

**DEMAND TABLES**

	2020/25	2025/30	2030/35	2035/40	2040/45
Population (official)	181,014	191,581	198,521	208,457	217,619
Population (official) < 10/2013	38,380	39,010	39,640	40,270	40,900
TOTAL WATER DEMAND	38,984	39,500	42,937	49,560	57,870
UWMP 2020 - Total Expected connections EID -Area	42,935	46,948	49,111	50,944	53,073

< Miscellaneous projections found  
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Table 2-1 page 2-3 & T2-4 pg 2-13

BAE Study Connections 23,358 Table 2-1 page 2-3 & T2-4 pg 2-13

**EID 2021 Table 5-2+3 & Impact analysis table 3.12.13; 2024**

Urban Water Master Plan 2020	2020/25	2025/30	2030/35	2035/40	2040/45
Urban Water Master Plan 2020	35,910	38,908	39,770	40,920	42,130
	(3,074)	4,754	5,961	7,226	8,551

<TR>: EDC - Impact analysis in EDHSF

Urban Water Master Plan 2020	2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
EDH Consumer use Potable Water	9,570	10,197	11,099	11,099	11,385	11,078	12,220	12,770	13,010	13,300	13,700
West + East service areas	9,544	10,675	10,743	11,472	10,635	7,850	-	-	-	-	-
<b>Total Retail Consumer use Potable Water</b>	<b>19,114</b>	<b>20,872</b>	<b>21,842</b>	<b>22,571</b>	<b>21,713</b>	<b>20,070</b>	<b>22,110</b>	<b>23,010</b>	<b>23,910</b>	<b>24,880</b>	<b>25,820</b>
City P-vll-itc+other+recycle	1,830	2,047	2,060	2,200	2,039	1,505	4,240	4,240	4,240	4,240	4,240
Other+Ag.potb.+Loss	10,919	11,923	12,477	13,057	12,403	11,465	12,630	12,520	12,770	13,010	13,300
<b>Total DISTRICT use Potable Water</b>	<b>31,863</b>	<b>34,842</b>	<b>36,379</b>	<b>38,114</b>	<b>36,196</b>	<b>33,040</b>	<b>38,980</b>	<b>39,770</b>	<b>40,920</b>	<b>42,130</b>	<b>43,320</b>

Table 4-1+3 & EID 2020 page 4-4  
UWMP 2020 - pag 4-58 Table-11 Pg 4-18

(7,644)

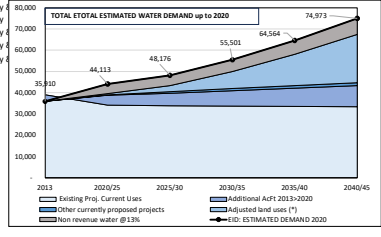
UWMP - Forecast Water Use, Table 4-11 (Ac.Ft.)	2020/25	2025/30	2030/35	2035/40	2040/45
Total Municipal (potable?)	21,220	23,010	23,910	24,880	25,820
Total EID New Customers	890	1,790	2,690	3,660	4,600
EDH New Customers	580	1,210	1,830	2,480	3,170

Table 4-11 forecast future use  
Table 4-11 forecast future use  
Table 4-11 forecast future use

Water Supply Asst Table 3-2(W2013)	2013	2020/25	2025/30	2030/35	2035/40	2040/45
Existing Proj. Current Uses	38,984	34,154	33,809	33,694	33,579	33,464
Other currently proposed projects	0	163	696	1,052	1,272	1,332
Adjusted land uses	0	514	2,853	7,975	14,718	22,830
Non revenue water @13%	-	4,528	4,857	5,554	6,444	7,491
<b>TOTAL AC.Ft. DEMAND (2013)</b>	<b>38,984</b>	<b>39,359</b>	<b>42,215</b>	<b>48,275</b>	<b>56,014</b>	<b>65,117</b>

**Appendix 1: Water Supply Asst Table 3-2 (W2013)**

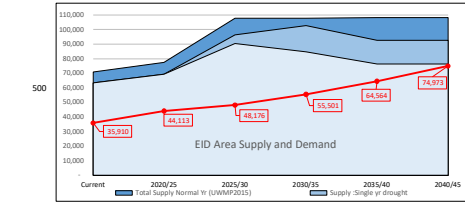
	2013	2020/25	2025/30	2030/35	2035/40	2040/45
EDH - ESTIMATED DEMAND 2020	35,910	44,113	48,176	55,501	64,564	74,973
EDH - ESTIMATED DEMAND 2020	30,313	32,669	33,836	35,940	38,643	41,532



< Table 3-2 WSA 2013

Table for graph	2013	2020/25	2025/30	2030/35	2035/40	2040/45
Existing Proj. Current Uses	38,984	34,154	33,809	33,694	33,579	33,464
Additional AcFt 2013-2020	(3,074)	4,754	5,961	7,226	8,551	9,856
Other currently proposed projects	-	163	696	1,052	1,272	1,332
Adjusted land uses (*)	-	514	2,853	7,975	14,718	22,830
Non revenue water @13%	-	4,528	4,857	5,554	6,444	7,491
<b>EID - ESTIMATED DEMAND 2020</b>	<b>35,910</b>	<b>44,113</b>	<b>48,176</b>	<b>55,501</b>	<b>64,564</b>	<b>74,973</b>

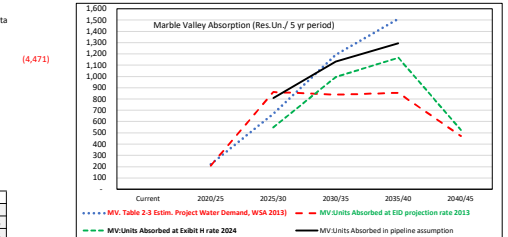
MEMORY CALC	Current	2020/25	2025/30	2030/35	2035/40	2040/45
Normal	70,800	70,800	70,800	70,300	78,300	78,300
Single yr drought	63,400	63,400	63,400	67,100	67,100	67,100
Five year drought	63,400	63,400	59,400	55,300	55,300	55,300
Less EDC / SMUD Agt	0.90	0.90	0.90	0.95	0.86	0.71



< Table 3-2 WSA 2013

Table for graph	2013	2020/25	2025/30	2030/35	2035/40	2040/45
Mar.Val Existing (2013)	38,984	39,500	42,937	49,560	57,874	67,295
Mar.Valy Project	141	721	1,285	1,860	2,177	2,177
<b>Total Mvly</b>	<b>38,984</b>	<b>39,359</b>	<b>42,216</b>	<b>48,275</b>	<b>56,014</b>	<b>65,118</b>

Table for graph	Current	2020/25	2025/30	2030/35	2035/40	2040/45
Mar.Val Existing + Planned Future Proj	38,984	39,539	42,216	48,275	56,104	65,117
Mar.Valy Project SP	141	721	1,285	1,860	2,177	2,177
<b>Total Mvly</b>	<b>38,984</b>	<b>39,680</b>	<b>42,937</b>	<b>49,560</b>	<b>57,964</b>	<b>67,294</b>



< Table 3-2 WSA 2013

EDH CONNECTIONS Table 2-1a	2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
EDH Connections	20,463	20,931	21,873	22,190	23,358	23,103	24,281	26,736	28,002	29,313	30,720
EDH Connections / 5 yr period	408	742	517	1,168	(255)	1,278	2,455	2,266	2,921	2,407	
EDH new resid connections (86% sfid + 14%MF)	1,285	2,683	4,068	5,506	7,054						
Expected New Resid Connections: T2-2	753	1,616	1,500	2,505	3,110						

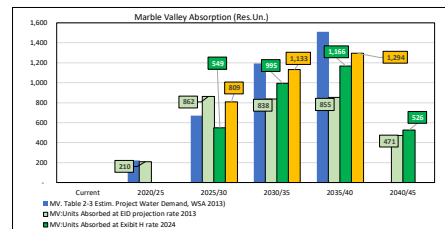
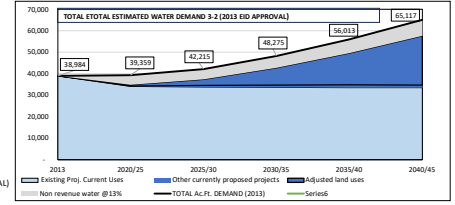
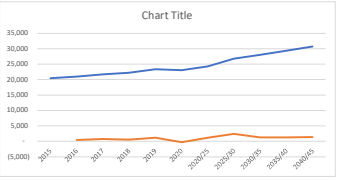
Table 2-1 pg 3-16  
Table 2-4  
Table 2-3

BAE Study Res Units  
Table 2-3 EID2020 page -13

Criteria*	AF - Year 2019	Citation
Potable Water Ac.Ft.	11,078	Table 4-1+3; page 4-4

AcF/DU	Marble Valley Table 2-3 page 2-13	2020	2025	2030	2035	2040
1.04	1 ac custom	25	45	145	193	1.16

Table 2-7Pg 2-15



Criteria*	AF - Year 2019	Citation
Potable Water Ac.Ft.	11,078	Table 4-1+3; page 4-4

AcF/DU	AcF/EDU	2020	2025	2030	2035	2040
1.04	289	29	47	151	201	1.04

RU4 - UPA	4.7
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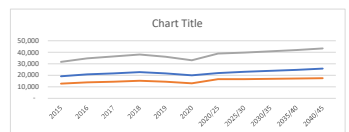
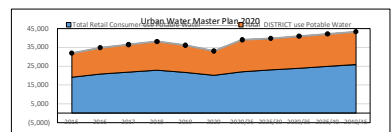
0.8	1/2 ac custom	25	50	50	125	0.87	0.80	0.80	0.80	22	40	40	100	0.80	144	PPHH	3.5
0.53	8000/10000 sf Lot	215	593	593	982	0.55	0.53	0.53	0.53	118	314	314	520	0.53	749	Prep/Ac	16.3
0.48	5000/7500 sf lot	-	-	663	663	0.50	0.48	0.48	0.48	-	-	-	318	0.48	458	Increase for project area	2.71
0.38	County / Totem	75	597	772	772	0.40	0.38	0.38	0.38	30	227	293	293	0.38	422	W.Cans /per	150.00
0.16	Multi Family	209	259	487	501	0.16	0.16	0.16	0.16	33	41	78	80	0.16	115	Years / Prd	5.00
	Total Cum	549	1,544	2,710	3,236	1.31	0.83	0.69	0.67	232	669	1,195	1,513	0.47	2,177	Gal / AcF.	33,197.5
	Comer+Public+Other (ROW)									141	489	616	665			AcFt Factor/ Unit	0.509
		549	1,544	2,710	3,236					141	721	1,285	1,860				

Total Proposed project demand 141 721 1,285 1,860 2,177

Marble Valley : Presented Plan Meet 11th June

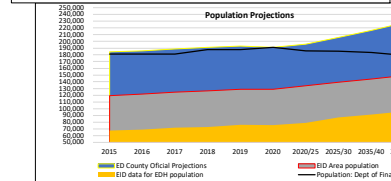
LONG TERM DEMAND bases on Acre Feet and connections		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
Memory Calc Table >	EDH Connections	20,463	20,931	21,673	22,190	23,358	23,103	24,281	26,736	28,002	29,313	30,720
Memory Calc Table >	Total Retail Consumer use Potable Water	19,114	20,872	21,842	22,857	21,713	20,070	22,110	23,010	23,910	24,880	25,820
Memory Calc Table >	Total DISTRICT use Potable Water	31,863	34,842	36,379	38,114	36,156	33,040	38,980	39,770	40,920	42,130	43,320

Table for graph	Total Retail Consumer use Potable Water	2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
Table for graph	Total DISTRICT use Potable Water	19,114	20,872	21,842	22,857	21,713	20,070	22,110	23,010	23,910	24,880	25,820
Table for graph	Total DISTRICT use Potable Water	12,749	13,970	14,537	15,257	14,443	12,970	16,870	16,760	17,010	17,250	17,500
Table for graph	Total DISTRICT use Potable Water	31,863	34,842	36,379	38,114	36,156	33,040	38,980	39,770	40,920	42,130	43,320

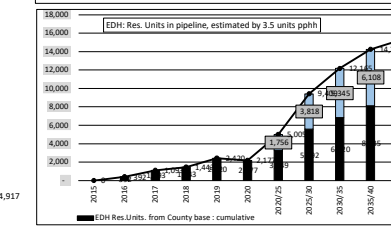


POPULATION		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45	2045/48
Table for graph	ED County Official Projections	184,627	186,027	188,793	190,255	193,057	191,245	196,079	206,080	216,593	227,641	239,253	
Table for graph	Population: Dept of Finance (CA)	181,058	181,058	181,058	187,940	187,940	191,032	186,186	185,434	183,477	179,456	174,271	
Table for graph	ED Area population	115,503	121,853	124,316	126,316	129,056	129,056	134,000	139,100	144,000	149,300	154,900	
Table for graph	ED data for EDH population	67,729	69,101	71,555	72,779	76,199	75,349	79,100	87,300	91,600	96,200	99,808	

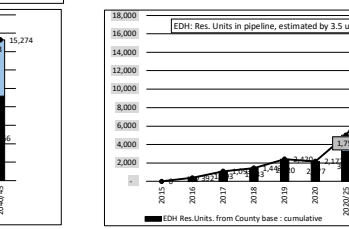
POPULATION		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45	2045/48
Memory Calc Table >	ED County Official Projections	184,627	186,027	188,793	190,255	193,057	191,245	196,079	206,080	216,593	227,641	239,253	
Memory Calc Table >	ED County Official Projections	3,569	4,969	7,735	2,985	5,117	213	9,893	20,646	33,116	48,185	64,982	
Memory Calc Table >	Population: Dept of Finance (CA)	61,555	59,205	56,742	61,624	58,884	61,976	52,186	46,334	39,477	30,156	19,371	
Memory Calc Table >	ED Area population	51,774	52,252	52,761	53,373	53,857	53,707	54,900	51,800	52,400	53,100	53,092	
Memory Calc Table >	Derived EDH Pop. From County base	67,729	69,101	71,555	72,779	76,199	75,349	79,100	87,300	91,600	96,200	99,808	



RESIDENTIAL UNIT DEMAND BASED ON		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
Table for graph	Derived EDH Pop. From County base	67,729	69,101	71,555	72,779	76,199	75,349	79,100	87,300	91,600	96,200	99,808
Table for graph	Estimated Resid. Units EDH @3.5ppgh	19,351	19,743	20,444	20,794	21,771	21,528	22,600	24,943	26,171	27,486	28,517
Table for graph	Pop.Base: Res Units: 5yr increment	392	701	350	977	(243)	1,072	2,343	1,229	1,314	1,031	

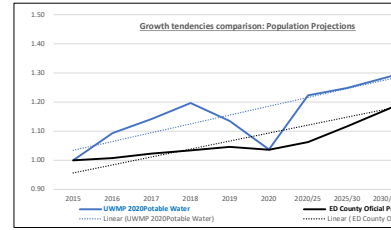


RESIDENTIAL UNIT DEMAND BASED ON		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
Table for graph	EDH Res. Units in Pipeline: cumulative	392	1,093	1,443	2,420	2,177	3,249	5,592	6,820	8,135	9,166	
Table for graph	EDH Res. Units in Pipeline: cumulative	392	1,093	1,443	2,420	2,177	3,249	5,592	6,820	8,135	9,166	



DEMAND SUMMARY BY DIFFERENT METHODOLOGIES (BASE DATA FROM DIFFERENT SOURCES)		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
UWMP 2020Potable Water		21,863	24,842	26,379	28,114	26,156	23,040	38,980	39,770	40,920	42,130	43,320
EDH Connections		20,463	20,931	21,673	22,190	23,358	23,103	24,281	26,736	28,002	29,313	30,720
Derived EDH Pop. From County base		67,729	69,101	71,555	72,779	76,199	75,349	79,100	87,300	91,600	96,200	99,808
EDC Housing Units -BAE Study 2023		54,929	54,929	54,929	54,929	55,605	57,352	57,352	59,155	61,015	62,935	

GROWTH TENDENCIES ( 2015 BASE=1.00)		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
ED County Official Projections		1.00	1.01	1.02	1.03	1.05	1.04	1.06	1.12	1.17	1.23	1.30
Population: Dept of Finance (CA)		1.00	1.00	1.00	1.04	1.04	1.06	1.03	1.02	1.01	0.99	0.96
ED Area population		1.00	1.02	1.04	1.06	1.08	1.08	1.12	1.16	1.20	1.25	1.30
Derived EDH Pop. From County base		1.00	1.02	1.06	1.07	1.13	1.11	1.17	1.29	1.35	1.42	1.47
GROWTH TENDENCIES ( 2015 BASE=1.00)		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
UWMP 2020Potable Water		1.00	1.09	1.14	1.20	1.13	1.04	1.22	1.25	1.28	1.32	1.36
EDH Connections		1.00	1.02	1.06	1.08	1.14	1.13	1.19	1.31	1.37	1.43	1.50
ED data for EDH population		1.00	1.02	1.06	1.07	1.13	1.11	1.17	1.29	1.35	1.42	1.47
EDC Housing Units -BAE Study 2023		1.00	1.00	1.00	1.00	1.01	1.01	1.04	1.04	1.08	1.11	1.15



GROWTH TENDENCIES ( 2015 BASE=1.00)		2015	2016	2017	2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
UWMP 2020Potable Water		1.00	1.09	1.14	1.20	1.13	1.04	1.22	1.25	1.28	1.32	1.36
EDH Connections		1.00	1.02	1.06	1.08	1.14	1.13	1.19	1.31	1.37	1.43	1.50
ED data for EDH population		1.00	1.02	1.06	1.07	1.13	1.11	1.17	1.29	1.35	1.42	1.47
EDC Housing Units -BAE Study 2023		1.00	1.00	1.00	1.00	1.01	1.01	1.04	1.04	1.08	1.11	1.15

