

1980 85,812 119,503 67,729  
 1990 125,995 119,503 67,729 125,995

**1.000%**

**\*BAE Projections based on Dept of Fin (nov 2023)**

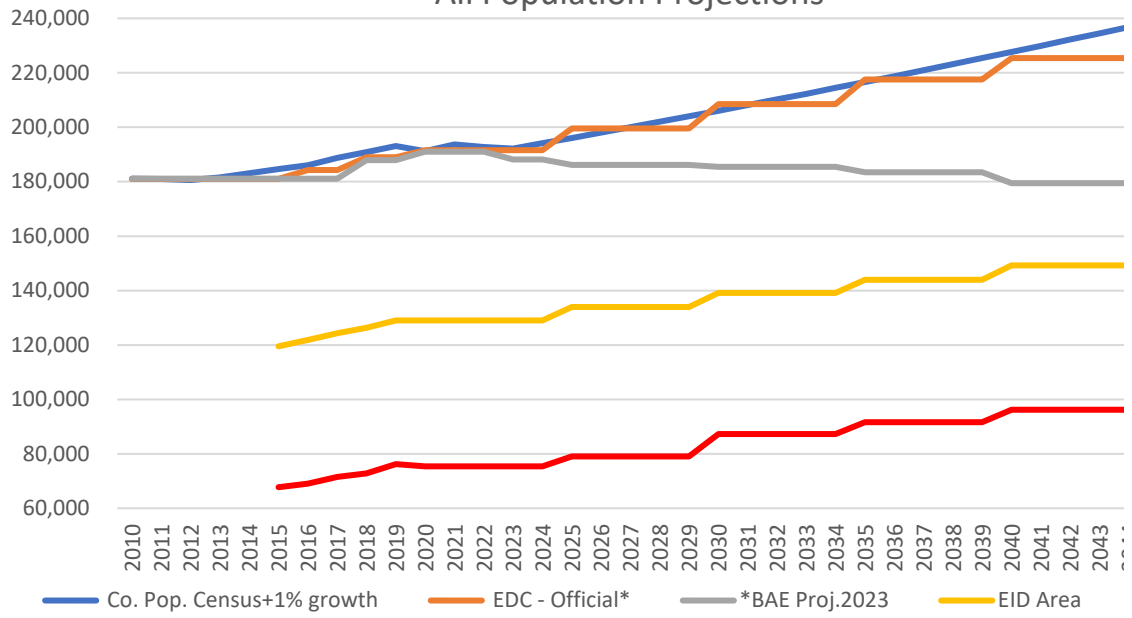
WUMP:Table 2-11 p2022 base -

	Co. Pop. Censu	EDC - Official*	*BAE Proj.2023	EID Area	EDH	High Growt
2010	181,161	181,014	181,058			181,014
2011	180,963	181,014	181,058			181,014
2012	180,613	181,014	181,058			181,014
2013	181,529	181,014	181,058			181,014
2014	183,157	181,014	181,058			181,014
2015	184,627	181,014	181,058	119,503	67,729	181,014
2016	186,027	184,335	181,058	121,853	69,101	184,335
2017	188,793	184,335	181,058	124,316	71,555	184,335
2018	190,925	188,993	187,940	126,316	72,779	188,993
2019	193,057	188,993	187,940	129,056	76,199	188,993
2020	191,245	191,581	191,032	129,056	75,349	191,581
2021	193,704	191,581	191,032	129,056	75,349	191,581
2022	192,787	191,581	191,032	129,056	75,349	191,581
2023	192,215	191,581	188,131	129,056	75,349	194,789
2024	194,137	191,581	188,131	129,056	75,349	196,834
2025	196,079	199,521	186,186	134,000	79,100	198,921
2026	198,039	199,521	186,186	134,000	79,100	201,052
2027	200,020	199,521	186,186	134,000	79,100	203,228
2028	202,020	199,521	186,186	134,000	79,100	205,450
2029	204,040	199,521	186,186	134,000	79,100	207,718
2030	206,080	208,457	185,434	139,100	87,300	210,035
2031	208,141	208,457	185,434	139,100	87,300	212,400
2032	210,223	208,457	185,434	139,100	87,300	214,816
2033	212,325	208,457	185,434	139,100	87,300	217,283
2034	214,448	208,457	185,434	139,100	87,300	219,802
2035	216,593	217,619	183,477	144,000	91,600	222,375
2036	218,759	217,619	183,477	144,000	91,600	225,003
2037	220,946	217,619	183,477	144,000	91,600	227,686
2038	223,156	217,619	183,477	144,000	91,600	230,427
2039	225,387	217,619	183,477	144,000	91,600	233,226
2040	227,641	225,419	179,456	149,300	96,200	236,086
2041	229,917	225,419	179,456	149,300	96,200	239,006
2042	232,217	225,419	179,456	149,300	96,200	241,989
2043	234,539	225,419	179,456	149,300	96,200	245,036
2044	236,884	225,419	179,456	149,300	96,200	248,149
2045	239,253	225,419	179,456	154,900	96,200	251,329
2046	241,646	225,419	179,456	154,900	96,200	254,577
2047	244,062	225,419	179,456	154,900	96,200	257,895
2048	246,503	225,419	179,456	154,900	96,200	261,285

260,000

All Population Projections

### All Population Projections



20% 17,162  
 21% 26,459  
 2.500%

1980 17,162 8,010  
 1990 26,459 11,761

+ % Growth

	2.50%	1.50%
Market Share >	25%	9.3%
	EDH	Cam.Pk

EDH /EDCOff. EDH-Census+ACD

42,108  
 43,563  
 43,760  
 44,206  
 43,862  
 37% 43,264  
 37% 43,495  
 39% 45,104  
 39% 45,599  
 40% 46,593  
 39% 47,107  
 39% 48,612  
 39% 49,082  
 39% 49,552  
 39% 50,791  
 40% 52,061  
 40% 53,362  
 40% 54,696  
 40% 56,064  
 40% 57,465  
 42% 58,902  
 42% 60,374  
 42% 61,884  
 42% 63,431  
 42% 65,017  
 42% 66,642  
 42% 68,308  
 42% 70,016  
 42% 71,766  
 42% 73,560  
 43% 75,399  
 43% 77,284  
 43% 79,216  
 43% 81,197  
 43% 83,227  
 43% 85,307  
 43% 87,440  
 43% 89,626  
 43% 91,867

2010 46,085 16,896  
 2011 46,085 16,896  
 2012 46,085 16,896  
 2013 46,085 16,896  
 2014 46,085 16,896  
 2015 46,085 16,896 300,000  
 2016 46,930 17,000 250,000  
 2017 46,930 17,000  
 2018 48,116 17,000 200,000  
 2019 48,116 17,000  
 2020 48,775 17,000 150,000  
 2021 48,775 17,000 100,000  
 2022 49,082 17,000  
 2023 50,309 18,000 50,000  
 2024 51,567 18,000  
 2025 52,856 18,000  
 2026 54,177 19,000  
 2027 55,532 19,386  
 2028 56,920 19,677  
 2029 58,343 19,972  
 2030 59,802 20,271  
 2031 61,297 20,575  
 2032 62,829 20,884  
 2033 64,400 21,197  
 2034 66,010 21,515  
 2035 67,660 21,838  
 2036 69,352 22,165  
 2037 71,085 22,498  
 2038 72,863 22,835  
 2039 74,684 23,178  
 2040 76,551 23,526  
 2041 78,465 23,878  
 2042 80,427 24,237  
 2043 82,437 24,600  
 2044 84,498 24,969  
 2045 86,611 25,344  
 2046 88,776 25,724  
 2047 90,995 26,110  
 2048 93,270 26,501



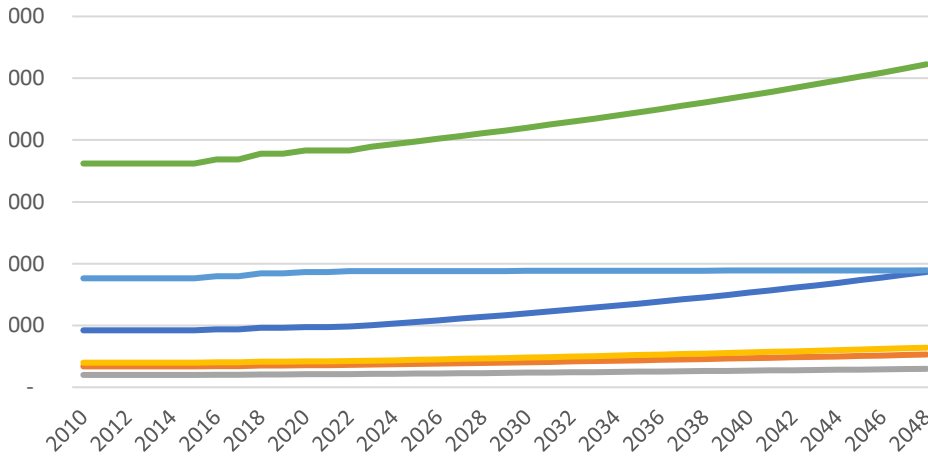
4,740      9,425      46,474      85,812  
 6,960      13,839      66,976      125,995

1.30%	1.60%	0.03%	
5.5%	11.0%	base 2022	
Pl'vill	Lk.Tahoe	Uninc.	Total

10,000	19,882	88,152	181,014
10,000	19,882	88,152	181,014
10,000	19,882	88,152	181,014

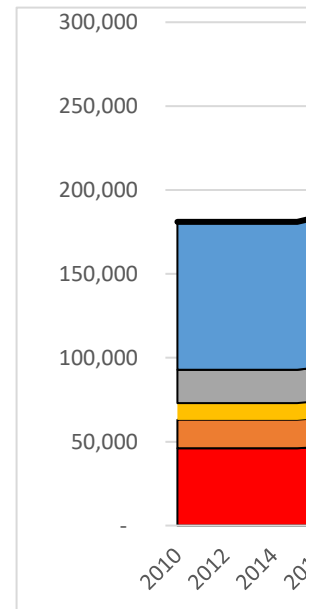
Yr 2022		
Lake Tahoe	21,175	11%
EDH	49,082	25%
Unicorp	192,787	100%
	2,787	100%

Chart Title

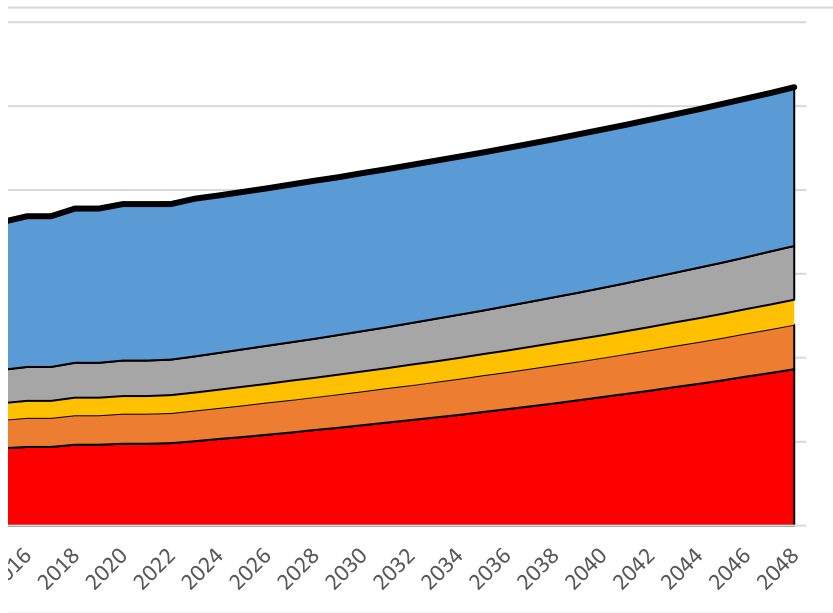


0,650      6%  
 7,995      9%

11,360	22,924	94,026	203,228
11,508	23,291	94,054	205,450
11,658	23,664	94,082	207,718
11,809	24,042	94,111	210,035
11,963	24,427	94,139	212,400
12,118	24,818	94,167	214,816
12,276	25,215	94,195	217,283
12,435	25,618	94,224	219,802
12,597	26,028	94,252	222,375
12,761	26,444	94,280	225,003
12,927	26,868	94,308	227,686
13,095	27,297	94,337	230,427
13,265	27,734	94,365	233,226
13,438	28,178	94,393	236,086
13,612	28,629	94,422	239,006
13,789	29,087	94,450	241,989
13,968	29,552	94,478	245,036
14,150	30,025	94,507	248,149
14,334	30,506	94,535	251,329
14,520	30,994	94,563	254,577
14,709	31,490	94,592	257,895
14,900	31,993	94,620	261,285







# DEMAND TABLES

		<u>2020/25</u>	<u>2025/30</u>
Population (oficial)	181,014	191,581	199,521
>yr 2013		38,380	39,010
TOTAL WATER DEMAND	38,984	39,500	42,937
<b>UWMP 2020- Total Expected connections EID -Area</b>		<b>42,935</b>	<b>46,948</b>

## EDI 2021 Table 5-2+3 & Impact analysis table 3.12.13; 2024

Urban Water Master Plan 2020	35,910	38,908	39,770
	(3,074)	4,754	5,961

	<b>Urban Water Master Plan 2020</b>	2015	2016	2017
Ac.Ft.	EDH Consumer use Potable Water	9,570	10,197	11,099
	Weast + East service areas	9,544	10,675	10,743
<span style="background-color: yellow;">19%</span>	<b>Total Retail Consumer use Potable Water</b>	<b>19,114</b>	<b>20,872</b>	<b>21,842</b>
	City Pvill+ditc+other+recycle	1,830	2,047	2,060
<span style="background-color: yellow;">57%</span>	<b>Other+Ag.potb.+Loss</b>	<b>10,919</b>	<b>11,923</b>	<b>12,477</b>
Ac.Ft.	<b>Total DISTRICT use Potable Water</b>	<b>31,863</b>	<b>34,842</b>	<b>36,379</b>
	<b>Municipal potable water</b>	22,241	25,063	26,005
	<b>Other+Ag.potb.+Loss</b>			
	Total Potable Demand			
	Recycled			
	<b>Total Water Demand</b>			

Ac.Ft. **UWMP-Forecast Water Use, Table 4-11 (Ac.Ft.**

Ac.Ft. Total Municipal (potable?)

Ac.Ft. **Total EID New Customers**

Ac.Ft. **EDH New Customers**

*325851 gal / AF-Gallons / HH*

	Water Supply Asst Table 3-2(2013)	<b>(UWMP - FINAL) ESTIMATED V</b>		
	<u>Table 3-1, pg 3-8</u>	<u>2013</u>	<u>2020/25</u>	<u>2025/30</u>
Output Table>	Existing Proj. Current Uses	38,984	34,154	33,809
Output Table>	Other currently proposed projects	0	163	696
Output Table>	Adjusted land uses	0	514	2,853
Output Table>	Non revenue water @13%	0	4,528	4,857
Output Table>	<b>TOTAL Ac.Ft. DEMAND (2013)</b>	<b>38,984</b>	<b>39,359</b>	<b>42,215</b>
	Dif: UWMP 2020 (-) Demand 2013	(3,074)	4,754	5,961
Output Table>	<b>EID: ESTIMATED DEMAND 2020</b>	<b>35,910</b>	<b>44,113</b>	<b>48,176</b>
EDH Allocation fact	<b>28.7%</b>	<b>EDH: ESTIMATED DEMAND 2020</b>	<b>10,313</b>	<b>12,669</b>
		<b>13,836</b>		

		<u>2013</u>	<u>2020/25</u>	<u>2025/30</u>
Table for graph	Existing Proj. Current Uses	38,984	34,154	33,809
Table for graph	<b>Additional AcFt 2013&gt;2020</b>	<b>(3,074)</b>	<b>4,754</b>	<b>5,961</b>



Table for graph	Other currently proposed projects	-	163	696
Table for graph	Adjusted land uses (*)	-	514	2,853
Table for graph	Non revenue water @13%	-	4,528	4,857
Table for graph	<b>EID: ESTIMATED DEMAND 2020</b>	<b>35,910</b>	<b>44,113</b>	<b>48,176</b>

Memory calc. table	MEMORY CALC	<u>Current</u>	<u>2020/25</u>	<u>2025/30</u>
Memory calc. table	Normal	70,800	70,800	70,800
Memory calc. table	Single yr drought	63,400	63,400	63,400
Memory calc. table	Five year drought	63,400	63,400	59,400
Memory calc. table		0.90	0.90	0.90
Memory calc. table		0.90	0.90	0.84

	Less EDC / SMUD Agt			
<b>EIDF - UWMP 2015</b>	<b>Total Supply Normal Year*</b>	<b>70,800</b>	<b>77,490</b>	<b>107,690</b>

**\* Public Services & Infrastructure - EID MSR & SOI Update FinalPage 7-16**

Table for graph		<u>Current</u>	<u>2020/25</u>	<u>2025/30</u>
Table for graph	<b>Total Supply Normal Yr (UWMP2015)</b>	<b>70,800</b>	<b>77,490</b>	<b>107,690</b>
Table for graph	Supply :Single yr drought	63,400	69,391	96,434
Table for graph	Suppl : Five year drought	63,400	69,391	90,350
Table for graph	<b>EID: ESTIMATED DEMAND 2020</b>	<b>35,910</b>	<b>44,113</b>	<b>48,176</b>

<b>MARBLE VALLEY AND LIME ROCK VALLEY DEVELOPER NUMBERS</b>		<u>2013</u>	<u>2020/25</u>	<u>2025/30</u>	
	Mar.Val.Existing (2013)	38,984	39,500	42,937	
	Mar.Valy.Project		141	721	
	<b>Total Mvly</b>	<b>38,984</b>	<b>39,359</b>	<b>42,216</b>	
	Marble Valley : Presented Plan Meet 1				
	In AcFt	<u>Current</u>	<u>2020/25</u>	<u>2025/30</u>	
	Mar.Val.:Existing + Planned Future Proj	38,984	39,539	42,216	
	Mar.Valy.Project SP		141	721	
	<b>Total Mvly</b>	<b>38,984</b>	<b>39,680</b>	<b>42,937</b>	
	Diference	-	57	(612)	
Lime Rock Valley : Presented Plan Mee					
	<u>Current</u>	<u>2020/25</u>	<u>2025/30</u>		
Lime Rock: Existing + Planned Future Prc	38,984	39,482	42,828		
Lime Rock Valy.Project		18	109		
<b>Total Lime Rock Valley SP</b>	<b>38,984</b>	<b>39,680</b>	<b>42,937</b>		

		<u>Current</u>	<u>2020/25</u>	<u>2025/30</u>
3236	Mar.Valy.Project SP	141	721	1,285
	<b>Total Mvly</b>	<b>141</b>	<b>580</b>	<b>564</b>

Table for graph	<b>Table 3 - Marble Valley (residential uni</b>	<u>Current</u>	<u>2020/25</u>	<u>2025/30</u>
Table for graph	MV. Table 2-3 Estim. Project Water Demand, WSA		222	669

Table for graph	MV:Units Absorbed at EID projection rate 2013	210	862
Table for graph	MV:Units Absorbed at Exhibit H rate 2024		549
Table for graph	<b>MV:Units Absorbed in pipeline assumption</b>		<b>809</b>

<b>EDH CONNECTIONS Table 2-1a</b>	<u>2015</u>	<u>2016</u>	<u>2017</u>
<b>EDH Connections</b>	<b>20,463</b>	<b>20,931</b>	<b>21,673</b>
<b>EDH Connections / 5 yr period</b>		<b>468</b>	<b>742</b>
<b>EDH new resid Connections</b>	<b>(86% sfd + 14%MF)</b>		
<b>Expected New Resid Connections; Tb2-7</b>	<b>Eastern Region</b>		

	Total / Yr	549	995	1,166
AcFt/DU	<b>Marble Valley : Table 2-3 page 2-13 Exh</b>	<b>2,020</b>	<b>2,025</b>	<b>2,030</b>
1.04	1 ac custom	25	45	145
0.8	1/2 ac custom	25	50	50
0.53	8000/10000 sf Lot	215	593	593
0.48	5000/7000 sf lot	-	-	663
0.38	Condo / ToHom	75	597	772
0.16	Mult Family	209	259	487
	<b>Total Cum</b>	<b>549</b>	<b>1,544</b>	<b>2,710</b>
	Comer+Public+Other (ROW)			
		<b>549</b>	<b>1,544</b>	<b>2,710</b>

**Total Proposed project demand**

<b>LONG TERM DEMAND bases on Acre Feet and connections</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>
Memory Calc Table > EDH Connections	20,463	20,931	21,673
Memory Calc Table > Total Retail Consumer use Potable Wate	19,114	20,872	21,842
Memory Calc Table > Total DISTRICT use Potable Water	31,863	34,842	36,379

		<u>2015</u>	<u>2016</u>	<u>2017</u>
Table for graph	Total Retail Consumer use Potable Water	19,114	20,872	21,842
Table for graph	Total DISTRICT use Potable Water	12,749	13,970	14,537
Table for graph	Total DISTRICT use Potable Water	31,863	34,842	36,379

	<b>POPULATION</b>	2015	2016	2017
Table for graph	ED County Official Projections	<b>184,627</b>	<b>186,027</b>	<b>188,793</b>
Table for graph	Population: Dept of Finance (CA)	<b>181,058</b>	<b>181,058</b>	<b>181,058</b>
Table for graph	EID Area population	119,503	121,853	124,316
Table for graph	<b>EID data for EDH population</b>	<b>67,729</b>	<b>69,101</b>	<b>71,555</b>

Memory Calc Table >	<b>POPULATION</b>	2015	2016	2017
---------------------	-------------------	------	------	------

Memory Calc Table >	ED County Official Projections	184,627	186,027	188,793
Memory Calc Table >	ED County Official Projections	3,569	4,969	7,735
Memory Calc Table >	Population: Dept of Finance (CA)	61,555	59,205	56,742
Memory Calc Table >	EID Area population	51,774	52,752	52,761
Memory Calc Table >	<b>Derived EDH Pop. From County base</b>	67,729	69,101	71,555

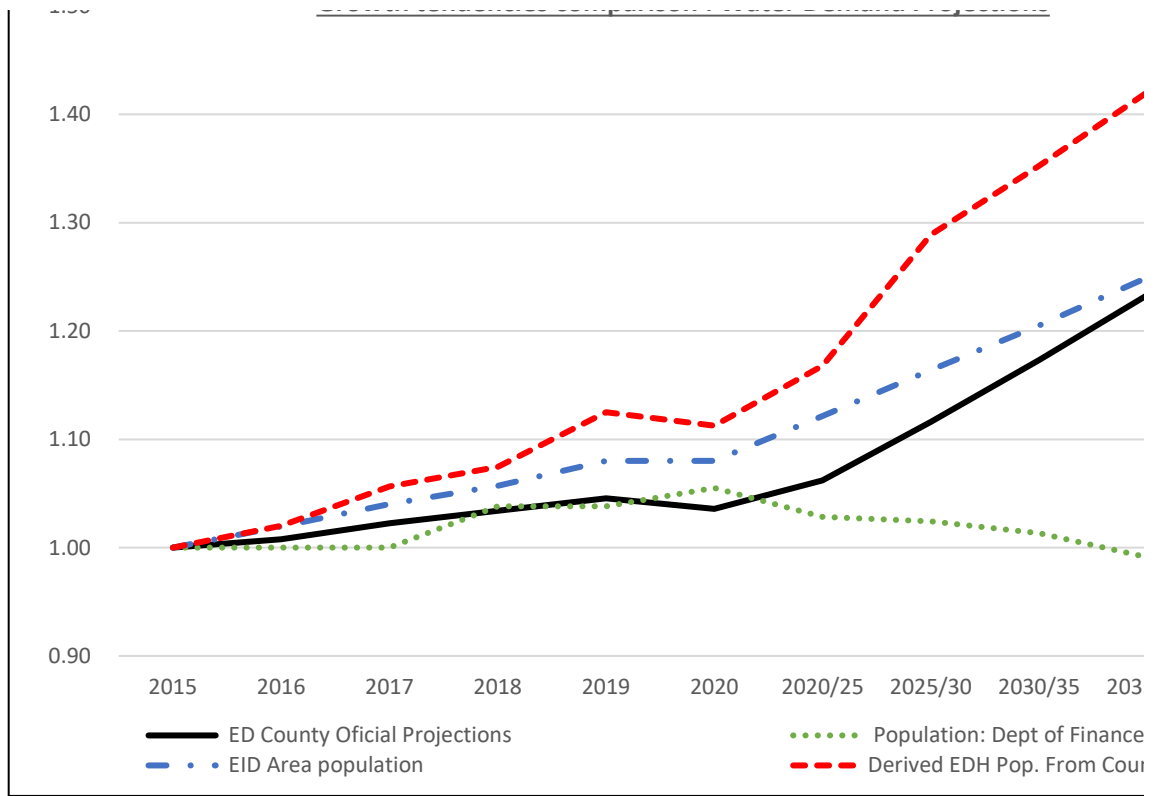
Table for graph	<b>RESIDENTIAL UNIT DEMAND BASED ON</b>	<u>2015</u>	<u>2016</u>	<u>2017</u>
<b>Occ/Un</b>	<b>Derived EDH Pop. From County base</b>	<b>67,729</b>	<b>69,101</b>	<b>71,555</b>
<b>3.5</b>	<b>Estimated Resid. Units EDH @3.5pphh</b>	<b>19,351</b>	<b>19,743</b>	<b>20,444</b>
Table for graph	Pop Based: Res Units: 5 yr increment		392	701

Table for graph	<b>RESIDENTIAL UNIT DEMAND BASED ON</b>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Table for graph	EDH Res.Units. from County base : cumulative		392	1,093
Table for graph	EDH Res. Units in Pipeline: cumulative			
	<b>TOTAL EDH Res.Units in Pipeline: cumulative</b>		<b>392</b>	<b>1,093</b>

<b>DEMAND SUMMARY BY DIFFERENT M</b>			
	<u>2015</u>	<u>2016</u>	<u>2017</u>
UWMP 2020Potable Water	31,863	34,842	36,379
EDH Connections	20,463	20,931	21,673
<b>Derived EDH Pop. From County base</b>	67,729	69,101	71,555
EDC Housing Units -BAE Study 2023	54,929	54,929	54,929

<b>GROWTH TENDENCIES ( 2015 BASE=1.00)</b>			
	<u>2015</u>	<u>2016</u>	<u>2017</u>
<b>ED County Official Projections</b>	<b>1.00</b>	<b>1.01</b>	<b>1.02</b>
Population: Dept of Finance (CA)	1.00	1.00	1.00
EID Area population	1.00	1.02	1.04
<b>Derived EDH Pop. From County base</b>	1.00	1.02	1.06
<b>GROWTH TENDENCIES ( 2015 BASE=1.00)</b>			
	<u>2015</u>	<u>2016</u>	<u>2017</u>
<b>UWMP 2020Potable Water</b>	<b>1.00</b>	<b>1.09</b>	<b>1.14</b>
<b>EDH Connections</b>	1.00	1.02	1.06
EID data for EDH population	1.00	1.02	1.06
<b>EDC Housing Units -BAE Study 2023</b>	1.00	1.00	1.00

	<u>2015</u>	<u>2016</u>	<u>2017</u>
UWMP 2020Potable Water	1.00	1.09	1.14
ED County Official Projections	1.00	1.01	1.02



<u>2030/35</u>	<u>2035/40</u>	<u>2040/45</u>	
208,457	217,619	225,419	< Miscellaneous projections found
39,640	40,270	40,930	< Miscellaneous projections found
49,560	57,870	67,295	< Miscellaneous projections found
<b>49,111</b>	<b>50,944</b>	<b>53,073</b>	< Miscellaneous projections found

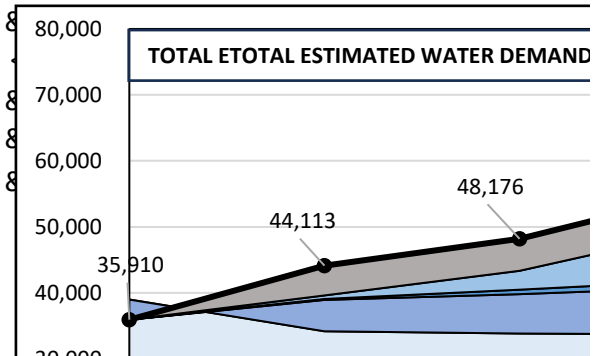
40,920	42,130	43,320	<T&Y: EDC- Impact analysis in EDHSP
7,226	8,551	9,856	

2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
11,385	11,078	12,220					
11,472	10,635	7,850					
<b>22,857</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>
2,200	2,039	1,505	4,240	4,240	4,240	4,240	4,240
13,057	12,403	11,465	12,630	12,520	12,770	13,010	13,260
<b>38,114</b>	<b>36,156</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>
27,669	26,283	Table 4-2+3	22,110	23,010	23,910	24,880	25,820
			12,630	12,520	12,770	13,010	13,260
			34,740	35,530	36,680	37,890	39,080
			4,240	4,240	4,240	4,240	4,240
			<b>38,980</b>	<b>39,770</b>	<b>40,920</b>	<b>42,130</b>	<b>43,320</b>
			21,220	23,010	23,910	24,880	25,820
			<b>890</b>	<b>1,790</b>	<b>2,690</b>	<b>3,660</b>	<b>4,600</b>
			<b>580</b>	<b>1,210</b>	<b>1,830</b>	<b>2,480</b>	<b>3,170</b>

<b>WATER DEMAND</b>		
<u>2030/35</u>	<u>2035/40</u>	<u>2040/45</u>
33,694	33,579	33,464
1,052	1,272	1,332
7,975	14,718	22,830
5,554	6,444	7,491
<b>48,275</b>	<b>56,013</b>	<b>65,117</b>
7,226	8,551	9,856
<b>55,501</b>	<b>64,564</b>	<b>74,973</b>
<b>15,940</b>	<b>18,543</b>	<b>21,532</b>
<u>2030/35</u>	<u>2035/40</u>	<u>2040/45</u>
33,694	33,579	33,464
<b>7,226</b>	<b>8,551</b>	<b>9,856</b>

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

- >To Supply & Demand
- >To Supply & Demand
- >To Supply & Demand
- >To Supply (NOT those undergoing CEQA)
- >To Supply &
- >To Supply &
- >To Supply &
- >To Supply &
- >To Supply &



1,052	1,272	1,332
7,975	14,718	22,830
5,554	6,444	7,491
<b>55,501</b>	<b>64,564</b>	<b>74,973</b>

2030/35	2035/40	2040/45
70,300	78,300	78,300
67,100	67,100	67,100
55,300	55,300	55,300
<i>0.95</i>	<i>0.86</i>	<i>0.86</i>
<i>0.79</i>	<i>0.71</i>	<i>0.71</i>

<b>107,690</b>	<b>108,190</b>	<b>108,190</b>
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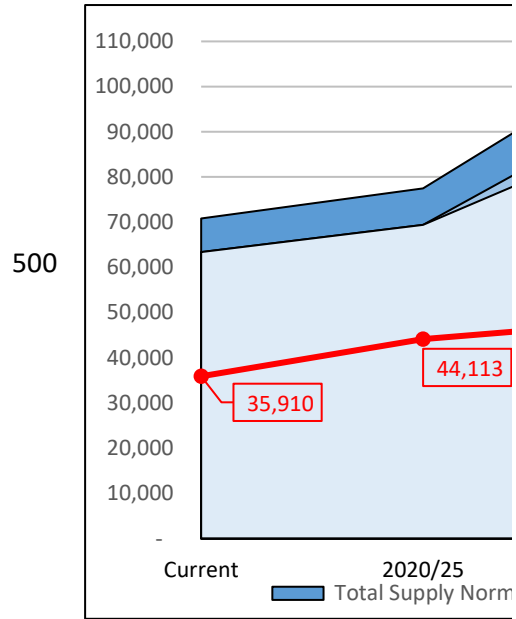
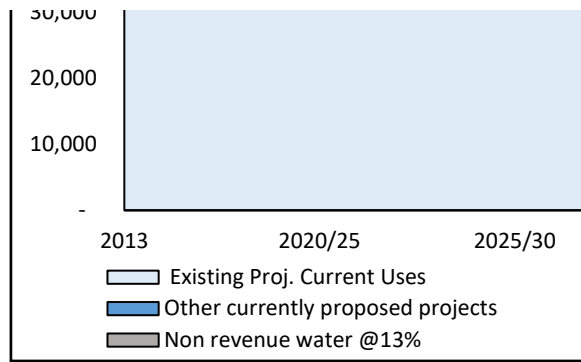
2030/35	2035/40	2040/45
<b>107,690</b>	<b>108,190</b>	<b>108,190</b>
102,788	92,715	92,715
84,712	76,410	76,410
<b>55,501</b>	<b>64,564</b>	<b>74,973</b>

2030/35	2035/40	2040/45
49,560	57,874	67,295
1,285	1,860	2,177
<b>48,275</b>	<b>56,014</b>	<b>65,118</b>

11th June		
2030/35	2035/40	2040/45
48,275	56,104	65,117
1,285	1,860	2,177
<b>49,560</b>	<b>57,964</b>	<b>67,294</b>
(1,013)	(1,298)	(1,605)

at 11th June		
2030/35	2035/40	2040/45
49,288	57,402	66,722
272	472	573
<b>49,560</b>	<b>57,964</b>	<b>67,294</b>

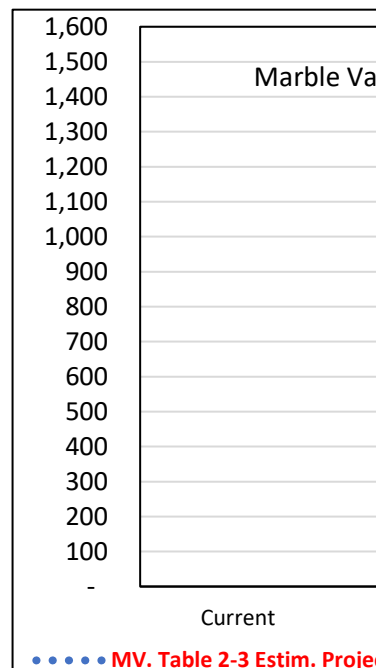
2030/35	2035/40	2040/45	
1,860	2,177		
<b>575</b>	<b>317</b>	<b>2,177</b>	
<b>2030/35</b>	<b>2035/40</b>	<b>2040/45</b>	<b>TOTAL</b>
1,192	1,510		3,593



< Table 3-2 WSA 2013

< 2013 data

(4,471)



838	855	471	3,236
995	1,166	526	3,236
<b>1,133</b>	<b>1,294</b>		<b>3,236</b>

----- MV:Units Absorbed at Exhib

<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2020/25</u>	<u>2025/30</u>	<u>2030/35</u>	<u>2035/40</u>	<u>2040/45</u>
<b>22,190</b>	<b>23,358</b>	<b>23,103</b>	<b>24,281</b>	<b>26,736</b>	<b>28,002</b>	<b>29,313</b>	<b>30,720</b>
<b>517</b>	<b>1,168</b>	<b>(255)</b>	<b>1,178</b>	<b>2,455</b>	<b>1,266</b>	<b>1,311</b>	<b>1,407</b>
			<b>1,285</b>	<b>2,683</b>	<b>4,068</b>	<b>5,506</b>	<b>7,054</b>
			<b>753</b>	<b>1,616</b>	<b>1,500</b>	<b>2,505</b>	<b>3,110</b>

526	AF/DU				AcFt		
<b>2,035</b>	Current	<b>2,025</b>	<b>2,030</b>	<b>2,035</b>	Current	<b>2,020</b>	<b>2,025</b>
193	1.16	1.04	1.04	1.04		29	47
125	0.87	0.80	0.80	0.80		22	40
982	0.55	0.53	0.53	0.53		118	314
663	0.50	0.48	0.48	0.48		-	-
772	0.40	0.38	0.38	0.38		30	227
501	0.16	0.16	0.16	0.16		33	41
<b>3,236</b>	<b>1.31</b>	<b>0.83</b>	<b>0.69</b>	<b>0.67</b>		<b>232</b>	<b>669</b>
					141	489	616
<b>3,236</b>	1.31	0.83	0.69	0.67	<b>141</b>	<b>721</b>	<b>1,285</b>

<b>141</b>	<b>721</b>	<b>1,285</b>	<b>1,860</b>	<b>2,177</b>
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<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2020/25</u>	<u>2025/30</u>	<u>2030/35</u>	<u>2035/40</u>	<u>2040/45</u>
22,190	23,358	23,103	24,281	26,736	28,002	29,313	30,720
22,857	21,713	20,070	22,110	23,010	23,910	24,880	25,820
38,114	36,156	33,040	38,980	39,770	40,920	42,130	43,320

<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2020/25</u>	<u>2025/30</u>	<u>2030/35</u>	<u>2035/40</u>	<u>2040/45</u>
22,857	21,713	20,070	22,110	23,010	23,910	24,880	25,820
15,257	14,443	12,970	16,870	16,760	17,010	17,250	17,500
38,114	36,156	33,040	38,980	39,770	40,920	42,130	43,320

2018	2019	2020	2020/25	2025/30	2035/40	2040/45	2045/48
<b>190,925</b>	<b>193,057</b>	<b>191,245</b>	<b>196,079</b>	<b>206,080</b>	<b>216,593</b>	<b>227,641</b>	<b>239,253</b>
<b>187,940</b>	<b>187,940</b>	<b>191,032</b>	<b>186,186</b>	<b>185,434</b>	<b>183,477</b>	<b>179,456</b>	<b>174,271</b>
126,316	129,056	129,056	134,000	139,100	144,000	149,300	154,900
<b>72,779</b>	<b>76,199</b>	<b>75,349</b>	<b>79,100</b>	<b>87,300</b>	<b>91,600</b>	<b>96,200</b>	<b>99,808</b>

2018	2019	2020	2020/25	2025/30	2035/40	2040/45	2045/48
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190,925	193,057	191,245	196,079	206,080	216,593	227,641	239,253
2,985	5,117	213	9,893	20,646	33,116	48,185	64,982
61,624	58,884	61,976	52,186	46,334	39,477	30,156	19,371
<b>53,537</b>	<b>52,857</b>	<b>53,707</b>	<b>54,900</b>	<b>51,800</b>	<b>52,400</b>	<b>53,100</b>	<b>55,092</b>
72,779	76,199	75,349	79,100	87,300	91,600	96,200	99,808

2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
72,779	76,199	75,349	79,100	87,300	91,600	96,200	99,808
20,794	21,771	21,528	22,600	24,943	26,171	27,486	28,517
350	977	(243)	1,072	2,343	1,229	1,314	1,031

2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
1,443	2,420	2,177	3,249	5,592	6,820	8,135	9,166
			1,756	3,818	5,345	6,108	6,108
1,443	2,420	2,177	5,005	9,409	12,165	14,243	15,274

**METHODOLOGIES (BASE DATA FROM DIFFERENT SOURCES)**

2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
38,114	36,156	33,040	38,980	39,770	40,920	42,130	43,320
22,190	23,358	23,103	24,281	26,736	28,002	29,313	30,720
72,779	76,199	75,349	79,100	87,300	91,600	96,200	99,808
54,929	55,605	55,605	57,352	57,352	59,155	61,015	62,935

2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
1.03	1.05	1.04	1.06	1.12	1.17	1.23	1.30
1.04	1.04	1.06	1.03	1.02	1.01	0.99	0.96
1.06	1.08	1.08	1.12	1.16	1.20	1.25	1.30
1.07	1.13	1.11	1.17	1.29	1.35	1.42	1.47

2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
1.20	1.13	1.04	1.22	1.25	1.28	1.32	1.36
1.08	1.14	1.13	1.19	1.31	1.37	1.43	1.50
1.07	1.13	1.11	1.17	1.29	1.35	1.42	1.47
1.00	1.01	1.01	1.04	1.04	1.08	1.11	1.15

2018	2019	2020	2020/25	2025/30	2030/35	2035/40	2040/45
1.20	1.13	1.04	1.22	1.25	1.28	1.32	1.36
1.03	1.05	1.04	1.06	1.12	1.17	1.23	1.30



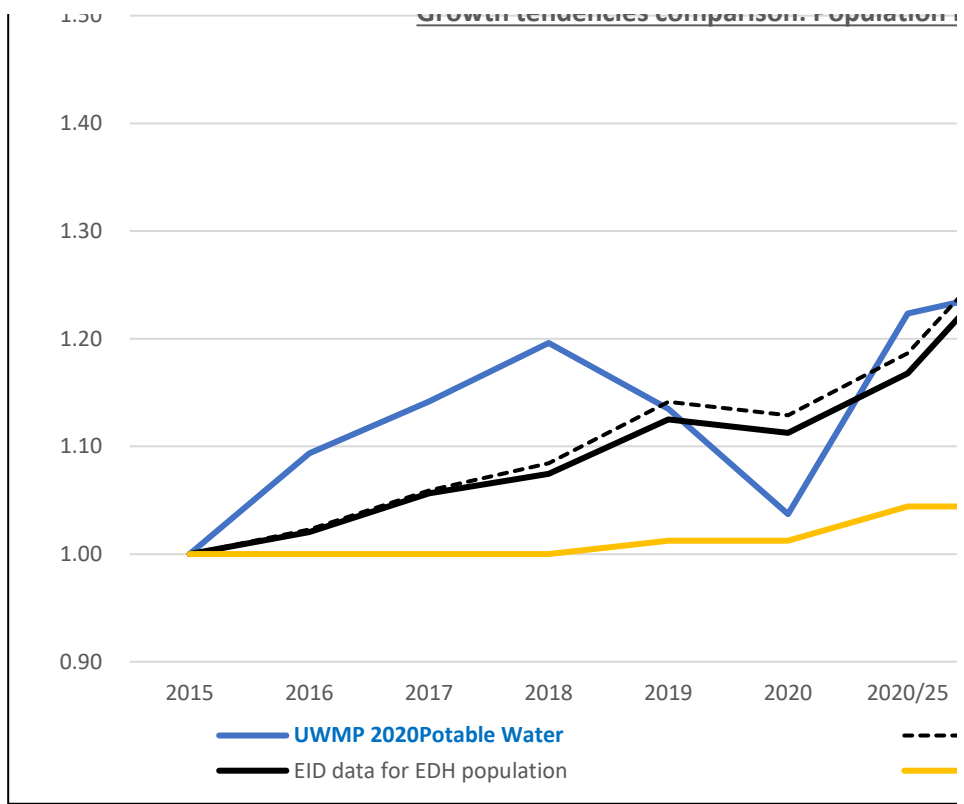
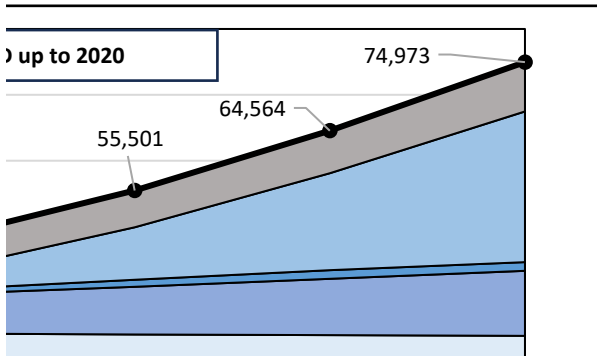
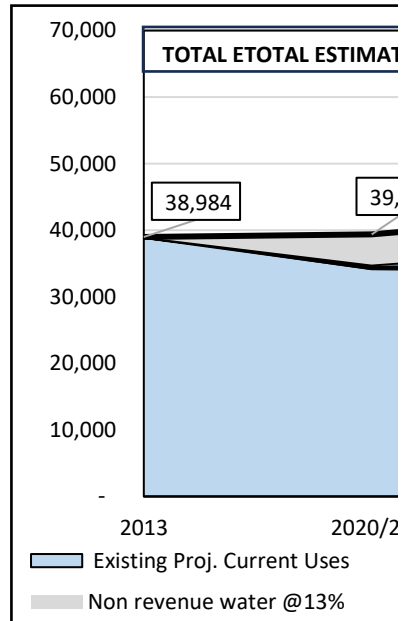


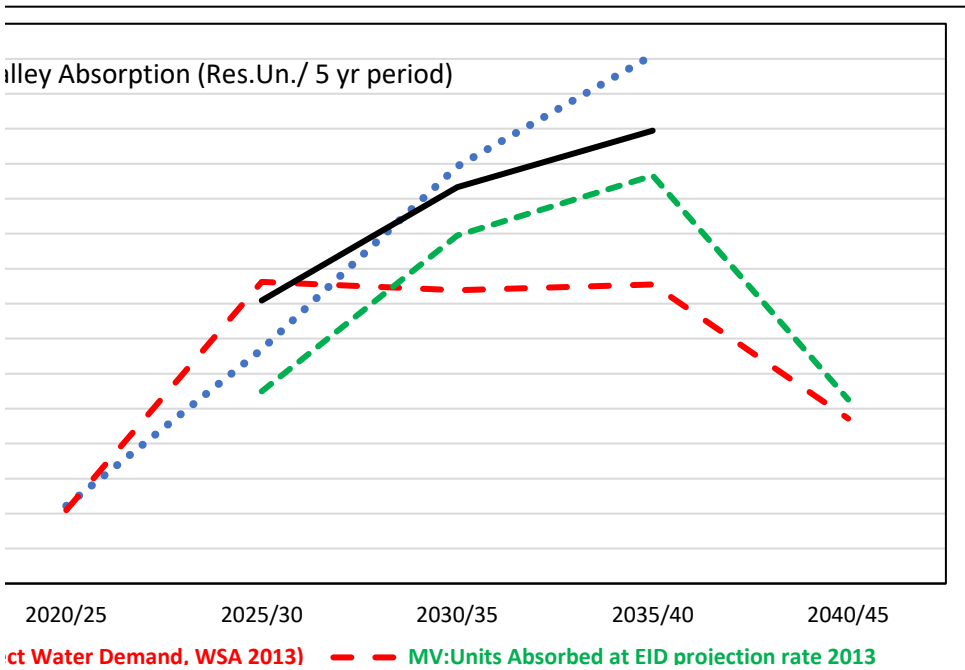
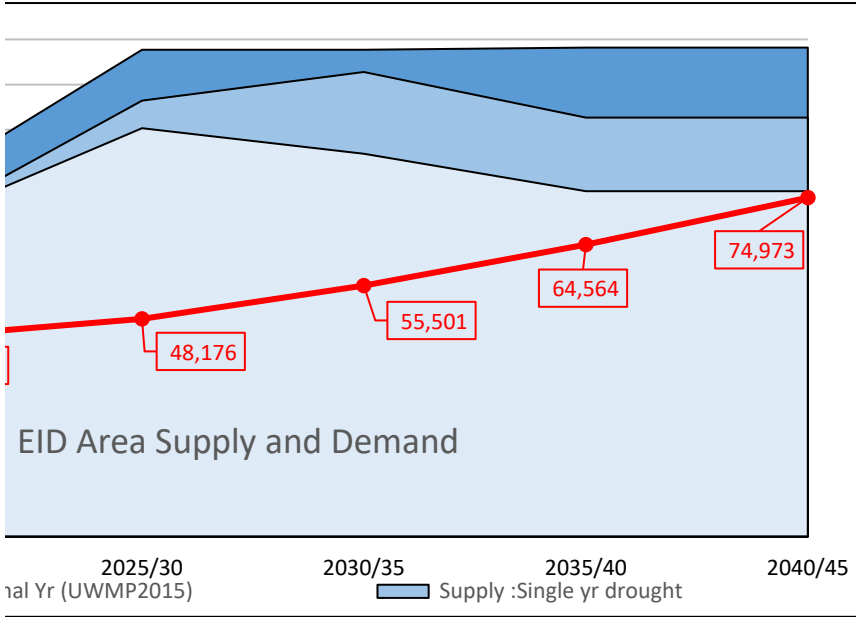
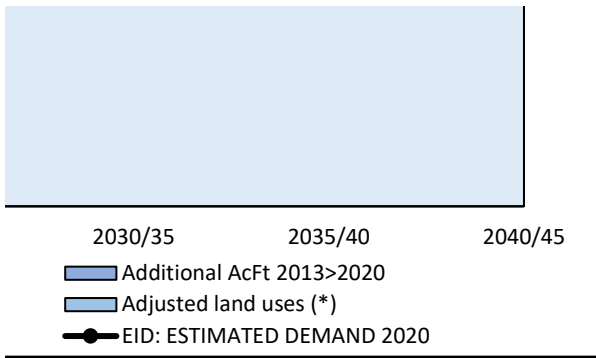
Table 2-1 page 2-3 & T2-4 pg 2-13

-	Table 4-1+3 & EID 2020 page 4-4
-	UWMP 2020 -pag 4-5& Table-11 Pg 4-18
-	Table 4-11 forecast future use <b>EID Table 4-11 -2021</b>
-	Table 4-11 forecast future use Table 4-11 forecast future use Table 4-11 forecast future use

(7,644)



PPROVAL)



Unit H rate 2024

— MV:Units Absorbed in pipeline assumption

Table 2-10 pg3-16

7,617 **Table 2-4**  
**Table 2-3**

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

**Tble 2-7Pg 2-15**

2,030	2,035
151	201
40	100
314	520
318	318
293	293
78	80
<b>1,195</b>	<b>1,513</b>
665	664
<b>1,860</b>	<b>2,177</b>

AcFt/DU

AcFt/EDU

1.04

289

0.80

144

0.53

749

0.48

458

0.38

422

0.16

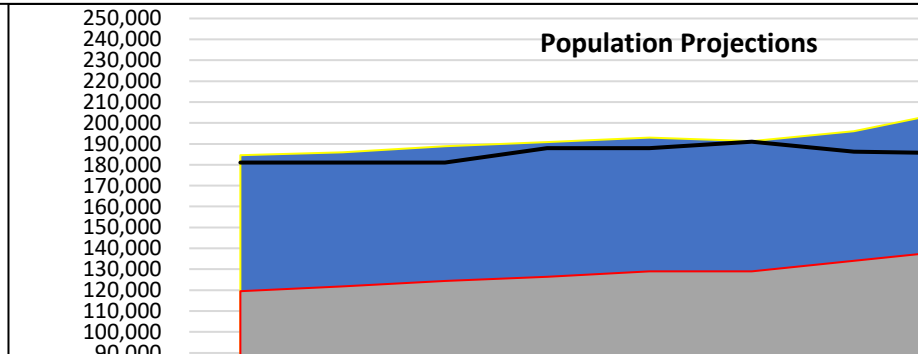
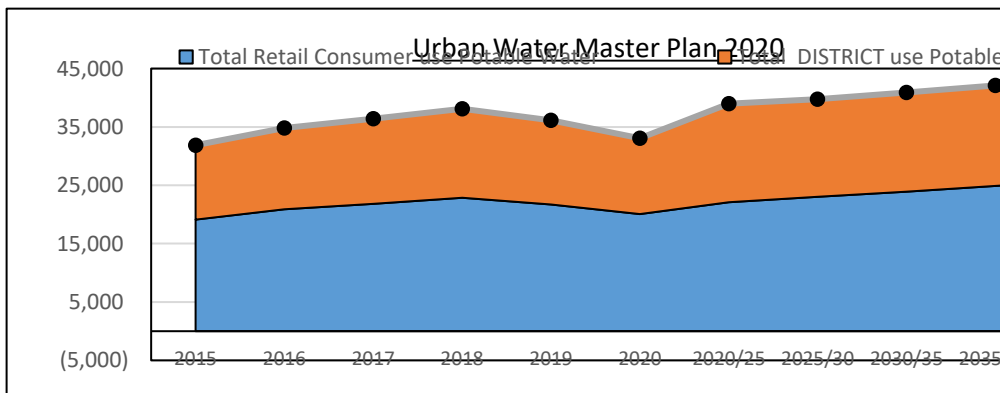
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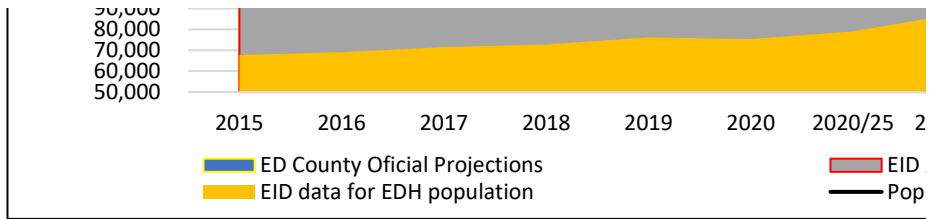
0.47

2,177

Incr

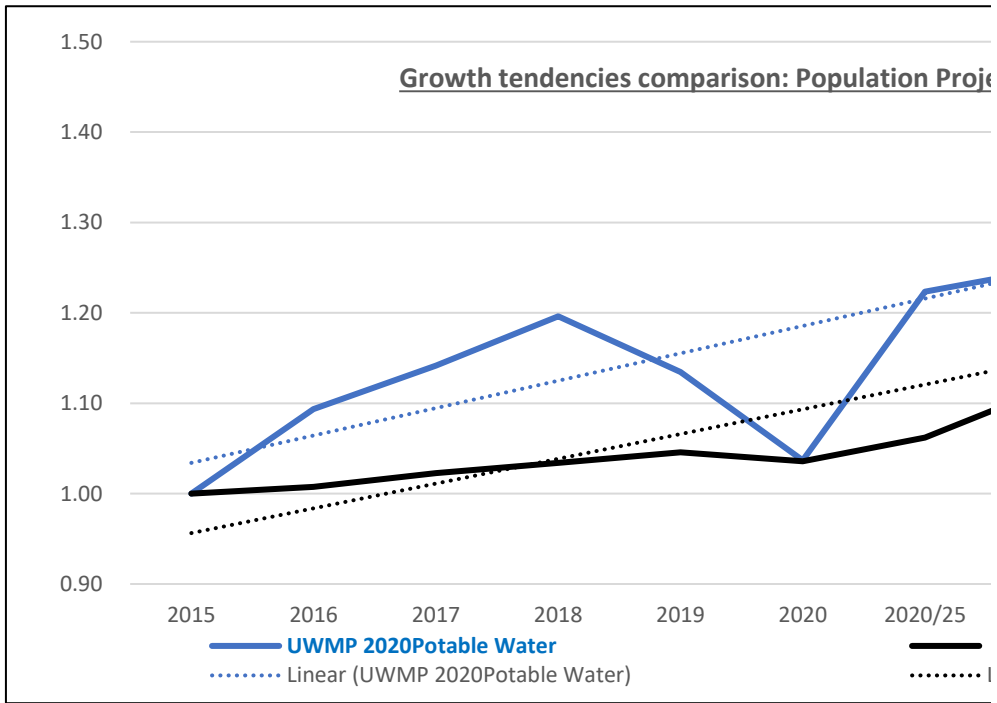
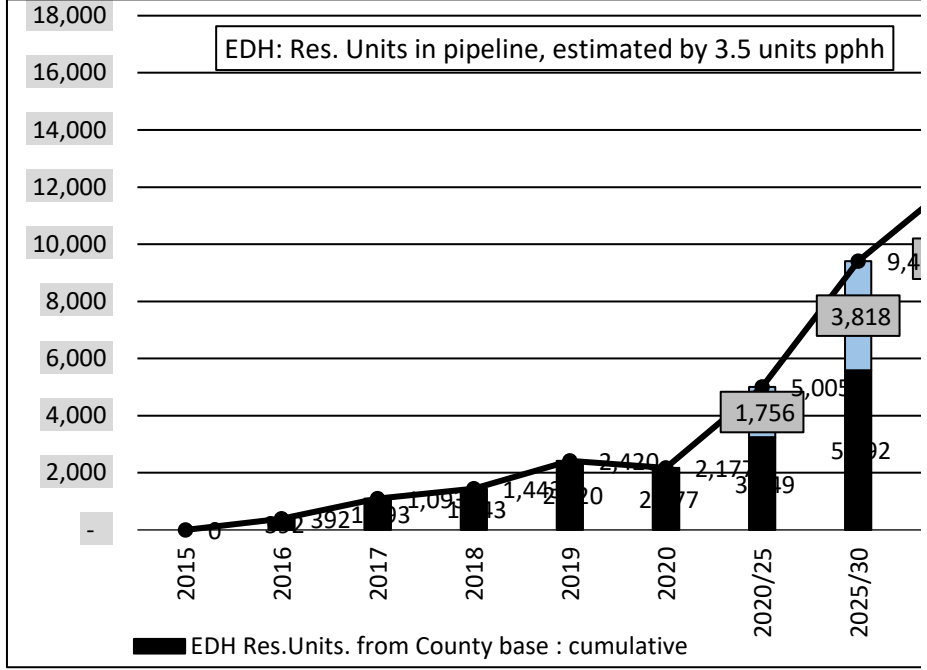
Marble Valley : Presented Plan Meet 11th June





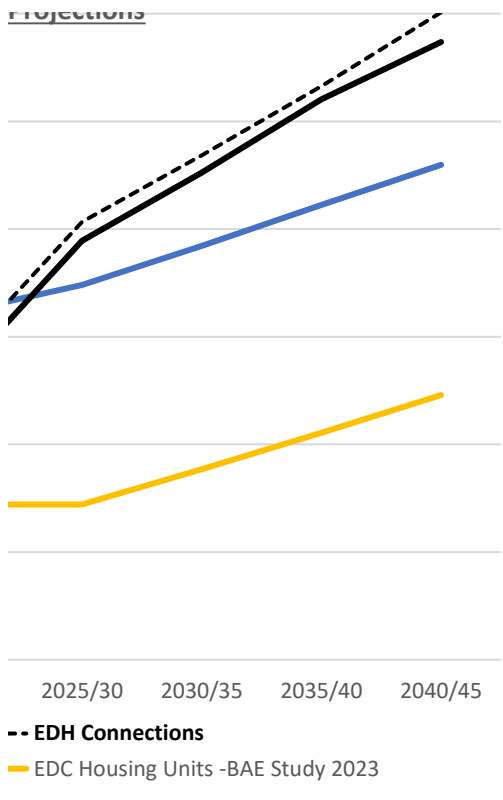
>>>>>  
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64,917

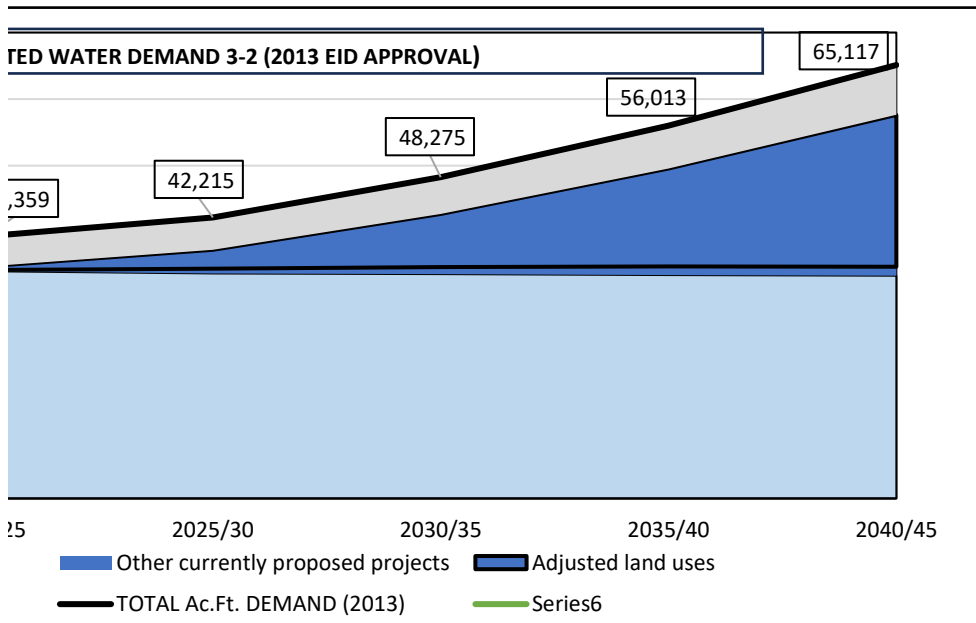
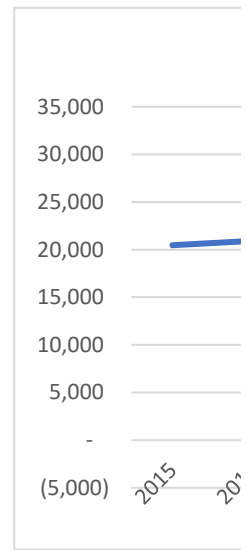


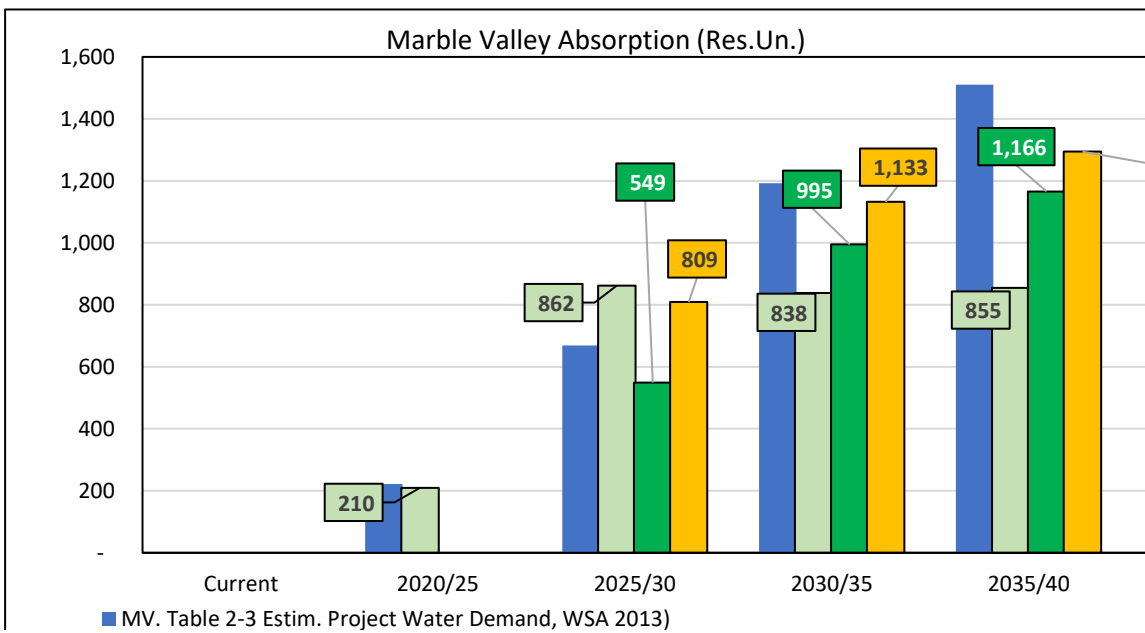
Projections

Projections



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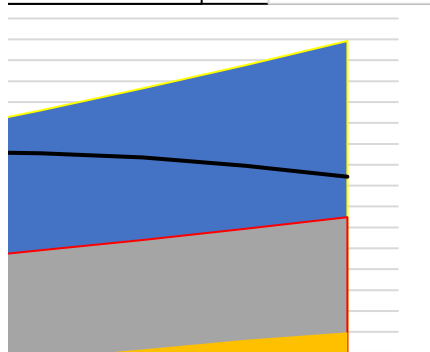
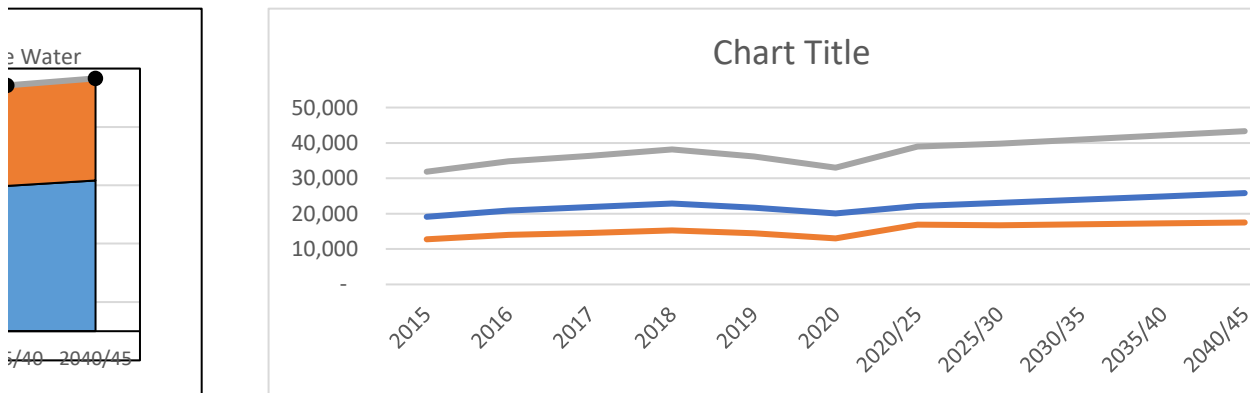




- MV:Units Absorbed at EID projection rate 2013
- MV:Units Absorbed at Exhibit H rate 2024

EID Study	Criteria*	AF - Year 2019	Citation
EID 2020	Potable Water Ac.Ft.	11,078	Table 4-1+3; page 4-4

RU4 - UPA	4.7
PPHH	3.5
Peop/Ac	16.3
ease for project area	2.71
W.Cons /per	150.0
Years / Prd	5.00
Gal / Ac	33,197.5
Gal / AcFt.	325,851
AcFt Factor/ Unit	0.509



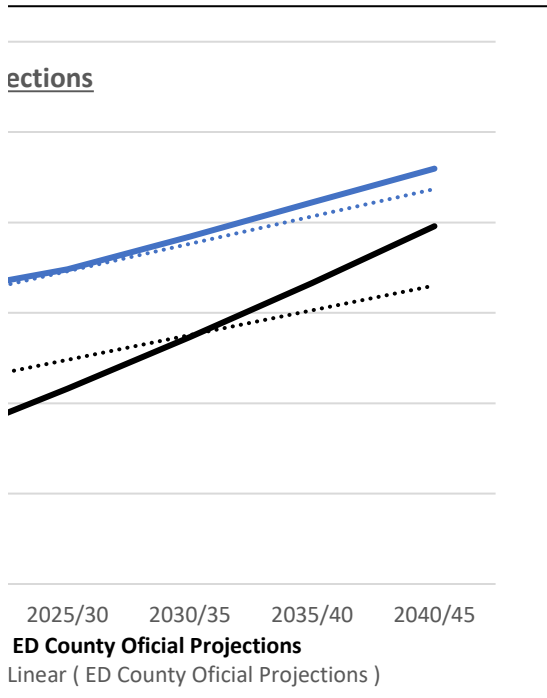
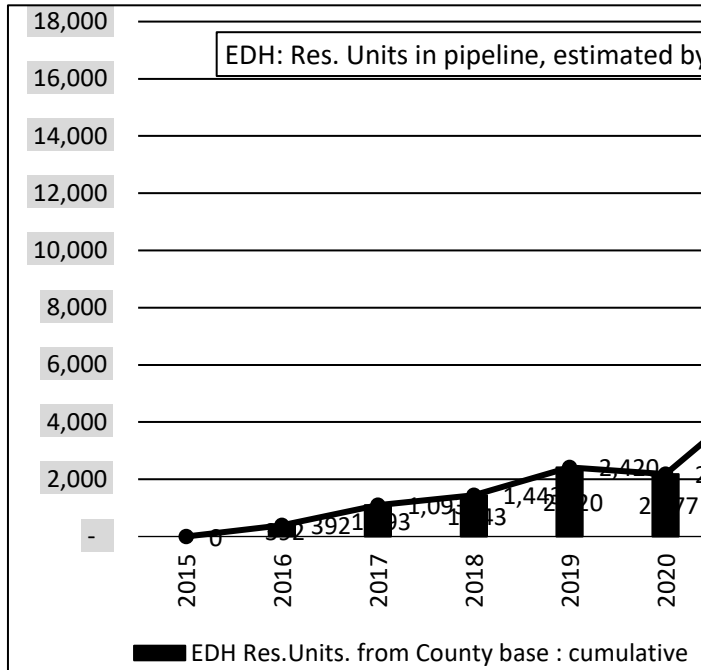
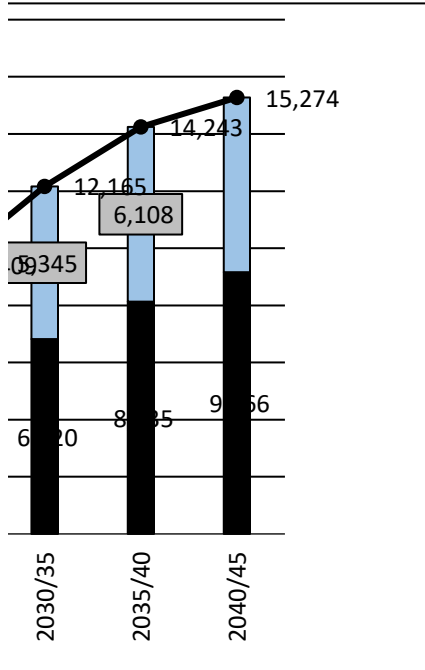
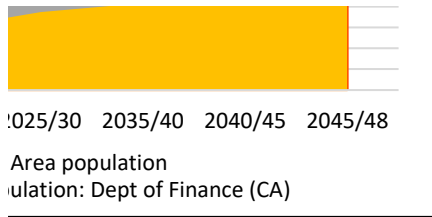
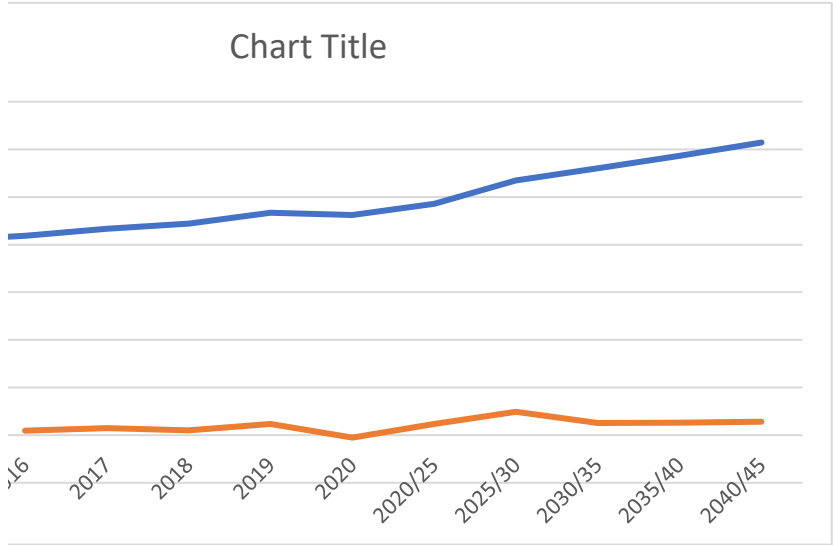
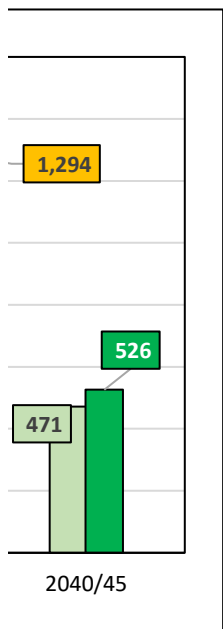




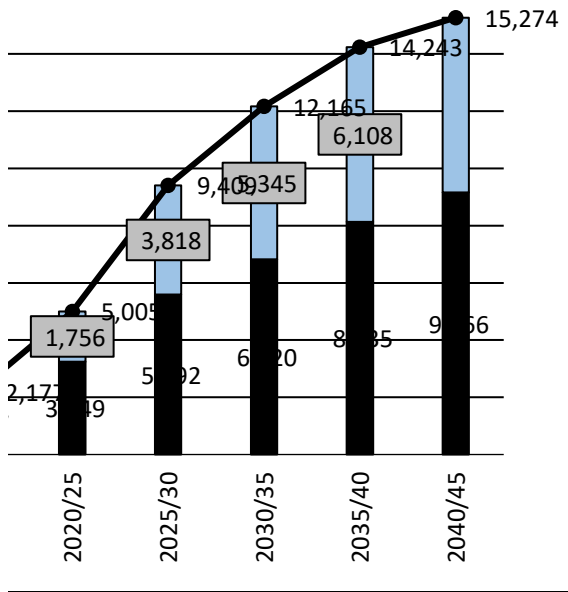
Chart Title







y 3.5 units pphh



	<b>EDH AREA FROM PIPELINE ANALYSIS</b>	Absorption 2020/25	Average Abs 2025-30
Res. Units>	TOTAL Existing Projects	1,756	-
Res. Units>	TOTAL Future projects	-	3,818
Res. Units>	<b>TOTAL PROJECTS IN PIPELINE (Resid Units)</b>	<b>1,756</b>	<b>3,818</b>
Res. Units>	<b>TOTAL PROJECTS IN PIPELINE (=Cum)</b>	<b>1,756</b>	<b>5,574</b>
	<b>AGREGATE DEMAND in EDH AREA</b>	Estimated Absorption 2020/25	Average Absorption 2025-30
Res. Units>	PROJECTS IN PIPELINE (Resid Units)	1,756	3,818
Res. Units>	<b>Pipeline Cumulative</b>	<b>1,756</b>	<b>5,574</b>

	<b>POP.BASE. RESID.UNIT PROJECTION</b>	2020/25	2025/30
Res. Units>	Population- Res Units: Annual increment	1,072	2,343
Res. Units>	Population: Cummulative units	3,249	5,592

	<b>DEMAND EID AREA</b>	Estimated Absorption 2015/20	Estimated Absorption 2020/25
Res. Units>	<b>EDH per 5 yr period</b>	<b>0</b>	<b>1,285</b>
Res. Units>	Eastern Region	500	753
Res. Units>	Western Region	150	218
Res. Units>	<b>TOTAL EID</b>	<b>650</b>	<b>2,256</b>
Res. Units>	UWMP 2020		<b>Cum</b>
Res. Units>	<b>EDH Aarea - CUMULATIVE</b>	<b>0</b>	<b>1,285</b>
Res. Units>	Eastern Region	500	753
Res. Units>	Western Region	150	218
Res. Units>	<b>TOTAL EID</b>	<b>650</b>	<b>2,038</b>

	<b>Residential Units</b>	<u>2020/25</u>	<u>2025/30</u>
Res. Units>	PIELINE CUMULATIVE PROJECTION	1,756	5,574
Res. Units>	PIPELINE per 5 year period	1,756	3,818
Res. Units>	POPULATION BASED PROJECTION: Cum.	3,249	5,592
Res. Units>	POPULATION BASED PROJECTION / 5 yrs.	1,072	2,343
Res. Units>	UWMP DATA PROJECTION - Cum.	1,178	3,633
Res. Units>	UWMP DATA PROJECTION / 5 yrs.	1,178	2,455
Res. Units>	<b>UWMP-Residen Connections cum.</b>	<b>1,285</b>	<b>2,683</b>
Res. Units>	UWMP-Residen Connections / 5 yrs.	1,285	1,398

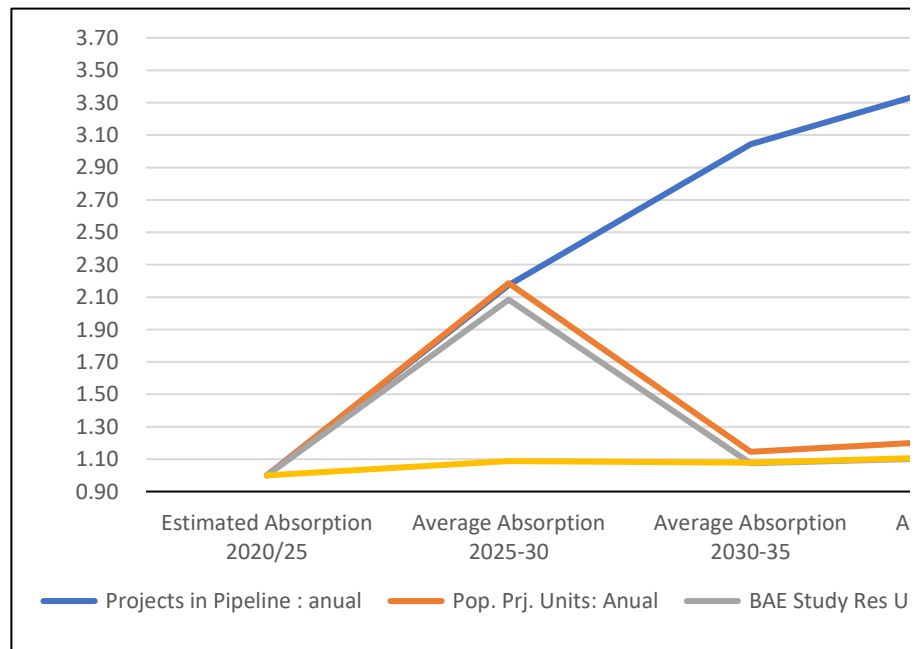


		2020/25	2025/30
Res. Units>	<b>PIPELINE per 5 year period</b>	1,756	3,818
Res. Units>	POPULATION BASED PROJECTION / 5 yrs.	1,072	2,343
Res. Units>	UWMP DATA PROJECTION / 5 yrs.	1,178	2,455
Res. Units>	UWMP-Residen Connections / 5 yrs.	1,285	1,398

	<b>PROJECTIONS : Cumulative</b>	2020/25	2025/30
Res. Units>	PIELINE CUMULATIVE PROJECTION	1,756	5,574
Res. Units>	POPULATION BASED PROJECTION: Cum.	3,249	5,592
Res. Units>	UWMP DATA PROJECTION / 5 yrs.	1,178	3,633
Res. Units>	UWMP-Residen Connections / 5 yrs.	<b>1,285</b>	<b>2,683</b>

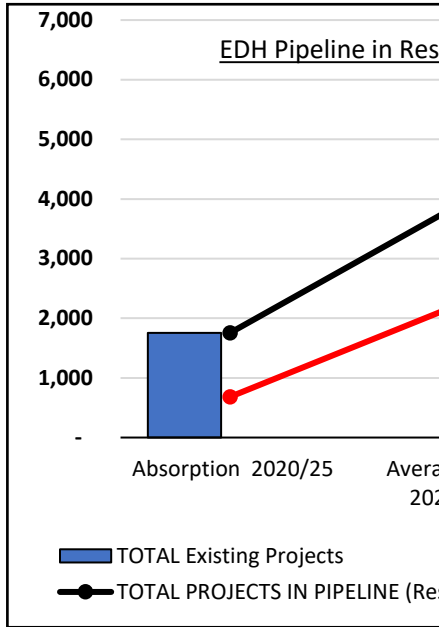
	<b>EDH- ESTIMATED DEMAND per 5 yr. period by different methodologies</b>	Estimated Absorption 2020/25	Average Absorption 2025-30
Res. Units>	Projects in Pipeline	1,756	3,818
Res. Units>	Pop. Prj. Units:	1,072	2,343
Res. Units>	BAE Study Res Units	1,178	2,455
Res. Units>	Residen Connections	1,285	1,398

	<b>EDH- ESTIMATED 5 YR. DEMAND by different methodologies BASE:2020</b>	Estimated Absorption 2020/25	Average Absorption 2025-30
Base in			
Res. Units>	Projects in Pipeline : anual	1.00	2.17
Res. Units>	Pop. Prj. Units: Anual	1.00	2.19
Res. Units>	BAE Study Res Units- Anual	1.00	2.08
Res. Units>	Residen Connections Anual	1.00	1.09



Average Abs 2030-35	Average Abs 2035-40	
-	-	
5,345	6,108	
<b>5,345</b>	<b>6,108</b>	
<b>10,918</b>	<b>17,026</b>	
Average Absorption 2030-35	Average Absorption 2035-40	Remaining @ buildout
5,345	6,108	-
<b>10,918</b>	<b>17,026</b>	<b>17,026</b>

2030/35	2035/40	2040/45
1,229	1,314	1,031
6,820	8,135	9,166



Units PER 5 YR PERIOD			
Average Absorption 2025-30	Average Absorption 2030-35	Average Absorption 2035-40	Units Remaining 2040++
<b>1,398</b>	<b>1,385</b>	<b>1,438</b>	<b>1,548</b>
563	584	605	605
163	168	175	175
<b>2,124</b>	<b>2,137</b>	<b>2,218</b>	<b>2,328</b>

Table 2-3 EID2020 pag

Cumulative units - table 2-3 pg 2-13			
<b>2,683</b>	<b>4,068</b>	<b>5,506</b>	<b>7,054</b>
1,316	1,900	2,505	3,110
381	549	724	899
<b>3,999</b>	<b>5,968</b>	<b>8,011</b>	<b>10,164</b>

Table 2-3 EID2020 pag

Table 2-7 EID2020 pag

Table 2-8 EID2020 pag

5,345	6,108	-
<u>2030/35</u>	<u>2035/40</u>	<u>2040/45</u>
<b>10,918</b>	<b>17,026</b>	<b>17,026</b>
5,345	6,108	-
<b>6,820</b>	<b>8,135</b>	<b>9,166</b>
1,229	1,314	1,031
<b>4,899</b>	<b>6,210</b>	<b>7,617</b>
1,266	1,311	1,407
<b>4,068</b>	<b>5,506</b>	<b>7,054</b>
1,385	1,438	1,548

Table 2-3 Pag 2-13

Table 2-3 Pag 2-13

table 2-3 pg 2-13

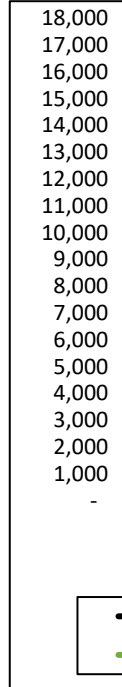
table 2-3 pg 2-13

2030/35	2035/40	2040/45
5,345	6,108	-
1,229	1,314	1,031
1,266	1,311	1,407
1,385	1,438	1,548

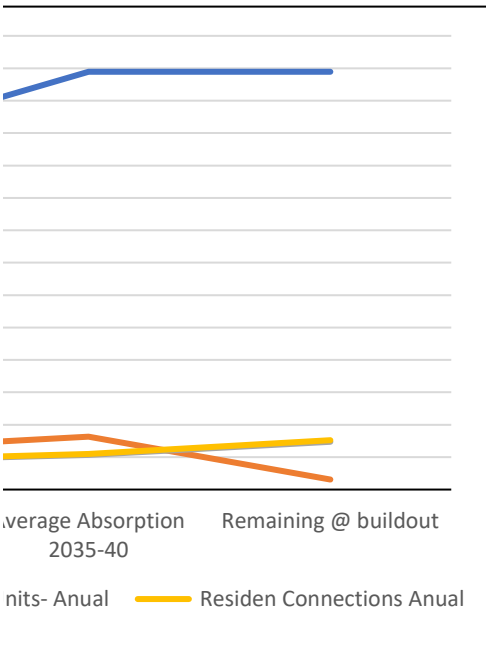
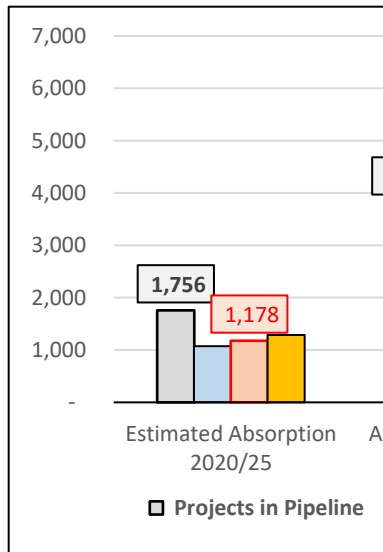
2030/35	2035/40	2040/45
10,918	17,026	17,026
6,820	8,135	9,166
4,899	6,210	7,617
<b>4,068</b>	<b>5,506</b>	<b>7,054</b>

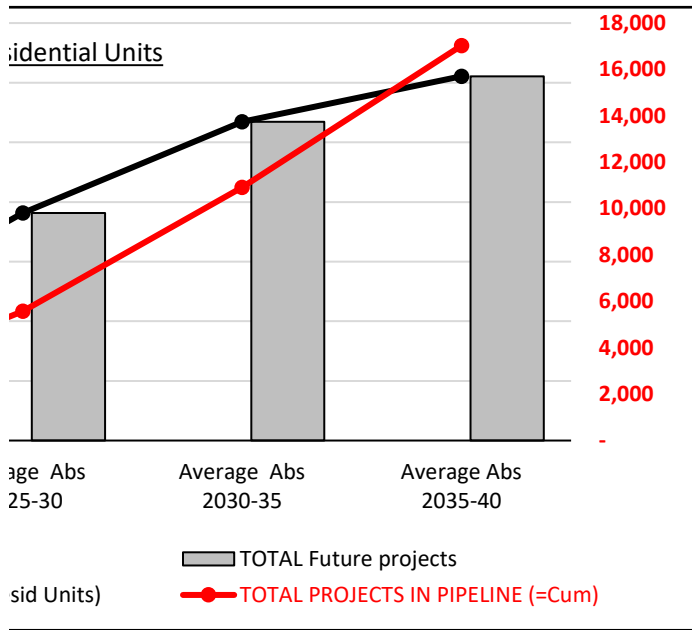
Average Absorption 2030-35	Average Absorption 2035-40	Remaining @ buildout	TOTAL
5,345	6,108		<b>17,026</b>
1,229	1,314	1,031	<b>6,988</b>
1,266	1,311	1,407	<b>7,617</b>
1,385	1,438	1,548	<b>7,054</b>

17,026  
9,409  
10,038  
9,972



Average Absorption 2030-35	Average Absorption 2035-40	Remaining @ buildout
3.04	3.48	3.48
1.15	1.23	0.96
1.07	1.11	1.19
1.08	1.12	1.20





e -13 (BAE Study)

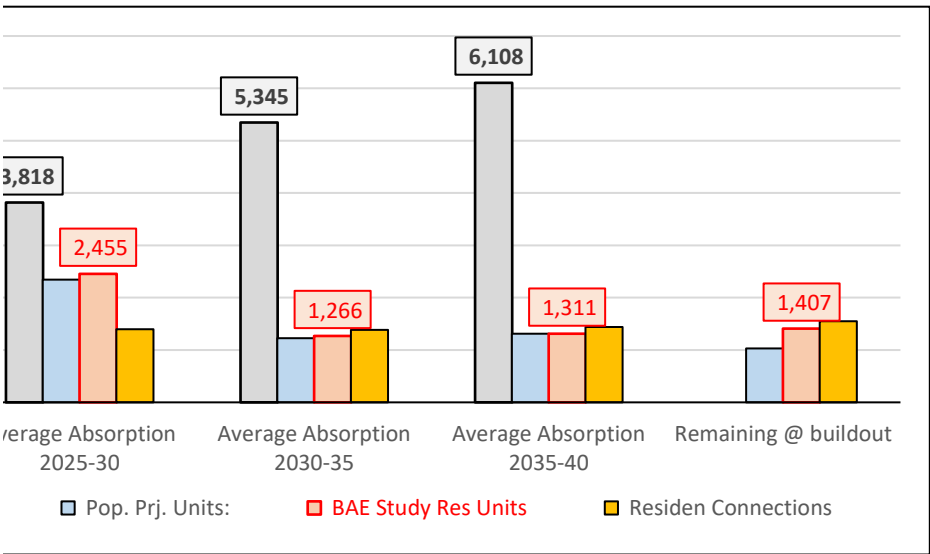
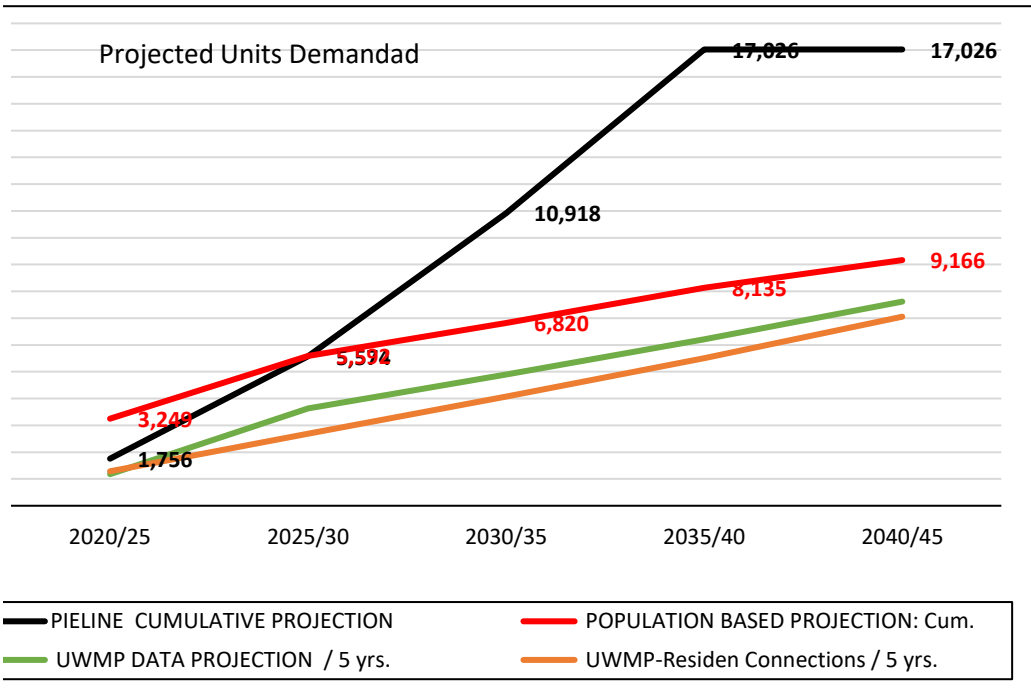
e -13 (BAE Study)

e -15 (BAE Study)

e -15 (BAE Study)

Table 2-4

Table 2-4



Carson Creek SP		1,700
Valley View SP		2,840
Project		Total Units Entitled
EDH-SP (Serrano)		6,162
Saratoga Estates		317
El Dorado Town Center		214
Promontory SP		1,100
Bass Lake SP		1,458
<b>TOTAL Existing Projects</b>		<b>9,251</b>

	Acres	Project name	Large SFD	SFD
1	638	East Ridge/ Valley View SP	701	
2	2,342	<b>Village of Marble Valley (SP)</b>	<b>1,963</b>	<b>1,209</b>
3	740	<b>Lime Rock Valley SP</b>	<b>550</b>	
4	208	Creekside Village- SP		668
5	43	EDH 52 - Mixed Use Center		
6	1,416	Health and Independence SP		3,481
7	208	Town & Country Village SP		
8	98	Carson Creek SP		311
9	116	Town Center West (total 2340 Ac)		
10	14	Monsanto Manor		
11	280	Generations at Green Valley		165
12	104	Cameron Meadows		161
13	143	Dorado Oaks TM Subdiv		156
14	25	Green Valley Road	54	
15	8	Serrano Village M5	20	
16	5	Bass Lake Fly Apts		
17	40	EDH - Golf Course (estimate remaining)		
18	5	Country Club Apts		
19	6,434	<b>TOTAL Future projects</b>	<b>3,288</b>	<b>6,151</b>
	1614	Texas Hill Reservoir		
	?	Heritage at Carson Creek		
<b>PROJECTS IN PIPELINE</b>			<b>3,288</b>	<b>15,402</b>
<b>NOTE THE FORGOING TABLE IS BACKED UP BY A SEPARATE DOCUM</b>				

		Table 4: Currently approved projects in the EDH Area	Total Units Entitled	Built
		TOTAL Existing Projects	9,251	5,739
		TOTAL Future projects		
		<b>TOTAL PROJECTS IN PIPELINE</b>	<b>9,251</b>	<b>5,739</b>
<b>TOTAL PROJECTS IN PIPELINE (Cumulative)</b>				



50% < % of total REMAINING

1,160	540	200	340					340
2,139	701	200	501					501
<b>Built</b>	EDH: Current Inventory	Additional units sold 2020>2025	Estimated Absorption 2020/25	Average Absorption 2025-30	Average Absorption 2030-35	Average Absorption 2035-40	Average Absorption to Buildout	<b>TOTAL</b>
4,614	1,548	774	774					774
317	-	-	-					-
-	214	107	107					107
709	391	196	196					196
99	1,359	680	680					680
5,739	3,512	1,756	1,756	-	-	-		1,756

MF	Other	Total Units	Estimated Absorption 2020/25	25% Average Absorption 2025-30	35% Average Absorption 2030-35	40% Average Absorption 2035-40	0% Average Absorption 2035-40	100% TOTAL
		701		175	245	280	-	701
	64	3236		809	1,133	1,294	-	3,236
250		800		200	280	320	-	800
250		918		230	321	367	-	918
304		304		76	106	122	-	304
108	921	4510		1,128	1,579	1,804	-	4,510
	918	918		230	321	367	-	918
315	124	750		188	263	300	-	750
940		940		235	329	376	-	940
320		320		80	112	128	-	320
214	60	439		110	154	176	-	439
		161		40	56	64	-	161
225		381		95	133	152	-	381
		54		14	19	22	-	54
		20		5	7	8	-	20
124	2	126		32	44	50	-	126
		500		125	175	200	-	500
192		192		48	67	77	-	192
3,242	2,089	15,270	-	3,818	5,345	6,108	-	15,270
8,981	5,601	18,782	1,756	3,818	5,345	6,108		17,026

ENT DETAILING THE INFORMATION FROM THE COUNTY'S WEBSITE AND IS AVAILABLE UPON REQUEST

Remaining in 2015	Additional units sold 2020>2025	EDH: Current Inventory	Average Absorption 2025-30	Average Absorption 2030-35	Average Absorption 2035-40	"PIPELINE" TOTAL RES. UNITS
3,512	1,756	1,756	-	-	-	1,756
			3,818	5,345	6,108	15,270
3,512	1,756	1,756	3,818	5,345	6,108	17,026
			5,574	10,918	17,026	



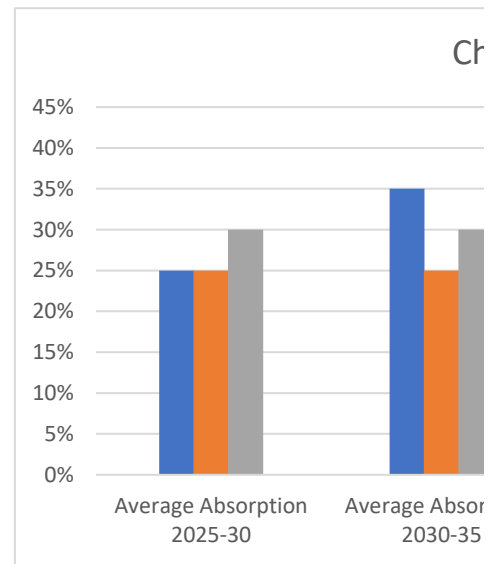


68%	EDH-SP Ap 2021- Table 5-1 GP-2024
75%	
% Remaining	
75%	
100%	
0%	EDH-SP Ap 2021- Table 5-1 GP-2024
64%	
7%	
71%	

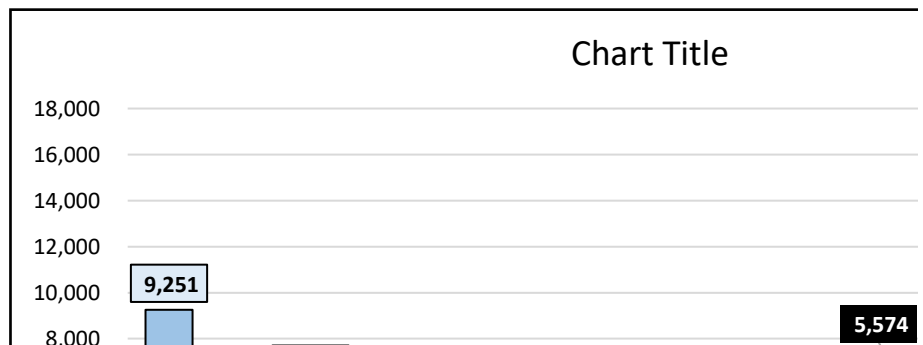
0%

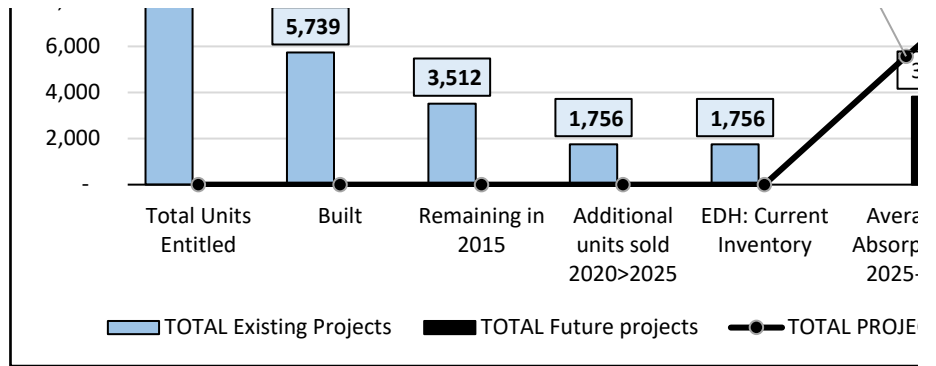
	Average Absorption 2025-30	Average Absorption 2030-35	Average Absorption 2035-40	Average Absorption 2035-40
Case A	25%	35%	40%	0%
Case B	25%	25%	25%	25%
Case D	30%	30%	35%	5%

EDH-SP Ap 2021- Table 5-1 GP-2024 (CHECK w.County)  
 EDH-SP Ap 2021- Table 5-1 GP-2024(CHECK w.County)



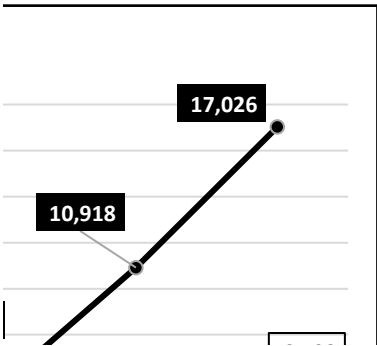
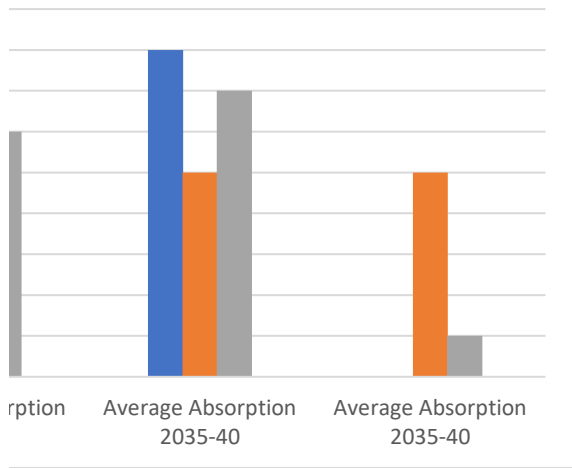
< Is there an estimate of Res.Un.?  
 < Is this an active project? There is a map proposed.

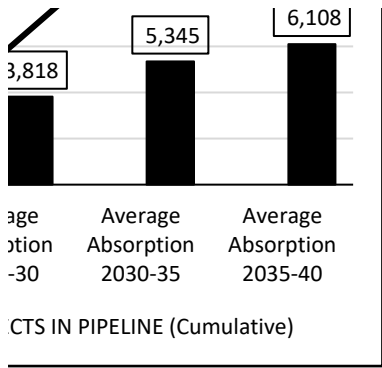




100%
100%

Chart Title





Determining Acre Feet demanded based on		
EDH AREA PIPELINE ANALYSIS	in	In Use
ac.ft.		
DEMAND: EDH AREA		1,756
DEMAND: EDH AREA Cumulative		1,756
EDH AREA PIPELINE ANALYSIS	in	In Use
ac.ft.		
EDH: ESTIMATED DEMAND 2020		12,669
<b>0.673</b>	EDH PIPELINE (cumulative)	1,181
	<b>TOTAL: EID Current + EDH Demand</b>	<b>13,851</b>

	<b>EID AREA - SUPPLY</b>	In Use
	Sub Total Existing Contracts	23,000
	Sub Total Planned	-
	Recycled water	2,800
	<b>TOTAL Acre Feet</b>	<b>25,800</b>
	<b>CUMULATIVE SUPPLY</b>	<b>25,800</b>
EDH Allocation factor (base 2019)	<b>28.7%</b>	
	<b>EDH CUMULATIVE SUPPLY</b>	<b>7,410</b>

	EDH AREA: SUPPLY & DEMAND (in	In Use 2020
	EDH CUMULATIVE SUPPLY	7,410
	DEMAND: EDH AREA	13,851
	<b>EDH: NET WATER SUPPLY Ac.Ft.</b>	<b>(6,441)</b>

	SUPPLY & DEMAND for EID area (in Ac.Ft)	In Use 2020
	EID CUMULATIVE SUPPLY	25,800
	DEMAND: EID AREA	35,910
	<b>Net: Demand &amp; Suppl in EID Area</b>	<b>(10,110)</b>

	EDH AREA SUPPLY
2020	7,410
2021	7,410
2022	7,410
2023	7,410
2024	7,410
2025	15,219
2026	15,219
2027	15,219
2028	15,219
2029	15,219

2030	22,255
2031	22,255
2032	22,255
2033	22,255
2034	22,255
2035	30,871
2036	30,871
2037	30,871
2038	30,871
2039	30,871
2040	30,871

EDH  
CUMULATIVE  
SUPPLY

2020	25,800
2021	25,800
2022	25,800
2023	25,800
2024	25,800
2025	52,990
2026	52,990
2027	52,990
2028	52,990
2029	52,990
2030	77,490
2031	77,490
2032	77,490
2033	77,490
2034	77,490
2035	107,490
2036	107,490
2037	107,490
2038	107,490
2039	107,490
2040	107,490

420 <GPD / HH

existing residential units in pipeline		
Assumed to be available	Long term source	Very Long Term
3,818	5,345	6,108
5,574	10,918	17,026
Assumed to be available	Long term source	Very Long Term
13,836	15,940	18,543
3,750	7,345	11,454
<b>17,586</b>	<b>23,285</b>	<b>29,997</b>

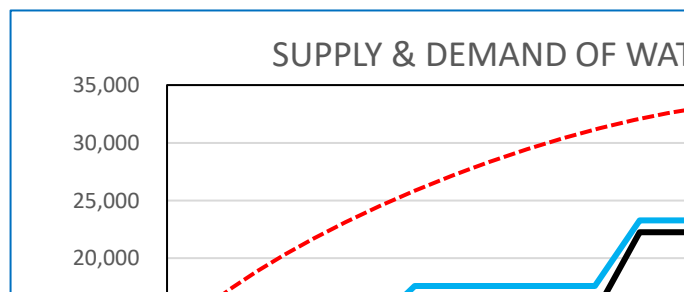
<b>120</b>	<b>Usage: Galons / day</b>
1825	Days in 5 Years
219,000	Total Galons in 5 Yrs
<b>325,851</b>	<b>Galons in an Ac.Ft.</b>
<b>0.67</b>	<b>Acre feet / unit/5yr</b>

Ac. Feet	Long term	Very Long	TOTAL
27,190	17,000	-	<b>67,190</b>
	7,500	30,000	<b>37,500</b>
-	-	-	<b>2,800</b>
<b>27,190</b>	<b>24,500</b>	<b>30,000</b>	<b>107,490</b>
<b>52,990</b>	<b>77,490</b>	<b>107,490</b>	
<b>15,219</b>	<b>22,255</b>	<b>30,871</b>	

Assumed to be	Long term	Very Long
15,219	22,255	30,871
17,586	23,285	29,997
<b>(2,367)</b>	<b>(1,030)</b>	<b>874</b>

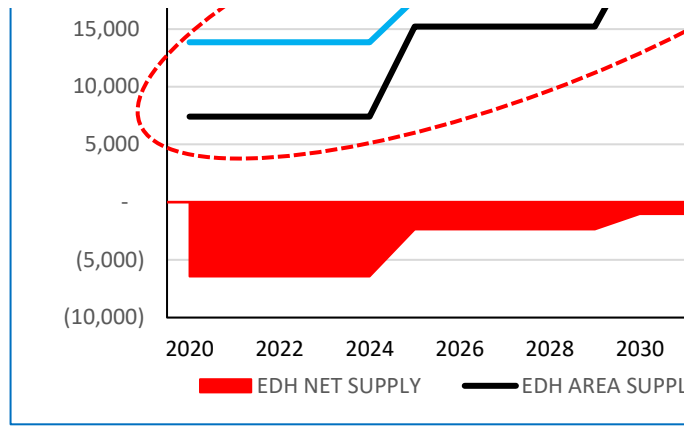
Assumed to be available	Long term source	Very Long Term
52,990	77,490	107,490
44,113	48,176	55,501
<b>8,877</b>	<b>29,314</b>	<b>51,989</b>

EDH AREA DEMAND	EDH NET SUPPLY
13,851	(6,441)
13,851	(6,441)
13,851	(6,441)
13,851	(6,441)
13,851	(6,441)
17,586	(2,367)
17,586	(2,367)
17,586	(2,367)
17,586	(2,367)
17,586	(2,367)
17,586	(2,367)

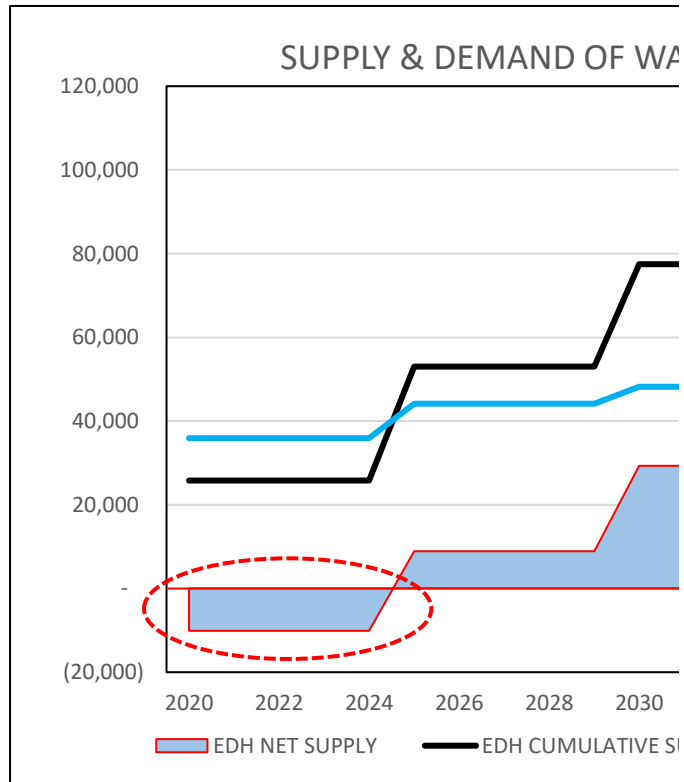


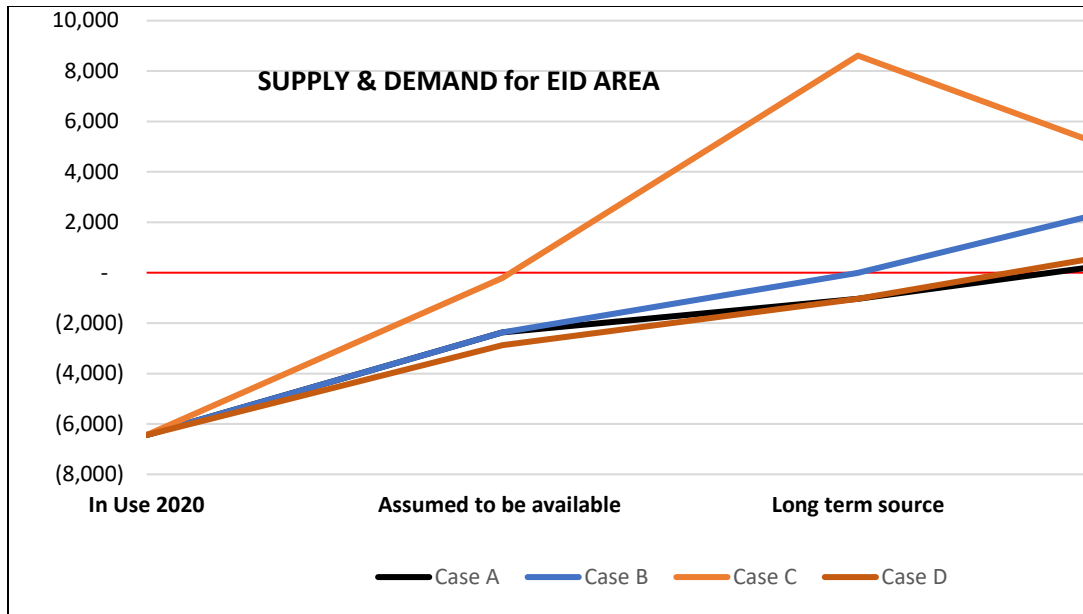


23,285	(1,030)
23,285	(1,030)
23,285	(1,030)
23,285	(1,030)
23,285	(1,030)
29,997	874
29,997	874
29,997	874
29,997	874
29,997	874
29,997	874
29,997	874

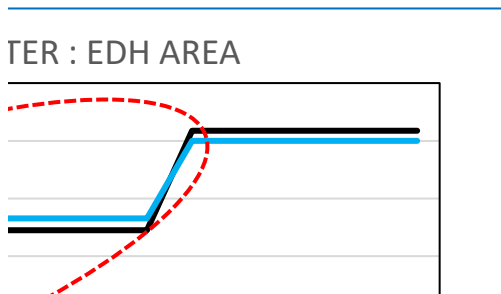
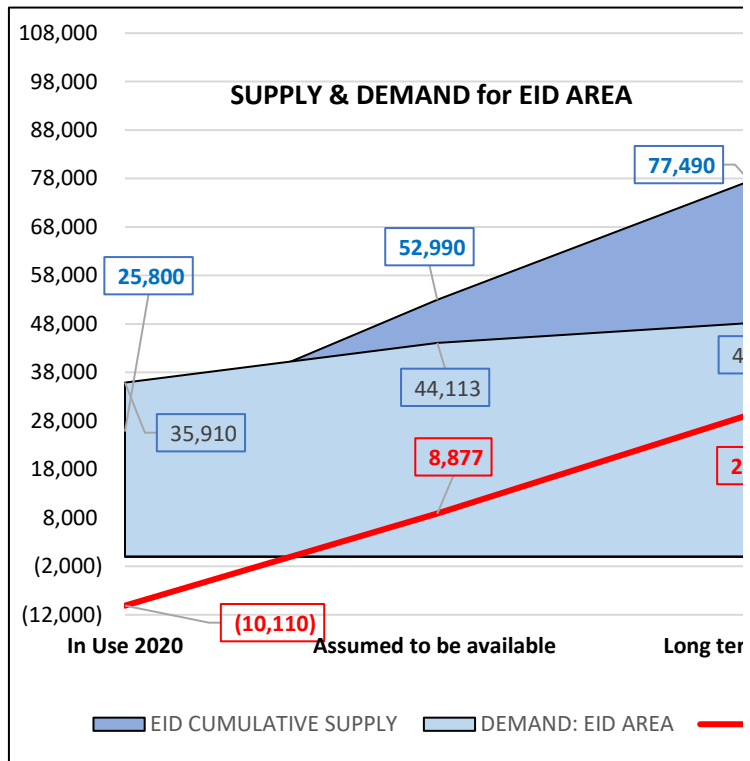


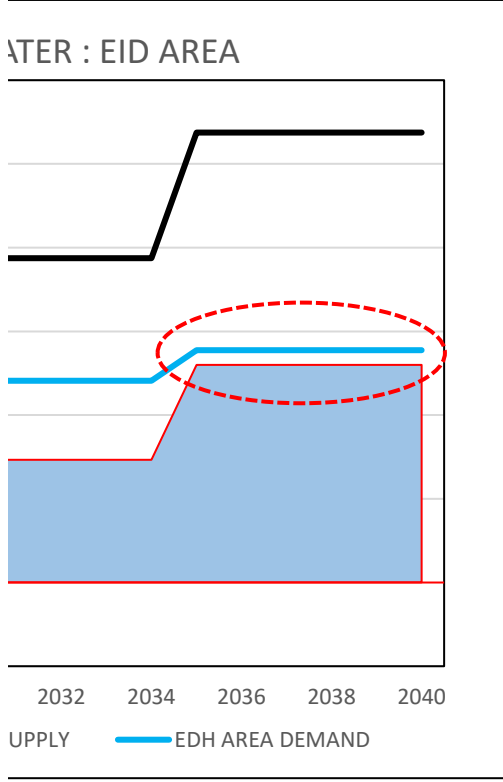
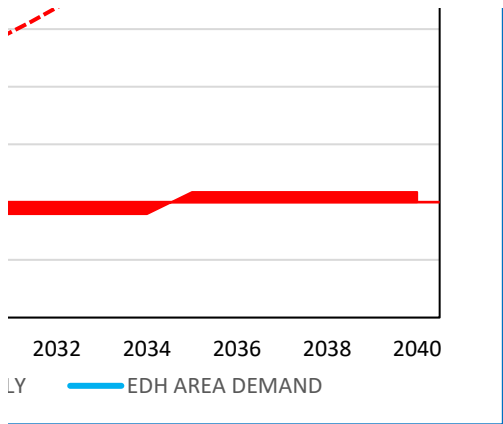
EDH AREA DEMAND	EDH NET SUPPLY
35,910	(10,110)
35,910	(10,110)
35,910	(10,110)
35,910	(10,110)
35,910	(10,110)
44,113	8,877
44,113	8,877
44,113	8,877
44,113	8,877
44,113	8,877
48,176	29,314
48,176	29,314
48,176	29,314
48,176	29,314
48,176	29,314
55,501	51,989
55,501	51,989
55,501	51,989
55,501	51,989
55,501	51,989
55,501	51,989

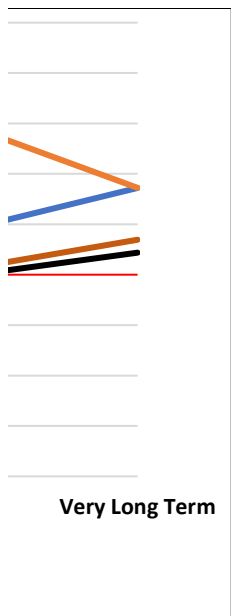




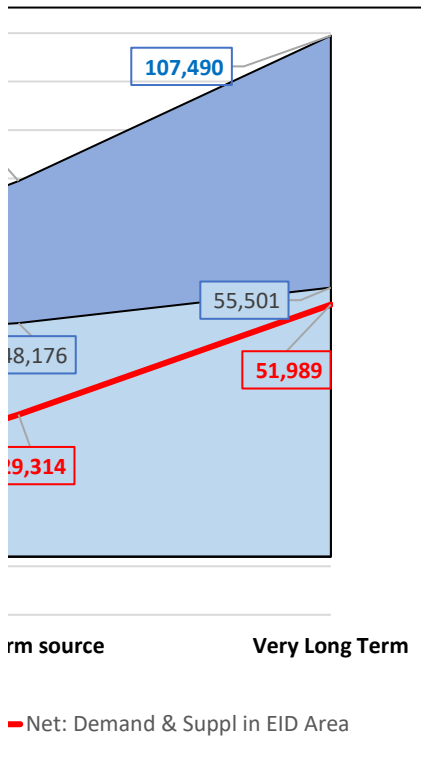
EDH Area	In Use 2020	Assumed to be available	Long term source	Very Long Term	Base Case	Average Absorption	Average Absorption	Average Absorption
Case A	(6,441)	(2,367)	(1,030)	874		25%	35%	40%
Case B	(6,441)	(2,367)	(3)	3,442		25%	25%	25%
Case C	(6,441)	(213)	8,613	3,442		25%	25%	25%
Case D	(6,441)	(2,881)	(1,030)	1,388		30%	30%	35%







Average Absorption	Acft brought forward "assumed available)2025-30
0%	
25%	
25%	37500 ac.ft. planned.
5%	37500 ac.ft. planned.



UWMO- Chapter 4 Page 4-6		<u>EDH</u>		UWMO- Chapter 4 Page 4-12	
Single Family	4,574		31.8%	Single Family	
SF-Attached	918		109.3%	SF-Attached	
Multi Family	655		43.1%	Multi Family	
<b>Sub Total Residential area</b>	<b>6,147</b>		36.7%	<b>Sub Total Residential area</b>	
Commer / Indust	755		53.5%	Commer / Indust	
Landscaping	780		85.7%	Landscaping	
Rece. Turf	617		62.3%	Rece. Turf	
<b>Sub Total ommer +Ldsc+Tf</b>	<b>2,152</b>		65.0%	<b>Sub Total ommer +Ldsc+</b>	
<b>Land Development</b>	<b>8,299</b>		41.4%	<b>Land Development</b>	
Ag Metered Irrigation	29		0.9%	Ag Metered Irrigation	
Small Farm	132		11.0%	Small Farm	
<b>Sub Total Ag</b>	<b>161</b>		3.6%	<b>Sub Total Ag</b>	
City Placerville				City Placerville	
Ditch Service - potable				Ditch Service - potable	
Other Authorized Use				Other Authorized Use	
Recycled Supplement				Recycled Supplement	
Sub Total P'ville + other	-			Sub Total P'ville + other	
<b>Total Usage 2019</b>	<b>8,460</b>		32.8%	<b>Total Usage 2019</b>	



<b>Tota EID</b>
14,400
840
1,520
<b>16,760</b>
1,410
910
990
<b>3,310</b>
<b>20,070</b>
3,300
1,200
<b>4,500</b>
1,200
<b>1,200</b>
<b>25,770</b>

Customer usage for 2019 in A		
	<b>Tota EID</b>	
Single Family	12,587	47.9%
SF-Attached	824	3.1%
Multi Family	1,273	4.8%
<b>Sub Total Residential area</b>	<b>14,684</b>	<b>55.9%</b>
Commer / Indust	1,616	6.1%
Landscaping	776	3.0%
Rece. Turf	833	3.2%
<b>Sub Total ommer +Ldsc+Tf</b>	<b>3,225</b>	<b>12.3%</b>
<b>Land Development</b>	<b>17,909</b>	<b>68.1%</b>
Ag Metered Irrigation	2,735	10.4%
Small Farm	1,068	4.1%
<b>Sub Total Ag</b>	<b>3,803</b>	<b>14.5%</b>
City Placerville	1,000	3.8%
Ditch Service - potable	395	1.5%
Other Authorized Use	2,564	9.8%
Recycled Supplement	612	2.3%
<b>Sub Total P'ville + other</b>	<b>4,571</b>	<b>17.4%</b>
<b>Total Usage 2019</b>	<b>26,283</b>	<b>100.0%</b>

<b>EDH</b>	<b>11,078</b>	<b>42.1%</b>
West	5,388	20.5%
East	5,246	20.0%
Others*	4,571	17.4%
<b>TOTAL</b>	<b>26,283</b>	<b>100.0%</b>
SUPPLY - Sly Park Only	23,000	87.5%

	<b>Tota EID</b>	
	<b>Acre Feet</b>	
<b>Sub Total Residential area</b>	<b>14,684</b>	<b>55.9%</b>
<b>Sub Total ommer +Ldsc+Tf</b>	<b>3,225</b>	<b>12.3%</b>
Sub Total Ag	3,803	14.5%
Sub Total P'ville + other	4,571	17.4%
<b>Total Usage 2019</b>	<b>26,283</b>	<b>100.0%</b>

--	--	--

	<b>TOTAL</b>	<b>42.1%</b>
Sub Total Residential area	14,684	55.9%
Sub Total ommer +Ldsc+Tf	3,225	12.3%
<b>EDH : Resid + Commercial</b>	<b>17,909</b>	<b>68.1%</b>
EDH Alocation factor (base 2019)		<b>28.7%</b>



c.Ft.

<b>EDH</b>	<b>Other + P'ville</b>	<b>Est+West+otr</b>	<b>Supply ?</b>	<b>Excess AF (table 4-6 page 4-8)</b>
7517		5,070		
824		-		
585		688		
<b>8,926</b>		<b>5,758</b>		
763		853		
680		96		
572		261		
<b>2,015</b>		<b>1,210</b>		
<b>10,941</b>		<b>6,968</b>	30,014	12,105
26		2,709		
111		957		
<b>137</b>		<b>3,666</b>	5,059	1,256
	1,000		1,148	148
	395			
	2,564			
	612			
	4,571		<b>1,148</b>	(3,423)
		-		
<b>11,078</b>	<b>4,571</b>	<b>10,634</b>	<b>36,221</b>	<b>9,938</b>
<b>42.1%</b>	<b>17.4%</b>	<b>40.5%</b>		

<b>EDH</b>	<b>Other + P'ville</b>	<b>Est+West+otr</b>	
<b>42.1%</b>	<b>17.4%</b>	<b>40.5%</b>	
8,926	-	5,758	
2,015	-	1,210	
137	-	3,666	
-	4,571	-	
<b>11,078</b>	<b>4,571</b>	<b>10,634</b>	

--	--	--	--

EDH % of Cou	West	East	
8,926	-	5,758	
2,015	-	1,210	
<b>10,941</b>	-	<b>6,968</b>	
<b>&lt; EDH Factor</b>			

	Normal	single dry	yr 2	yr 3
2020	42,938.0	45,084.0	41,928.0	38,321.0
	0%	5%	-2%	-11%
2025	49,561.0	52,039.0	48,396.0	44,233.0
	0%	5%	-2%	-11%

# SUPPLY TABLES

	<i>Distr Normal yr</i>	Normal year	Water Supply Realibili		
			In Use	"Assumed to be.." available	Long term source
<b>Lic#11835/6</b>	<b>30%</b>	<b>23,000</b>	<b>23,000</b>	-	-
Warren Act Contract	6%	4,560	-	4,560	-
American River Diversion	19%	15,080	-	15,080	-
Permit 21112	22%	17,000	-	-	17,000
CPV Contract	10%	7,550	-	7,550	
Outingdale / Cosumnes (110)	0%	-		-	
<b>Sub Total Existing Contracts</b>	<b>87%</b>	<b>67,190</b>	<b>23,000</b>	<b>27,190</b>	<b>17,000</b>
Fazio Water 1990	10%	7,500	-		7,500
El Dorado - SMUD Coop Agt	0%				
<b>Sub Total Planned</b>	<b>10%</b>	<b>7,500</b>	<b>-</b>	<b>-</b>	<b>7,500</b>
Recycled water	4%	2,800	2,800		
<b>TOTAL Acre Feet</b>	<b>100%</b>	<b>77,490</b>	<b>25,800</b>	<b>27,190</b>	<b>24,500</b>
			25,800	52,990	77,490

	<i>Distr Normal yr</i>	Normal year	In Use	"Assumed to be.." available	Long term source
Sub Total Existing Contracts	87%	67,190	23,000	27,190	17,000
Sub Total Planned	10%	7,500	-	-	7,500
Recycled water	4%	2,800	2,800	-	-
<b>TOTAL Acre Feet</b>	<b>100%</b>	<b>77,490</b>	<b>25,800</b>	<b>27,190</b>	<b>24,500</b>
		Cum>	25,800	52,990	77,490

ity - 2020

Very Long Term	TOTAL	<u>2020 Urban Water Plan</u>
-	<b>23,000</b>	<b>23,000</b>
-	4,560	4,560
-	15,080	15,080
-	17,000	17,000
-	7,550	7,550
-	-	-
-	<b>67,190</b>	<b>67,190</b>
	7,500	7,500
30,000	30,000	
<b>30,000</b>	<b>37,500</b>	<b>7,500</b>
	2,800	2,800
<b>30,000</b>	<b>107,490</b>	<b>77,490</b>
107,490	-	

Very Long Term	TOTAL	<u>2020 Urban Water Plan</u>
-	67,190	67,190
30,000	37,500	7,500
-	2,800	2,800
<b>30,000</b>	<b>107,490</b>	<b>77,490</b>
107,490	> TO Sup& Dmd Table>	

	Max	
- Sly Park Reservoir	33,400	10,400
- Weber Reservoir rights	4,560	-
- Project 184 (1914Forbay)	15,080	-
- Permit 2112 (Warren Act)	17,000	-
- CVP Contract- Fazio	7,550	-
(110) Outingdale / Cosumnes	-	(110)
(110)	<b>77,590</b>	<b>10,290</b>
Recycled	3,500	-

<b>Normal</b>		Single Dry
<b>23,000</b>	(2,080)	20,920
<b>4,560</b>	(1,560)	3,000
<b>15,080</b>	-	15,080
<b>17,000</b>	-	17,000
<b>7,550</b>	(3,775)	3,775
<b>110</b>	(6)	104
<b>67,300</b>	<b>(7,421)</b>	<b>59,879</b>
<b>3,500</b>		

\_\_\_\_\_

In Use	"Assumed to be.." available	Long term source	Very Long Term	TOTAL	% Distrib x source	Dry Year
	4,560			4,560	6%	3,000
23,000				23,000	31%	20,920
		7,550		7,550	10%	3,775
	15,080			15,080	20%	15,080
		17,000		17,000	23%	17,000
	104			104	0%	104
			7,500	7,500	10%	7,500
<b>23,000</b>	<b>19,744</b>	<b>24,550</b>	<b>7,500</b>	<b>74,794</b>	<b>100%</b>	<b>67,379</b>
	31%	26%	33%	10%	100%	90%

The conclusion that EID should have sufficient water available to meet the needs of the Propo assumptions: ! EID, EDCWA, and EDWPA successfully execute the contracts and obtain the wa water supplies currently held by EID and recognized to be diverted under existing contracts ar and planned future uses. ! EID will commit to implement Facility Capacity Charges in an amou detailed in the March 2013 EID Integrated Water Resources Master Plan. ! Demand in single-d This conservative assumption accounts for the likelihood that EID customers will irrigate earlie manifest in dry years, but this conservative assumption further tests the sufficiency of water s losses (e.g. distribution system losses). The finding of this WSA is that EID should have sufficie

**Average Year Water Supply Availability is based on the fo**

1. Ditches / Weber Reservoir Rights (License 2184 and Pre-1914 Water Rights) are appropriate for the District's water supply. **The maximum value of 4,560 acre-feet has historically been available in average years.**

2. Sly Park Reservoir (License 11835 and 11836 and pre-1914 Camp Creek right), also called Sly Park Reservoir, **whose value during average years is less than the maximum water right.** Although the rights as 25,745 acre-feet, **23,000 acre-feet is used for planning purposes** for an average year due to the District's water supply.

3. 40 El Dorado Irrigation District 2020 Water Quality Report, Outingdale Water System 41 El Dorado Irrigation District 2020 Water Quality Report, Outingdale Water System 42 The El Dorado Irrigation District Integrated Water Resources Master Plan, M

4. Central Valley Project water (Contract 14-06-200-1375A-LTR1-P) has historically been available in average years. **is assumed to be available in future average years.**

5. 4. Project 184 (Pre-1914 appropriative rights from the Upper South Fork American River) **15,080 acre-feet, to be fully available in average years** and is assumed to be available in future average years. **is assumed to be available in future average years.**

6. 5. Permit 21112 allows the District to divert up to 17,000 acre-feet of water per year at Fazio Reservoir. **historically been available in its full amount** pending the completion of a temperature control structure. **expected to be completed in 2021.** Based upon the availability of the supply in Permit 21112, the **long-term Warren Act Contract with USBR**, the average-year availability of this supply is 17,000 acre-feet.

7. 6. **Outingdale/ Middle Fork Cosumnes Supplies (Permit 4071) provides up to 104 acre-feet of water per year at this level in future average years.**

8. 7. **Recycled Water is projected to provide 3,500 acre-feet in average years.** Note that this supply is presented in this section.

9. **8. Central Valley Project Fazio Water is expected to include 7,500 acre-feet or more as a part of the District's water supply.** While the District is expected to receive its full entitlement in average years. While the District's existing water supply scenarios examined in the planning period based on current conditions and assumptions, secure the District's projected average year supplies are summarized in Table 3-2.



## WATER SUPPLY REALIBILITY from 2020 UWMP DRAFT 2021

1. **Ditches / Weber Reservoir Rights (License 2184 and Pre-1914 Water Rights)** are appropriate 4,560 acre-feet has historically been available in average years and is assumed to be available in future average years.

2. **Sly Park Reservoir (License 11835 and 11836 and pre-1914 Camp Creek right),** **, is the District's only existing supply source whose value during average years is** less than the maximum water right. Although the rights allow up to 33,400 acre-feet, and the District has diverted as much as 25,745 acre-feet, 23,000 acre-feet is used for planning purposes for an average year due to the need to set aside carryover storage for future years.

3. **Central Valley Project water (Contract 14-06-200-1375A-LTR1-P)** 7,550 acre-feet in average years and is assumed to be available in future average years.

4. **Project 184 (Pre-1914 appropriative rights from the Upper South Fork American River)** 15,080 acre-feet, to be fully available in average years

5. **Permit 21112** allows the District to divert up to 17,000 acre-feet of water per year at Folsom Reservoir through a Warren Act Contract. This supply has not historically been available in its full amount pending the completion of a temperature control device at the District's intake from Folsom Reservoir, which is expected to be completed in 2021.

6. **Outingdale/ Middle Fork Cosumnes Supplies (Permit 4071)** provides up to 104 acre-feet per year of water during average years, and is expected to remain at this level in future average years.

7. **Recycled Water** is projected to provide 3,500 acre-feet in average years. Note that this supply is **non-potable water.**

8. **Central Valley Project Fazio Water** is expected to include 7,500 acre-feet  
Once secured, projected to occur by 2035,

### TOTAL SUPPLY

used Project, in addition to the other demands in its service area through 2035, rests on the following se  
ter right permit approvals for currently unsecured water supplies discussed in Section 4. Absent these st  
rd agreements would be insufficient in 2035 to meet the Proposed Project demands along with all other  
nt sufficient to assure the financing is available as appropriate to construct the necessary infrastructure  
lry years includes an additional 5 percent of demand over the normal year demand during the same tim  
er in the season to account for dry spring conditions. This hypothetical demand augmentation may or m  
supplies during dry conditions. ! The estimated demands include 13 percent to account for non-revenue  
nt water to meet the demands of Proposed Project and its other service area demands for the next 20 y

**Following assumptions: 2013 WSA**

ative water rights associated with Slab, Hangtown, Mill, and Weber  
**rights and is assumed to be available in future average years.**

**ed Jenkinson Lake, is the District's only existing supply source**  
allow up to 33,400 acre-feet, and the District has diverted as much  
o the need to set aside carryover storage for future years.

El Dorado Irrigation District 2020 Water Quality Report, Strawberry  
March 31, 2013 Chapter 3 – Water Supply 2020 UWMP – Final 3-14 3.

ailable at its maximum value of 7,550 acre-feet in average years and

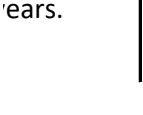
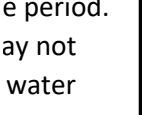
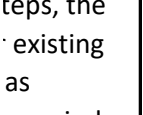
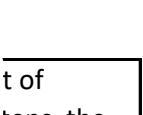
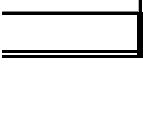
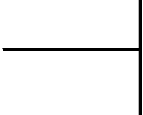
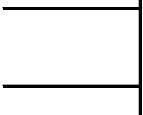
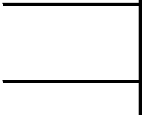
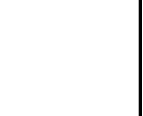
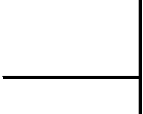
have an early priority date that has **allowed this source of water,**  
re average years. Supplies for the District's Strawberry system are

olsom Reservoir through a Warren Act Contract. **This supply has not**  
device at the District's intake from Folsom Reservoir, **which is**  
**the ability to store the water in** Caples, Silver, and Lake Aloha, and  
7,000 acre-feet.

**et per year of water during average years, and is expected to remain**

s supply is non-potable, in contrast to the other District supplies

authorized by federal law. Once secured, **projected to occur by 2035,**  
isting supplies are sufficient to meet demands throughout all  
uring the Fazio CVP Supply will further improve future reliability. The



t of  
teps, the  
existing  
as  
e period.  
ay not  
water  
ears.