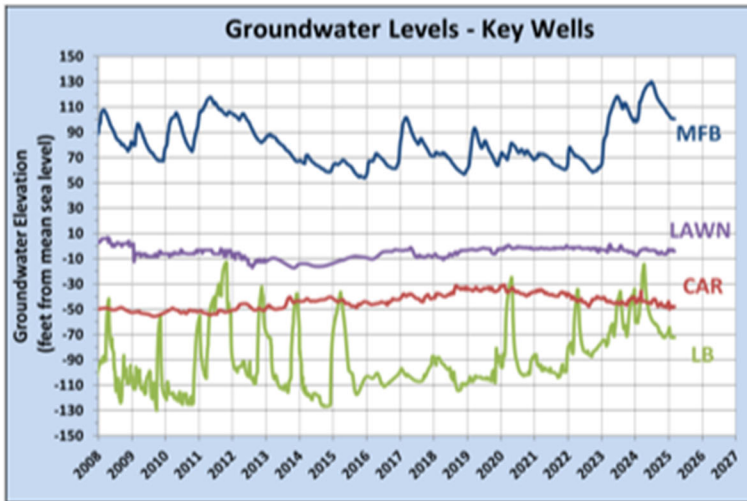
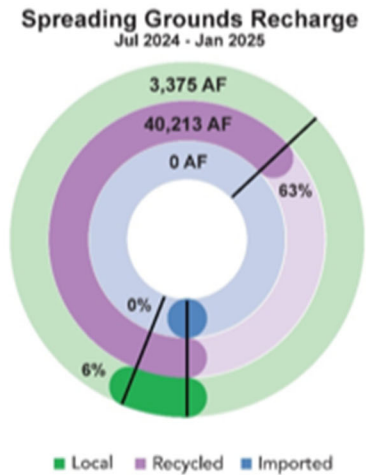
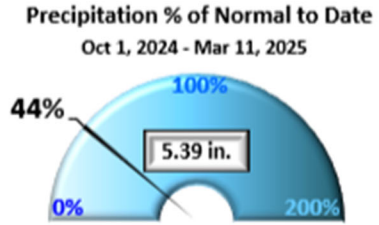
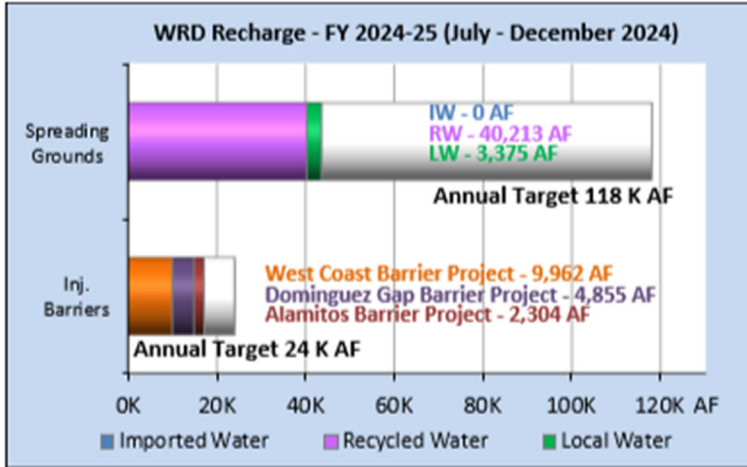
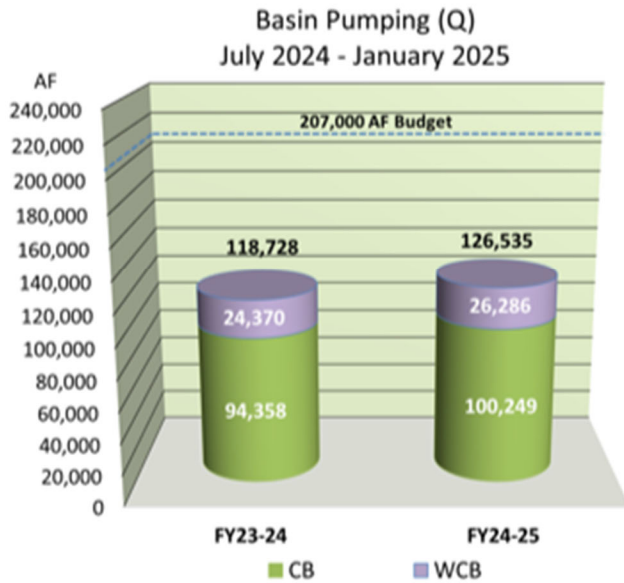
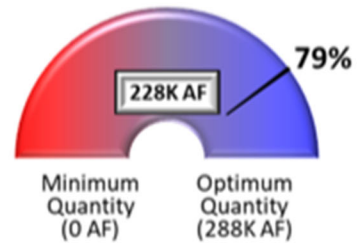


GROUNDWATER BASIN UPDATE FOR MARCH 2025

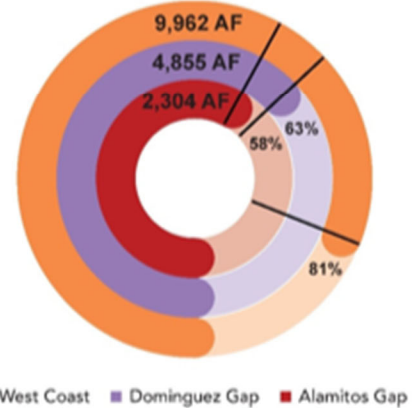
GROUNDWATER BASINS AT A GLANCE*



GW Basin Operating Range
March 6, 2025



Seawater Barrier Recharge
Jul 2024 - Jan 2025



* - Preliminary numbers, subject to change.

SUMMARY

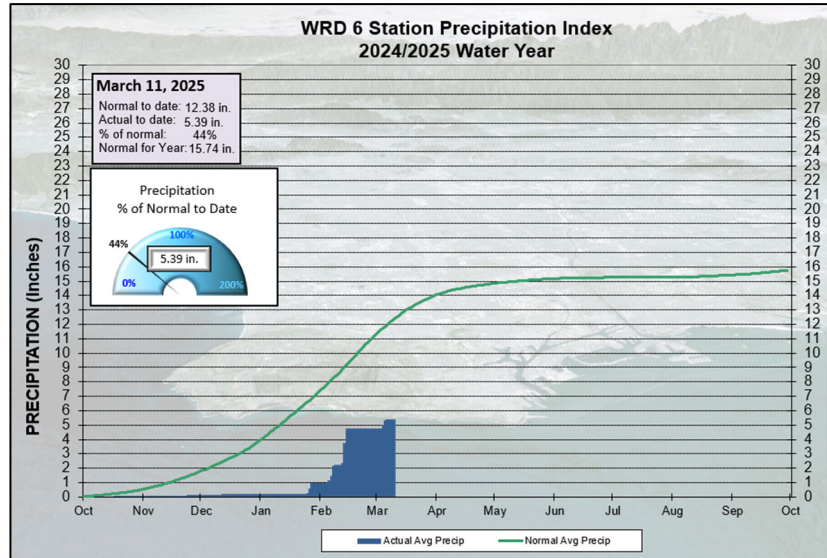
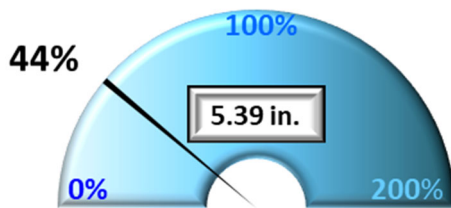
Staff monitors groundwater conditions in the District's service area throughout the year. A summary of the latest information is presented below.

Precipitation (October 1, 2024 - March 11, 2025)

The WRD 6 Station Precipitation Index reports that for the 2024-25 Water Year, there has been below average rainfall (5.39 inches) through March 11, 2025. The normal rainfall for this time period is 12.38 inches, so the District is 44% of normal.

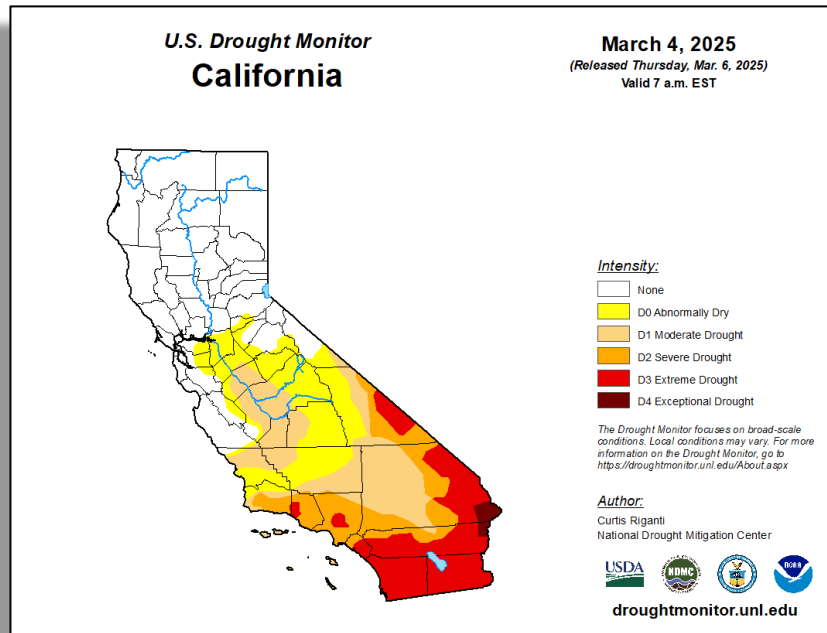
Precipitation % of Normal to Date

Oct 1, 2024 - Mar 11, 2025



Drought Monitor (March)

As of March 4, 2024, the U.S. Drought Monitor is reporting 58% of the State is abnormally dry (down 9%), 42% under moderate (down 12%), 25% under severe (down 10%), 15% under extreme (down 6%), and 1% exceptional (up 1%) 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] (March 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
 23.8 in., 92% of April 1st average and 97% of normal to date

Central Sierra Nevada
 20.3 in., 72% of April 1st average and 75% of normal to date

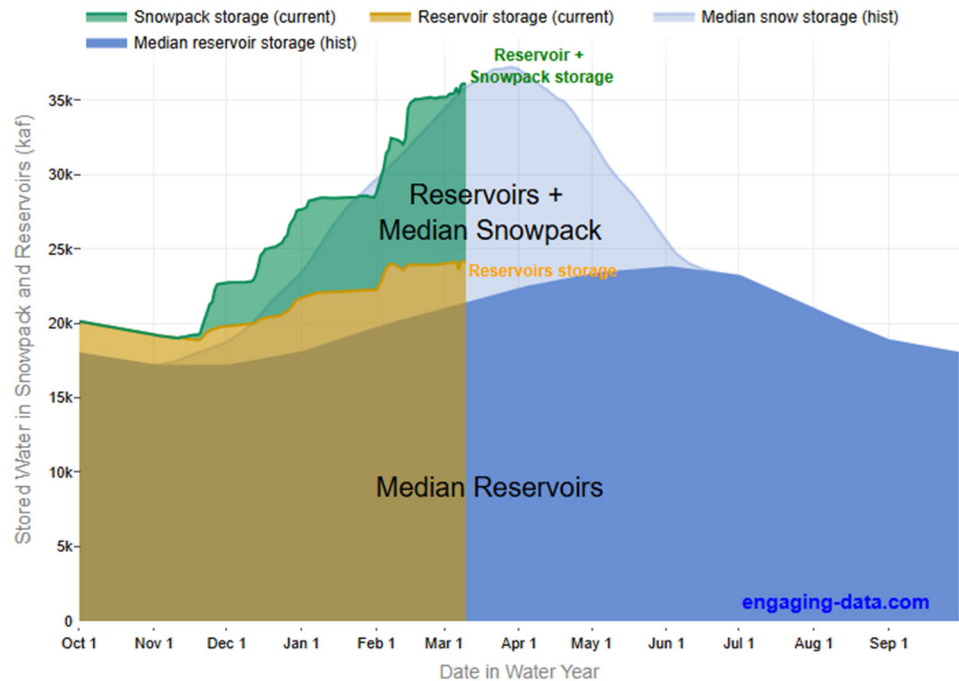
Southern Sierra Nevada
 16.3 in., 37% of April 1st average and 53% of normal to date

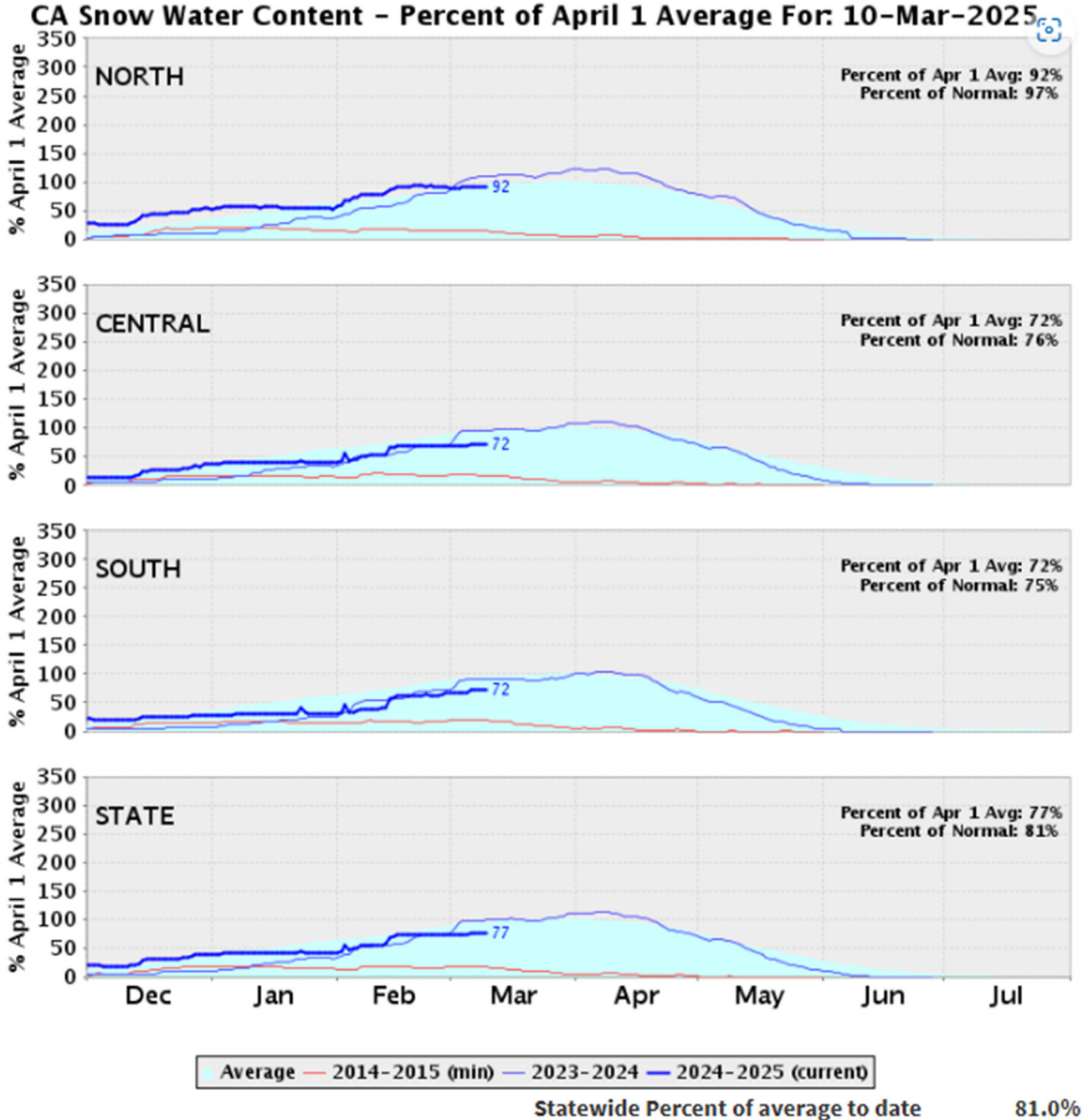
Statewide Summary
 20.2 in., 77% of April 1st average and 81% of normal to date

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

2024-25 2025-03-10

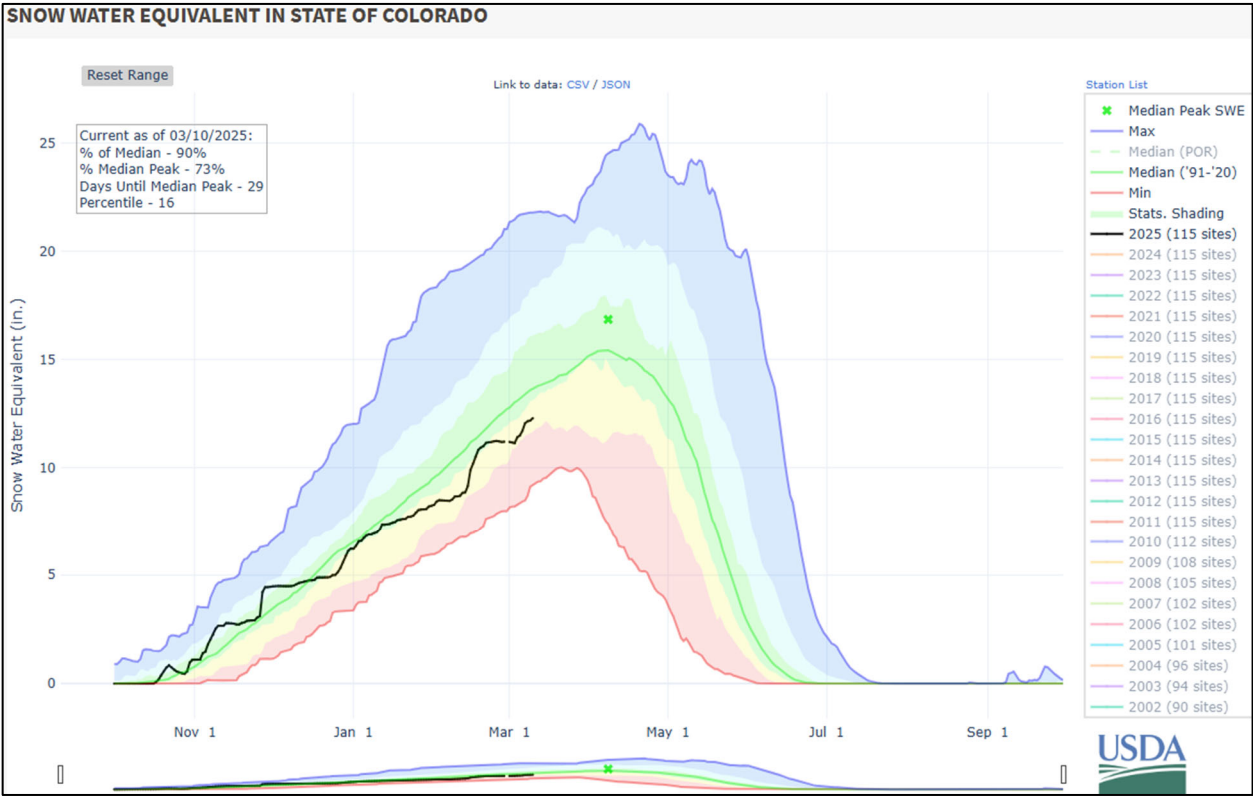
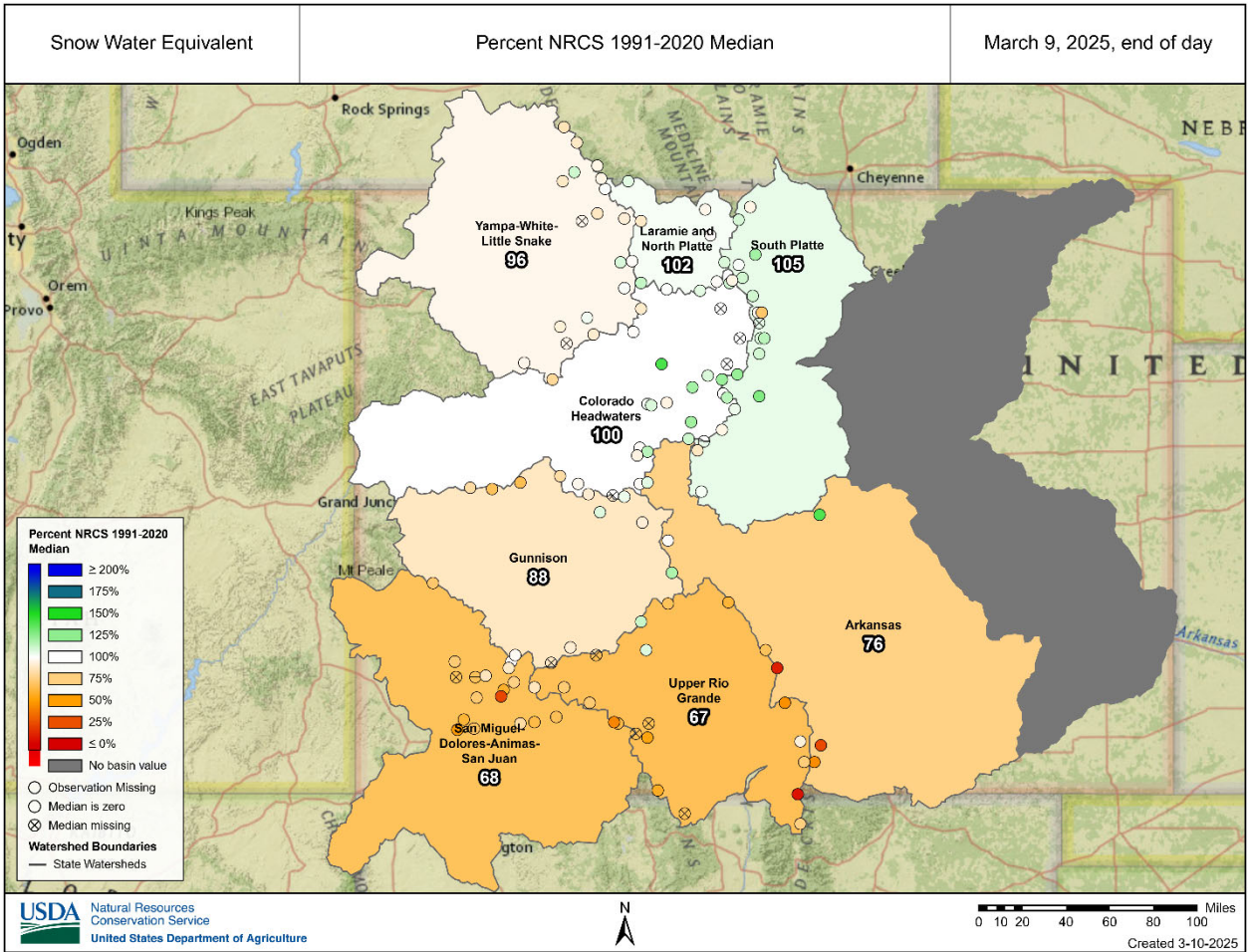
Total Water Storage 36,067 kaf 100.5% of hist median 96.9% of peak (3/29)	Reservoir Storage 24,203 kaf 113.4% of hist median 101.7% of peak (5/31)	Snowpack Storage 11,864 kaf 81.6% of hist median 78.1% of peak (3/21)
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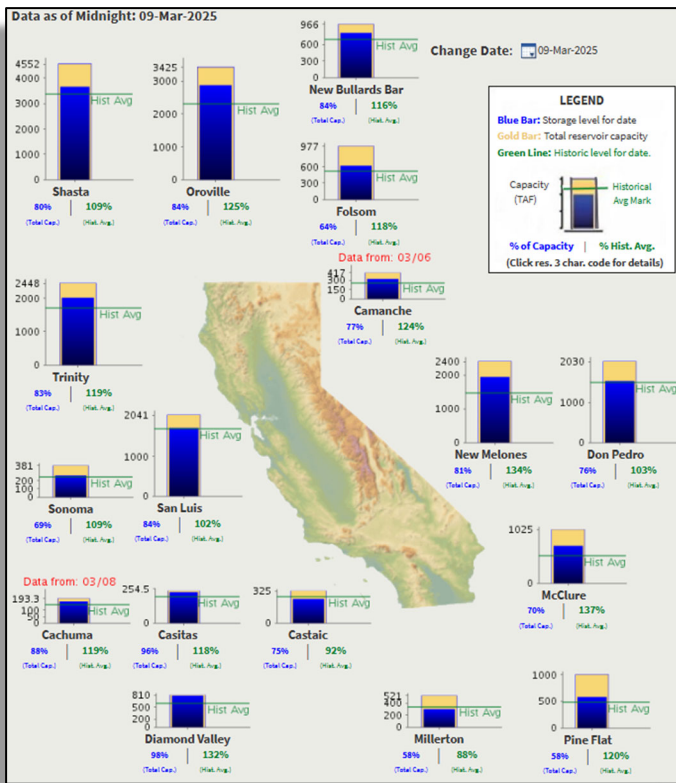
Colorado Snowpack (March 10, 2025)

As of March 10, 2025, the Colorado Snow Survey reported snowpack statewide is 90% 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 (March 8, 2025)

For the 21 reservoirs reported monthly to the committee, water levels have increased in 19 of 21 reservoirs. The largest increase occurred at Lake Mead (0.15 million acre feet, MAF). The smallest increase occurred at Lakes Trinity, Cachuma, Casitas, Perris, and Silverwood (<0.01 MAF). The largest decrease (-0.39 MAF) occurred at Lake Powell. The smallest decrease (-0.01 MAF) occurred at Lakes Sonoma and Castaic.



DWR Managed Reservoirs (SWP) Storage in Million Acre Feet

Reservoir	Capacity	Storage	% Full	Change
Trinity Lake (CLE)	2.45	2.02	83%	0.00
Lake Shasta (SHA)	4.55	3.66	80%	-0.33
Lake Oroville (ORO)	3.54	2.88	84%	0.01
New Bullards Bar (BUL)	0.97	0.81	84%	-0.02
Folsom Lake (FOL)	0.98	0.62	64%	0.08
Camanche Lake (CMN)	0.42	0.32	77%	0.02
New Melones L. (NML)	2.40	1.94	81%	0.05
Don Pedro Res (DNP)	2.03	1.54	76%	0.11
Lake McClure (EXC)	1.02	0.72	70%	0.06
Lake Sonoma (WRS)	0.38	0.26	69%	-0.01
San Luis Res (SNL)	2.04	1.71	84%	0.12
Millerton Lake (MIL)	0.52	0.30	57%	0.04
Pine Flat Res. (PNF)	1.00	0.58	58%	0.08
Cachuma Lake (CCH)	0.19	0.17	88%	0.00
Castaic Lake (CAS)	0.33	0.24	75%	-0.01
Casitas Lake (CSI)	0.25	0.23	96%	0.00
Perris Lake (PRR)	0.13	0.11	83%	0.00
L. Silverwood (SLW)	0.08	0.07	92%	0.00

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

Reservoir	Capacity	Storage	% Full	Change
Lake Powell	23.31	7.96	34%	-0.39
Lake Mead	26.12	9.06	35%	0.15
Diamond Valley L (DVL)	0.81	0.79	98%	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 49% capacity (36.00 MAF) which is down 0.04 MAF (0.1%) from the prior month (0.19 MAF State Water Project [SWP] and -0.23 MAF Colorado River Aqueduct [CRA]).

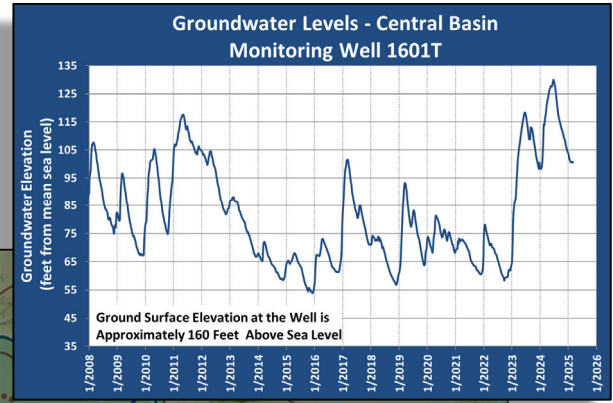
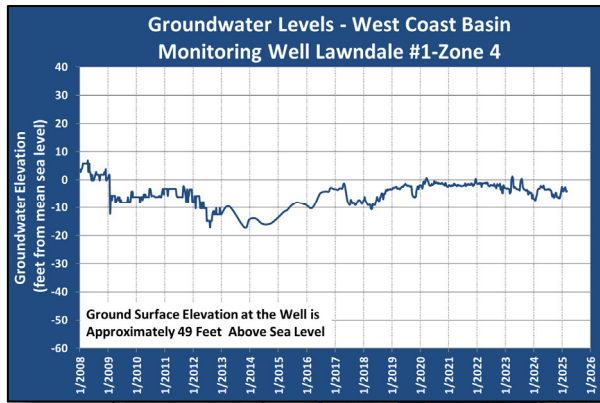


Did you know?

Water is part of a deeply interconnected system. What we pour on the ground ends up in our water, and what we spew into the sky ends up in our water.

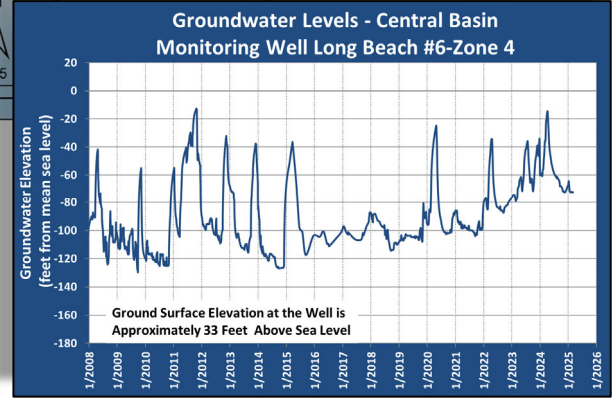
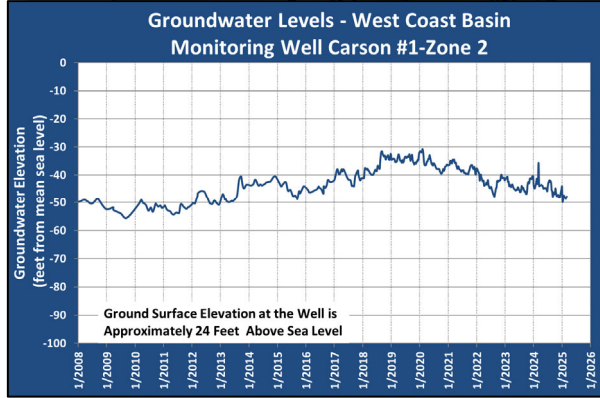
Groundwater Levels (March 6, 2025)

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 0.2 foot	Decreased 14.9 feet
Central Basin Key Well Long Beach #6 4	Increased 0.2 foot	Decreased 36.6 feet
West Coast Basin Key Well Lawndale #1 4	Decreased 0.9 foot	Decreased 0.8 foot
West Coast Basin Key Well Carson #1 2	Increased 0.6 foot	Decreased 12.1 feet

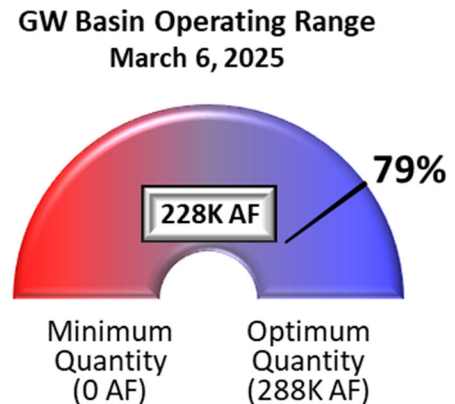
Bold indicates a change in direction (decreasing or increasing) since the last report.

Optimum and Minimum Groundwater Quantity (March 7, 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 March 6, 2025, has been estimated at 672,021 acre feet (subject to change), which is 227,979 acre feet above the Minimum Quantity and 60,021 acre feet below Optimum Quantity. The Basin is at 79% of Optimum Quantity which is similar to what was reported last month (~1,000 AF lower).



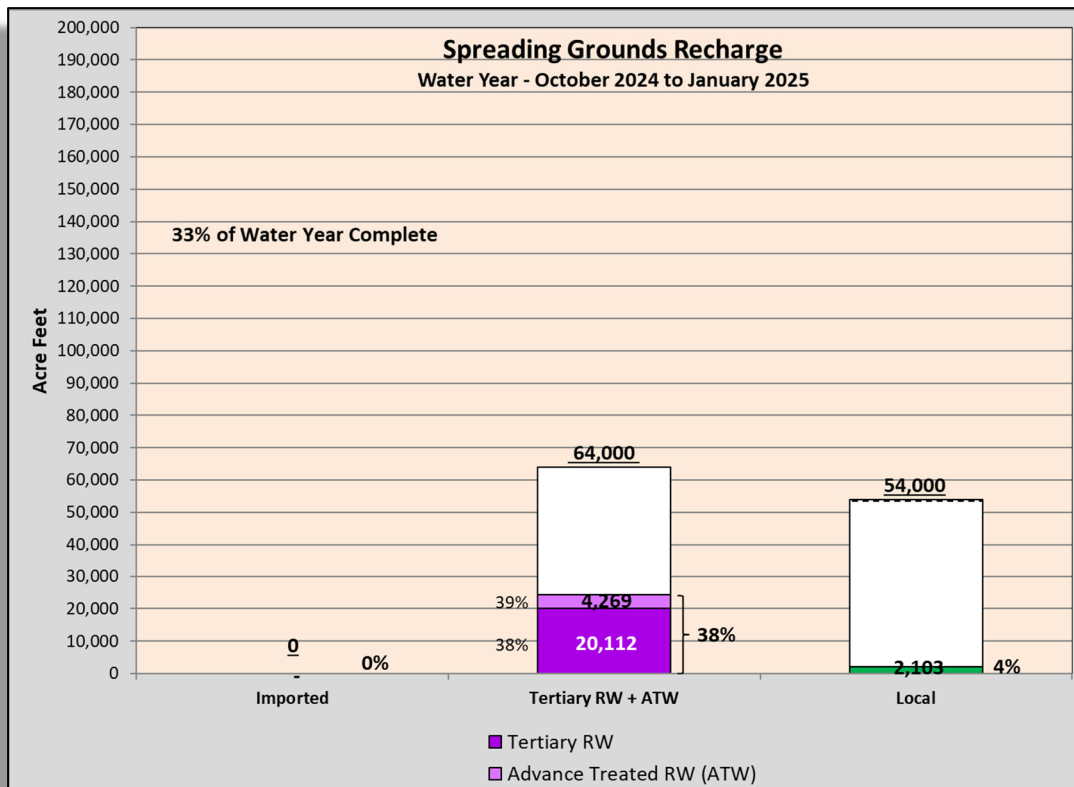
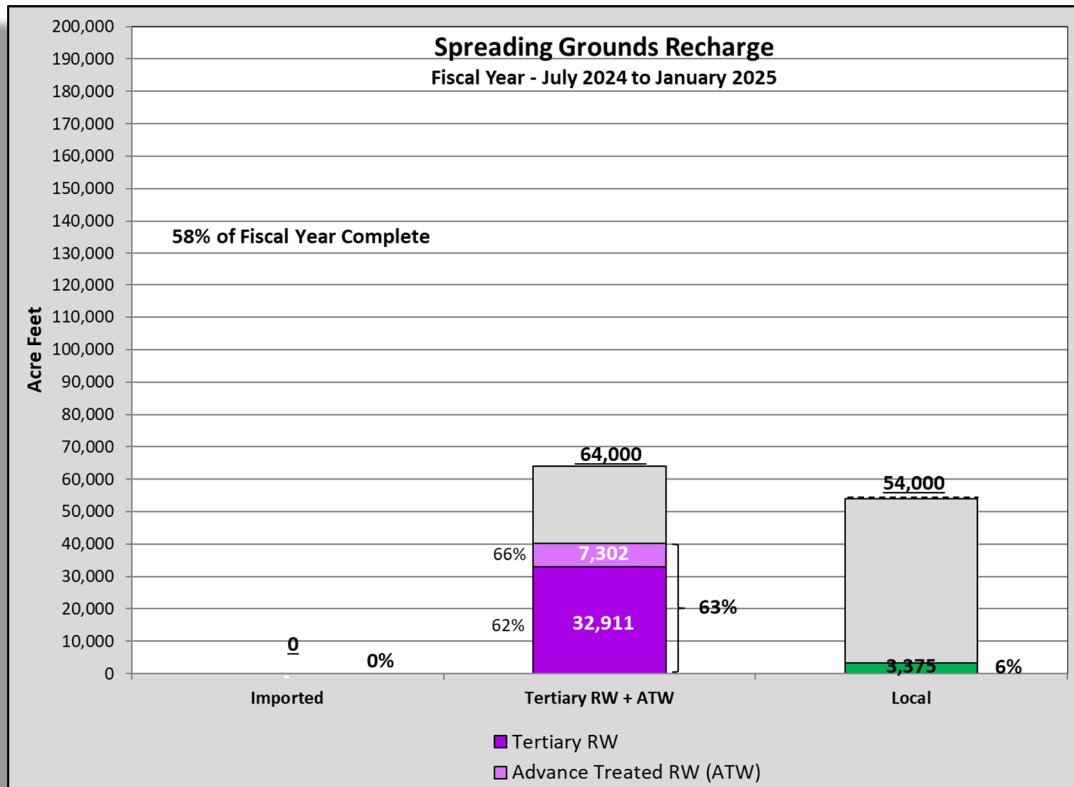
FACT:

Wellhead protection is a pollution prevention and management strategy used to protect groundwater used for drinking water.



Montebello Forebay Spreading Grounds (July 2024 - January 2025)

The following Charts show the preliminary spreading grounds replenishment water for the current Fiscal Year (2024-25; 7 months) and Water Year (2024-25; 4 months):



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

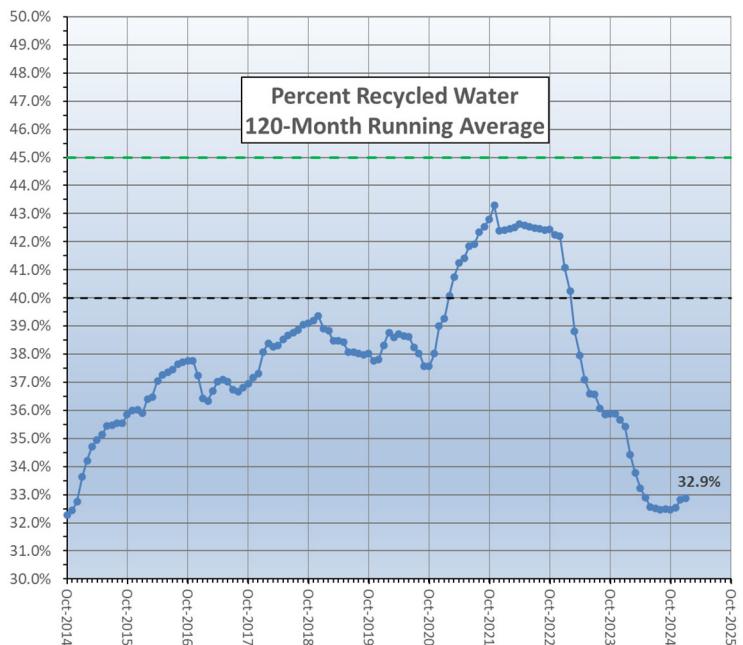
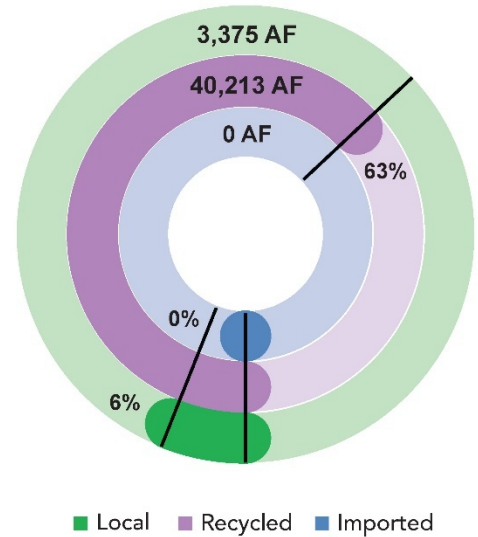
Local water (stormwater plus dry weather urban runoff) is captured by the Los Angeles County Department of Public Works (LACPW) at the spreading grounds for recharge. Local water amounts are determined as the sum of the total water conserved at the spreading grounds less the imported and recycled water deliveries. For the 2024-25 Fiscal Year, 3,375 acre feet of local water capture have been reported by the LACPW.

Preliminary numbers for the 2024-25 Fiscal Year show that approximately 40,213 acre feet of recycled water has been recharged with 7,302 acre feet consisting of advanced treated water from the ARC AWTF and 32,911 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 32.9% and the regulatory maximum is 45%, with additional monitoring being required once 40% is reached.

Tertiary Recycle Water Permit Update

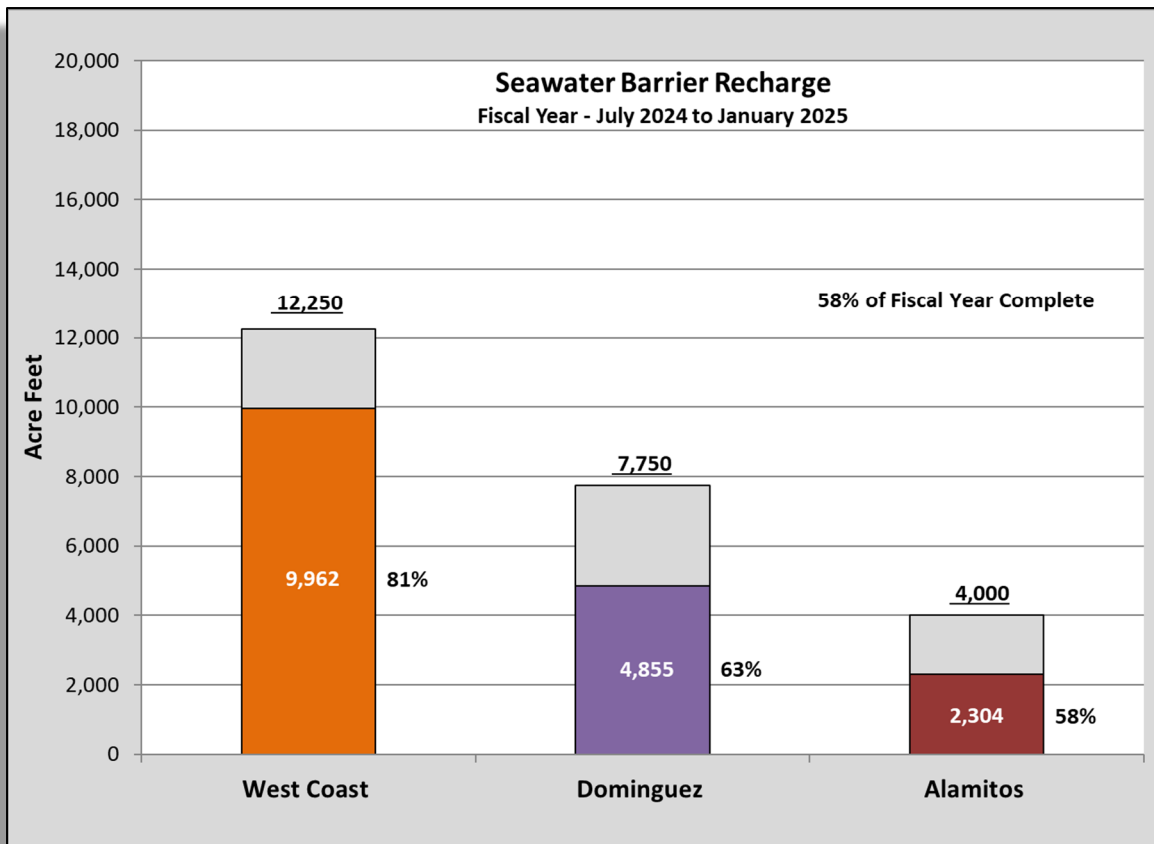
The permit is continuing to progress with LACSD and WRD staff working to update pertinent sections of the new Title 22 Engineering Report. Due to the persistent drought conditions over the past few decades and associated emergency drought proclamation by Governor Newsom, LACSD and WRD submitted a request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



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

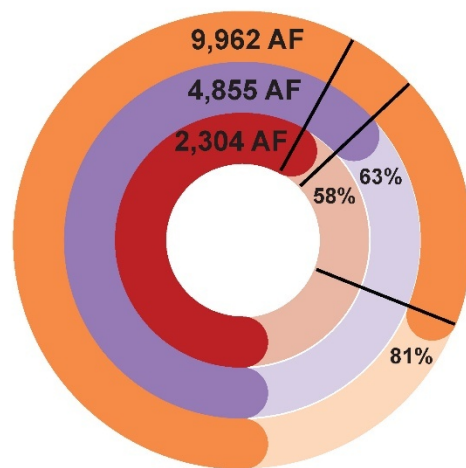
The following Chart shows the barrier water injection:



Preliminary numbers for the 2024-25 Fiscal Year show that the West Coast Barrier has used 9,962 acre feet of the total 12,250 acre feet planned for injection, 81% of total for the Fiscal Year. The Dominguez Gap Barrier used 4,855 acre feet of the total 7,750 acre feet planned for injection, 63% of the total for the Fiscal Year. The Alamitos Gap Barrier, on the WRD side, used 2,304 acre feet of the total 4,000 acre feet planned for injection, 58% of the total for the Fiscal Year. Advanced Treated Recycled Water (ATW) usage at the three barriers for the Fiscal Year to date is 58% at the West Coast Barrier (-1%), 76% at the Dominguez Gap Barrier (-1%), and 63% Alamitos Gap Barrier (-10%). The combined ATW usage at all three barriers is 64% (-2%).

Seawater Barrier Recharge

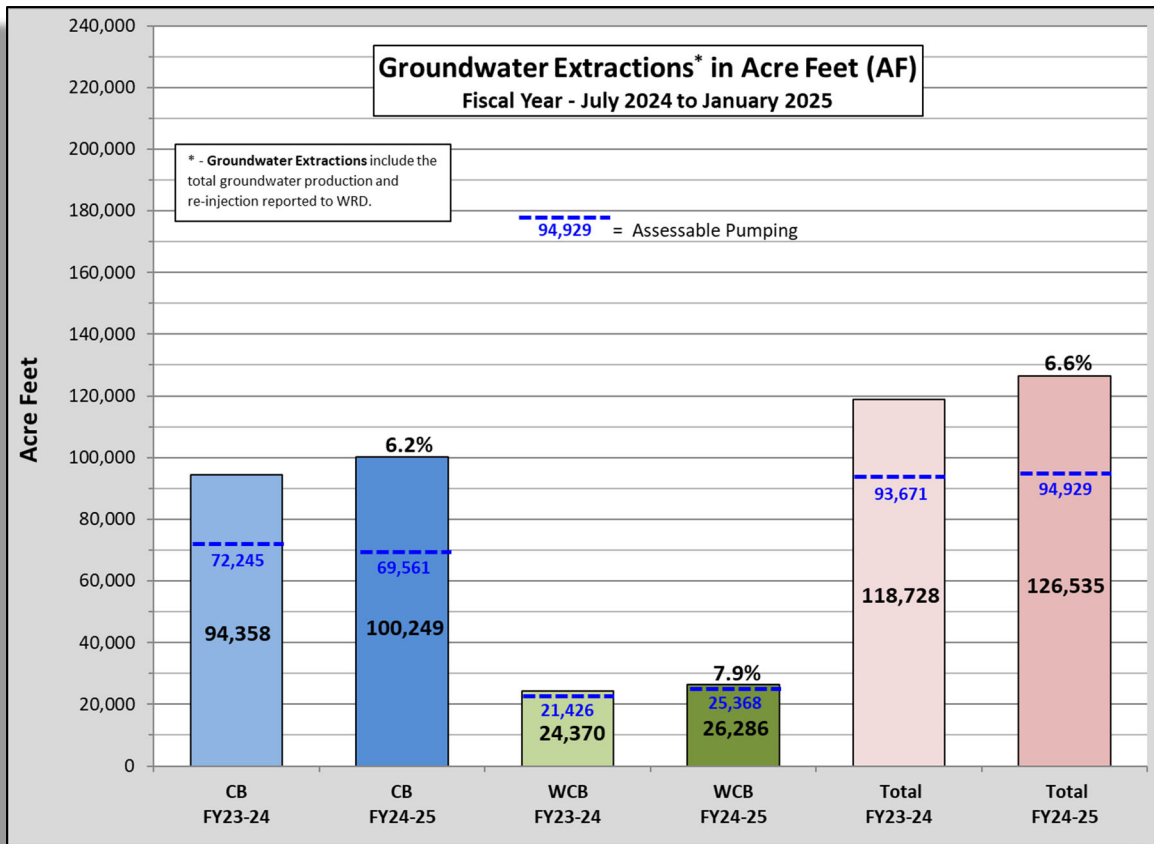
Jul 2024 - Jan 2025



West Coast Dominguez Gap Alamitos Gap

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

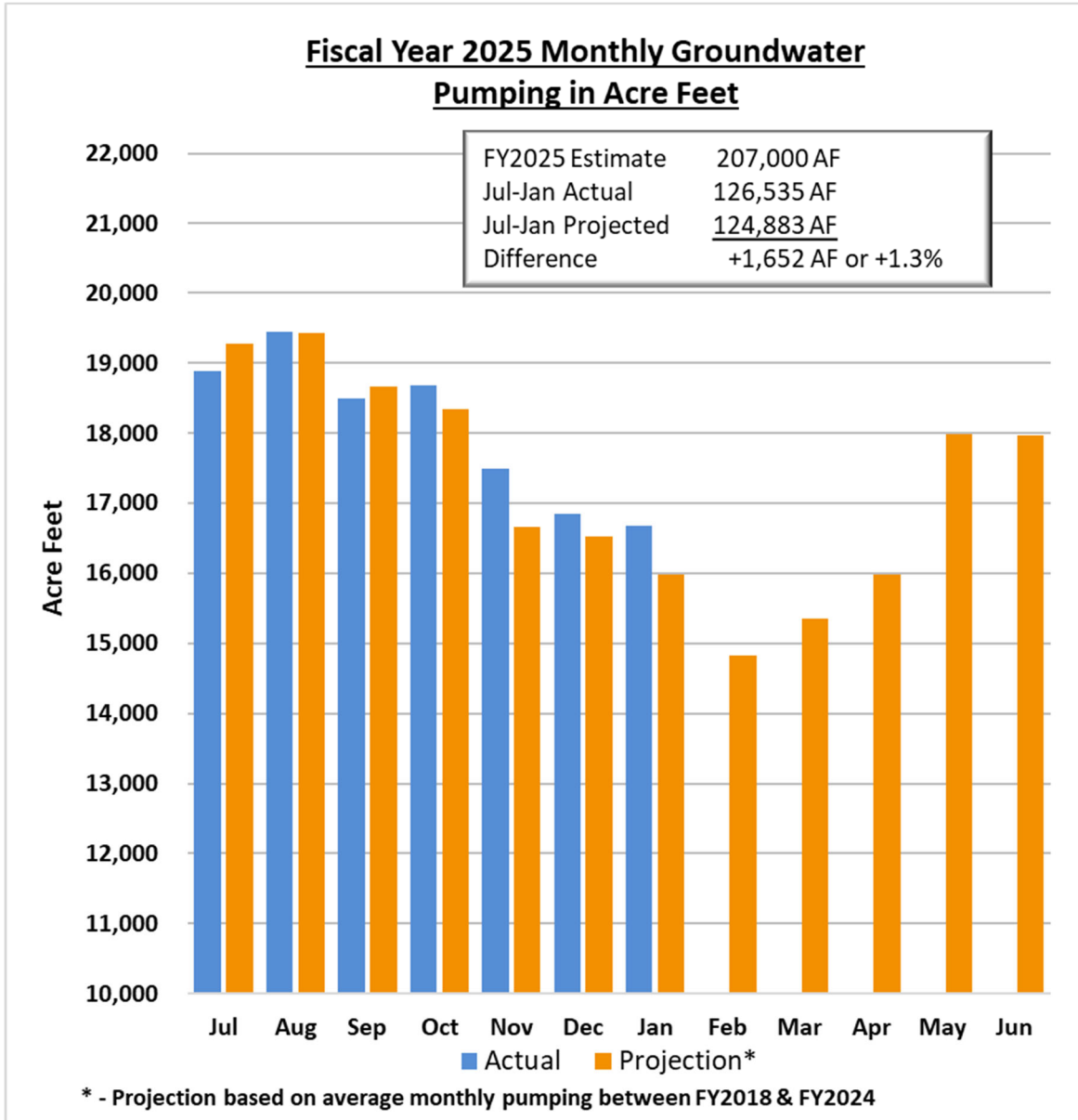
Preliminary numbers for groundwater production in the District for the Fiscal Year 2024-25 (July-January) indicate total pumping in the Central Basin was up 5,890 acre feet from the same time of the previous fiscal year (+6.2%) and the West Coast Basin total pumping was 1,916 acre feet higher than the previous fiscal year (+7.9%). The total pumping is 126,535 acre feet compared to 118,728 acre feet during the same time the previous year for an increase of 7,807 acre feet, or +6.6%. 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...

The most commonly found pollutants in groundwater are nitrates, metals, volatile and semi-volatile organic compounds, and pesticides.

Preliminary numbers indicate 126,535 acre feet of groundwater have been pumped this fiscal year and is 1.3% above the projected fiscal year to date goal of 124,883 acre feet (or +1,652 acre feet). Monthly actual production versus the 7-year average monthly production projections (FY 2018 through 2024) are included in the chart below.



"Some may still deny the overwhelming judgment of science, but none can avoid the devastating impact of raging fires, crippling drought, and more powerful storms." - *Barack Obama*



For the Fiscal Year 2024-25 (July 2024 - January 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-Jan 2024	Jul 2024-Jan 2025	Difference	% Change
Long Beach, City - CB	13,662.62	19,183.11	5520.49	40.41
Suburban Water Systems	1,065.77	1,675.49	609.72	57.21
Santa Fe Springs, City	457.75	1,011.51	553.76	120.97
Cerritos, City	4,260.06	4,518.37	258.31	6.06
La Habra Heights County WD	1,391.83	1,629.69	237.86	17.09
Bottom 5 Producing <u>by Volume</u> (AF)	Jul 2023-Jan 2024	Jul 2024-Jan 2025	Difference	% Change
Lynwood, City	2,750.98	1,585.04	-1165.94	-42.38
Whittier, City	4,072.67	3,299.18	-773.49	-18.99
Signal Hill, City	761.72	404.13	-357.59	-46.95
Bellflower-Somerset MWC	2,830.25	2,514.76	-315.49	-11.15
Cal. American Water Co. Alpha 0679	1,161.04	1,066.44	-94.60	-8.15

Production Trends – West Coast Basin				
Top 5 Producing <u>by Volume</u> (AF)	Jul 2023-Jan 2024	Jul 2024-Jan 2025	Difference	% Change
Torrance, City	805.10	2,689.06	1883.96	234.00
Golden State Water Co. - WB	5,258.17	6,822.10	1563.93	29.74
Phillips 66 Co. - Alpha 7093	2,719.06	3,569.21	850.15	31.27
Tesoro Refining	5,106.09	5,751.38	645.29	12.64
L.A. County Department of Parks	96.76	216.99	120.23	124.26
Bottom 5 Producing <u>by Volume</u> (AF)	Jul 2023-Jan 2024	Jul 2024-Jan 2025	Difference	% Change
Cal. Water Service Co. Dominguez - WB	3,918.94	3,507.63	-411.31	-10.50
Inglewood, City	1,036.94	635.54	-401.40	-38.71
Eco Services Operations	365.14	78.37	-286.77	-78.54
Cal. Water Service Co./Hawthorne Lease	396.93	220.30	-176.63	-44.50
Torrance Refining	695.29	584.06	-111.23	-16.00

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 - January 2024	July 2024 - January 2025	Difference	%Change
ABC USD	8.99	7.35	-1.64	-18.24
American Text. M.	35.91	35.83	-.08	-0.22
Artesia, City	1.20	1.30	.10	8.33
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	2,830.25	2,514.76	-315.49	-11.15
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	1,161.04	1,066.44	-94.60	-8.15
Cal. Water Service Co. (East LA)	6,624.62	6,649.94	25.32	0.38
Cal. Water Service Co. Dominguez - CB	672.79	813.49	140.70	20.91
Caltrans	9.27	2.94	-6.33	-68.28
Central Basin MWD	0.00	0.00	.00	0.00
Cerritos, City	4,260.06	4,518.37	258.31	6.06
Coast Packing Co.	77.61	92.80	15.19	19.57
Commerce, City	926.50	960.51	34.01	3.67
Compton, City	3,968.50	4,057.99	89.49	2.26
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	8,159.34	8,367.03	207.69	2.55
El Rancho Unified School District	0.00	0.00	.00	0.00
Golden State Water Co. - CB	10,523.72	10,686.68	162.96	1.55
HMB Bandini, LLC	0.00	0.13	.13	0.00

Central Basin	July 2023 - January 2024	July 2024 - January 2025	Difference	%Change
Huntington Park, City - Alpha 2378	1,542.31	1,662.30	119.99	7.78
L.A. County Department of Parks	0.00	0.00	.00	0.00
LA County Rancho Los Amigos	124.94	134.98	10.04	8.04
La Habra Heights County WD	1,391.83	1,629.69	237.86	17.09
Lakewood - City	4,000.66	4,003.97	3.31	0.08
Liberty Utilities - CB	2,534.98	2,493.61	-41.37	-1.63
Little Lake Cemetery District	0.00	0.00	.00	0.00
Long Beach, City - CB	13,662.62	19,183.11	5520.49	40.41
Los Angeles, City - CB	9.36	9.81	.45	4.81
Lunday-Thagard	0.00	0.00	.00	0.00
Lynwood Park Mutual Water Co.	15.42	19.49	4.07	26.39
Lynwood, City	2,750.98	1,585.04	-1165.94	-42.38
Maywood Mutual No. 1	374.88	377.87	2.99	0.80
Maywood Mutual No. 2	541.18	552.82	11.64	2.15
Maywood Mutual No. 3	815.12	847.54	32.42	3.98
Montebello Land and Water Co.	1,718.77	1,779.54	60.77	3.54
Newark Group, Inc.	89.69	80.95	-8.74	-9.74
Norwalk, City	190.15	196.83	6.68	3.51
Omega OU1/OU3 LLC	2.88	3.80	.92	31.94
Orchard Dale Water District	1,061.71	1,168.14	106.43	10.02
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	1,649.47	1,636.84	-12.63	-0.77
Pico Rivera, City	2,318.47	2,361.73	43.26	1.87
Pico Water District	1,530.76	1,566.96	36.20	2.36
Rockview Dairies	1.90	98.15	96.25	5,065.79
Roman Catholic Archbishop - CB	152.44	198.45	46.01	30.18

Central Basin	July 2023 - January 2024	July 2024 - January 2025	Difference	%Change
Rowland Water District	0.00	0.00	.00	0.00
San Gabriel Valley Water Co.	1,788.23	1,879.97	91.74	5.13
Santa Fe Springs, City	457.75	1,011.51	553.76	120.97
Scantlebury, Robert P.	0.18	0.37	.19	105.56
SFPP L.P.	0.00	0.00	.00	0.00
Signal Hill, City	761.72	404.13	-357.59	-46.95
South Gate, City	4,614.93	4,820.28	205.35	4.45
South Montebello Irrigation Dist	963.43	988.91	25.48	2.64
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	1,065.77	1,675.49	609.72	57.21
Tract 180 Water Co.	725.16	735.89	10.73	1.48
Tract 349 Mutual Water Co.	369.58	385.15	15.57	4.21
Tucker, William M.	0.02	0.00	-.02	-100.00
Vernon, City	2,800.24	2,736.50	-63.74	-2.28
Virginia Country Club	189.39	178.30	-11.09	-5.86
Walnut Park Mutual	622.18	606.90	-15.28	-2.46
Whittier Union HSD	13.96	13.75	-.21	-1.50
Whittier, City	4,072.67	3,299.18	-773.49	-18.99
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 - January 2024	July 2024 - January 2025	Difference	%Change
ABC Nursery	7.00	0.00	-7.00	-100.00
Boeing Company	0.00	22.74	22.74	0.00
Cal. Water Service Co. Alpha 7050	603.90	601.13	-2.77	-0.46
Cal. Water Service Co. Dominguez - WB	3,918.94	3,507.63	-411.31	-10.50
Cal. Water Service Co./Hawthorne Lease	396.93	220.30	-176.63	-44.50
Eco Services Operations	365.14	78.37	-286.77	-78.54
Golden State Water Co. - WB	5,258.17	6,822.10	1563.93	29.74
Hillside Memorial Park	61.03	82.61	21.58	35.36
Honeywell International	0.00	0.00	.00	0.00
Inglewood, City	1,036.94	635.54	-401.40	-38.71
Kinder Morgan Liquids Terminals	24.34	21.53	-2.81	-11.54
L.A. County Department of Parks	96.76	216.99	120.23	124.26
L.A. County Sanitation Districts-JWPCP	0.00	0.00	.00	0.00
Lockheed Martin Corp.	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	104.44	47.29	-57.15	-54.72
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	2,719.06	3,569.21	850.15	31.27
Rolling Hills Country Club	137.00	238.00	101.00	73.72
Roman Catholic Archbishop - WB	67.09	180.91	113.82	169.65
SCI Funeral Services	19.83	37.42	17.59	88.70
Shell Oil Co NCWUP	24.59	47.57	22.98	93.45

West Basin	July 2023 - January 2024	July 2024 - January 2025	Difference	%Change
Southern California Edison Co. - WB	14.70	10.23	-4.47	-30.41
Tesoro Refining	5,106.09	5,751.38	645.29	12.64
Torrance Refining	695.29	584.06	-111.23	-16.00
Torrance, City	805.10	2,689.06	1883.96	234.00
West Basin Brewer Desalter	0.00	0.00	.00	0.00