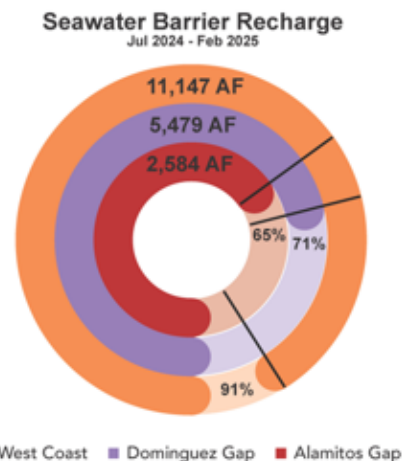
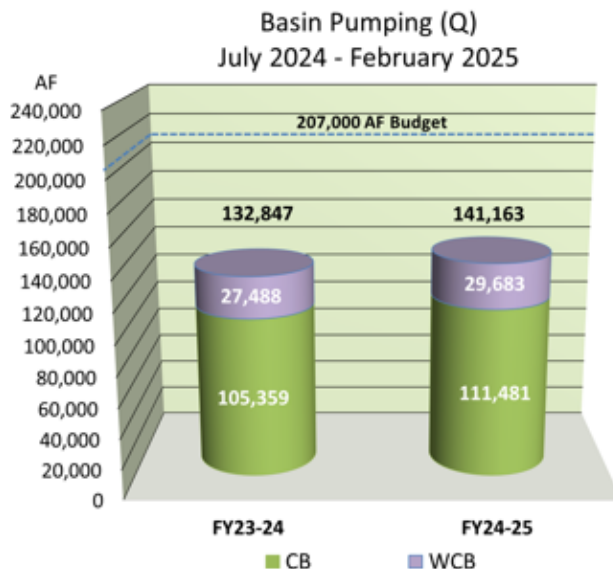
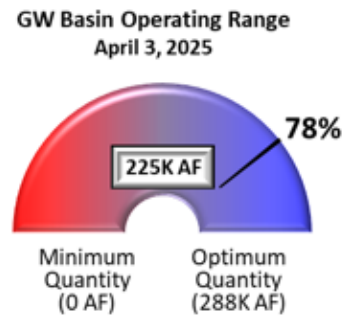
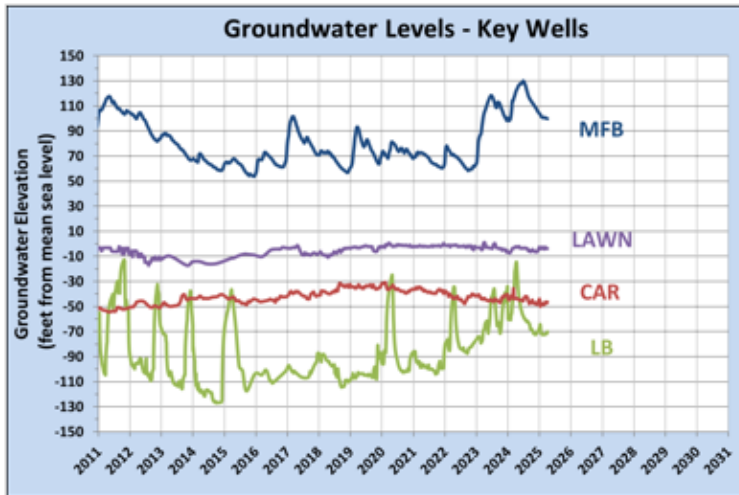
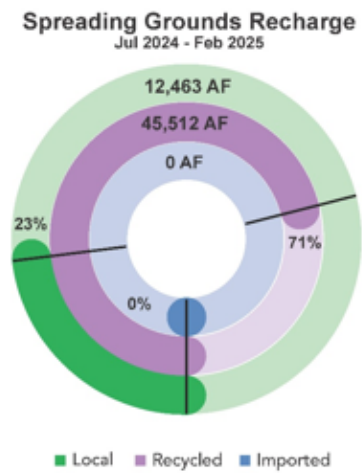
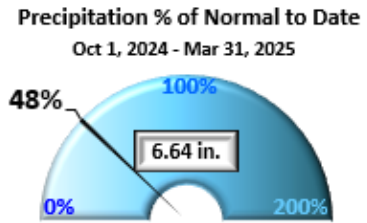
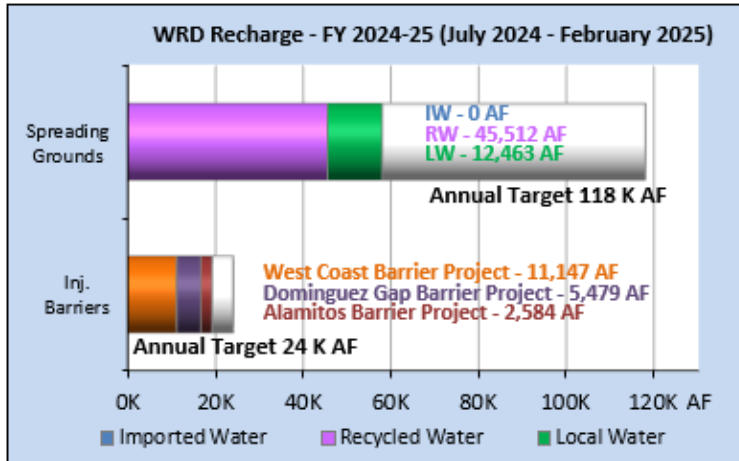


GROUNDWATER BASIN UPDATE FOR APRIL 2025

GROUNDWATER BASINS AT A GLANCE*



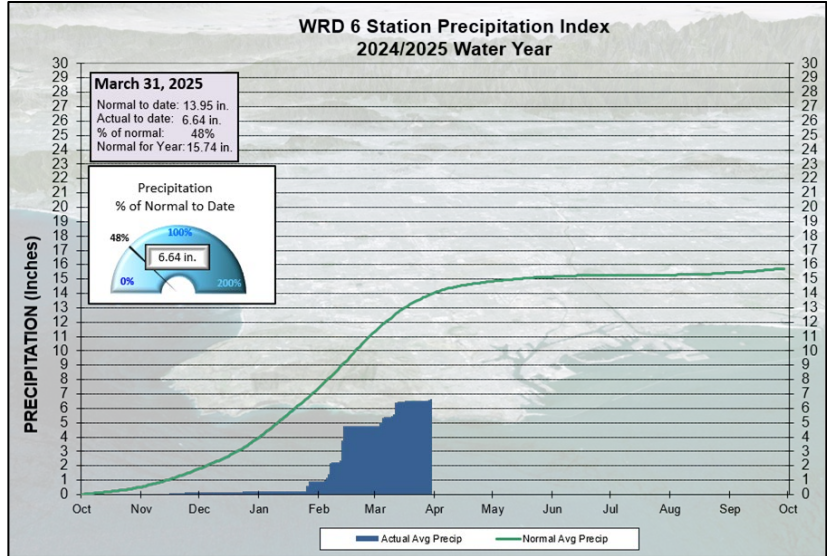
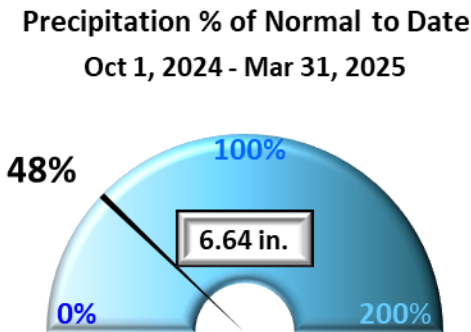
* - Preliminary numbers, subject to change.

SUMMARY

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

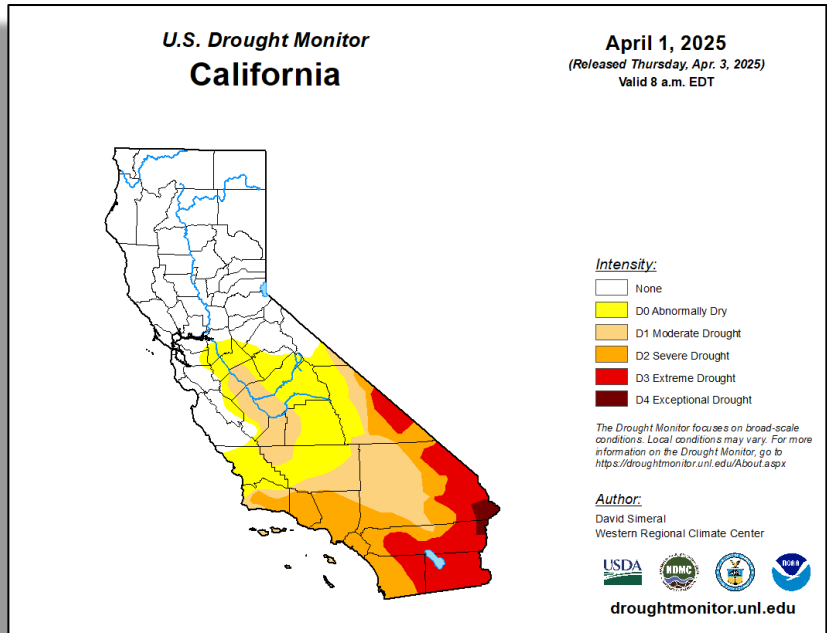
Precipitation (October 1, 2024 - March 31, 2025)

The WRD 6 Station Precipitation Index reports that for the 2024-25 Water Year, there has been below average rainfall (6.64 inches) through March 31, 2025. The normal rainfall for this time period is 13.95 inches, so the District is 48% of normal.



Drought Monitor (March)

As of April 3, 2024, the U.S. Drought Monitor is reporting 56% of the State is abnormally dry (down 2%), 40% under moderate (down 2%), 25% under severe (same), 12% under extreme (down 3%), and 1% exceptional (same) drought conditions. According to the U.S. Drought Monitor, Los Angeles County is currently in a severe or moderate drought.



California Snowpack Snow Water Content [SWE] (April 10, 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.

Snow Water Equivalent (SWE):

Northern Sierra Nevada

30.9 in., 119% of April 1st average and 122% of normal to date

Central Sierra Nevada

26.1 in., 94% of April 1st average and 96% of normal to date

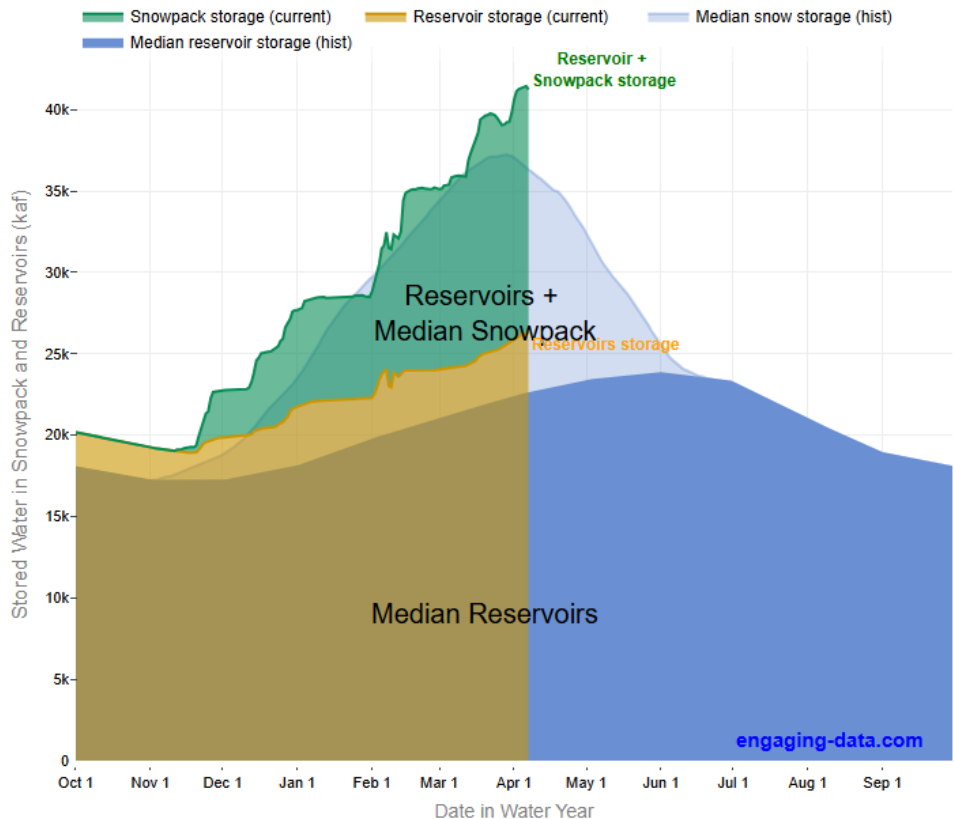
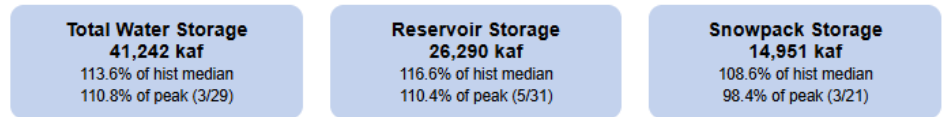
Southern Sierra Nevada

18.6 in., 82% of April 1st average and 85% of normal to date

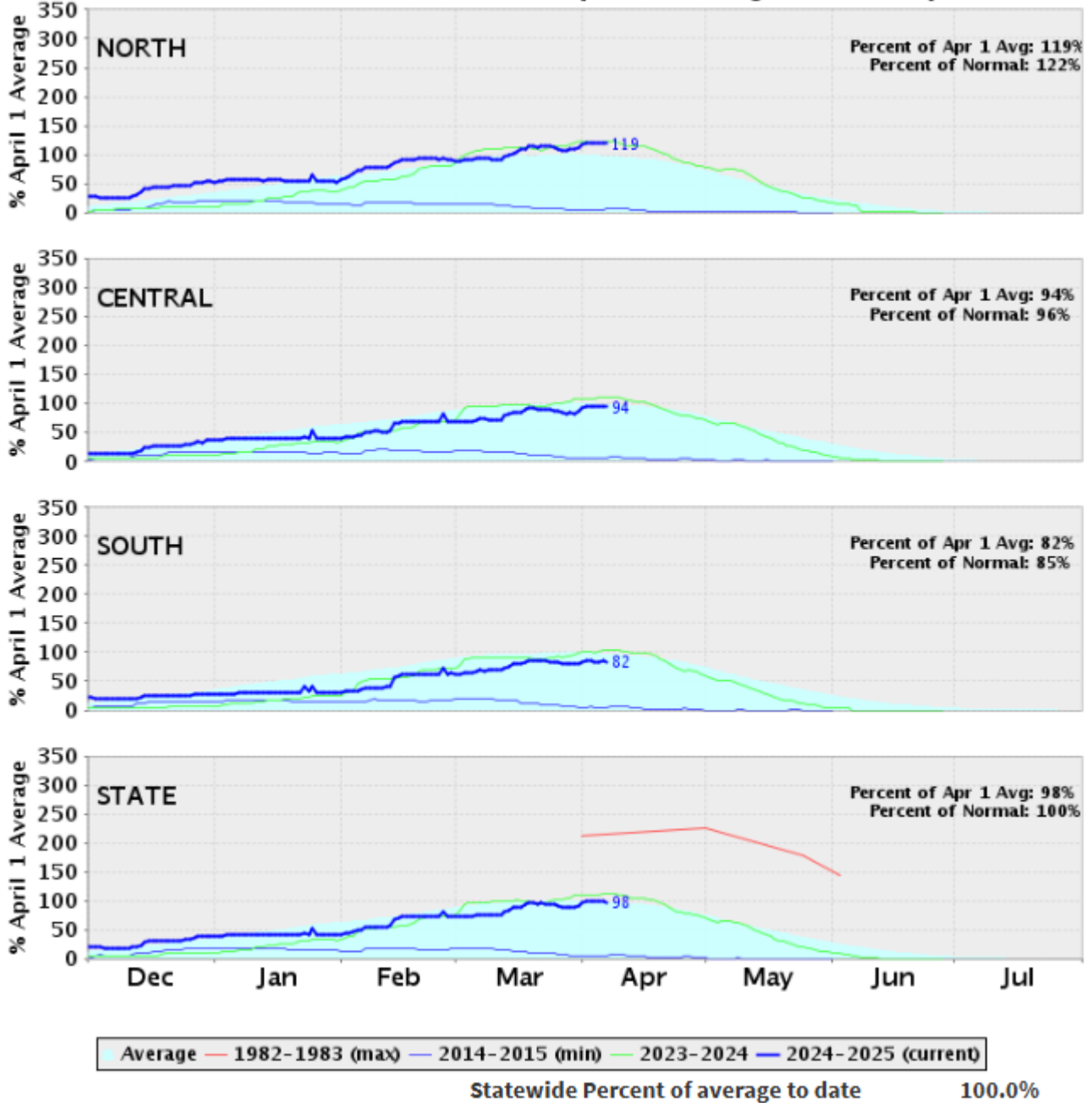
Statewide Summary
25.6 in., 98% of April 1st average and 100% of normal to date

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

2024-25 2025-04-07

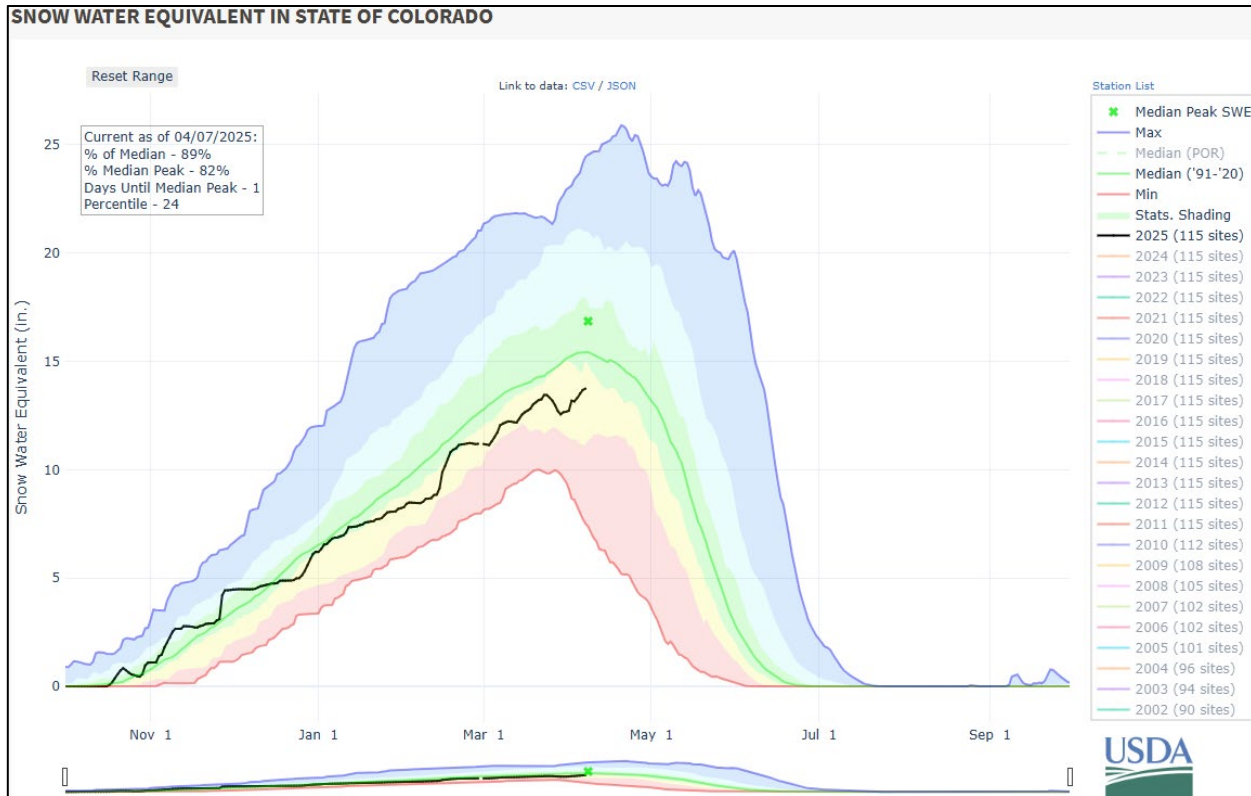
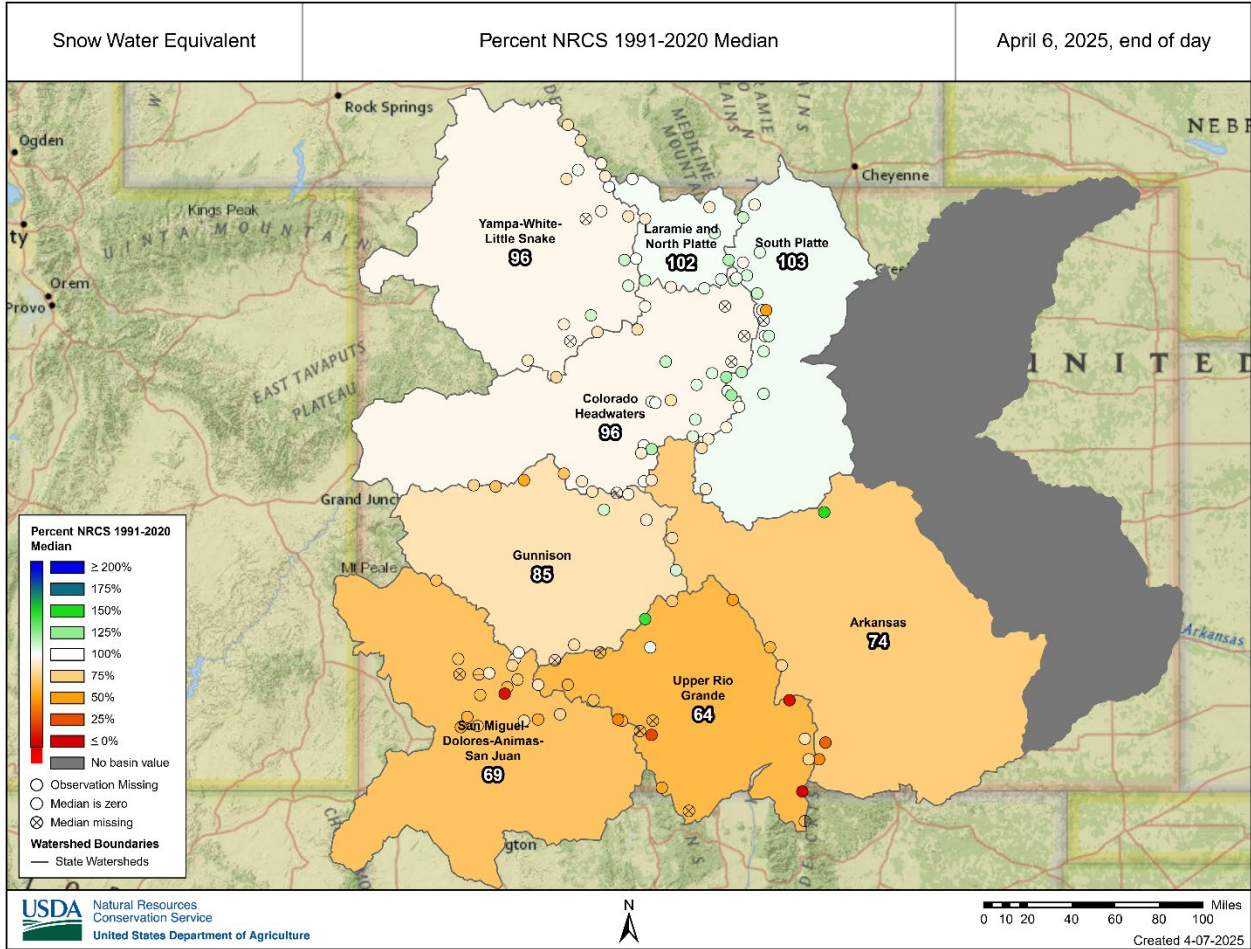


CA Snow Water Content - Percent of April 1 Average For: 07-Apr-2025



Colorado Snowpack (April 7, 2025)

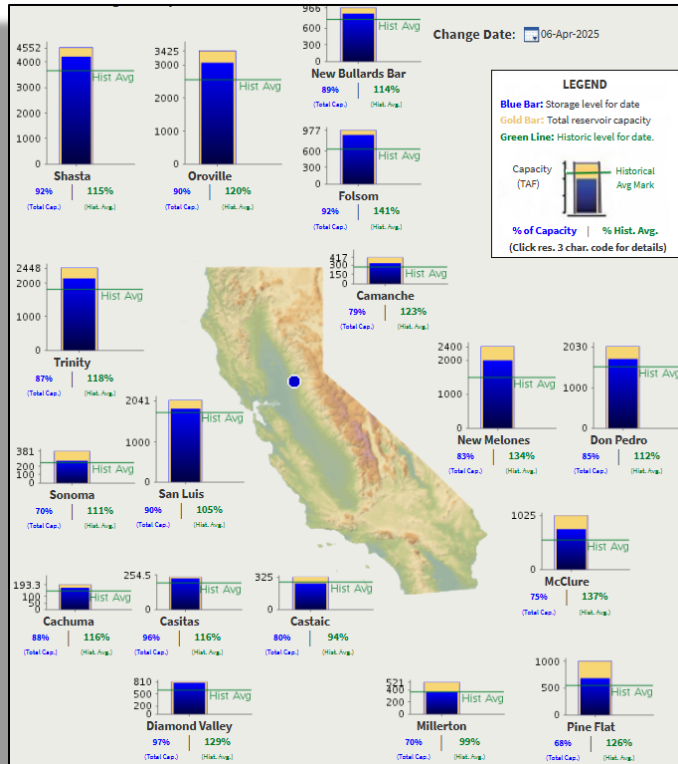
As of April 7, 2025, the Colorado Snow Survey reported snowpack statewide is 89% of median. The SWE percent of median for 8 of 10 basins are presented of the map below with the Eastern South Platte and Eastern Arkansas Basins not reported at this time. Also presented below, the SWE chart illustrates 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 (April 6, 2025)

For the 21 reservoirs reported monthly to the committee, water levels have increased in 17 of 21 reservoirs. The largest increase occurred at Lake Shasta (0.55 million acre feet, MAF). The smallest increase occurred at Lakes Sonoma, Cachuma, Casitas, and Perris (<0.01 MAF). The largest decrease (-0.22 MAF) occurred at Lake Powell. The smallest decrease (<-0.01 MAF) occurred at Lake Silverwood.

DWR Managed Reservoirs (SWP) Storage in Million Acre Feet



Reservoir	Capacity	Storage	% Full	Change
Trinity Lake (CLE)	2.45	2.14	87%	0.12
Lake Shasta (SHA)	4.55	4.21	92%	0.55
Lake Oroville (ORO)	3.54	3.07	90%	0.19
New Bullards Bar (BUL)	0.97	0.86	89%	0.05
Folsom Lake (FOL)	0.98	0.89	92%	0.27
Camanche Lake (CMN)	0.42	0.33	79%	0.01
New Melones L. (NML)	2.40	2.00	83%	0.05
Don Pedro Res (DNP)	2.03	1.72	85%	0.18
Lake McClure (EXC)	1.02	0.77	75%	0.05
Lake Sonoma (WRS)	0.38	0.27	70%	0.00
San Luis Res (SNL)	2.04	1.83	90%	0.13
Millerton Lake (MIL)	0.52	0.37	70%	0.07
Pine Flat Res. (PNF)	1.00	0.68	68%	0.10
Cachuma Lake (CCH)	0.19	0.17	88%	0.00
Castaic Lake (CAS)	0.33	0.26	80%	0.02
Casitas Lake (CSI)	0.25	0.23	96%	0.00
Perris Lake (PRR)	0.13	0.11	85%	0.00
L. Silverwood (SLW)	0.08	0.07	88%	0.00

USBR and MWD Reservoirs (CRA) Storage in Million Acre Feet

Reservoir	Capacity	Storage	% Full	Change
Lake Powell	23.31	7.75	33%	-0.22
Lake Mead	26.12	8.94	34%	-0.12
Diamond Valley L (DVL)	0.81	0.78	97%	-0.01

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

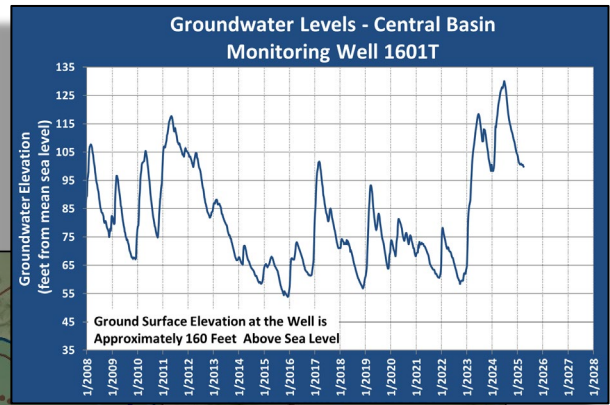
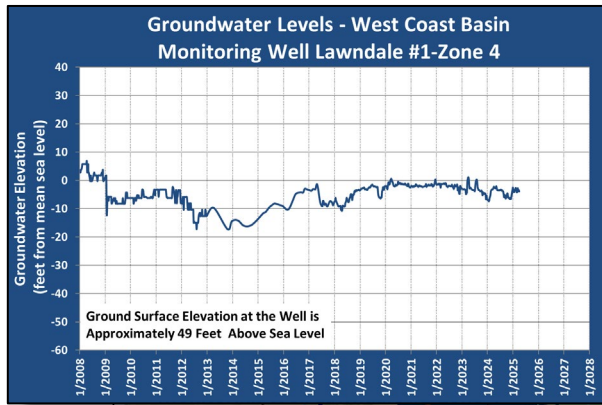
These 21 reservoirs are at 51% capacity (37.45 MAF) which is up 1.45 MAF (2.0%) from the prior month (1.80 MAF State Water Project [SWP] and -0.35 MAF Colorado River Aqueduct [CRA]).



Did you know?
 water (H₂O) exists in three physical states
 - solid (ice), liquid (water), and vapor.

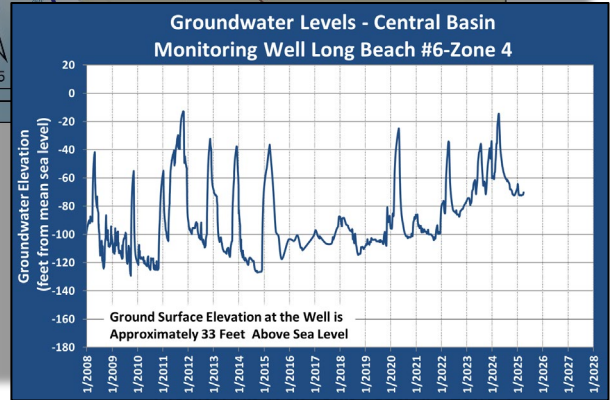
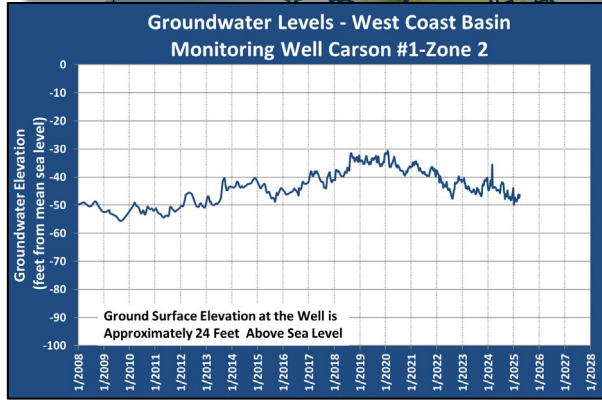
Groundwater Levels (April 3, 2025)

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 0.7 foot	Decreased 22.0 feet
Central Basin Key Well Long Beach #6 4	Increased 2.1 feet	Decreased 54.7 feet
West Coast Basin Key Well Lawndale #1 4	Increased 0.2 foot	Decreased 1.6 feet
West Coast Basin Key Well Carson #1 2	Increased 1.4 feet	Decreased 2.7 feet

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

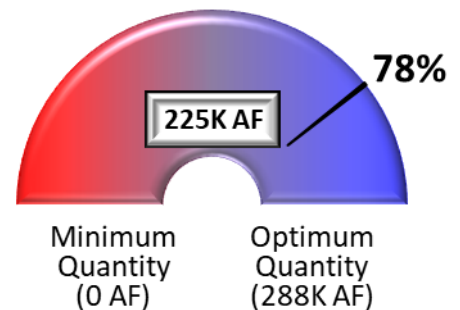
Optimum and Minimum Groundwater Quantity (April 3, 2025)

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 April 3, 2025, has been estimated at 674,874 acre feet (subject to change), which is 225,126 acre feet above the Minimum Quantity and 62,874 acre feet below Optimum Quantity. The Basin is at 78% of Optimum Quantity which is down 1% from what was reported last month (~3,000 AF lower).

GW Basin Operating Range
April 3, 2025



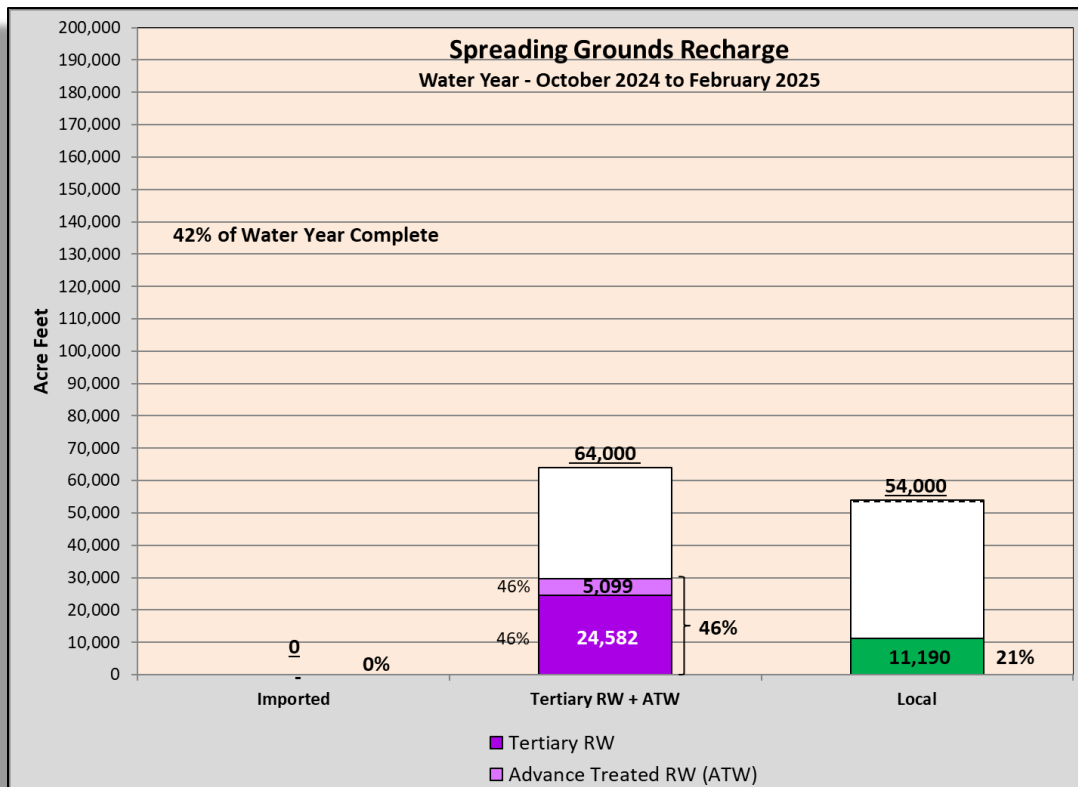
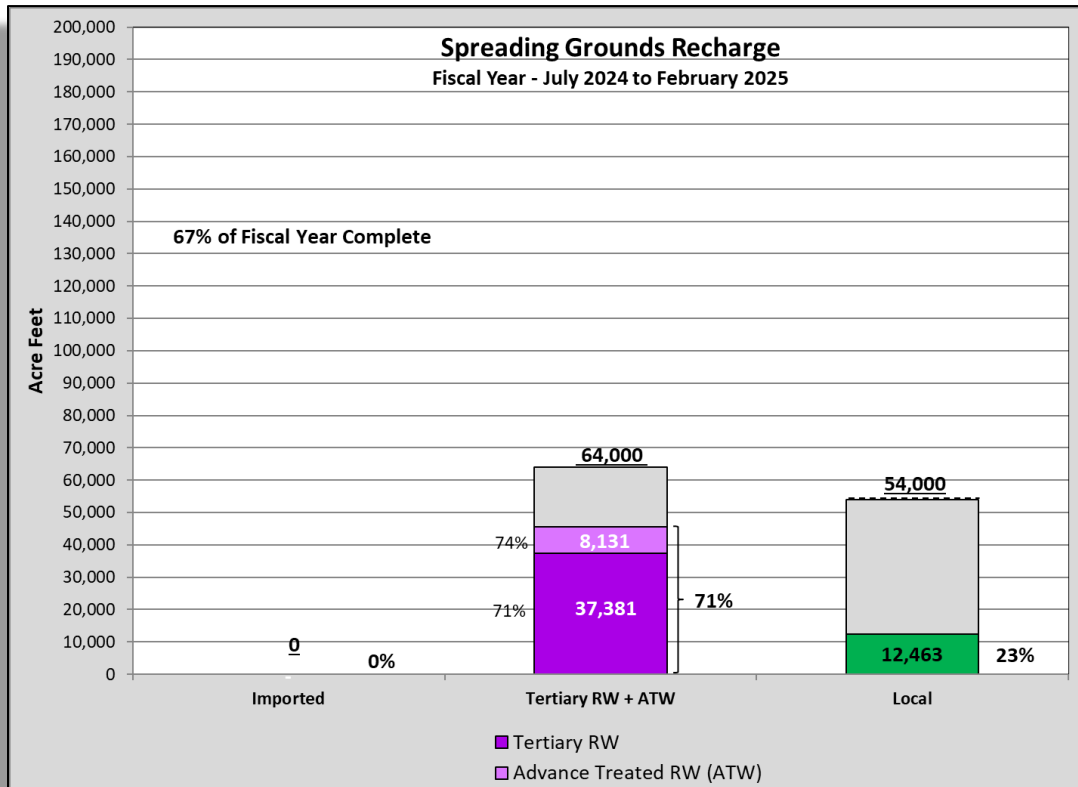
FACT:

The reason we can see icebergs float in the ocean is because ice (solid state of water) is less dense than liquid fresh water and saline ocean water is more dense than fresh water.



Montebello Forebay Spreading Grounds (July 2024 - February 2025)

The following Charts show the preliminary spreading grounds replenishment water for the current Fiscal Year (2024-25; 8 months) and Water Year (2024-25; 5 months):



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

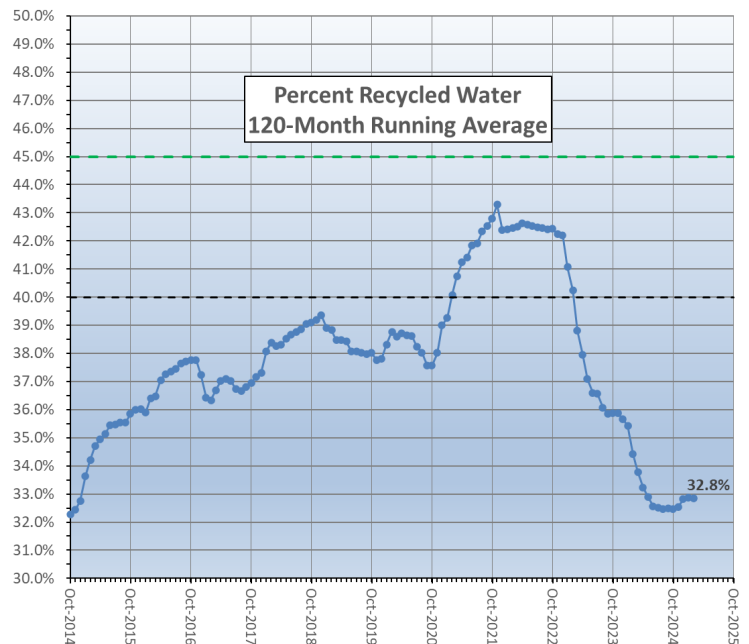
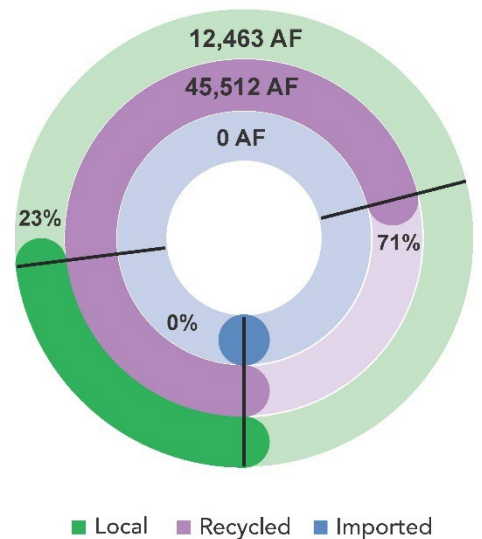
Local water (stormwater plus dry weather urban runoff) is captured by the Los Angeles County Department of Public Works (LACPW) at the spreading grounds for recharge. Local water amounts are determined as the sum of the total water conserved at the spreading grounds less the imported and recycled water deliveries. For the 2024-25 Fiscal Year, 12,463 acre feet of local water capture have been reported by the LACPW.

Preliminary numbers for the 2024-25 Fiscal Year show that approximately 45,512 acre feet of recycled water has been recharged with 8,131 acre feet consisting of advanced treated water from the ARC AWTF and 37,381 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 32.8% and the regulatory maximum is 45%, with additional monitoring being required once 40% is reached.

Tertiary Recycle Water Permit Update

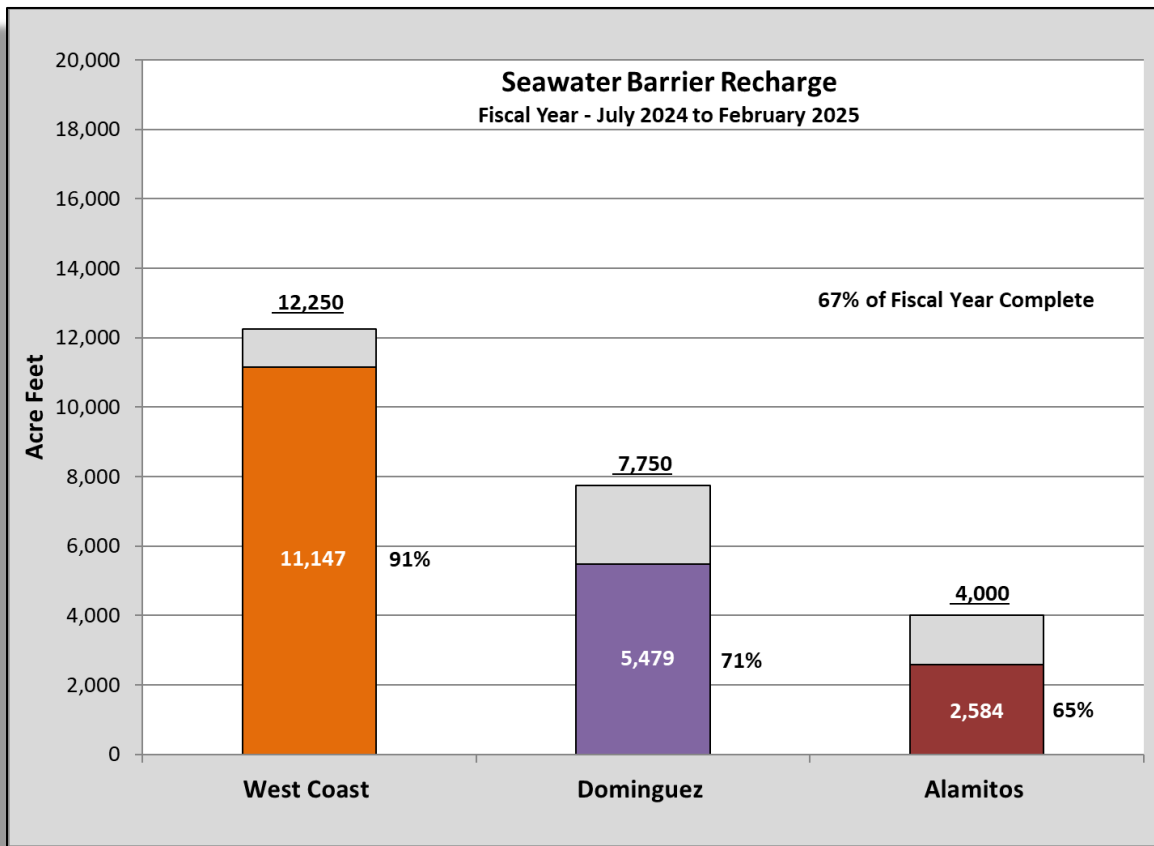
The permit is continuing to progress with LACSD and WRD staff working to update pertinent sections of the new Title 22 Engineering Report. Due to the persistent drought conditions over the past few decades and associated emergency drought proclamation by Governor Newsom, LACSD and WRD submitted a request 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 2024 - Feb 2025

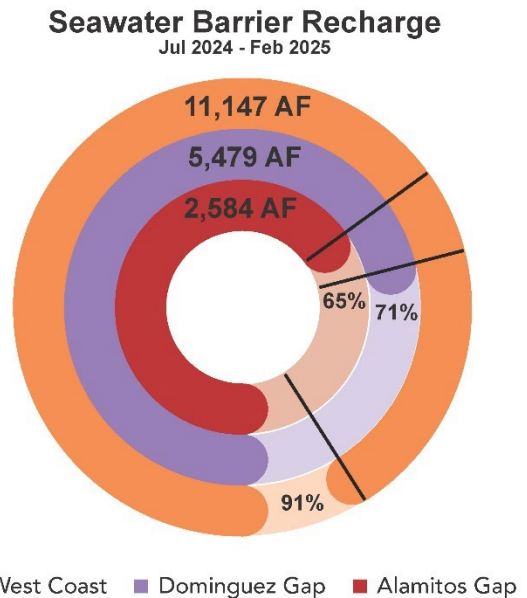


Seawater Barrier Well Injection and Replenishment (July 2024 - February 2025)

The following Chart shows the barrier water injection:

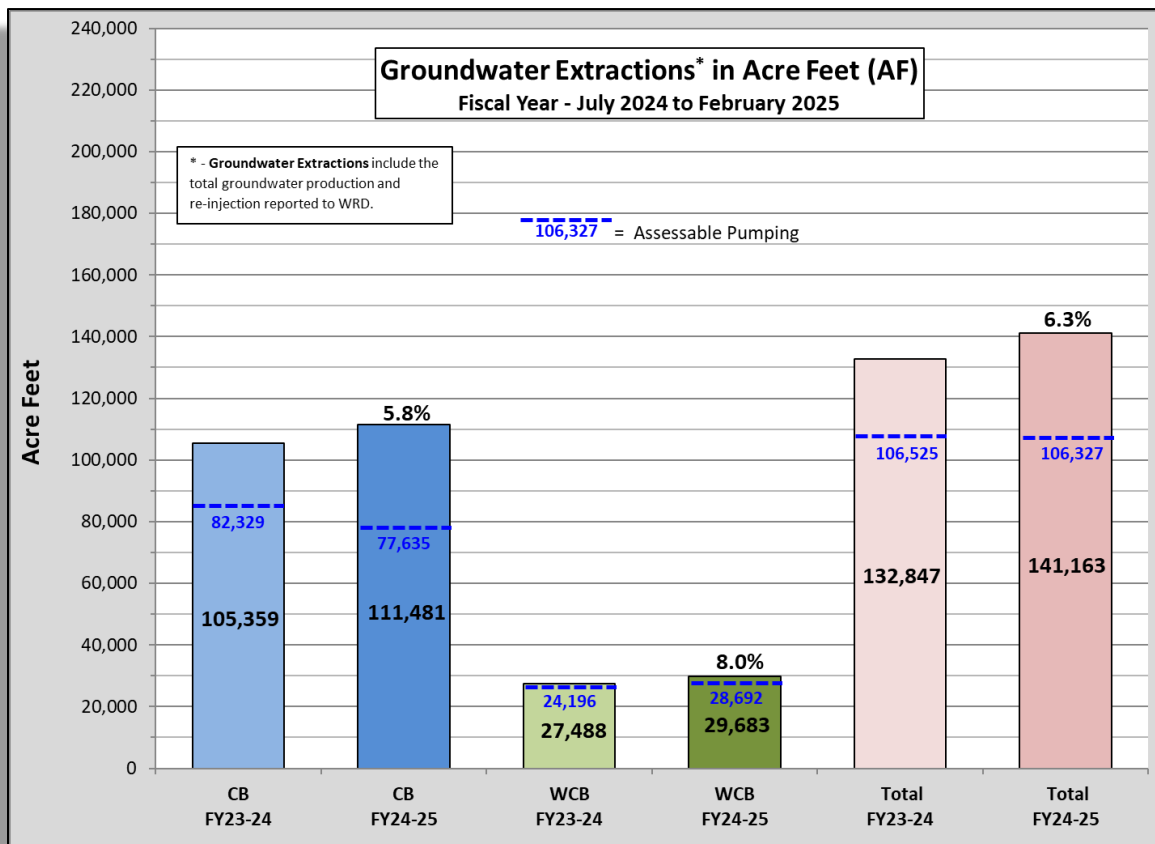


Preliminary numbers for the 2024-25 Fiscal Year show that the West Coast Barrier has used 11,147 acre feet of the total 12,250 acre feet planned for injection, 91% of total for the Fiscal Year. The Dominguez Gap Barrier used 5,479 acre feet of the total 7,750 acre feet planned for injection, 71% of the total for the Fiscal Year. The Alamitos Gap Barrier, on the WRD side, used 2,584 acre feet of the total 4,000 acre feet planned for injection, 65% of the total for the Fiscal Year. Advanced Treated Recycled Water (ATW) usage at the three barriers for the Fiscal Year to date is 60% at the West Coast Barrier (+2%), 76% at the Dominguez Gap Barrier (same), and 59% Alamitos Gap Barrier (-4%). The combined ATW usage at all three barriers is 64% (same).



Total Pumping (Fiscal Year 2024-25, July 2024 - February 2025)

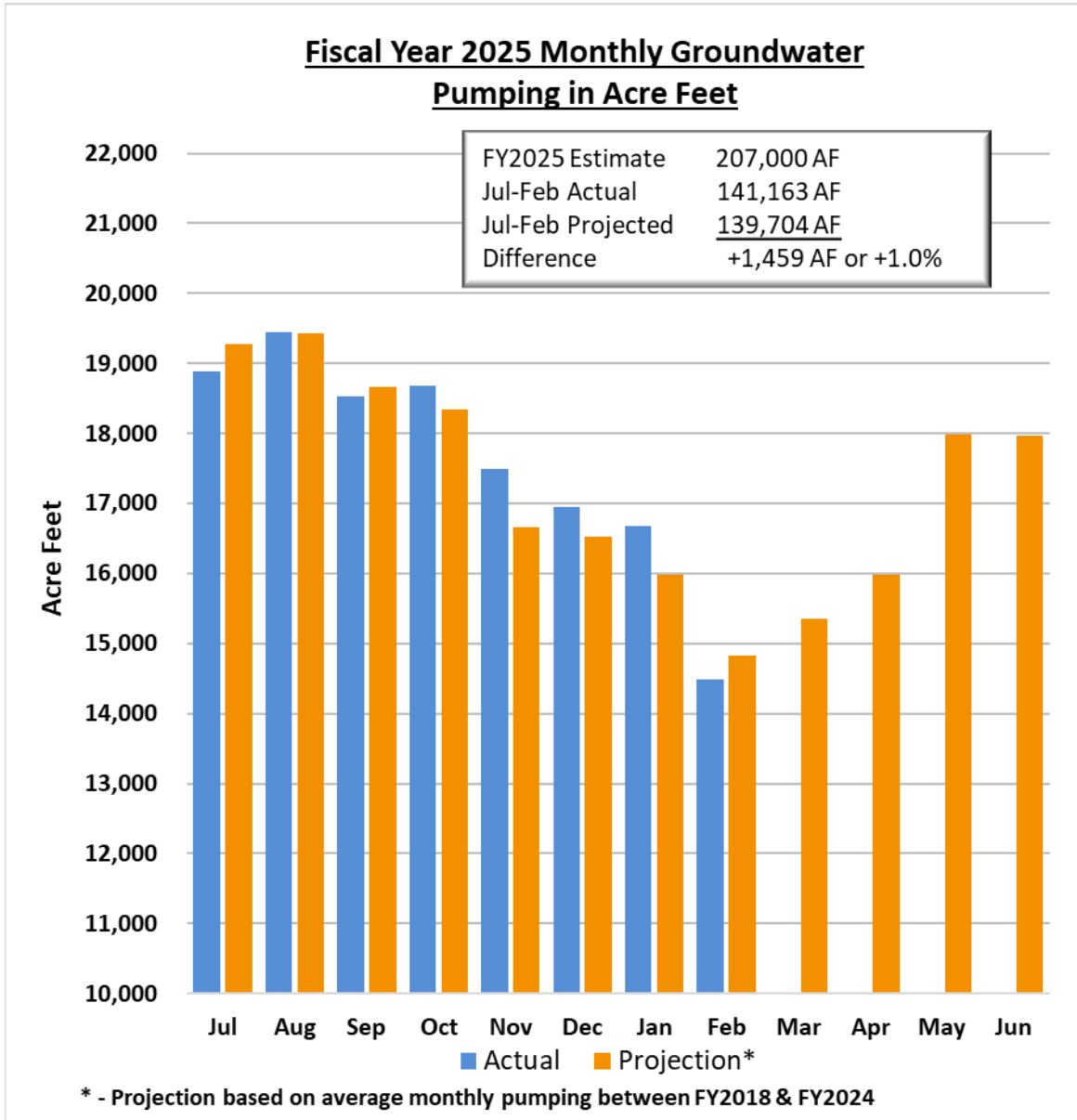
Preliminary numbers for groundwater production in the District for the Fiscal Year 2024-25 (July-February) indicate total pumping in the Central Basin was up 6,122 acre feet from the same time of the previous fiscal year (+5.8%) and the West Coast Basin total pumping was 2,195 acre feet higher than the previous fiscal year (+8.0%). The total pumping is 141,163 acre feet compared to 132,847 acre feet during the same time the previous year for an increase of 8,316 acre feet, or +6.3%. The current pumping data does not include five (5) Central Basin pumpers and two (2) West Coast Basin pumpers, who have not yet reported, for an estimated 2 additional acre feet.



Interesting...

About 90 percent of our freshwater supplies lie underground, but less than 27 percent of the water Americans use comes from underground sources, which illustrates the under-utilization of groundwater.

Preliminary numbers indicate 141,163 acre feet of groundwater have been pumped this fiscal year and is 1.0% above the projected fiscal year to date goal of 139,704 acre feet (or +1,459 acre feet). Monthly actual production versus the 7-year average monthly production projections (FY 2018 through 2024) are included in the chart below.



“Water has more properties that are beneficial to human beings than any other substance. Also, it can drown you.” - Kathryn Davis



For the Fiscal Year 2024-25 (July 2024 - February 2025), 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 2023-Feb 2024	Jul 2024-Feb 2025	Difference	% Change
Long Beach, City - CB	15,358.05	21,414.29	6056.24	39.43
Suburban Water Systems	1,300.72	1,882.29	581.57	44.71
Santa Fe Springs, City	551.43	1,011.51	460.08	83.43
Downey, City	8,959.49	9,259.14	299.65	3.34
La Habra Heights County WD	1,461.63	1,742.44	280.81	19.21
Bottom 5 Producing <u>by Volume</u> (AF)	Jul 2023-Feb 2024	Jul 2024-Feb 2025	Difference	% Change
Lynwood, City	3,078.12	1,585.04	-1493.08	-48.51
Whittier, City	4,520.10	3,706.38	-813.72	-18.00
Signal Hill, City	860.97	506.67	-354.30	-41.15
Bellflower-Somerset MWC	3,153.57	2,858.89	-294.68	-9.34
Cal. American Water Co. Alpha 0679	1,340.98	1,194.25	-146.73	-10.94

Production Trends – West Coast Basin				
Top 5 Producing <u>by Volume</u> (AF)	Jul 2023-Feb 2024	Jul 2024-Feb 2025	Difference	% Change
Torrance, City	954.70	3,100.72	2146.02	224.78
Golden State Water Co. - WB	5,931.09	7,499.29	1568.20	26.44
Phillips 66 Co. - Alpha 7093	3,051.02	4,035.01	983.99	32.25
Tesoro Refining	5,798.05	6,643.49	845.44	14.58
L.A. County Department of Parks	96.76	219.40	122.64	126.75
Bottom 5 Producing <u>by Volume</u> (AF)	Jul 2023-Feb 2024	Jul 2024-Feb 2025	Difference	% Change
Cal. Water Service Co. Dominguez - WB	4,478.23	3,959.40	-518.83	-11.59
Inglewood, City	1,171.34	657.65	-513.69	-43.85
Eco Services Operations	370.81	89.76	-281.05	-75.79
Torrance Refining	762.06	662.73	-99.33	-13.03
Cal. Water Service Co./Hawthorne Lease	472.13	411.06	-61.07	-12.93

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 - February 2024	July 2024 - February 2025	Difference	%Change
ABC USD	8.99	8.05	-.94	-10.46
American Text. M.	40.77	41.82	1.05	2.58
Artesia, City	1.26	1.35	.09	7.14
Atlas Iron and Metal Co.	0.18	0.20	.02	11.11
Bell Gardens, City	0.00	0.00	.00	0.00
Bellflower Home Garden	0.00	0.00	.00	0.00
Bellflower-Somerset MWC	3,153.57	2,858.89	-294.68	-9.34
Boeing Co.	60.62	50.51	-10.11	-16.68
Boeing, Compton Site	33.23	33.36	.13	0.39
Cal. American Water Co. Alpha 0679	1,340.98	1,194.25	-146.73	-10.94
Cal. Water Service Co. (East LA)	7,542.05	7,555.06	13.01	0.17
Cal. Water Service Co. Dominguez - CB	748.06	918.85	170.79	22.83
Caltrans	9.70	3.39	-6.31	-65.05
Central Basin MWD	0.00	0.00	.00	0.00
Cerritos, City	4,690.17	4,962.83	272.66	5.81
Coast Packing Co.	88.13	106.05	17.92	20.33
Commerce, City	1,038.14	1,085.01	46.87	4.51
Compton, City	4,420.36	4,514.44	94.08	2.13
Darling-Delaware Co.	0.00	0.00	.00	0.00
Defense Logistic Agency	2.32	1.17	-1.15	-49.57
Demunno Kerdoon	1.19	1.35	.16	13.45
Downey, City	8,959.49	9,259.14	299.65	3.34
El Rancho Unified School District	0.00	0.00	.00	0.00
Golden State Water Co. - CB	11,822.02	11,963.90	141.88	1.20
HMB Bandini, LLC	0.00	0.14	.14	0.00

Central Basin	July 2023 - February 2024	July 2024 - February 2025	Difference	%Change
Huntington Park, City - Alpha 2378	1,712.72	1,849.67	136.95	8.00
L.A. County Department of Parks	0.00	0.00	.00	0.00
LA County Rancho Los Amigos	142.96	147.83	4.87	3.41
La Habra Heights County WD	1,461.63	1,742.44	280.81	19.21
Lakewood - City	4,363.63	4,383.08	19.45	0.45
Liberty Utilities - CB	2,826.35	2,792.98	-33.37	-1.18
Little Lake Cemetery District	0.00	0.00	.00	0.00
Long Beach, City - CB	15,358.05	21,414.29	6056.24	39.43
Los Angeles, City - CB	10.65	11.05	.40	3.76
Lunday-Thagard	0.00	0.00	.00	0.00
Lynwood Park Mutual Water Co.	17.16	22.16	5.00	29.14
Lynwood, City	3,078.12	1,585.04	-1493.08	-48.51
Maywood Mutual No. 1	418.82	422.45	3.63	0.87
Maywood Mutual No. 2	609.04	620.54	11.50	1.89
Maywood Mutual No. 3	903.73	946.00	42.27	4.68
Montebello Land and Water Co.	1,914.64	1,973.91	59.27	3.10
Newark Group, Inc.	101.90	87.95	-13.95	-13.69
Norwalk, City	216.15	259.46	43.31	20.04
Omega OU1/OU3 LLC	2.88	3.80	.92	31.94
Orchard Dale Water District	1,166.99	1,283.77	116.78	10.01
PABCO Building Products	0.00	0.00	.00	0.00
Paradise Memorial Park	5.80	6.79	.99	17.07
Paramount USD	0.81	0.16	-.65	-80.25
Paramount, City	1,870.00	1,850.28	-19.72	-1.05
Pico Rivera, City	2,568.42	2,612.16	43.74	1.70
Pico Water District	1,687.16	1,729.04	41.88	2.48
Rockview Dairies	7.93	112.14	104.21	1,314.12
Roman Catholic Archbishop - CB	154.16	205.64	51.48	33.39

Central Basin	July 2023 - February 2024	July 2024 - February 2025	Difference	%Change
Rowland Water District	0.00	0.00	.00	0.00
San Gabriel Valley Water Co.	1,987.74	2,078.54	90.80	4.57
Santa Fe Springs, City	551.43	1,011.51	460.08	83.43
Scantlebury, Robert P.	0.18	0.37	.19	105.56
SFPP L.P.	0.00	0.00	.00	0.00
Signal Hill, City	860.97	506.67	-354.30	-41.15
South Gate, City	5,166.41	5,367.57	201.16	3.89
South Montebello Irrigation Dist	1,073.96	1,096.54	22.58	2.10
Southern California Edison Co. - CB	0.53	0.00	-.53	-100.00
St. John Bosco School	7.34	4.15	-3.19	-43.46
Suburban Water Systems	1,300.72	1,882.29	581.57	44.71
Tract 180 Water Co.	812.65	823.71	11.06	1.36
Tract 349 Mutual Water Co.	416.07	429.69	13.62	3.27
Tucker, William M.	0.02	0.00	-.02	-100.00
Vernon, City	3,137.71	3,077.30	-60.41	-1.93
Virginia Country Club	192.18	185.31	-6.87	-3.57
Walnut Park Mutual	694.34	626.62	-67.72	-9.75
Whittier Union HSD	14.51	14.08	-.43	-2.96
Whittier, City	4,520.10	3,706.38	-813.72	-18.00
WRD	60.74	47.41	-13.33	-21.95
Yamamoto, Alice	0.00	0.00	.00	0.00

West Coast Basin Production Trends

West Basin	July 2023 - February 2024	July 2024 - February 2025	Difference	%Change
ABC Nursery	8.00	0.00	-8.00	-100.00
Boeing Company	0.00	22.74	22.74	0.00
Cal. Water Service Co. Alpha 7050	682.42	710.02	27.60	4.04
Cal. Water Service Co. Dominguez - WB	4,478.23	3,959.40	-518.83	-11.59
Cal. Water Service Co./Hawthorne Lease	472.13	411.06	-61.07	-12.93
Eco Services Operations	370.81	89.76	-281.05	-75.79
Golden State Water Co. - WB	5,931.09	7,499.29	1568.20	26.44
Hillside Memorial Park	61.91	88.85	26.94	43.51
Honeywell International	0.00	0.00	.00	0.00
Inglewood, City	1,171.34	657.65	-513.69	-43.85
Kinder Morgan Liquids Terminals	25.22	25.09	-.13	-0.52
L.A. County Department of Parks	96.76	219.40	122.64	126.75
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	105.74	48.96	-56.78	-53.70
Montrose Chemical Corp.	-0.82	-0.43	.39	-47.56
Myron Z. Chalavin	0.00	0.00	.00	0.00
Phillips 66 Co. - Alpha 7093	3,051.02	4,035.01	983.99	32.25
Rolling Hills Country Club	137.00	241.00	104.00	75.91
Roman Catholic Archbishop - WB	67.09	185.81	118.72	176.96
SCI Funeral Services	20.24	40.94	20.70	102.27
Shell Oil Co NCWUP	24.59	47.57	22.98	93.45
Southern California Edison Co. - WB	15.08	11.65	-3.43	-22.75

West Basin	July 2023 - February 2024	July 2024 - February 2025	Difference	%Change
Tesoro Refining	5,798.05	6,643.49	845.44	14.58
Torrance Refining	762.06	662.73	-99.33	-13.03
Torrance, City	954.70	3,100.72	2146.02	224.78
West Basin Brewer Desalter	0.00	0.00	.00	0.00