

Table 1
City of Garden Grove - Water Division
Projected FY 22/23 Imported Water and Recharge Assessment Costs

Line No	Description	Actual	Used in Previous Pass Thru Calcs			Estimated	Notes
		FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
1	Water Supply						
2	Supply Allocation, AF	22,341	23,000	23,000	21,947	22,081	1
3	Percent % Groundwater	85%	77%	75%	75%	77%	1
4	Percent % Purchased	15%	23%	25%	25%	23%	1
5	Groundwater Production, AF	18,887	17,710	17,250	16,460	17,064	1
6	Purchased Water, AF	3,455	5,290	5,750	5,487	5,017	1
7							
8							
9	Water Supply Unit Costs						
10	MWD Imported Water Charge, \$/AF	\$1,050.00	\$1,078.00	\$1,104.00	\$1,143.00	\$1,209.00	2
11	Replenishment Assessment: Pumped Water, \$/AF	\$462.00	\$487.00	\$487.00	\$507.00	\$558.00	3
12	Basin Equity Assessment	\$747,696					
13							
14	MWD Imported Water Costs						
15	Calculated MWD Imported Water Charge, \$	\$3,627,225	\$5,702,620	\$6,348,000	\$6,271,263	\$6,065,017	4
16	MWD Readiness to Serve Charge	\$260,477	\$278,040	\$300,868	\$433,229	\$499,167	5
17	MWD Capacity Charge	\$91,025	\$118,848	\$178,135	\$236,147	\$202,765	6
18	MWD Choice Programs				\$16,041	\$28,734	7
19	MWD Connection Charge	\$411,992	\$417,310	\$410,579	\$443,118	\$468,834	8
20	# of Connections		33,654	33,654	34,086	34,097	9
21	MWDOC Retail Meter Charge		\$12.40	\$12.20	\$13.00	\$13.75	8
22	One-Time MWD Connection Charge Credit					(\$52,608)	10
23	Subtotal, MWD Imported Water Costs	\$4,390,719	\$6,516,818	\$7,237,582	\$7,399,798	\$7,211,908	
24							
25	Subtotal, Groundwater Costs, Including Replenishment Assessment	\$8,695,319	\$8,624,770	\$8,400,750	\$8,345,224	\$9,521,612	11

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Table 1 Notes:

- (1) Values for FY 22/23 were provided by City staff on 10/17/22. FY 22/23 Basin Production Percentage (BPP) set by Orange County Water District (4/20/22 Budget Overview, page 1) to be 77%. The 77% value is noted in this table as Percent Groundwater.
- (2) For current and past years, Metropolitan Water District (MWD) Imported Water Charge is documented in ordinances adopted by the Municipal Water District of Orange County (MWDOC). For FY 22/23, the Imported Water Charge is the MWD Tier 1 Treated Rate shown in the MWD Ten-Year Financial Forecast. The MWD Ten-Year Financial Forecast is contained in the MWD 2022/23 and 2023/24 Biennial Budget, page 221. MWD's rates are effective for each calendar year. The FY 22/23 rate shown in this table is the MWD Tier 1 Treated Rate for Calendar Year 2023. The Calendar Year 2023 Tier 1 Rate is also documented in MWDOC Resolution 2126, page 4
- (3) Source of FY 22/23 Replenishment Assessment: April 20, 2022 Orange County Water District Budget Overview (page 2), received 9/28/22 from City staff.
- (4) Equals the MWD Imported Water Charge (\$/AF) times the amount imported water in units of acre-feet.
- (5) Source of FY 22/23 Readiness to Serve Charge: MWDOC Resolution 2126, Exhibit A.
- (6) MWD Capacity Charges are assessed to MWDOC based on the peak day delivery between 5/1 and 9/30 over the three preceding years, and allocated by MWDOC to its member agencies. CY 2023 cost per 4/20/22 MWDOC Ordinance 2126, Exhibit B, which is used in this table for FY 22/23.
- (7) MWD Choice Programs include Water Use Efficiency and School Education programs. FY 22/23 cost per MWDOC Resolution 2126, Exhibit C.
- (8) FY 22/23 Source: MWDOC Invoice, dated 7/7/22, received from City staff on 10/17/22. The Connection Charge equals the number of connections times the MWDOC Retail Meter Charge.
- (9) Number of connections for FY 22/23 is from City staff, 10/17/22.
- (10) The FY 22/23 Connection Charge includes a non-recurring "Tier 2 Reserve Fund Credit" of \$52,608.19.
- (11) Equals the Replenishment Assessment (\$/AF) times the amount of groundwater production in units of acre-feet.

Table 2
City of Garden Grove - Water Division
Calculation of FY 22/23 Water Commodity Rate Adjustment (Effective 1/1/23)

Line No	DESCRIPTION	Actual	Used in Previous Pass Thru Calcs			Estimated
		FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23
1	Total AF/Year Imported	3,455	5,290	5,750	5,487	5,017
2	Total AF/Year Groundwater	18,887	17,710	17,250	16,460	17,064
3						
4	Groundwater: Annual Costs and Costs per Acre-Foot					
5	Groundwater Costs (Including Recharge Assessment and Basin Equity Assessment)	\$8,695,319	\$8,624,770	\$8,400,750	\$8,345,224	\$9,521,612
6	\$/AF	\$460.40	\$487.00	\$487.00	\$507.00	\$558.00
7						
8	MWD Imported Water: Annual Costs and Costs per Acre-Foot					
9	MWD Imported Water Cost	\$4,390,719	\$6,516,818	\$7,237,582	\$7,399,798	\$7,211,908
10	\$/AF	\$1,271.01	\$1,231.91	\$1,258.71	\$1,348.69	\$1,437.62
11						
12	Water Commodity Rate Adjustment Calculation, Merged MWD and Groundwater					
13	MWD and Groundwater Costs	\$13,086,038	\$15,141,588	\$15,638,332	\$15,745,022	\$16,733,521
14	\$/AF	\$585.74	\$658.33	\$679.93	\$717.42	\$757.85
15	Change from FY 18/19					
16	\$/AF		\$72.6	\$94.2	\$131.7	\$172.1
17	\$/ccf		\$0.17	\$0.22	\$0.30	\$0.40
18						
19	Water Commodity Rate Adjustment:					
20	Change from FY 18/19		\$0.17	\$0.22	\$0.30	\$0.40
21	Change from FY 21/22					\$0.10
22						
23	Water Commodity Delivery Charge: CY 2021, CY 2022, and CY 2023			CY 2021	CY 2022	CY 2023
24	Tier 1					
25	Unadjusted (Ordinance 2890)			\$2.89	\$2.86	\$2.86
26	Water Commodity Rate Adjustment			\$0.22	\$0.30	\$0.40
27	Adjusted			\$3.11	\$3.16	\$3.26
28	Tier 2					
29	Unadjusted (Ordinance 2890)			\$4.28	\$4.40	\$4.40
30	Water Commodity Rate Adjustment			\$0.22	\$0.30	\$0.40
31	Adjusted			\$4.50	\$4.70	\$4.80