

# WATER RESOURCES SUMMARY

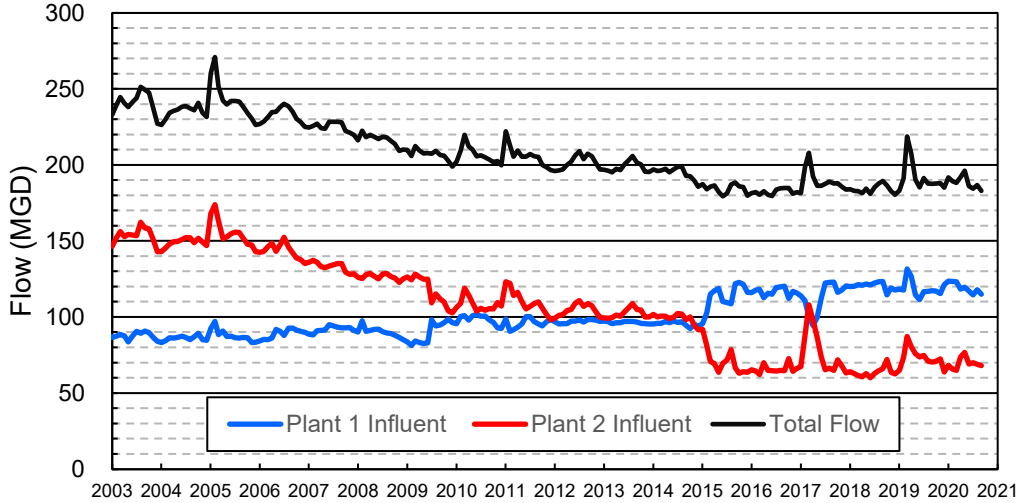
August 2020

INFLOWS & OUTFLOWS (acre-feet)	Total for Month	Year to Date - This Year    Last Year	
<b>BASIN SUPPLIES</b>			
Water Purchases from MWD (excludes In Lieu)	0	0	504
Water into MWD Storage Account (excludes In Lieu)	0	0	0
SAR & Santiago Creek Flows (accounts for storage to/from recharge facilities)	6,987	18,149	16,537
GWRS Water to Forebay	4,526	9,853	11,556
GWRS Water to Mid-Basin Injection Wells	908	1,915	323
GWRS Water to Talbert Barrier	2,310	4,624	5,398
OC-44 Water to Talbert Barrier	8	9	0
Alamitos Barrier Water	230	469	279
Incidental Recharge (estimated)	1,500	3,300	2,800
Evaporation from Recharge Basins	(421)	(838)	(838)
River Flow Lost to Ocean	<u>0</u>	<u>0</u>	<u>0</u>
Total Groundwater Recharge	16,048	37,479	36,559
<b>WATER PRODUCTION</b>			
Groundwater Production	28,081	54,028	58,867
MWD Storage Program Withdrawals	<u>0</u>	<u>0</u>	<u>0</u>
Total Groundwater Production	28,081	54,028	58,867
<b>BASIN BALANCE</b>			
Change in Groundwater Storage	(12,033)	(16,549)	(22,308)
Change in Groundwater Storage excluding MWD Stored Water	(12,033)	(16,549)	(22,308)
Accumulated Overdraft	-----	216,548	258,308
Accumulated Overdraft excluding MWD Storage	-----	216,548	258,308
<b>IN LIEU WATER</b>			
OCWD In Lieu Purchases (MWD Cyclic Storage)	0	0	0
MWD In Lieu Storage	<u>0</u>	<u>0</u>	<u>0</u>
Total In Lieu	0	0	0
<b>OTHER KEY INFORMATION</b>			
1. MWD Water Deliveries to Producers	10,665	22,510	18,128
2. Basin Production Percentage	72.5%	70.6%	76.5%
3. Total Water Demand	40,430	79,773	80,288
4. Total GWRS Production	7,756	16,410	17,291
5. Green Acres Project Water	529	916	1,056
6. SAR Water Quality			
- Total Dissolved Solids (TDS) of SAR below Prado Dam (ppm)	NA	-----	682
- Total Nitrogen of SAR below Prado Dam (ppm)	NA	-----	5.1
7. Month-End Water Storage Behind Prado Dam	0	-----	1
8. Month-End Water Storage in Recharge Facilities	9,588	-----	10,947
9. Water Storage Change in Recharge Facilities	(2,326)	(6,151)	(5,836)
10. Total Artificial Recharge	14,548	34,179	33,759
11. Monthly Mean Temperature at Santa Ana Fire Station (°F)	76.0	-----	75.5
12. Rainfall at FHQ (inches)	0.00	0.00	0.00

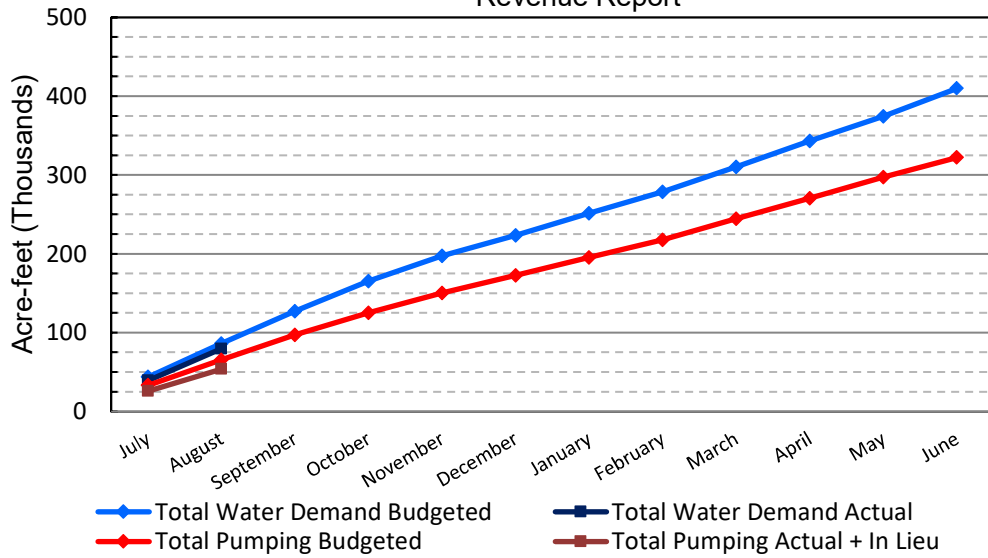
\*\*\* Note: Data are preliminary, subject to change

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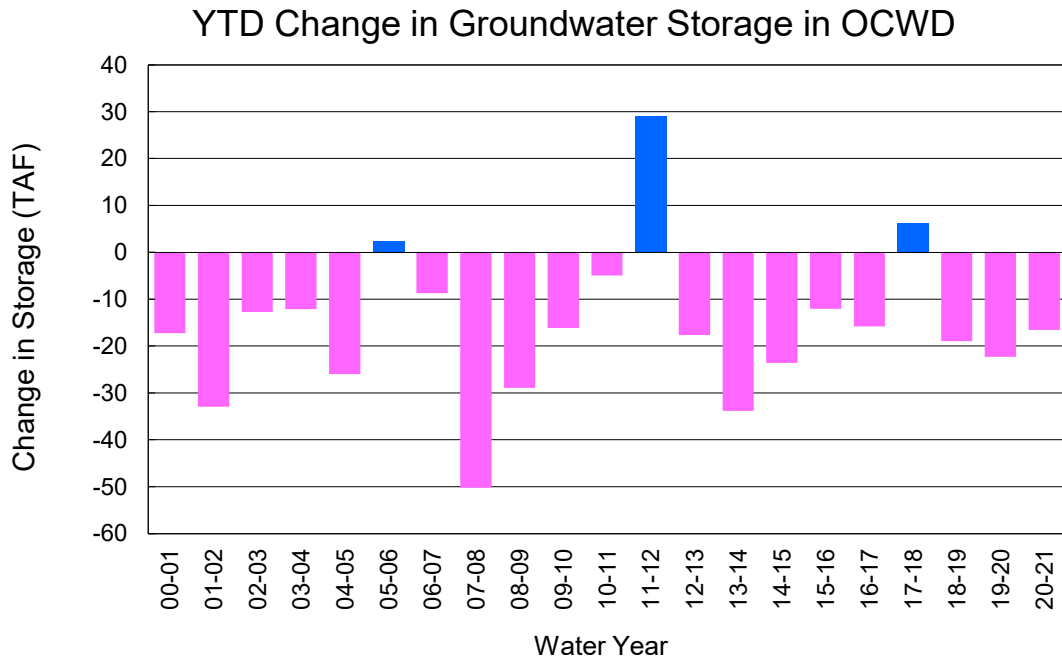
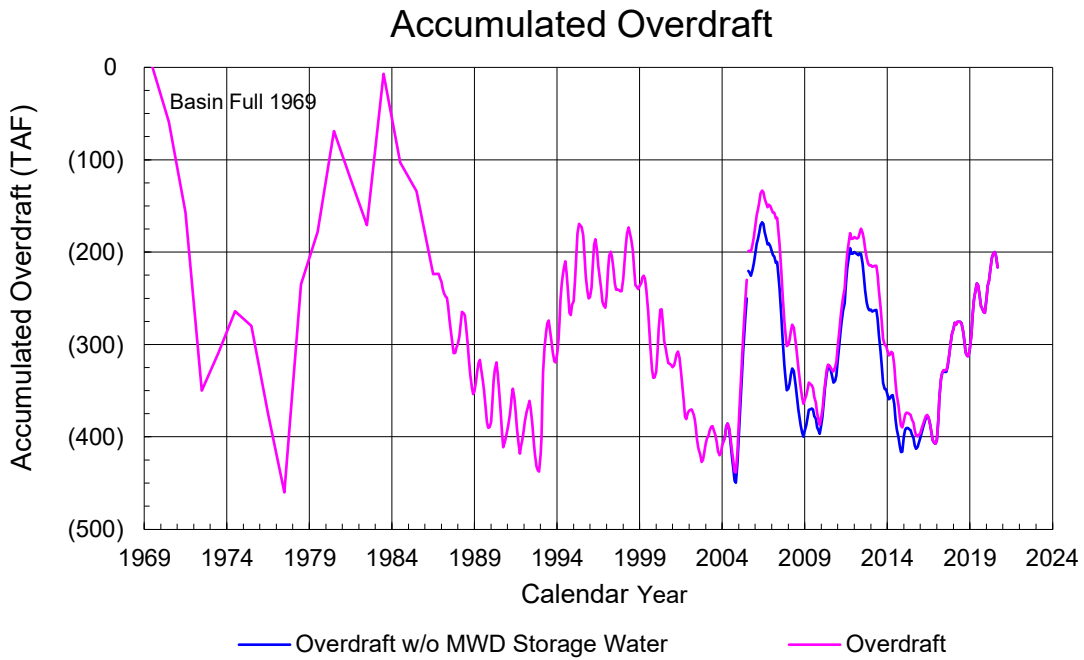
### Orange County Sanitation District Influent Flows Report



### 2019-20 Water Demands/Groundwater Pumping + In Lieu/RA Revenue Report



	Monthly		Accumulated Total for the Year			
	Budget	Actual	Budget	Actual	Difference	Percent
Total Water Demand	42,100	40,430	86,000	79,773	-6,227	92.76%
Total Pumping + In Lieu	32,100	28,081	65,400	54,028	-11,372	82.61%
RA Revenue	\$14,830,200	\$12,973,491	\$30,214,800	\$24,960,989	-\$5,253,811	82.61%



## PRODUCERS WATER USAGE SUMMARY

**August 2020**

(AF except BPP)

WATER AGENCY	Ground-water (1)	In Lieu	Reclaimed Water	Total Import (2)	Total Demand	2020-21 YTD Demand	2019-20 YTD Demand	YTD % Diff Demand	AUG 2020 BPP	2020-21 YTD BPP	2019-20 YTD BPP
Anaheim	1,656	0	0	3,966	5,622	11,318	12,364	92%	29.5%	26.0%	70.8%
Buena Park	1,172	0	0	240	1,412	2,711	2,743	99%	83.0%	82.5%	56.7%
East Orange County	0	0	0	99	99	189	169	112%	0.0%	0.0%	1.0%
Fountain Valley	914	0	143	0	1,057	2,025	2,106	96%	100.0%	100.0%	100.0%
Fullerton	1,992	0	0	558	2,550	5,073	5,184	98%	78.1%	77.6%	78.9%
Garden Grove	1,685	0	0	648	2,333	4,561	4,495	101%	72.2%	52.5%	61.9%
Golden State	1,715	0	0	760	2,476	4,901	4,734	104%	69.3%	69.2%	79.6%
West OC System	1,387	-	-	54	1,440	2,865	2,757	104%	na	na	na
East OC System	329	-	-	707	1,035	2,036	1,977	103%	na	na	na
Huntington Beach	2,140	0	0	657	2,797	5,586	5,379	104%	76.5%	78.6%	61.9%
Irvine Ranch	4,806	0	1,300	20	6,126	11,958	11,502	104%	99.6%	99.6%	99.8%
DRWF Clear	3,065	-	-	-	3,065	5,874	5,514	107%	na	na	na
DRWF Color	706	-	-	-	706	1,429	1,444	99%	na	na	na
Laguna Beach	0	0	0	350	350	704	681	na	0.0%	0.0%	70.7%
La Palma	199	0	0	0	199	396	398	99%	100.0%	100.0%	100.0%
Mesa Water (MW)	1,658	0	130	0	1,787	3,532	3,512	101%	100.0%	100.0%	92.5%
MW Clear	1,093	-	-	-	1,093	2,176	2,170	100%	na	na	na
MW Amber	565	-	-	-	565	1,115	837	133%	na	na	na
Newport Beach	1,431	0	69	133	1,633	3,216	3,181	101%	91.5%	92.5%	80.2%
Orange	1,958	0	0	915	2,873	5,651	5,588	101%	68.2%	67.1%	71.8%
OCWD (GAP)	174	0	0	0	174	354	288	123%	100.0%	100.0%	100.0%
Santa Ana	2,195	0	42	1,141	3,378	6,659	6,596	101%	65.8%	65.5%	64.9%
Seal Beach	16	0	0	362	378	743	688	108%	4.1%	4.3%	52.0%
Serrano	0	0	0	309	309	598	572	104%	0.0%	0.0%	73.2%
Tustin	1,078	0	0	66	1,144	2,241	2,198	102%	94.2%	92.3%	92.2%
Westminster	1,067	0	0	0	1,067	2,115	2,079	102%	100.0%	100.0%	80.4%
Yorba Linda	<u>1,794</u>	<u>0</u>	<u>0</u>	<u>427</u>	<u>2,221</u>	<u>4,386</u>	<u>4,198</u>	<u>104%</u>	<u>80.8%</u>	<u>80.6%</u>	<u>68.2%</u>
SUBTOTAL:	27,649	0	1,683	10,651	39,984	78,914	78,655	100%	72.5%	70.6%	76.5%
Other Producers (Est ~3% of Subtotal)	<u>0</u>	<u>0</u>	<u>0</u>	<u>14</u>	<u>14</u>	<u>859</u>	<u>1,633</u>	<u>53%</u>			
<b>TOTAL:</b>	<b>27,649</b>	<b>0</b>	<b>1,683</b>	<b>10,665</b>	<b>39,998</b>	<b>79,773</b>	<b>80,288</b>		<b>72.5%</b>	<b>70.6%</b>	<b>76.5%</b>
OCWD (Talbert Barrier)	0		2,310	8	2,317	4,633	5,398				
OCSA (GAP)	na		144	na	144	264	165				

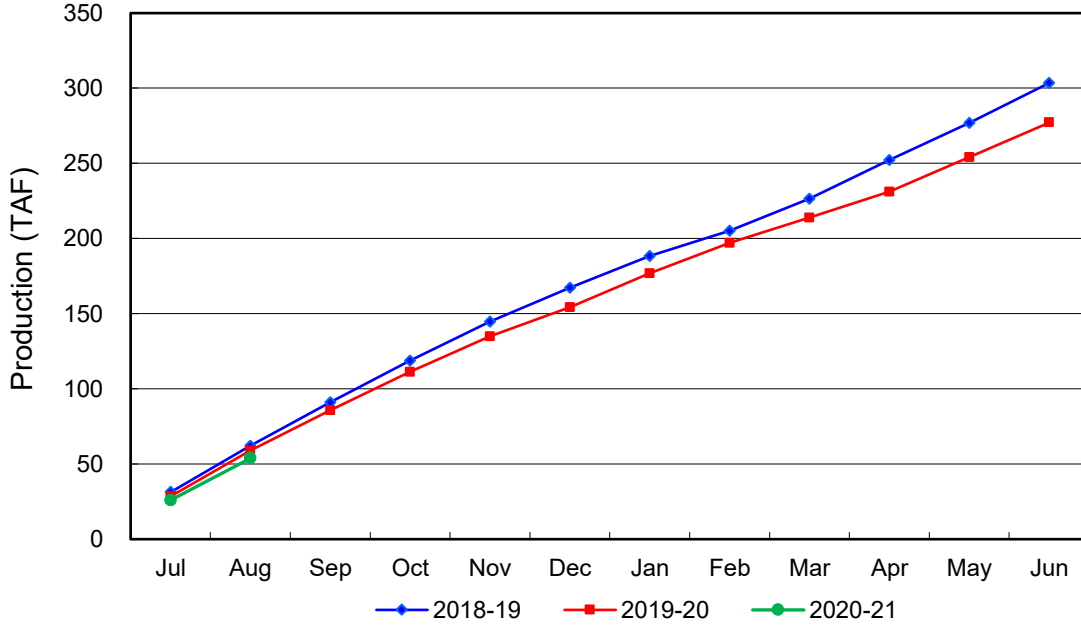
Estimated

(1) Excludes MWD CUP Withdrawals

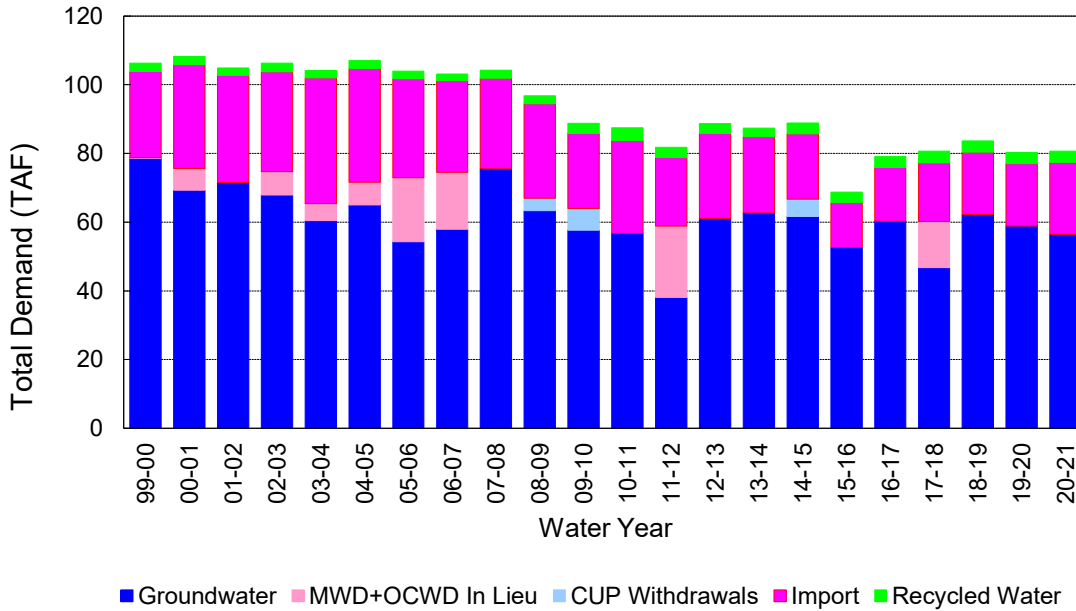
(2) Includes MWD CUP Withdrawals & In Lieu Water

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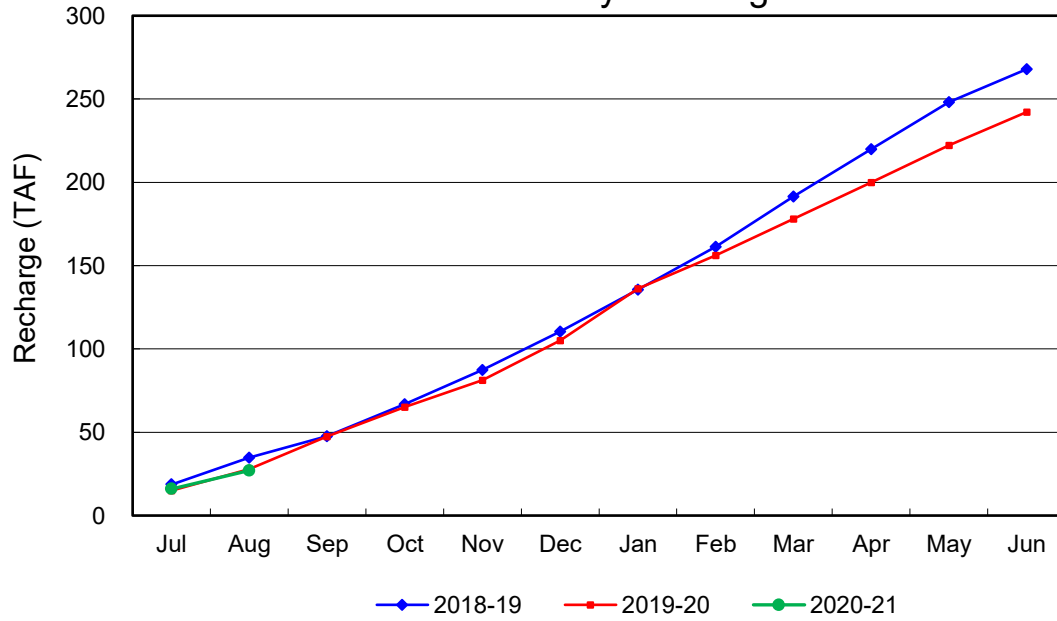
### Annual Groundwater Production



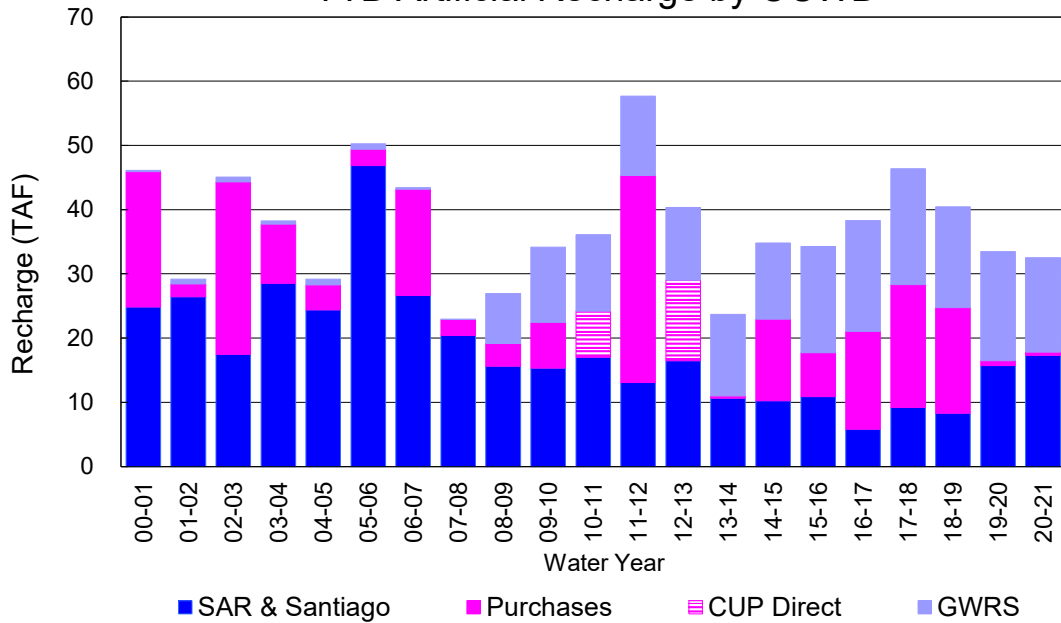
### YTD Total Demand in OCWD



### Annual Forebay Recharge



### YTD Artificial Recharge by OCWD



## RECHARGE AREAS REPORT

August 2020

	Percolation (AF)	Remarks
RIVER SYSTEM	3,049	50 cfs per day average
DESILTING SYSTEM	na	
OFF-RIVER SYSTEM	13	Olive storage pumped to Off-River and cleaned
WARNER SYSTEM	909	SAR
OLIVE BASIN	na	0
ANAHEIM LAKE	0	dewatered for cleaning
MINI-ANA LAKE	0	0
MILLER BASIN	931	Anaheim pumped water
KRAEMER BASIN	42	cleaned
LA PALMA BASIN	4,543	
MIRA LOMA	0	did not use, all GWRS flow to La Palma
LA JOLLA BASIN	193	
PLACENTIA BASIN	na	
RAYMOND BASIN	293	
FIVE COVES BASIN	na	cleaned
BURRIS BASIN	572	
RIVER VIEW BASIN	0	
FLETCHER BASIN	0	
SANTIAGO BASINS	549	
SANTIAGO CREEK	0	
<b>TOTALS</b>	<b>11,094</b>	
<b>5-YR AVERAGE</b>	<b>20,321</b>	

FLOWS TO RECHARGE AREAS (AF)	
Imperial Headgates (estimated)	4,567
GWRS	4,528
OC-28 (MWD)	0
OC-28a (MWD)	0
CB-11	0
CB-18	0
Est'd local Forebay inflow below Imperial	33
Est'd local Santiago inflow (estimated)	61
Irvine lake releases (OC-13 MWD)	0
Villa Park Dam releases (estimated)	0
Precip at Warner Basin (inches)	0
Precip direct to open water surfaces	0
<b>TOTAL INFLOW</b>	<b>9,189</b>

LOSSES FROM RECHARGE AREAS (AF)	
Est'd SAR flow past Chapman Ave.	0
Est'd Santiago Cr. flow to SAR	0
Est'd flows past Raymond Basin	0
Calc'd evap (inches) Estimated	7.21
Est'd evaporative losses	421
<b>TOTAL LOSSES</b>	<b>421</b>

STORAGE CHANGES (AF)			
Facility	Begin	End	Net
Deep basins	7,472	5,634	-1,838
Santiago Pits	4,442	3,954	-488
River			0
Off-river			0
Irvine Lake			
<b>TOTAL</b>	<b>11,914</b>	<b>9,588</b>	<b>-2,326</b>

SUMMARY (AF)	
TOTAL INFLOW	9,189
TOTAL LOSSES	421
STORAGE CHANGE	-2,326
CALC'D PERCOLATION	11,094

## DEEP BASINS MONTHLY STATUS

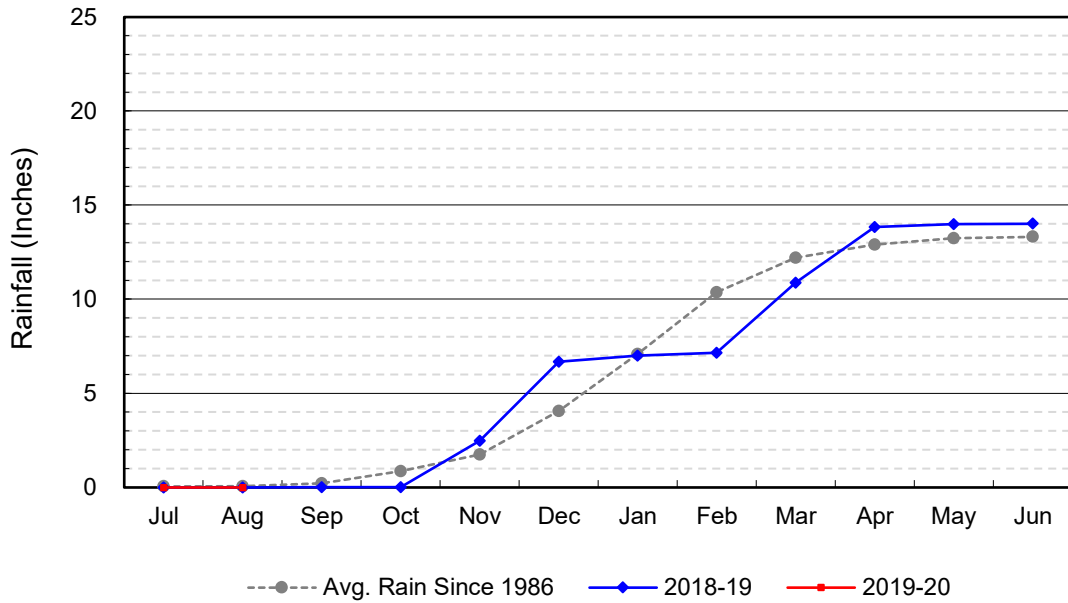
**August 2020**

(values in acre-feet)

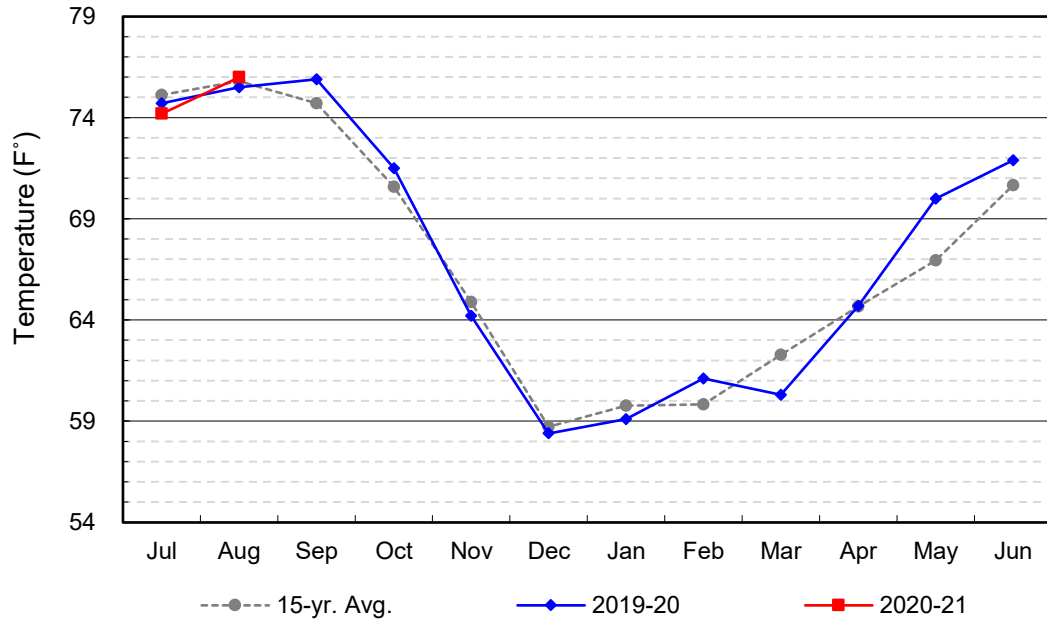
<i>Facility</i>	<i>Storage Start</i>	<i>Storage End</i>	<i>Maximum Storage</i>	<i>Total Perc</i>	<i>Max Perc</i>	<i>Avg Perc</i>	<i>Avg W.S. Elev</i>
Desilting Ponds	200	200	230	na	na	na	na
Fos-Huckleberry	380	524	630	na	na	na	na
Conrock Basin	510	554	660	na	na	na	na
Warner Basins	2,816	2,880	2,810	909	na	na	237
Olive Pit	13	0	183	na	na	na	192
Anaheim Lake	485	0	2,300	0	0	0	182
Mini-Anaheim Lk	0	0	21	0	na	na	220
Miller Basin	28	1	340	931	61	30	205
Kraemer Basin	782	0	1,050	42	10	1	172
La Palma Basin	25	0	105	4,543	173	147	214
Mira Loma	0	0	62	0	0	0	210
La Jolla Basin	19	3	36	193	16	6	201
Placentia Basin	0	0	350	na	na	na	na
Raymond Basin	200	40	370	293	na	na	na
Five Coves Basins	0	0	350	na	na	na	na
Burriss Pit	2,014	1,432	2,670	572	24	18	164
River View Basin	0	0	12	0	0	0	187
Fletcher Basin	0	0	15	0	0	0	184
Santiago (Bond)	3,287	2,850	8,690	549	55	18	218
Santiago (Blu Dia)	1,155	1,104	5,240	-	-	-	-
<b>Totals</b>	<b>11,914</b>	<b>9,588</b>	<b>26,124</b>	<b>8,032</b>			
Prado Dam	1	0	25,000				



### Cumulative Anaheim Field HQ Rainfall



### Temperature at Santa Ana Fire Station



# TALBERT BARRIER MONITORING WELL OCWD-M26

