

Memorandum

DATE: October 13, 2020

TO: Member Agencies – MWDOC Divisions Two & Three

FROM: Larry Dick, Director – Division Two

Bob McVicker, Director - Division Three

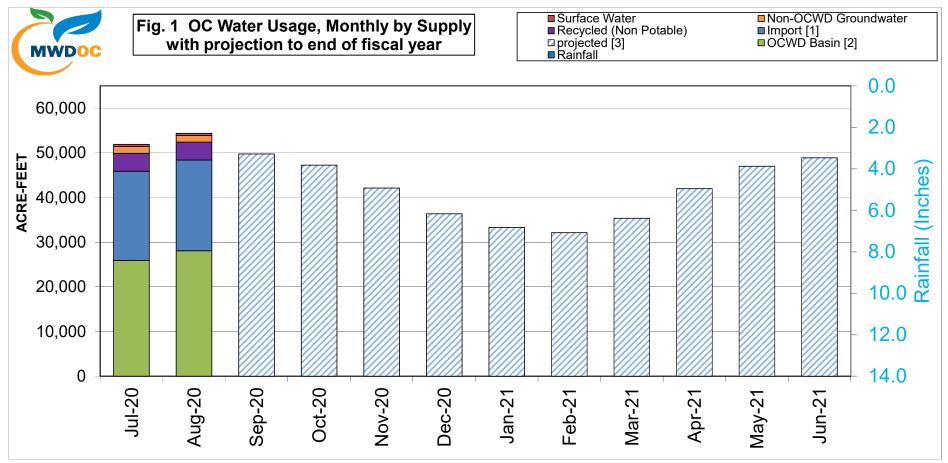
SUBJECT: Monthly Water Usage Data, Tier 2 Projection & Water Supply Information

The attached figures show the recent trend of water consumption in Orange County (OC), an estimate of Imported Water Sales for MWDOC, and selected water supply information.

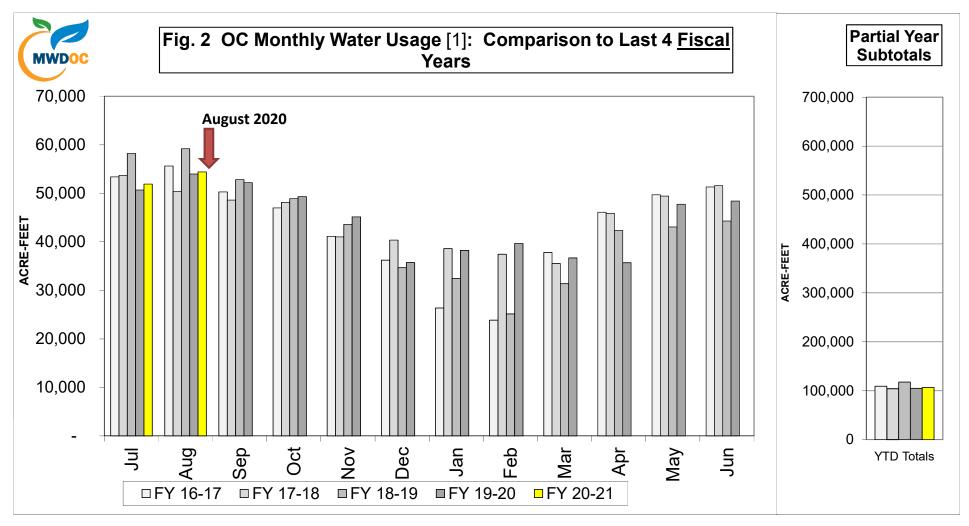
- OC Water Usage, Monthly by Supply oCWD Groundwater was the main supply in August.
- OC Water Usage, Monthly, Comparison to Previous Years
 Water usage in August
 2020 was <u>slightly below average</u> compared to the last 5 years. We are projecting a slight decrease in overall water usage compared to FY 2019-20. It has been 41 months since all mandatory water restrictions were lifted by the California State Water Resources Control Board.
- Historical OC Water Consumption Orange County M & I water consumption is projected to be 521,000 AF in FY 2020-21 (this includes ~15 TAF of agricultural usage and non-retail water agency usage). This is about 13,000 AF less than FY 2019-20 and is about 6,000 AF more than FY 2018-19. Water usage per person is projected to be slightly lower in FY 2020-21 for Orange County at 142 gallons per day (This includes recycled water). Although OC population has increased 20% over the past two decades, water usage has not increased, on average. A long-term decrease in per-capita water usage is attributed mostly to Water Use Efficiency (water conservation) efforts. O.C. Water Usage for the last five Fiscal Years is the lowest since the 1982-83 Fiscal Year (FY 1982-83 was the third wettest year on record).

<u>Water Supply Information</u> Includes data on Rainfall in OC; the OCWD Basin overdraft; Northern California and Colorado River Basin hydrologic data; the State Water Project (SWP) Allocation, and regional storage volumes. The data have implications for the magnitude of supplies from the three watersheds that are the principal sources of water for OC. Note that a hydrologic year is Oct. 1st through Sept. 30th.

- Orange County's accumulated precipitation through *late September* was slightly above average for this period. Water year to date rainfall in Orange County is 14.79 inches, which is 115% of normal.
- Northern California accumulated precipitation through *later September* was 64% of normal for this period. Water Year 2019 was 137% of normal while water year 2018 was 82% of normal. The *Northern California snowpack* was 71% of normal as of April 8th. As of early October, 67.65% of California is experiencing moderate to extreme drought conditions while 84.65% of the state is experiencing abnormally dry conditions. The State Water Project Contractors Table A Allocation was increased to 20% in May 2020.
- Colorado River Basin accumulated precipitation through late September was 80% of normal for this period. The Upper Colorado Basin snowpack was 100% of normal as of April 6th. Lake Mead and Lake Powell combined have about 60% of their average storage volume for this time of year and are at 43.2% of their total capacity. If Lake Mead's level falls below a "trigger" limit 1,075 ft. at the end of a calendar year, then a shortage will be declared by the US Bureau of Reclamation (USBR), impacting Colorado River water deliveries to the Lower Basin states. As of early October, Lake Mead levels were 8.18' above the "trigger" limit. The USBR predicts that the start of 2020 will not hit the "trigger" level but there is a 0% chance that the trigger level will be hit in 2021 and a 9% chance in 2022.



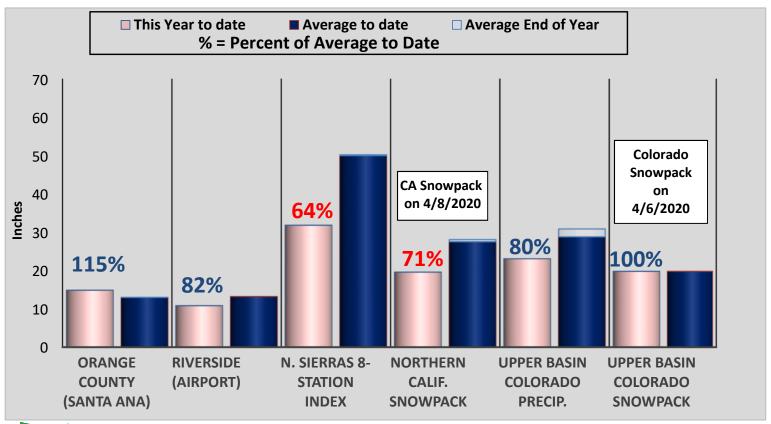
- [1] Imported water for consumptive use. Includes "In-Lieu" deliveries and CUP water extraction. Excludes "Direct Replenishment" deliveries of spreading water and deliveries into Irvine Lake.
- [2] GW for consumptive use only. Excludes In-Lieu water deliveries and CUP water extraction that are counted with Import. BPP in FY '19-20 is 77%.
- [3] MWDOC's estimate of monthly demand is based on the projected 5 Year historical retail water demand and historical monthly demand patterns.
- [4] Total water usage includes IRWD groundwater agricultural use and usage by non-retail water agencies.



^[1] Sum of Imported water for consumptive use (includes "In-Lieu" deliveries; excludes "Direct Replenishment "and "Barrier Replenishment") and Local water for consumptive use (includes recycled and non-potable water and excludes GWRS production) Recent months numbers include some estimation.

Accumulated Precipitation

for the Oct.-Sep. water year, late September 2020





^{*} The date of maximum snowpack accumulation (April 1st in Northern Calif., April 15th in the Upper Colorado Basin) is used for year to year comparison.

