00	0.00	.00	0.00
San Gabriel Valley Water Co.	1,561.28	1,636.51	75.23	4.60
Santa Fe Springs, City	355.43	910.38	554.95	60.96
Scantlebury, Robert P.	0.18	0.12	-.06	-50.00
SFPP L.P.	0.00	0.00	.00	0.00
Signal Hill, City	643.73	341.65	-302.08	-88.42
South Gate, City	4,015.45	4,196.48	181.03	4.31
South Montebello Irrigation Dist	842.60	862.30	19.70	2.28
Southern California Edison Co. - CB	0.53	0.00	-.53	-100.00
St. John Bosco School	5.77	4.10	-1.67	-40.73
Suburban Water Systems	802.39	1,426.25	623.86	43.74
Tract 180 Water Co.	629.55	635.41	5.86	0.92
Tract 349 Mutual Water Co.	319.10	333.97	14.87	4.45
Tucker, William M.	0.02	0.00	-.02	-100.00
Vernon, City	2,413.13	2,350.40	-62.73	-2.67
Virginia Country Club	183.43	165.96	-17.47	-10.53
Walnut Park Mutual	544.51	543.18	-1.33	-0.24
Whittier Union HSD	13.74	12.43	-1.31	-10.54
Whittier, City	3,542.48	2,837.50	-704.98	-24.85
WRD	60.74	47.41	-13.33	-28.12
Yamamoto, Alice	0.00	0.00	.00	0.00

West Coast Basin Production Trends

West Basin	July 2023 - December 2023	July 2024 - December 2024	Difference	%Change
	0.00	0.00	.00	0.00
ABC Nursery	6.00	0.00	-6.00	-100.00
Cal. Water Service Co. Alpha 7050	518.77	506.13	-12.64	-2.50
Cal. Water Service Co. Dominguez - WB	3,320.76	3,008.38	-312.38	-10.38
Cal. Water Service Co./Hawthorne Lease	319.68	140.62	-179.06	-127.34
Eco Services Operations	294.64	57.86	-236.78	-409.23
Golden State Water Co. - WB	4,496.65	5,981.29	1484.64	24.82
Hillside Memorial Park	59.68	75.31	15.63	20.75
Honeywell International	0.00	0.00	.00	0.00
Inglewood, City	896.63	624.00	-272.63	-43.69
Kinder Morgan Liquids Terminals	20.43	18.87	-1.56	-8.27
L.A. County Department of Parks	86.04	194.55	108.51	55.77
L.A. County Sanitation Districts-JWPCP	0.00	0.00	.00	0.00
Lockheed Martin Corp.	0.00	0.00	.00	0.00
Lomita, City	0.00	0.00	.00	0.00
Long Beach, City - WB	22.20	0.00	-22.20	-100.00
Manhattan Beach, City	101.47	46.04	-55.43	-120.40
Montrose Chemical Corp.	-0.82	-0.43	.39	-90.70
Myron Z. Chalavin	0.00	0.00	.00	0.00
Phillips 66 Co. - Alpha 7093	2,356.38	3,067.95	711.57	23.19
Rolling Hills Country Club	136.00	231.00	95.00	41.13
Roman Catholic Archbishop - WB	67.09	164.33	97.24	59.17
SCI Funeral Services	18.88	31.38	12.50	39.83
Shell Oil Co NCWUP	24.59	47.57	22.98	48.31
Southern California Edison Co. - WB	13.73	9.57	-4.16	-43.47

West Basin	July 2023 - December 2023	July 2024 - December 2024	Difference	%Change
Tesoro Refining	4,267.24	4,865.25	598.01	12.29
Torrance Refining	595.50	499.84	-95.66	-19.14
Torrance, City	501.21	2,213.58	1712.37	77.36
West Basin Brewer Desalter	0.00	0.00	.00	0.00