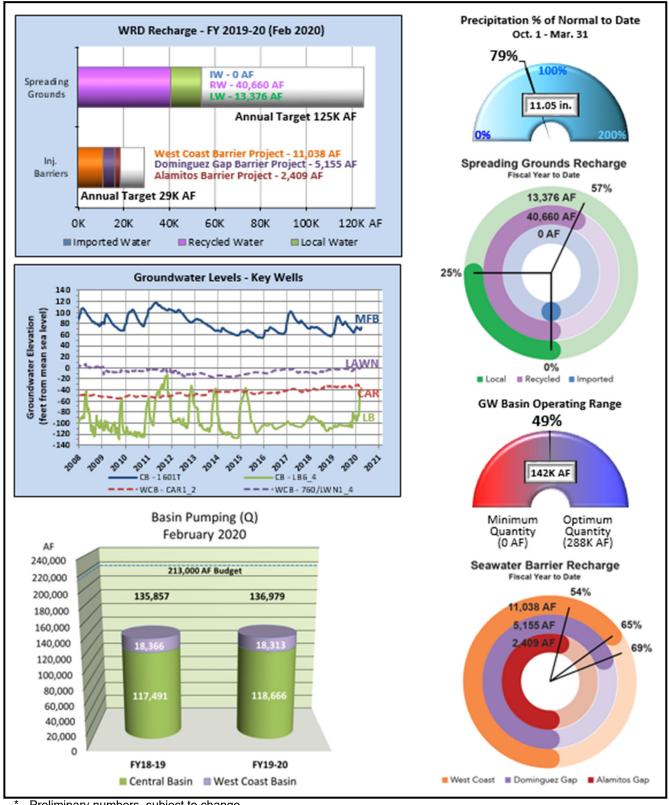


GROUNDWATER BASIN UPDATE FOR APRIL 2020

GROUNDWATER BASINS AT A GLANCE*



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

SUMMARY

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

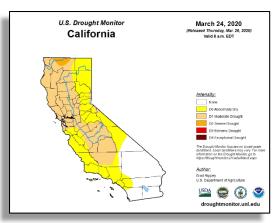
Precipitation (Oct. 1, 2019 - Mar. 31, 2020)

The WRD precipitation index reports that for the 2019-20 Water Year, there has been 11.05 inches of rainfall. The normal rainfall for this time period is 14.07 inches, so the District is 79% of normal. As of March 24, 2020, the U.S. Drought Monitor is reporting 75% of the State is abnormally dry, 40% under moderate drought and 1% under severe drought conditions.

Snowpack (Snow Water Content [SWE] as of March 26, 2020)

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 consist 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.

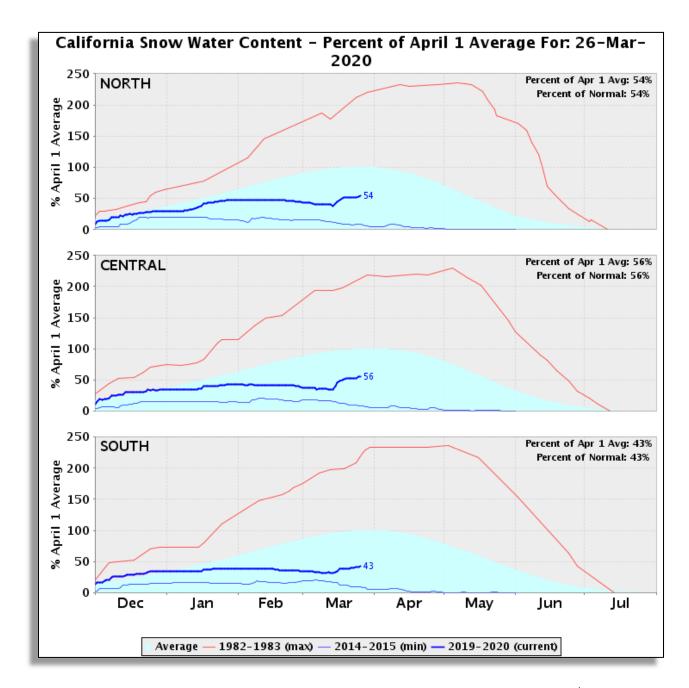


NORTH Data For: 26-Mar-2020 Number of Stations Reporting 30 Average snow water equivalent 15.7" Percent of April 1 Average 54% Percent of normal for this date 54%

CENTRAL	
Data For: 26-Mar-2020	
Number of Stations Reporting	43
Average snow water equivalent	16.6"
Percent of April 1 Average	56%
Percent of normal for this date	56%

28
11.0"
43%
43%

STATEWIDE SUMMARY	
Data For: 26-Mar-2020	
Number of Stations Reporting	101
Average snow water equivalent	14.8"
Percent of April 1 Average	52%
Percent of normal for this date	52%

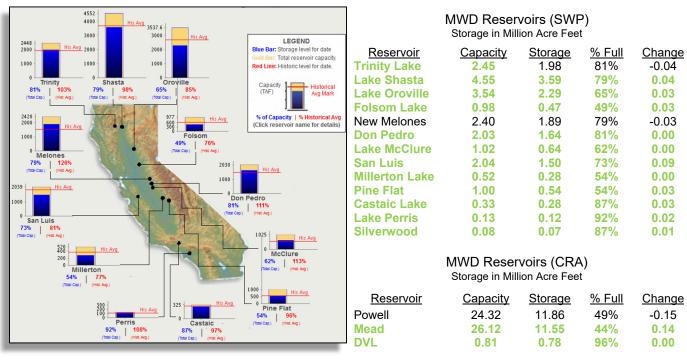


Northern Sierra Nevada – 15.7 in., 54% of normal to date and 54% of April 1st average Central Sierra Nevada – 16.6 in., 56% of normal to date and 56% of April 1st average Southern Sierra Nevada – 11.0 in., 43% of normal to date and 43% of April 1st average Statewide Summary – 14.8 in., 52% of normal to date and 52% of April 1st average

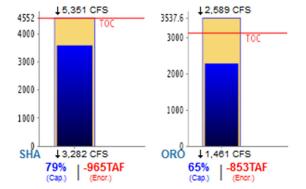
Reservoirs (as of March 30, 2020)

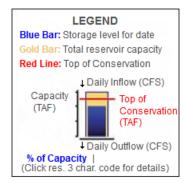
For all 16 reservoirs reported monthly to the committee, water levels have increased in 13 reservoirs compared to levels recorded in the previous month and decreased in 3 reservoirs. The largest increase (0.14 million acre feet) occurred at Lake Mead. The smallest increase (<0.00 million acre feet) occurred at Don Pedro Reservoir, Lake McClure, Millerton Lake, and Diamond Valley Lake. The largest decrease (-0.15 million acre feet) occurred at Lake Powell. The smallest decrease (0.03 million acre feet) occurred at New Melones Reservoir.

These 16 reservoirs are at 55% capacity (39.48 million acre feet) which is up from the prior month (0.2 million acre feet State Water Project [SWP] and -0.01 million acre feet Colorado River Aqueduct [CRA]).



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

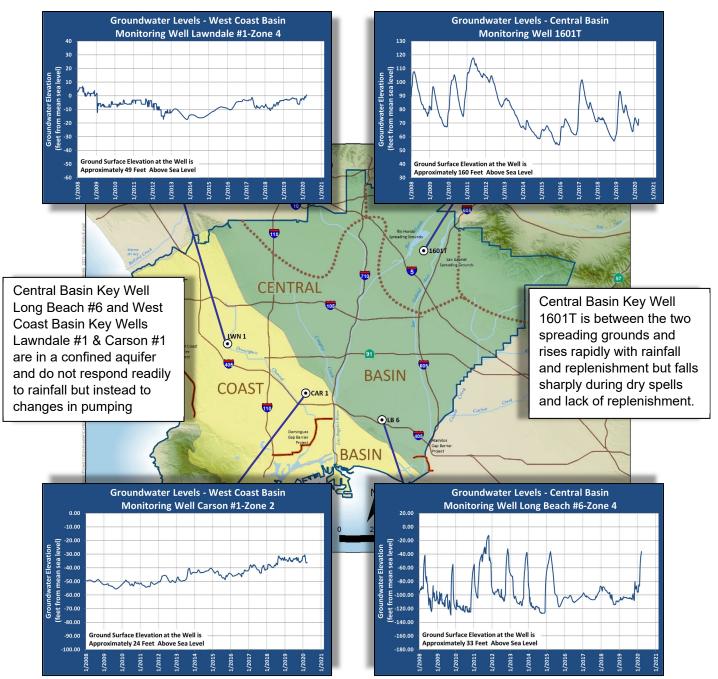




Charts illustrating Lake Shasta (SHA) and Lake Oroville (ORO) are currently filling.

Groundwater Levels (through March 26, 2020)

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



Groundwater Level Changes in Key Wells

Well Name	Since Last Report	Since Same Time the Previous Year
Central Basin Key Well 1601T	Increased 3.2 feet	Decreased 20.0 feet
Central Basin Key Well Long Beach #6_4	Increased 22.2 feet	Increased 66.3 feet
West Coast Basin Key Well Lawndale #1_4	Increased 2.1 feet	Increased 3.6 feet
West Coast Basin Key Well Carson #1_2	Decreased 0.8 foot	Decreased 2.9 feet

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

Optimum and Minimum Groundwater Quantity

In response to a 2002 State audit of the District's activities, 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.

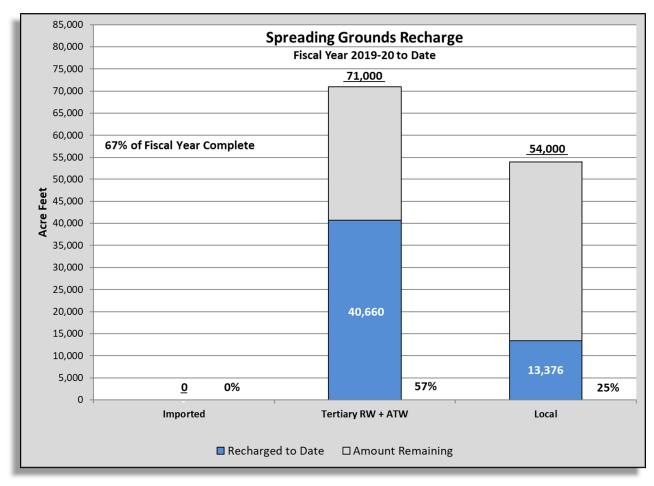
After an extensive review of over 70 years of water level fluctuations and discussions with the Board and pumping community, Water Year 1999/2000 was recognized as a representative year for the Optimum Quantity, which equated to an accumulated overdraft of approximately 612,000 acre feet. The Minimum 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 26, 2020, has been estimated at 758,277 acre feet (subject to change), which is 141,723 acre feet above the Minimum Groundwater Quantity and 146,277 acre feet below the Optimum Quantity. The Basin is at 49% of Optimum Quantity which is up 4% from last month.



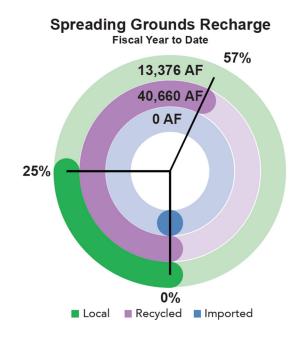
Montebello Forebay Spreading Grounds (July 2019 - February 2020)

The following Chart shows the preliminary spreading grounds replenishment water:

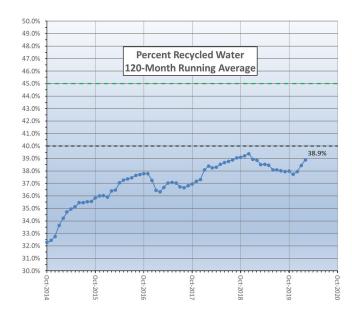


For the Fiscal Year 2019-20, no imported water purchases are anticipated.

Local water (stormwater plus dry weather urban runoff) is captured by the Los Angeles County Department of Public Works (LACDPW) at the spreading grounds for recharge. Local water amounts are determined as the sum of the total waters conserved at the spreading grounds less the imported and recycled water deliveries. For the first eight months of the 2019-20 Fiscal Year, approximately 13,376 acre feet of local water capture has been reported by the LACDPW.



Preliminary numbers for the first eight months of the 2019-20 Fiscal Year show that approximately 40,660 acre feet of recycled water has been recharged with 5,061 AF consisting of advanced treat water from the ARC AWTF. Presuming the advanced treated water as "Null Water" the 120-month running average of recycled water contribution in the Montebello Forebay is 38.9% and the regulatory maximum is 45%, with additional studies and monitoring being required once 40% is reached.



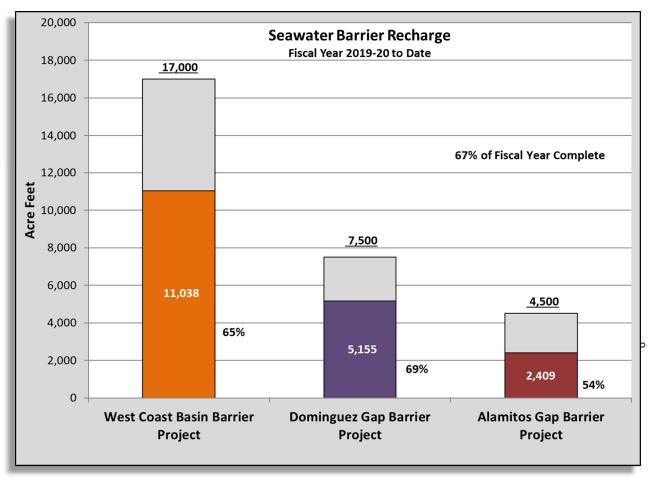
Tertiary Recycle Water Permit Update

Following extensive collaboration between the District and LACSD, the Workplan required by the SWRCB - Division of Drinking Water and LARWQCB regarding the use of tertiary treated recycled water at the Montebello Forebay Spreading Grounds was submitted on November 18, 2019.

Upon receipt of comments on the Workplan from the State of California, the District and LACSD will proceed with finalizing the preparation and submittal of the new Title 22 Engineering Report. In anticipation of receiving comments in late spring 2020, staff is continuing to work with the LACSD on developing the known components of the new Title 22 Engineering Report. A preliminary scoping meeting and a follow-up strategy meeting were held on November 26, 2019, and January 27, 2020, respectively. Staff is working collaboratively with the LACSD preparing draft sections of the engineering report.

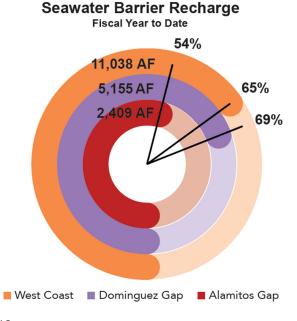
Seawater Barrier Well Injection and Replenishment (July 2019 - February 2020)

The following Chart shows the barrier water injection:



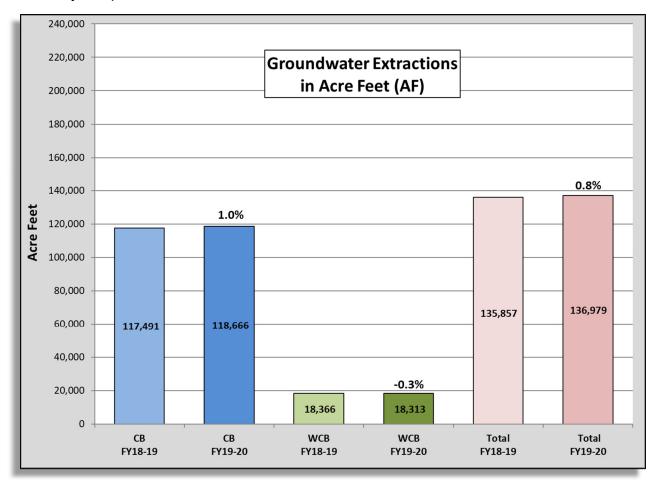
Preliminary numbers for the first eight months of the 2019-20 Fiscal Year show that the

West Coast Barrier has used 11,038 acre feet of the total 17,000 acre feet planned for injection, 65% of total for the Fiscal Year. The Dominguez Gap Barrier used 5,155 acre feet of the total 7,500 acre feet planned for injection, 69% of the total for the Fiscal Year. The Alamitos Barrier, on the WRD side, used 2,409 acre feet of the total 4,500 acre feet planned for injection, 54% of the total for the Fiscal Year.

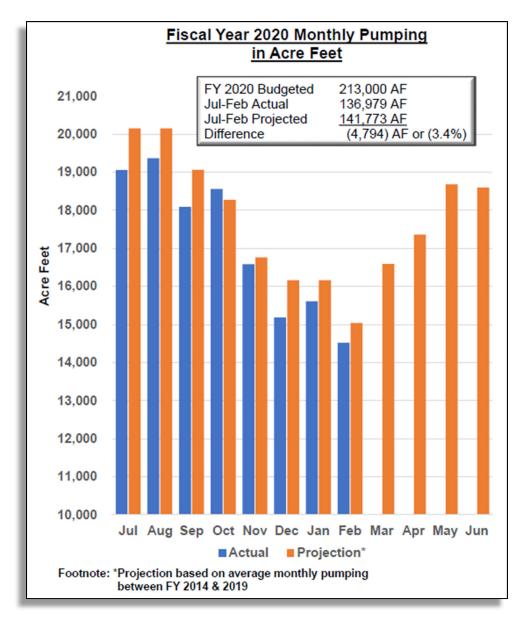


<u>Assessible Pumping (Fiscal Year July 2019 – February 2020)</u>

Preliminary numbers for groundwater production in the District for the Fiscal Year 2019-20 (July 2019 – February 2020) indicate pumping in the Central Basin was up 1,175 acre feet from the same time of the previous fiscal year (1.0%) and the West Coast Basin pumping was 52 acre feet lower than the previous fiscal year (-0.3%). The total pumping is 136,979 acre feet compared to 135,857 acre feet during the same time the previous year for an increase of 1,122 acre feet, or 0.8%. The current pumping data do not include three Central Basin pumpers and two West Coast Basin pumpers who have not yet reported.



Preliminary numbers indicate 136,979 acre feet have been pumped this fiscal year and is 3.4% below the projected goal of 141,773 acre feet (or -4,794 acre feet). Monthly actual production versus 6-year average monthly production projections (FY 2014 through 2019) are included in the chart below.



For the Fiscal Year 2019-20 (July 2019 – February 2020), 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 Trends - Central Basin					
Top 5 Producing by Volume (AF)	July 2018 - February 2019	July 2019 - February 2020	Difference	% Change	
Long Beach, City of	17,698.29	19,134.37	1,436.08	8.11%	
Whittier, City of	2,674.85	3,767.01	1,092.16	40.83%	
Paramount, City of	3,283.18	3,827.45	544.27	16.58%	
Cerritos, City of	5,383.77	5,790.79	407.02	7.56%	
California Water Service Company (East LA)	5,899.21	6,281.88	382.67	6.49%	
Bottom 5 Producing by Volume (AF)	July 2018 - February 2019	July 2019 - February 2020	Difference	% Change	
Lakewood, City of Water Department	6,486.38	4,536.08	-1,950.30	-30.07%	
Golden State Water Company	14,442.20	13,483.32	-958.88	-6.64%	
San Gabriel Valley Water Company	1,211.99	693.20	-518.79	-42.80%	
Bell Gardens, City of	692.56	284.23	-408.33	-58.96%	
California American Water Company	1,084.29	741.54	-342.75	-31.61%	

Production Trends – West Coast Basin					
Top 5 Producing by Volume (AF)	July 2018 - February 2019	July 2019 - February 2020	Difference	% Change	
Inglewood, City of	866.50	2,481.59	1,615.09	186.39%	
Phillips 66 Company	2,883.57	3,498.47	614.90	21.32%	
Tesoro Refining & Marketing Co., LLC	2,497.40	3,064.26	566.86	22.70%	
Rolling Hills Country Club	61.00	243.00	182.00	298.36%	
Roman Catholic Archbishop of Los Angeles	176.98	203.60	26.62	15.04%	
Bottom 5 Producing by Volume (AF)	July 2018 - February 2019	July 2019 - February 2020	Difference	% Change	
Golden State Water Company	3,447.76	1,817.86	-1,629.90	-47.27%	
Lomita, City of	363.83	1.78	-362.05	-99.51%	
West Basin Brewer Desalter	379.08	84.14	-294.94	-77.80%	
California Water Service Co. (Dominguez)	2,733.16	2,514.78	-218.38	-7.99%	
California Water Service Co./Hawthorne Lease	614.67	462.93	-151.74	-24.69%	