Tables

Tables
Section 3

Table 3.3-03 Estimated Historical Demands and Supplies in the UVRGB by Category and Source.

Water Year	Year Type	M&I Demand	Ag Demand	Domestic Demand	Total Demand	M&I GW Supplies	Ag GW Supplies*	Domestic GW Supplies	Total GW Supplies	M&I SW Supplies	Ag SW Supplies	Total SW Supplies	Total Supply
2006	Wet	2,595	505	147	3,247	1,104	67	147	1,318	1,491	439	1,930	3,248
2007	Dry	2,974	505	194	3,673	1,220	90	194	1,504	1,754	415	2,169	3,673
2008	Normal	2,710	505	196	3,411	1,126	88	196	1,410	1,584	417	2,001	3,411
2009	Dry	2,565	505	197	3,267	894	92	197	1183	1,671	413	2,084	3,267
2010	Wet	2,261	505	196	2,962	956	83	196	1,235	1,305	422	1,727	2,962
2011	Wet	2,165	505	193	2,863	854	86	193	1133	1,311	420	1,730	2,863
2012	Dry	2,292	505	197	2,994	1,056	95	197	1,348	1,236	410	1,646	2,994
2013	Dry	2,198	505	199	2,902	944	90	199	1,233	1,255	415	1,670	2,903
2014	Dry	2,089	505	195	2,789	651	70	195	916	1,438	436	1,874	2,790
2015	Dry	1,782	505	182	2,469	604	77	182	863	1,178	428	1,607	2,470
2016	Dry	1,501	505	173	2,179	443	57	173	673	1,058	449	1,507	2,180
2017	Wet	1,464	505	168	2,137	680	77	168	925	784	428	1,212	2,137
2018	Dry	1,618	505	183	2,306	689	102	183	974	928	404	1,332	2,306
2019	Wet	1,482	505	191	2,178	614	82	191	887	868	424	1,292	2,179
Average (2006 – 2016)		2121	505	179	2,813	845	83	179	1,114	1,276	423	1,699	2,813

Sums of values may not match averages or totals due to rounding.

**Ag groundwater supplies are less than ag groundwater extractions shown in Table 3.3-06 due to groundwater exports for agricultural uses located outside of the basin.*

Table 3.3-06 UVRGB Groundwater Inflows and Outflows by Water Year, Historical and Current Period.

Period	Water Year	Year Type	Precipitation-Based Recharge	Agricultural Return Flows	M&I Return Flows	Septic Return Flows	Distribution losses Return Flows	Net Stream Percolation from Losing Reaches	Net GW Discharge to Gaining Reaches	Shallow Groundwater Drainage to the East	SW Diversion simulated using WEL package	M&I Pumping‡	Agricultural Pumping†	Domestic Pumping	GW ET from Riparian Vegetation	Inflows	Outflows	Change in Storage	Cumulative Change in Storage
Historical	**2006**	Wet	152	62	242	125	97	24,048	(18,642)	(5)	(708)	(4,600)	(215)	(194)	(1,525)	24,726	(25,889)	(1,090)	(1,090)
	2007	Dry	0	62	271	140	108	5,509	(8,632)	(3)	(804)	(5,009)	(283)	(196)	(1,359)	6,090	(16,286)	(10,115)	(11,205)
	2008	Normal	1,744	62	262	135	105	24,526	(12,588)	(5)	(846)	(5,292)	(266)	(197)	(1,802)	26,834	(20,996)	5,930	(5,274)
	2009	Dry	44	62	245	126	98	9,096	(7,178)	(6)	(903)	(5,618)	(290)	(197)	(1,275)	9,670	(15,466)	(5,523)	(10,798)
	2010	Wet	1,478	62	220	113	88	24,365	(13,492)	(9)	(886)	(5,542)	(240)	(193)	(1,399)	26,325	(21,763)	4,673	(6,125)
	2011	Wet	2,215	62	206	106	82	25,145	(17,267)	(14)	(856)	(4,727)	(252)	(197)	(1,538)	27,816	(24,851)	3,045	(3,080)
	2012	Dry	0	62	213	110	85	12,246	(8,768)	(13)	(785)	(5,908)	(284)	(199)	(1,439)	12,717	(17,398)	(4,490)	(7,569)
	2013	Dry	5	62	209	109	84	2,225	(5,015)	(12)	(765)	(4,449)	(310)	(196)	(944)	2,693	(11,690)	(8,439)	(16,008)
	2014	Dry	0	62	199	102	80	4,041	(573)	(11)	(787)	(4,867)	(266)	(183)	(809)	4,484	(7,497)	(2,532)	(18,540)
	2015	Dry	42	62	175	90	70	2,904	(1,056)	(11)	(271)	(2,815)	(294)	(170)	(678)	3,343	(5,296)	(1,808)	(20,348)
	2016	Dry	6	62	148	76	59	3,955	(397)	(11)	(207)	(2,944)	(338)	(166)	(662)	4,307	(4,725)	(354)	(20,702)
Current	**2017**	Wet	1,724	62	116	71	76	24,609	(9,055)	(15)	(256)	(4,494)	(367)	(184)	(1,001)	26,658	(15,372)	11,363	(9,339)
	2018	Dry	1,309	62	121	74	78	8,665	(6,363)	(15)	(199)	(4,142)	(335)	(192)	(767)	10,309	(12,012)	(1,592)	(10,931)
	2019	Wet	1,570	62	119	73	77	28,938	(16,696)	(18)	(93)	(3,288)	(395)	(192)	(1,314)	30,838	(21,996)	8,939	(1,992)
Average* (2006 – 2016)			517	62	217	112	87	12,551	(8,510)	(9)	(711)	(4,707)	(276)	(190)	(1,221)	13,546	(15,623)	(1,882)	
Average* (2017 – 2019)			1,535	62	119	73	77	20,737	(10,705)	(16)	(183)	(3,975)	(366)	(189)	(1,027)	22,602	(16,460)	6,237	

*Sums of values may not match averages or totals due to rounding.

†Estimated for the Basin. Note that some of the agricultural pumped groundwater is used outside of the Basin.

‡These values are much higher than the "M&I GW Supplies" term in Table 3.3-03 due to City of Ventura pumping exported to the City of Ventura.

Tables
Section 4

Table 4.7-01 RWQCB established WQOs, Minimum Thresholds, and Measurable Objectives for Nitrate.

Constituent	MCL (mg/L)	RWQCB WQO (mg/L)	Range of Average Historical Concentrations for Wells or Well Groups (mg/l)	MT isocontour (mg/L)[1]	MT Rationale	MO isocontour (mg/L)[2]	MO Rationale
Percolating Groundwater Areas (Kennedy, Robles, Mira Monte/Meiners Oaks, and Santa Ana Hydrogeologic Areas)							
Nitrate (as N)	10	10	1.1 – 12.6	10	Prevent significant and unreasonable impact to municipal and domestic beneficial uses of groundwater consistent with the MCL.	7.5	Preserve existing groundwater quality for municipal and domestic beneficial uses.
Areas with Rising Groundwater (Casitas Springs Hydrogeologic Areas)							
Nitrate (as N)	10	5 (Surface Water WQO)	1.1 – 1.4	10	Prevent significant and unreasonable impact to municipal and domestic beneficial uses of groundwater consistent with the MCL.	3	Preserve existing groundwater quality for municipal and domestic beneficial uses. Protect surface water beneficial uses consistent with the RWQCB surface water WQO (MO is lower than surface water WQO).

[1] SGMA undesirable results are considered to occur when any isocontour exceeds 10 mg/L outside of the Mira Monte / Meiners Oaks Area and encompasses an area with active domestic wells producing groundwater from the alluvial aquifer that lack an alternative drinking water source. If the minimum threshold is exceeded, UVRGA will investigate to determine if caused by pumping by a GSP project or management action.

[2] The measurable objectives are not intended to be applicable in the Meiners Oaks / Mira Monte Area because this area is known to be a source area for nitrate and is an existing area of nitrate impacts. If the measurable objective is not met, UVRGA will investigate to determine if caused by pumping by a GSP project or management action.