

Water Resources Planning Department

**Projection Analysis Work Sheets
for
Selma District**

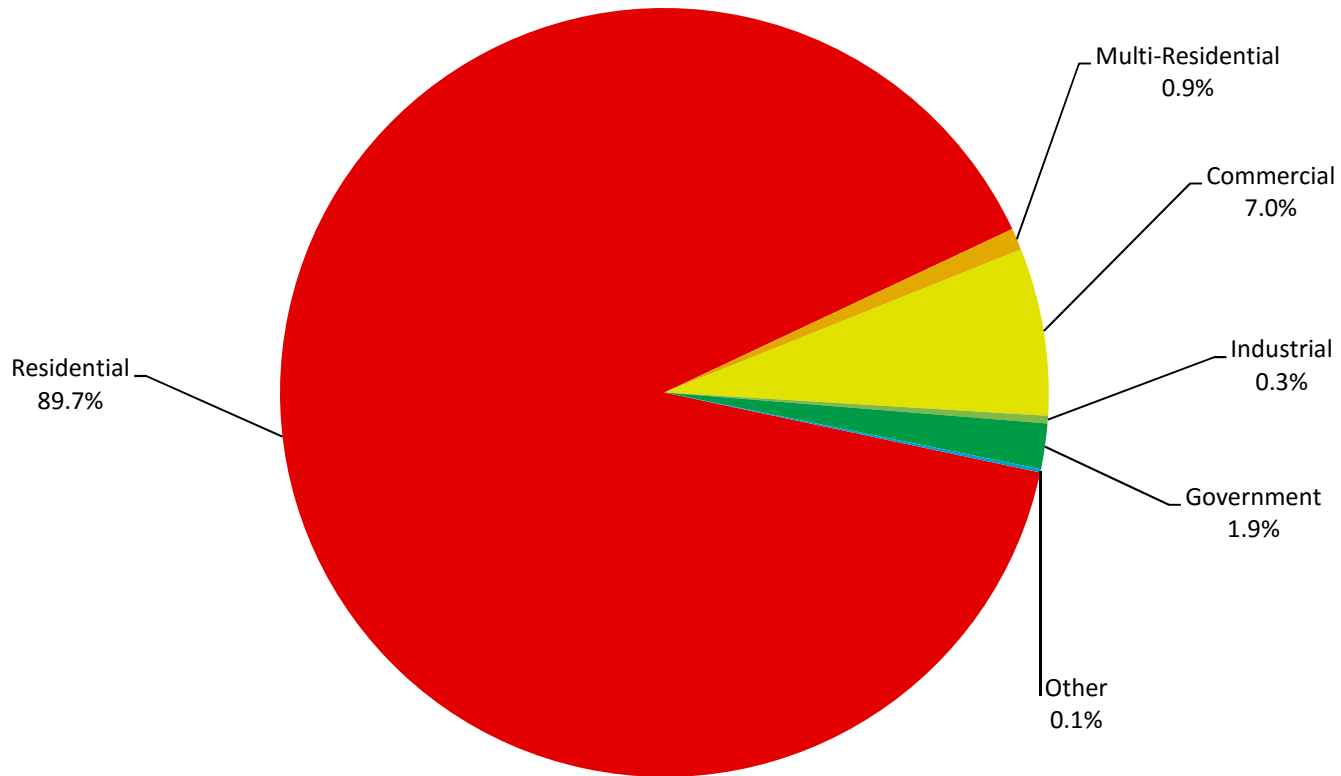
2015



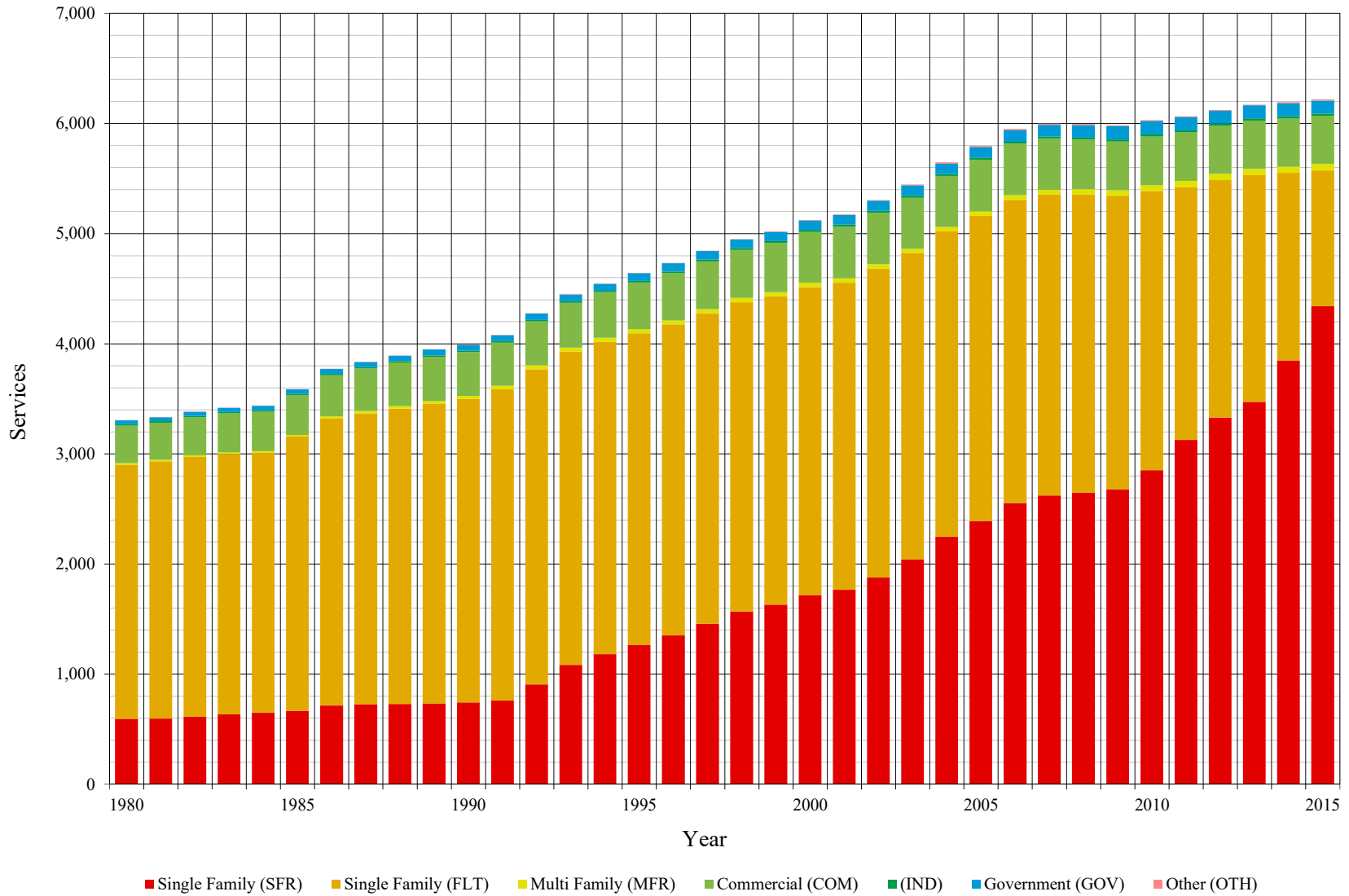
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Distribution of Services (2015)



Historical Services



California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Average Annual Services

Year	Single Family (SFR)	Single Family (FLT)	Single Family (Total)	Multi Family (MFR)	Commercial (COM)	Industrial (IND)	Government (GOV)	Other (OTH)	Total	Annual Change
1980	593	2,309	2,902	14	340	12	35	1	3,304	
1981	597	2,335	2,932	14	336	13	36	1	3,332	28
1982	612	2,360	2,971	15	344	13	37	1	3,382	50
1983	635	2,364	2,998	15	353	13	38	2	3,419	37
1984	652	2,358	3,010	15	359	13	39	1	3,436	17
1985	664	2,492	3,156	16	361	12	41	1	3,586	150
1986	714	2,606	3,320	18	375	12	45	1	3,771	185
1987	725	2,642	3,368	21	385	12	49	1	3,835	64
1988	728	2,682	3,410	22	396	12	51	2	3,893	58
1989	734	2,719	3,453	26	402	12	54	2	3,948	55
1990	742	2,758	3,500	27	396	12	56	2	3,993	44
1991	760	2,825	3,585	33	392	12	56	2	4,080	87
1992	907	2,861	3,767	36	399	13	59	3	4,277	197
1993	1,085	2,844	3,928	36	407	13	62	5	4,450	173
1994	1,180	2,837	4,016	36	414	13	65	2	4,546	96
1995	1,265	2,829	4,095	37	424	15	71	2	4,643	97
1996	1,352	2,822	4,174	37	429	15	75	4	4,733	90
1997	1,458	2,817	4,275	38	434	16	77	2	4,843	110
1998	1,569	2,807	4,376	39	435	16	79	2	4,948	105
1999	1,629	2,800	4,430	39	447	17	82	5	5,020	71
2000	1,718	2,795	4,513	39	463	18	85	6	5,124	104
2001	1,765	2,788	4,553	41	468	19	88	3	5,172	49
2002	1,876	2,805	4,681	41	466	19	91	5	5,303	131
2003	2,042	2,778	4,820	41	464	19	93	8	5,444	141
2004	2,247	2,771	5,018	41	464	17	94	12	5,646	202
2005	2,389	2,771	5,161	41	469	17	97	10	5,795	149
2006	2,554	2,752	5,306	41	470	17	104	12	5,949	154
2007	2,622	2,733	5,354	41	468	17	105	12	5,998	49
2008	2,648	2,706	5,354	48	454	15	115	11	5,996	-2
2009	2,675	2,668	5,343	51	443	18	122	7	5,983	-12
2010	2,851	2,535	5,385	52	444	19	122	8	6,029	46
2011	3,126	2,296	5,422	56	439	20	121	5	6,064	35
2012	3,330	2,155	5,485	56	437	20	117	6	6,121	57
2013	3,472	2,059	5,531	56	439	20	118	5	6,169	48
2014	3,849	1,702	5,550	56	438	20	119	9	6,192	23
2015	4,341	1,233	5,574	57	438	20	119	8	6,216	24
5 Yr Avg.	3,624	1,889	5,512	56	438	20	119	7	6,152	37
10 Yr Avg.	3,147	2,284	5,430	51	447	19	116	8	6,072	42
15 Yr Avg.	2,786	2,450	5,236	48	453	18	108	8	5,872	73
20 Yr Avg.	2,476	2,540	5,015	46	450	18	101	7	5,637	79

Note: Reclassification occurred between categories from 2007 to 2009

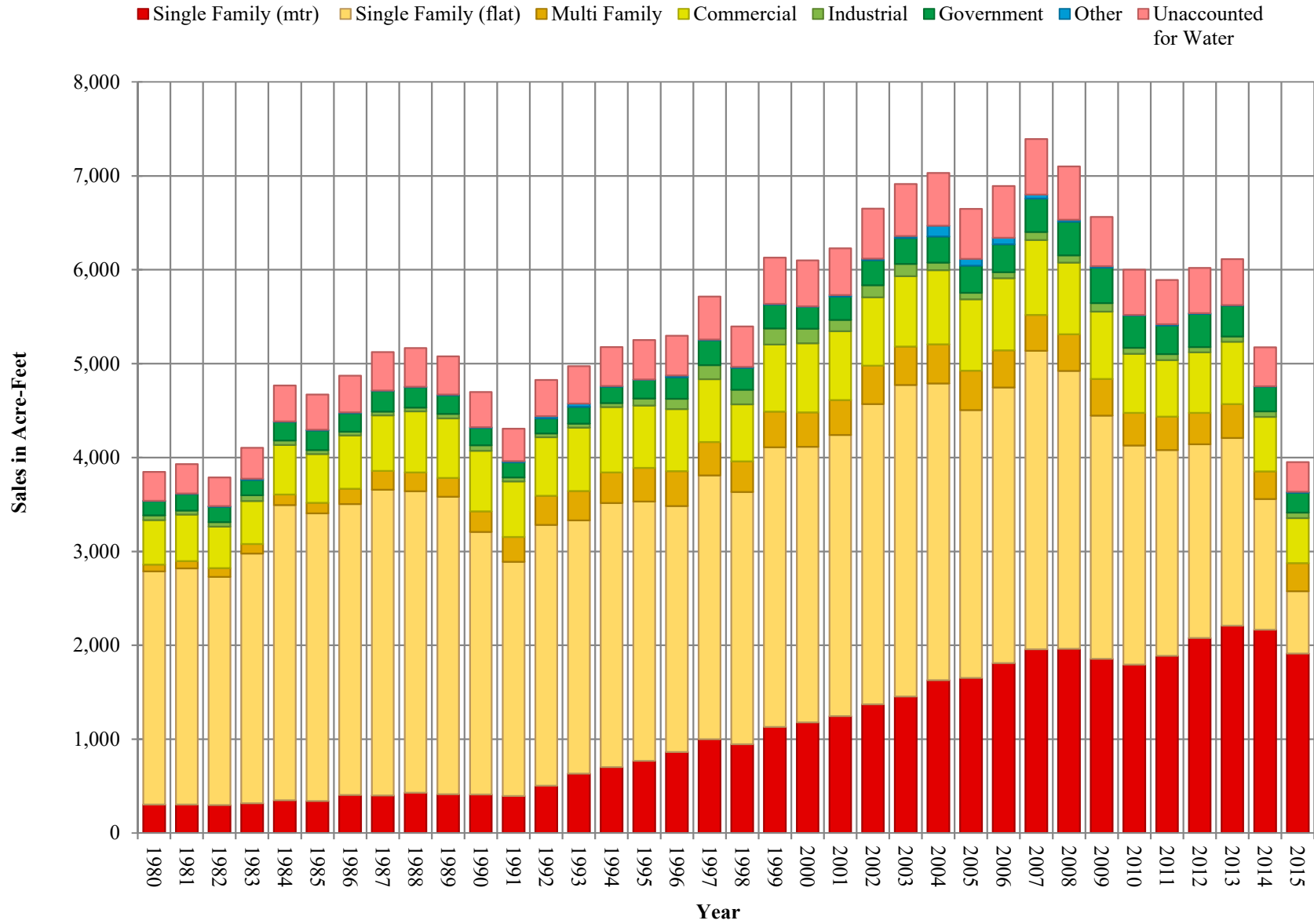
California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Service Growth Percentage

Year	Single Family (SFR)	Single Family (FLT)	Single Family (Total)	Multi Family (MFR)	Commercial (COM)	Industrial (IND)	Government (GOV)	Other (OTH)	Total
1981	0.67%	1.13%	1.04%	1.19%	-1.25%	10.34%	1.41%	28.57%	0.85%
1982	2.48%	1.04%	1.33%	5.88%	2.58%	0.62%	3.02%	22.22%	1.50%
1983	3.72%	0.18%	0.91%	0.00%	2.61%	-3.11%	1.80%	63.64%	1.09%
1984	2.72%	-0.24%	0.39%	0.00%	1.56%	-1.28%	2.65%	-33.33%	0.51%
1985	1.90%	5.65%	4.84%	6.67%	0.51%	-4.55%	5.39%	-41.67%	4.36%
1986	7.48%	4.58%	5.19%	13.54%	3.86%	-2.04%	11.04%	128.57%	5.16%
1987	1.60%	1.40%	1.45%	14.68%	2.83%	0.00%	7.55%	-25.00%	1.71%
1988	0.39%	1.50%	1.26%	6.40%	2.88%	0.00%	4.45%	83.33%	1.51%
1989	0.79%	1.39%	1.26%	17.29%	1.37%	-0.69%	6.23%	-4.55%	1.42%
1990	1.08%	1.41%	1.34%	5.13%	-1.37%	0.70%	2.93%	28.57%	1.12%
1991	2.46%	2.43%	2.43%	20.12%	-0.99%	0.00%	0.30%	3.70%	2.18%
1992	19.27%	1.27%	5.09%	9.64%	1.70%	6.25%	6.13%	14.29%	4.82%
1993	19.62%	-0.59%	4.28%	0.00%	1.92%	1.96%	3.94%	81.25%	4.06%
1994	8.78%	-0.25%	2.24%	0.46%	1.87%	0.00%	5.15%	-55.17%	2.16%
1995	7.24%	-0.25%	1.95%	1.84%	2.50%	12.18%	9.02%	7.69%	2.13%
1996	6.82%	-0.26%	1.93%	0.45%	1.02%	3.43%	6.62%	57.14%	1.94%
1997	7.87%	-0.17%	2.43%	3.60%	1.28%	4.97%	2.88%	-36.36%	2.32%
1998	7.65%	-0.38%	2.36%	1.74%	0.21%	3.16%	2.69%	3.57%	2.17%
1999	3.81%	-0.22%	1.23%	0.00%	2.60%	4.08%	3.57%	117.24%	1.44%
2000	5.46%	-0.19%	1.89%	0.85%	3.58%	4.90%	3.55%	7.94%	2.07%
2001	2.71%	-0.25%	0.88%	3.60%	1.28%	6.54%	3.23%	-39.71%	0.95%
2002	6.32%	0.60%	2.82%	0.61%	-0.48%	-0.88%	3.89%	48.78%	2.54%
2003	8.82%	-0.95%	2.97%	0.00%	-0.48%	-0.88%	2.19%	47.54%	2.66%
2004	10.06%	-0.25%	4.12%	0.00%	0.05%	-8.48%	0.63%	55.56%	3.71%
2005	6.34%	0.00%	2.84%	0.00%	0.99%	-0.49%	3.73%	-10.71%	2.64%
2006	6.89%	-0.69%	2.82%	0.00%	0.16%	-0.49%	6.59%	12.80%	2.65%
2007	2.65%	-0.70%	0.91%	0.81%	-0.35%	0.49%	1.44%	1.42%	0.82%
2008	1.01%	-0.99%	-0.01%	14.92%	-3.05%	-10.29%	8.70%	-9.79%	-0.04%
2009	1.01%	-1.40%	-0.21%	6.67%	-2.44%	19.67%	6.11%	-32.56%	-0.21%
2010	6.55%	-4.98%	0.79%	1.64%	0.30%	4.11%	0.14%	5.75%	0.77%
2011	9.68%	-9.44%	0.68%	8.74%	-1.05%	5.26%	-0.21%	-30.43%	0.58%
2012	6.51%	-6.12%	1.17%	0.00%	-0.44%	-1.67%	-3.71%	10.94%	0.94%
2013	4.26%	-4.46%	0.83%	0.00%	0.32%	0.42%	1.07%	-8.45%	0.78%
2014	10.85%	-17.35%	0.35%	0.00%	-0.06%	-1.27%	0.71%	58.46%	0.37%
2015	12.79%	-27.54%	0.42%	2.23%	-0.21%	2.56%	-0.07%	-2.91%	0.39%
5 Yr. Avg.	8.82%	-12.98%	0.69%	0.56%	-0.10%	2.03%	-0.44%	5.52%	0.61%
10 Yr. Avg.	6.22%	-7.37%	0.78%	0.67%	-0.04%	-0.11%	2.08%	0.52%	0.71%
15 Yr. Avg.	6.43%	-4.97%	1.43%	0.74%	0.09%	0.99%	2.30%	7.11%	1.30%
20 Yr. Avg.	6.40%	-3.79%	1.56%	0.91%	0.57%	2.04%	2.69%	12.81%	1.47%

Note: Values in red excluded from averages due to reclassification

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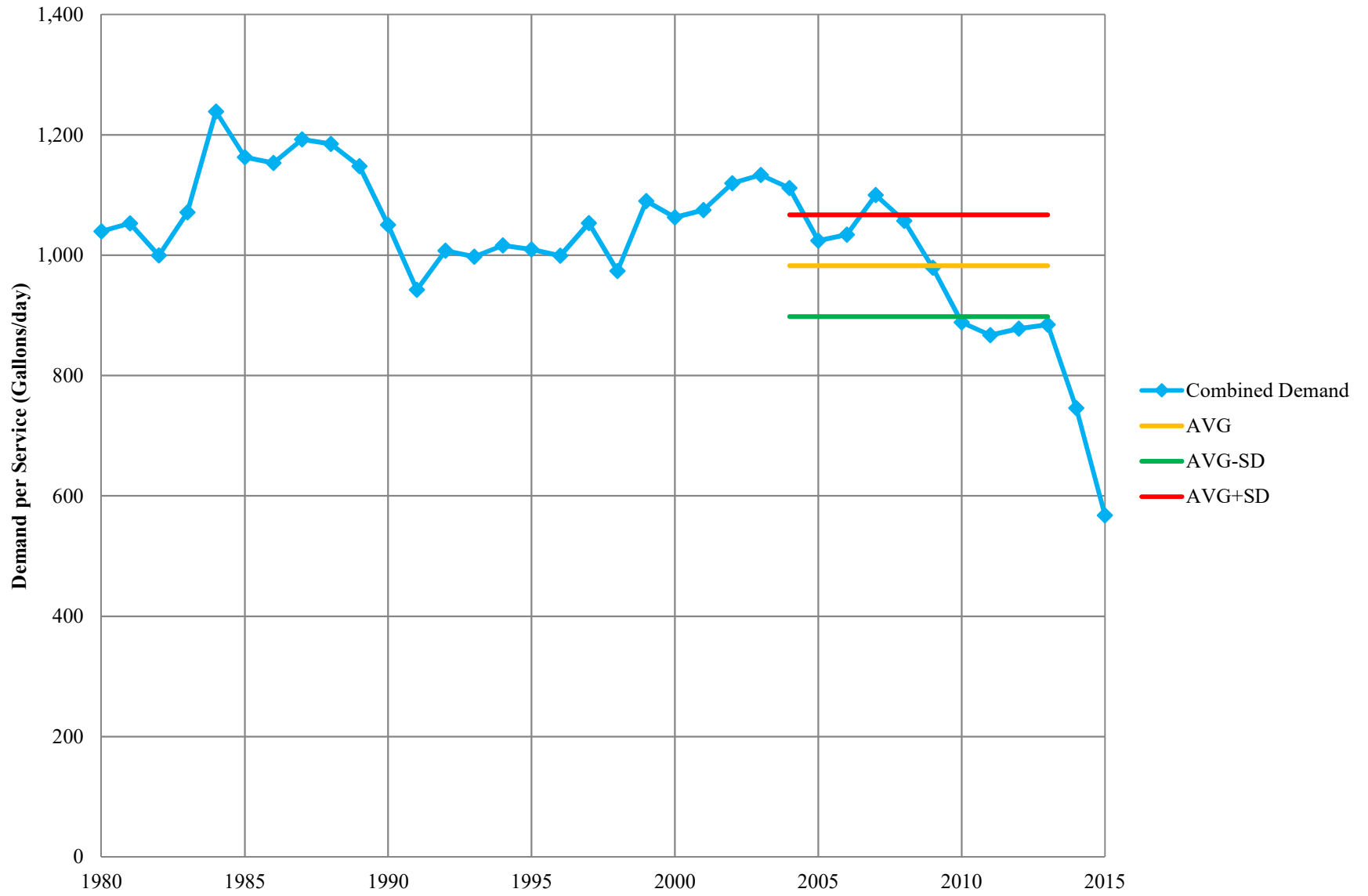
Historical Sales



California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Sales (AF)

Year	Single Family			Multi Family (MFR)	Commercial (COM)	Industrial (IND)	Government (GOV)	Other (OTH)	Unaccounted for Water (UAFW)	Total Sales (AF)	Total Demand (AF)	Total Demand (MGal)
	(SFR)	(FLT)	(Total)									
1980	303	2,484	2,787	72	473	52	152	3	308	3,540	3,848	1,254
1981	303	2,515	2,818	79	493	44	177	4	314	3,616	3,930	1,281
1982	300	2,429	2,730	93	441	49	163	8	303	3,484	3,787	1,234
1983	319	2,658	2,978	102	457	62	163	13	328	3,774	4,103	1,337
1984	351	3,143	3,494	113	527	47	199	6	381	4,386	4,767	1,553
1985	341	3,064	3,405	112	521	42	209	8	374	4,297	4,670	1,522
1986	405	3,099	3,505	162	568	42	197	9	390	4,481	4,871	1,587
1987	402	3,256	3,658	198	593	40	218	6	410	4,713	5,123	1,669
1988	429	3,210	3,640	203	648	41	216	6	413	4,754	5,167	1,684
1989	413	3,169	3,582	201	634	49	196	9	406	4,671	5,077	1,654
1990	412	2,795	3,207	220	645	58	185	7	376	4,322	4,698	1,531
1991	397	2,492	2,889	264	592	43	160	15	345	3,962	4,307	1,403
1992	504	2,779	3,283	310	622	40	161	23	386	4,440	4,826	1,573
1993	633	2,698	3,331	312	676	41	179	37	398	4,576	4,973	1,621
1994	703	2,813	3,516	326	694	43	175	7	414	4,761	5,175	1,686
1995	769	2,762	3,531	359	664	74	202	2	420	4,832	5,252	1,711
1996	864	2,618	3,482	372	660	110	232	17	424	4,873	5,297	1,726
1997	1,001	2,809	3,810	356	667	151	265	7	457	5,257	5,714	1,862
1998	946	2,687	3,633	327	607	154	234	10	432	4,965	5,397	1,759
1999	1,131	2,978	4,109	380	713	171	254	10	490	5,638	6,128	1,997
2000	1,178	2,937	4,116	366	734	157	232	7	488	5,611	6,099	1,987
2001	1,246	2,994	4,240	371	735	118	250	15	498	5,730	6,228	2,029
2002	1,373	3,197	4,570	408	728	128	269	17	532	6,120	6,652	2,167
2003	1,455	3,317	4,771	411	749	131	275	22	553	6,359	6,912	2,252
2004	1,629	3,159	4,787	418	791	79	279	114	563	6,469	7,032	2,291
2005	1,653	2,853	4,506	418	760	70	290	72	532	6,116	6,648	2,166
2006	1,812	2,935	4,746	396	767	65	298	69	551	6,341	6,893	2,246
2007	1,957	3,178	5,135	385	795	88	355	41	591	6,800	7,391	2,408
2008	1,963	2,960	4,923	390	764	77	359	20	568	6,532	7,100	2,314
2009	1,855	2,590	4,445	392	717	91	377	16	525	6,038	6,563	2,139
2010	1,795	2,332	4,127	349	628	64	345	6	480	5,520	6,000	1,955
2011	1,890	2,190	4,079	356	603	64	305	12	471	5,419	5,891	1,919
2012	2,079	2,062	4,141	335	643	58	352	8	482	5,537	6,019	1,961
2013	2,210	1,997	4,207	363	664	56	329	5	489	5,624	6,113	1,992
2014	2,167	1,391	3,558	293	581	61	264	3	414	4,760	5,173	1,686
2015	1,914	662	2,576	299	481	57.7	211	12	316	3,636	3,952	1,288

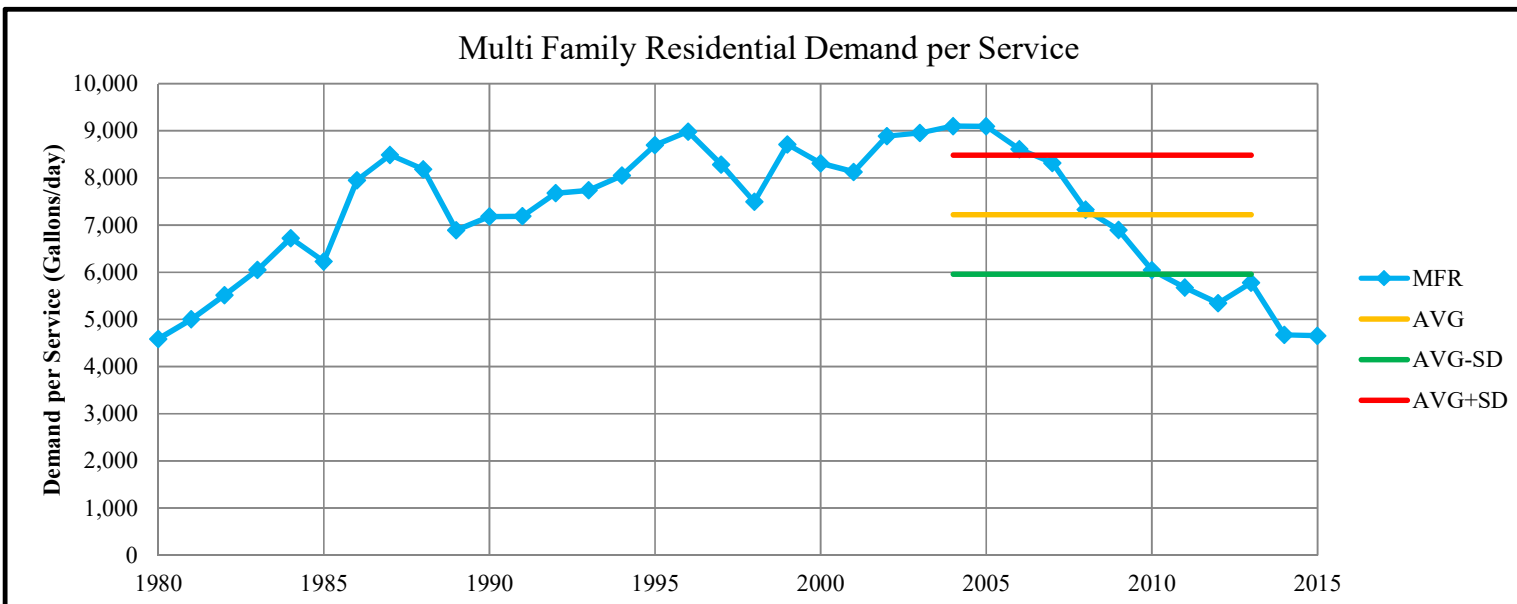
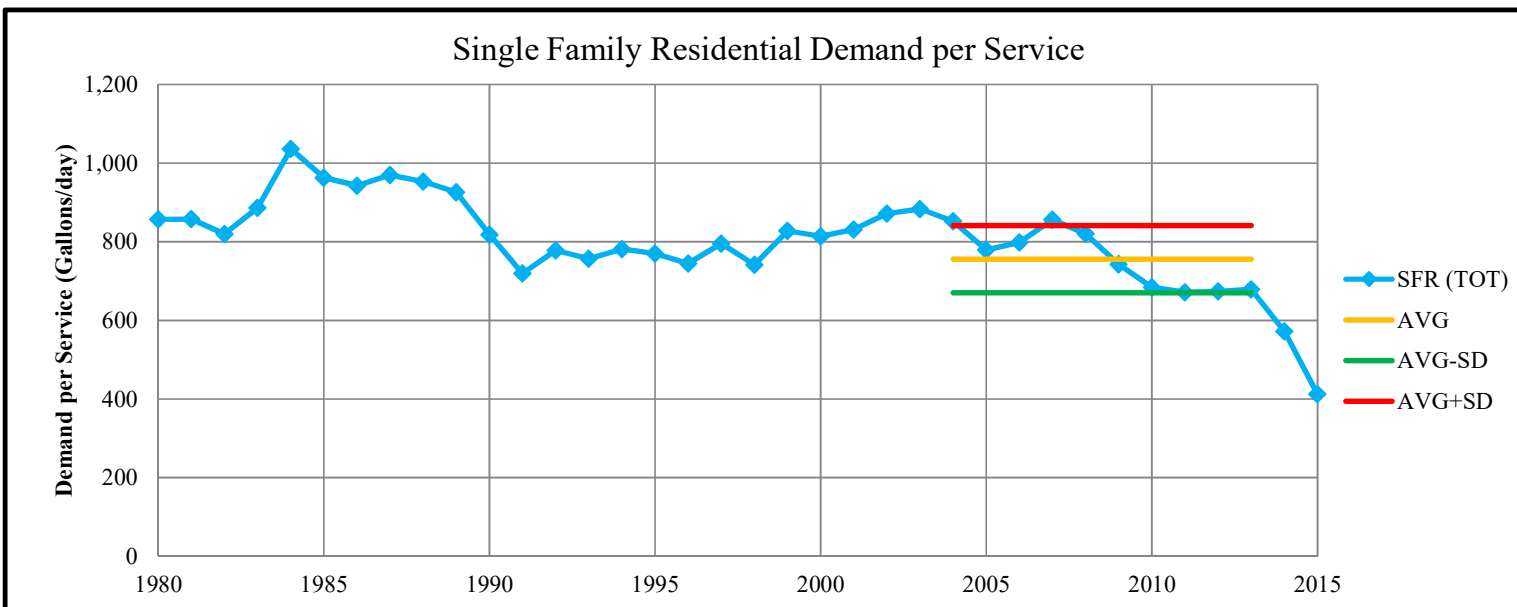
Combined Demand per Service

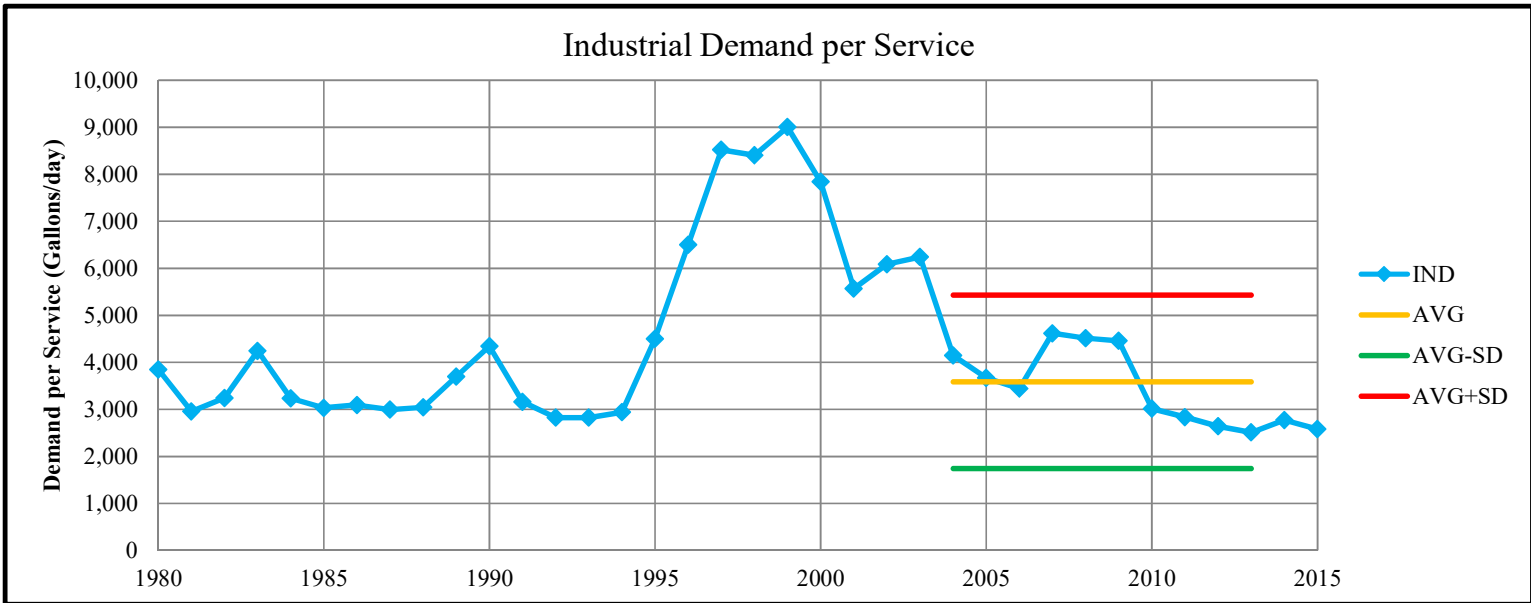
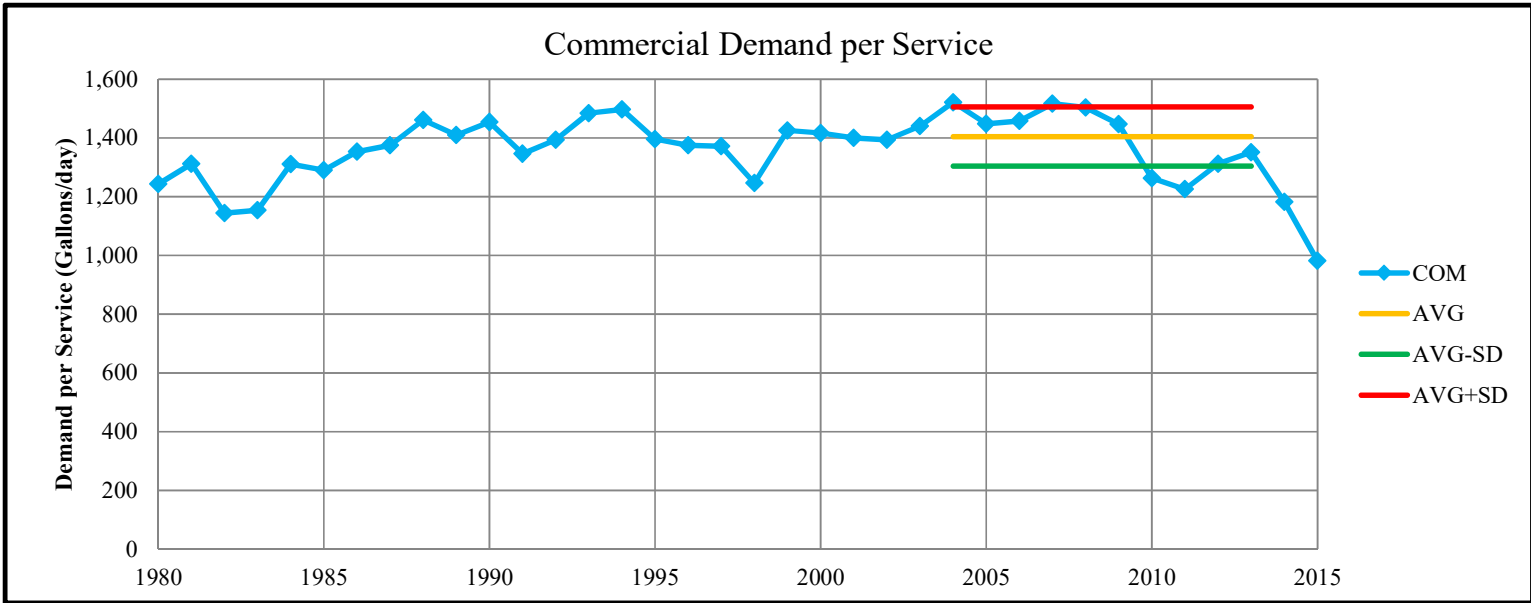


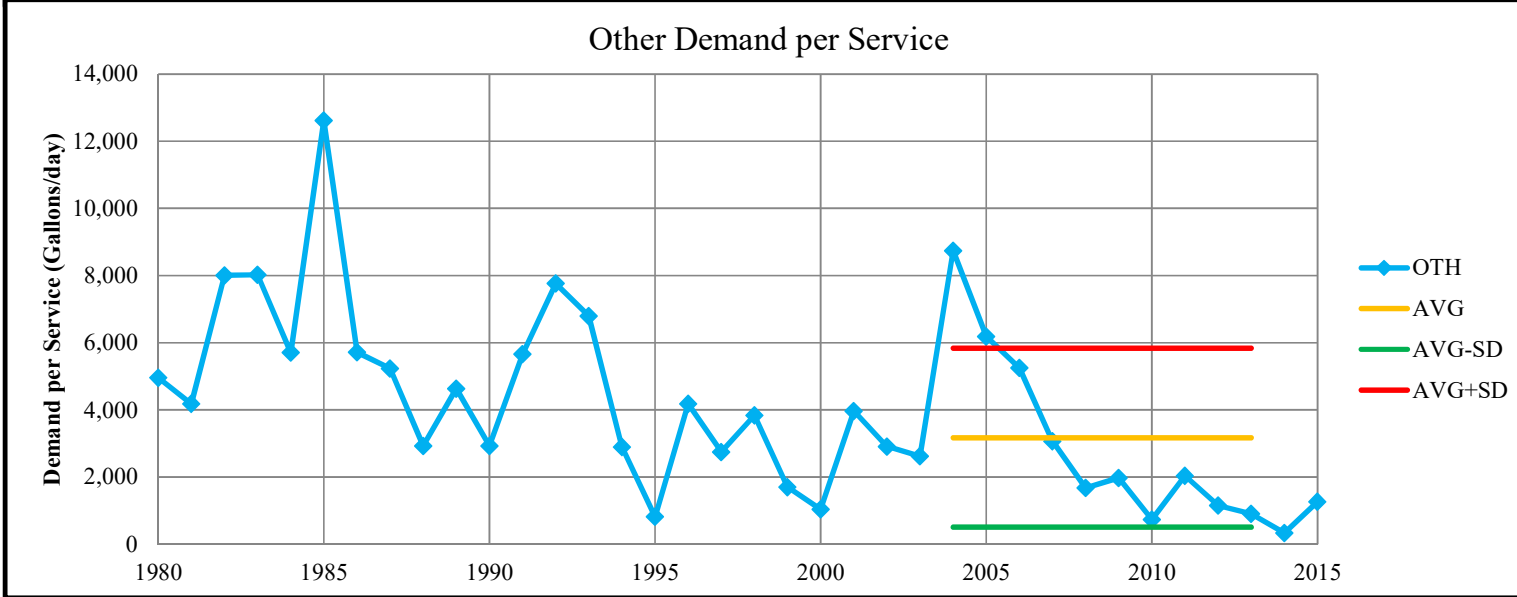
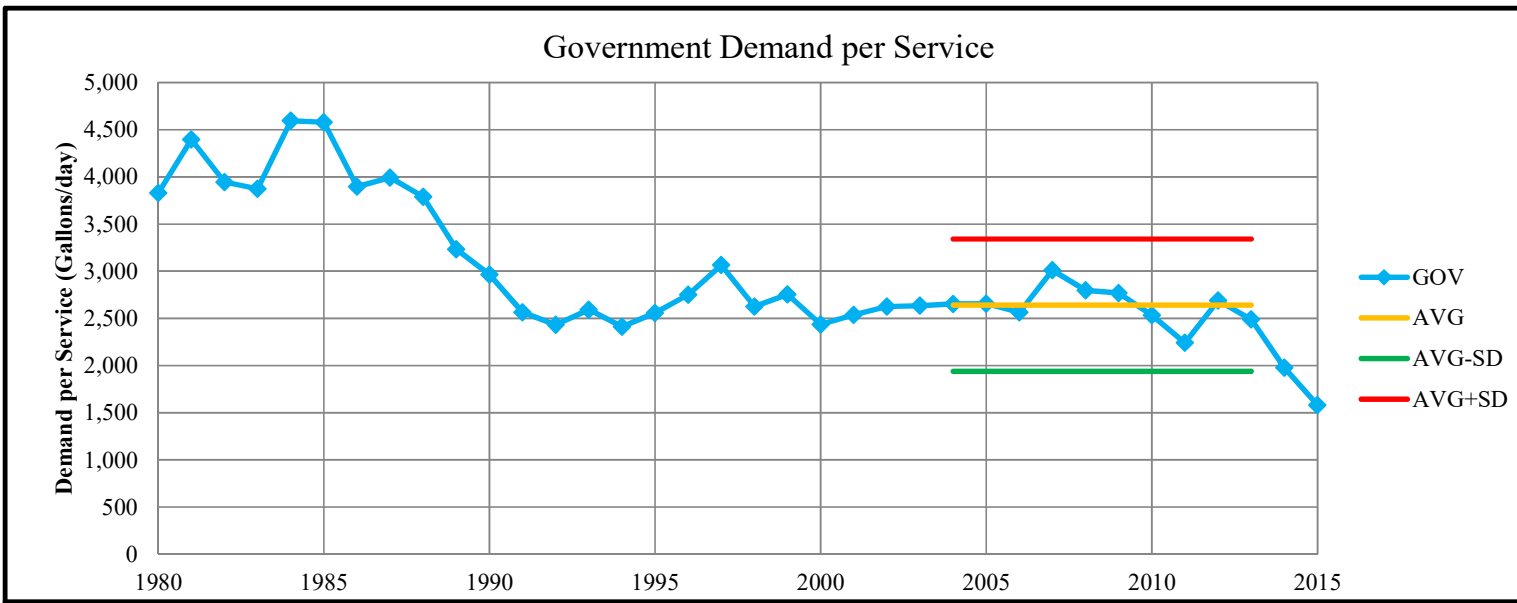
California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Demand per Service (Gallons per Day)

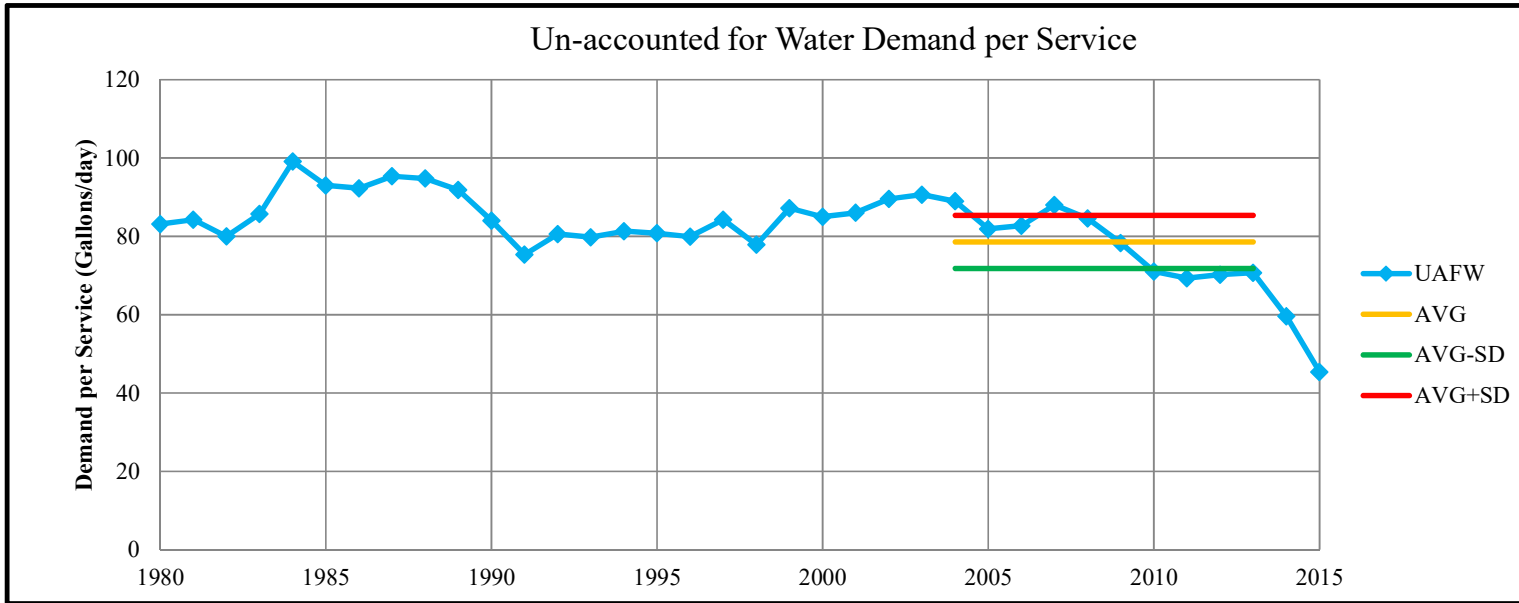
Year	SFR (MTR)	SFR (FLT)	SFR (TOT)	MFR	COM	IND	GOV	OTH	UAFW	Combined Demand/Serv
1980	457	960	857	4,588	1,244	3,847	3,830	4,957	83	1,040
1981	453	962	858	5,003	1,312	2,956	4,398	4,178	84	1,053
1982	438	919	820	5,516	1,144	3,243	3,944	8,009	80	1,000
1983	449	1,004	887	6,052	1,154	4,243	3,874	8,026	86	1,071
1984	481	1,190	1,036	6,728	1,311	3,238	4,596	5,708	99	1,239
1985	459	1,098	963	6,230	1,290	3,035	4,580	12,616	93	1,163
1986	507	1,062	942	7,952	1,353	3,095	3,895	5,718	92	1,153
1987	495	1,100	970	8,493	1,375	2,996	3,994	5,236	95	1,193
1988	526	1,069	953	8,183	1,461	3,045	3,788	2,932	95	1,185
1989	502	1,040	926	6,891	1,410	3,698	3,233	4,634	92	1,148
1990	495	905	818	7,186	1,454	4,342	2,966	2,928	84	1,050
1991	466	788	719	7,190	1,347	3,162	2,566	5,668	75	942
1992	497	867	778	7,678	1,393	2,825	2,432	7,768	81	1,007
1993	521	847	757	7,741	1,484	2,826	2,592	6,794	80	998
1994	532	885	782	8,051	1,497	2,943	2,412	2,895	81	1,016
1995	543	872	770	8,696	1,396	4,505	2,559	815	81	1,010
1996	571	828	745	8,985	1,375	6,501	2,750	4,180	80	999
1997	613	890	796	8,282	1,372	8,524	3,065	2,751	84	1,053
1998	538	855	741	7,495	1,246	8,406	2,626	3,833	78	974
1999	620	949	828	8,709	1,426	9,006	2,754	1,700	87	1,090
2000	612	938	814	8,312	1,417	7,839	2,436	1,040	85	1,063
2001	630	959	831	8,130	1,401	5,567	2,538	3,966	86	1,075
2002	654	1,017	872	8,886	1,394	6,091	2,627	2,914	90	1,120
2003	636	1,066	884	8,955	1,441	6,242	2,634	2,618	91	1,133
2004	647	1,018	852	9,103	1,521	4,150	2,654	8,739	89	1,112
2005	618	919	780	9,097	1,448	3,670	2,655	6,185	82	1,024
2006	633	952	799	8,614	1,458	3,442	2,566	5,250	83	1,034
2007	666	1,038	856	8,320	1,517	4,621	3,011	3,061	88	1,100
2008	662	977	821	7,330	1,504	4,514	2,796	1,675	85	1,057
2009	619	867	743	6,899	1,447	4,459	2,768	1,979	78	979
2010	562	821	684	6,045	1,263	3,012	2,533	735	71	888
2011	540	852	672	5,675	1,226	2,839	2,242	2,037	69	867
2012	557	854	674	5,347	1,312	2,637	2,691	1,150	70	878
2013	568	866	679	5,780	1,351	2,510	2,488	900	71	885
2014	503	730	572	4,674	1,183	2,774	1,978	334	60	746
2015	394	479	413	4,655	982	2,577	1,582	1,264	45	568
10-yr AVG	607	916	756	7,221	1,405	3,585	2,640	3,171	79	983
SD	73	97	86	1,260	101	1,845	701	2,667	7	85

Note: Average calculated based on last three years due to sharp downward trend.









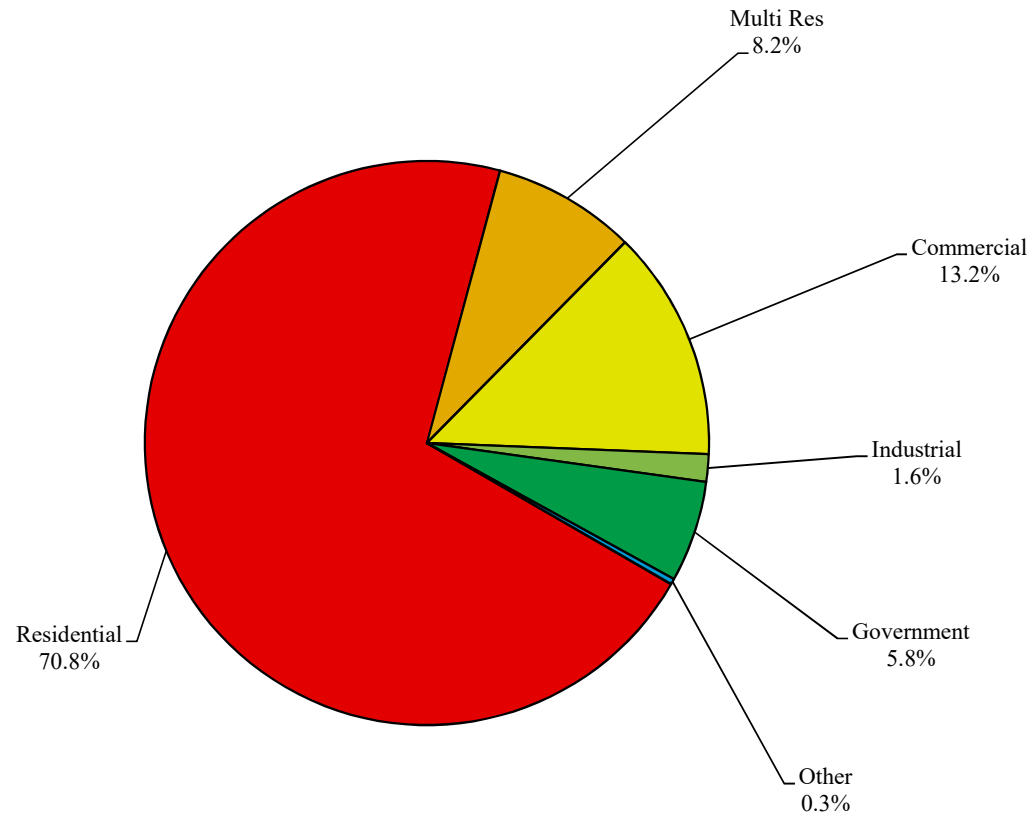
California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Percentage Change in Annual Demand

Worksheet 5

Year	Residential	Multi Res	Commercial	Industrial	Government	Other	Unaccounted	Total
1981	-0.04%	10.34%	4.21%	-15.22%	16.45%	8.36%	2.15%	2.15%
1982	-1.06%	16.74%	-10.55%	10.42%	-7.63%	134.27%	-3.65%	-3.65%
1983	6.34%	9.71%	3.45%	26.77%	0.00%	63.99%	8.34%	8.34%
1984	10.12%	11.16%	15.43%	-24.68%	21.78%	-52.59%	16.20%	16.20%
1985	-2.83%	-1.22%	-1.13%	-10.53%	5.02%	28.94%	-2.03%	-2.03%
1986	18.73%	44.93%	8.93%	-0.11%	-5.55%	3.59%	4.30%	4.30%
1987	-0.84%	22.47%	4.47%	-3.17%	10.27%	-31.32%	5.17%	5.17%
1988	6.82%	2.52%	9.33%	1.63%	-0.93%	2.66%	0.86%	0.86%
1989	-3.80%	-1.22%	-2.13%	20.59%	-9.34%	50.86%	-1.74%	-1.74%
1990	-0.35%	9.62%	1.70%	18.24%	-5.57%	-18.78%	-7.46%	-7.46%
1991	-3.66%	20.20%	-8.32%	-27.16%	-13.23%	100.78%	-8.33%	-8.33%
1992	27.22%	17.08%	5.21%	-5.09%	0.60%	56.62%	12.05%	12.05%
1993	25.44%	0.82%	8.61%	2.00%	10.77%	58.53%	3.05%	3.05%
1994	11.14%	4.48%	2.75%	4.12%	-2.17%	-80.90%	4.06%	4.06%
1995	9.36%	10.00%	-4.43%	71.75%	15.68%	-69.68%	1.47%	1.47%
1996	12.32%	3.79%	-0.54%	49.24%	14.60%	705.93%	0.87%	0.87%
1997	15.88%	-4.50%	1.09%	37.63%	14.65%	-58.12%	7.87%	7.87%
1998	-5.54%	-7.93%	-9.00%	1.74%	-12.00%	44.32%	-5.54%	-5.54%
1999	19.58%	16.20%	17.43%	11.51%	8.60%	-3.65%	13.54%	13.54%
2000	4.20%	-3.74%	2.92%	-8.70%	-8.41%	-33.98%	-0.47%	-0.47%
2001	5.76%	1.34%	0.12%	-24.34%	7.54%	129.98%	2.11%	2.11%
2002	10.21%	9.96%	-0.99%	8.46%	7.52%	9.32%	6.80%	6.80%
2003	5.92%	0.78%	2.89%	1.57%	2.48%	32.54%	3.92%	3.92%
2004	11.98%	1.65%	5.65%	-39.16%	1.39%	419.31%	1.73%	1.73%
2005	1.49%	-0.06%	-3.86%	-11.98%	3.76%	-36.82%	-5.46%	-5.46%
2006	9.58%	-5.31%	0.83%	-6.67%	3.00%	-4.25%	3.68%	3.68%
2007	8.03%	-2.63%	3.69%	34.89%	19.07%	-40.87%	7.23%	7.23%
2008	0.29%	1.25%	-3.89%	-12.36%	0.92%	-50.65%	-3.93%	-3.93%
2009	-5.46%	0.39%	-6.11%	18.20%	5.06%	-20.32%	-7.57%	-7.57%
2010	-3.26%	-10.94%	-12.46%	-29.68%	-8.37%	-60.72%	-8.59%	-8.59%
2011	5.28%	2.10%	-3.97%	-0.77%	-11.65%	92.83%	-1.82%	-1.82%
2012	10.04%	-5.78%	6.56%	-8.65%	15.55%	-37.37%	2.18%	2.18%
2013	6.30%	8.10%	3.32%	-4.43%	-6.53%	-28.34%	1.57%	1.57%
2014	-1.94%	-19.14%	-12.53%	9.12%	-19.94%	-41.15%	-15.37%	-15.37%
2015	-11.70%	1.83%	-17.17%	-4.74%	-20.08%	267.00%	-23.61%	-23.61%

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Percent of Total Sales by Type of Use (2015)

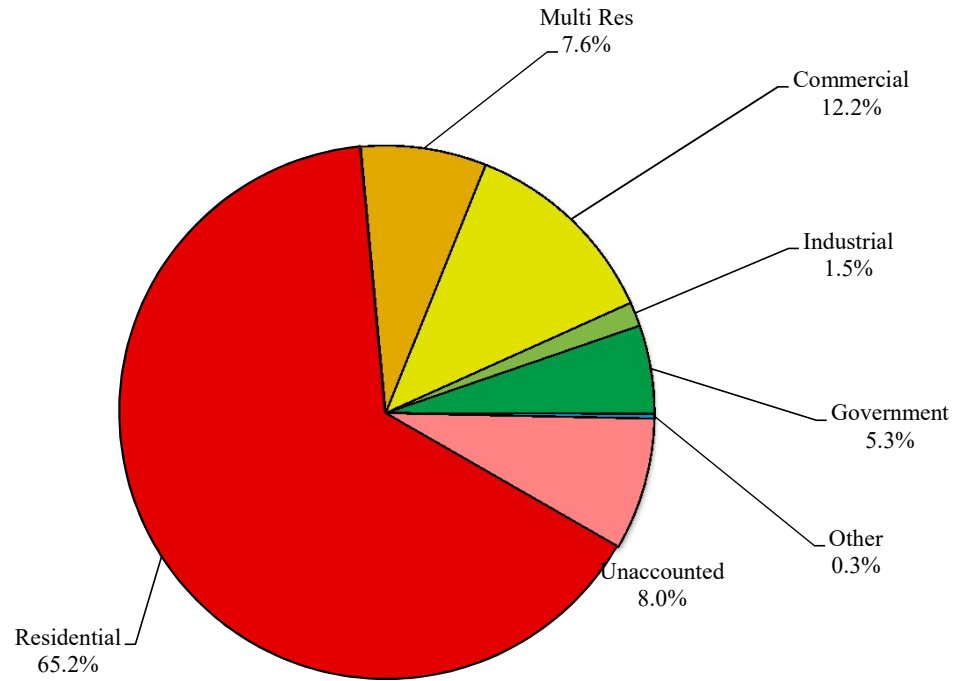


California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Percentage of Total Sales

Worksheet 6

Year	Residential	Multi Res	Commercial	Industrial	Government	Other	Percent Total
1980	78.74%	2.03%	13.37%	1.47%	4.29%	0.09%	100.00%
1981	77.95%	2.20%	13.64%	1.22%	4.89%	0.10%	100.00%
1982	78.35%	2.66%	12.67%	1.40%	4.69%	0.24%	100.00%
1983	78.89%	2.69%	12.09%	1.64%	4.33%	0.36%	100.00%
1984	79.66%	2.58%	12.02%	1.06%	4.54%	0.15%	100.00%
1985	79.25%	2.60%	12.13%	0.97%	4.87%	0.19%	100.00%
1986	78.20%	3.61%	12.66%	0.93%	4.41%	0.19%	100.00%
1987	77.62%	4.20%	12.58%	0.85%	4.62%	0.12%	100.00%
1988	76.56%	4.27%	13.64%	0.86%	4.54%	0.13%	100.00%
1989	76.68%	4.30%	13.58%	1.06%	4.19%	0.19%	100.00%
1990	74.19%	5.09%	14.93%	1.35%	4.27%	0.17%	100.00%
1991	72.91%	6.67%	14.93%	1.07%	4.04%	0.37%	100.00%
1992	73.95%	6.97%	14.02%	0.91%	3.63%	0.52%	100.00%
1993	72.80%	6.82%	14.77%	0.90%	3.90%	0.80%	100.00%
1994	73.85%	6.85%	14.59%	0.90%	3.67%	0.15%	100.00%
1995	73.09%	7.43%	13.74%	1.52%	4.18%	0.04%	100.00%
1996	71.45%	7.64%	13.55%	2.25%	4.75%	0.35%	100.00%
1997	72.48%	6.76%	12.69%	2.88%	5.05%	0.14%	100.00%
1998	73.16%	6.59%	12.23%	3.10%	4.71%	0.21%	100.00%
1999	72.88%	6.75%	12.65%	3.04%	4.50%	0.18%	100.00%
2000	73.34%	6.53%	13.08%	2.79%	4.14%	0.12%	100.00%
2001	74.00%	6.48%	12.83%	2.07%	4.36%	0.26%	100.00%
2002	74.68%	6.67%	11.89%	2.10%	4.39%	0.27%	100.00%
2003	75.03%	6.47%	11.77%	2.05%	4.33%	0.35%	100.00%
2004	74.00%	6.46%	12.23%	1.23%	4.32%	1.77%	100.00%
2005	73.68%	6.83%	12.43%	1.14%	4.74%	1.18%	100.00%
2006	74.85%	6.24%	12.09%	1.03%	4.71%	1.09%	100.00%
2007	75.52%	5.67%	11.69%	1.29%	5.23%	0.60%	100.00%
2008	75.36%	5.97%	11.70%	1.18%	5.49%	0.31%	100.00%
2009	73.62%	6.48%	11.88%	1.51%	6.24%	0.27%	100.00%
2010	74.78%	6.32%	11.38%	1.16%	6.25%	0.11%	100.00%
2011	75.28%	6.57%	11.13%	1.17%	5.63%	0.22%	100.00%
2012	74.79%	6.06%	11.61%	1.05%	6.36%	0.14%	100.00%
2013	74.81%	6.45%	11.81%	0.99%	5.86%	0.10%	100.00%
2014	74.76%	6.16%	12.20%	1.27%	5.54%	0.07%	100.00%
2015	70.85%	8.21%	13.23%	1.59%	5.80%	0.32%	100.00%

Percent of Total Demand by Type of Use (2015)

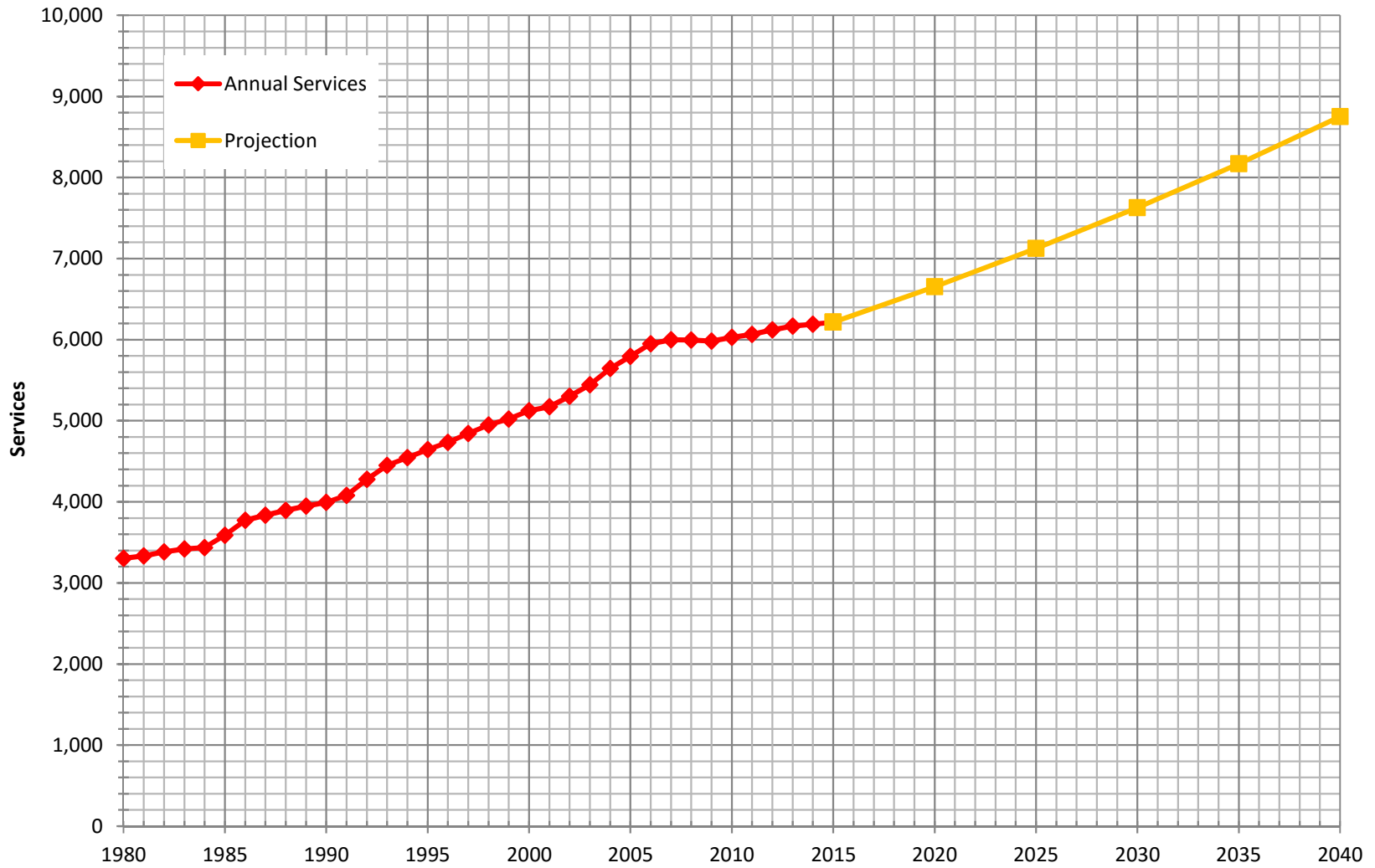


California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Percentage of Total Demand

Worksheet 7

Year	Residential	Multi Res	Commercial	Industrial	Government	Other	Unaccounted	Percent Total
1980	72.44%	1.87%	12.30%	1.35%	3.95%	0.08%	8.00%	100.00%
1981	71.71%	2.02%	12.55%	1.12%	4.50%	0.09%	8.00%	100.00%
1982	72.08%	2.45%	11.65%	1.29%	4.32%	0.22%	8.00%	100.00%
1983	72.58%	2.48%	11.13%	1.51%	3.98%	0.33%	8.00%	100.00%
1984	73.29%	2.37%	11.05%	0.98%	4.18%	0.13%	8.00%	100.00%
1985	72.91%	2.39%	11.16%	0.89%	4.48%	0.18%	8.00%	100.00%
1986	71.94%	3.32%	11.65%	0.85%	4.05%	0.18%	8.00%	100.00%
1987	71.41%	3.87%	11.57%	0.79%	4.25%	0.11%	8.00%	100.00%
1988	70.44%	3.93%	12.55%	0.79%	4.17%	0.12%	8.00%	100.00%
1989	70.55%	3.95%	12.50%	0.97%	3.85%	0.18%	8.00%	100.00%
1990	68.25%	4.68%	13.73%	1.24%	3.93%	0.16%	8.00%	100.00%
1991	67.08%	6.14%	13.73%	0.99%	3.72%	0.34%	8.00%	100.00%
1992	68.03%	6.42%	12.89%	0.84%	3.34%	0.48%	8.00%	100.00%
1993	66.98%	6.28%	13.59%	0.83%	3.59%	0.74%	8.00%	100.00%
1994	67.94%	6.30%	13.42%	0.83%	3.38%	0.14%	8.00%	100.00%
1995	67.24%	6.83%	12.64%	1.40%	3.85%	0.04%	8.00%	100.00%
1996	65.74%	7.03%	12.46%	2.07%	4.37%	0.32%	8.00%	100.00%
1997	66.68%	6.22%	11.68%	2.65%	4.65%	0.13%	8.00%	100.00%
1998	67.31%	6.07%	11.25%	2.85%	4.33%	0.19%	8.00%	100.00%
1999	67.05%	6.21%	11.64%	2.80%	4.14%	0.16%	8.00%	100.00%
2000	67.48%	6.00%	12.03%	2.57%	3.81%	0.11%	8.00%	100.00%
2001	68.08%	5.96%	11.80%	1.90%	4.01%	0.24%	8.00%	100.00%
2002	68.70%	6.14%	10.94%	1.93%	4.04%	0.25%	8.00%	100.00%
2003	69.03%	5.95%	10.83%	1.89%	3.98%	0.32%	8.00%	100.00%
2004	68.08%	5.95%	11.25%	1.13%	3.97%	1.62%	8.00%	100.00%
2005	67.78%	6.28%	11.44%	1.05%	4.36%	1.09%	8.00%	100.00%
2006	68.86%	5.74%	11.12%	0.95%	4.33%	1.00%	8.00%	100.00%
2007	69.48%	5.21%	10.76%	1.19%	4.81%	0.55%	8.00%	100.00%
2008	69.33%	5.49%	10.76%	1.09%	5.05%	0.28%	8.00%	100.00%
2009	67.73%	5.97%	10.93%	1.39%	5.74%	0.24%	8.00%	100.00%
2010	68.79%	5.81%	10.47%	1.07%	5.75%	0.11%	8.00%	100.00%
2011	69.25%	6.04%	10.24%	1.08%	5.18%	0.21%	8.00%	100.00%
2012	68.80%	5.57%	10.68%	0.97%	5.85%	0.13%	8.00%	100.00%
2013	68.82%	5.93%	10.86%	0.91%	5.39%	0.09%	8.00%	100.00%
2014	68.78%	5.67%	11.23%	1.17%	5.10%	0.06%	8.00%	100.00%
2015	65.18%	7.55%	12.17%	1.46%	5.33%	0.30%	8.00%	100.00%

Historical & Projected Services

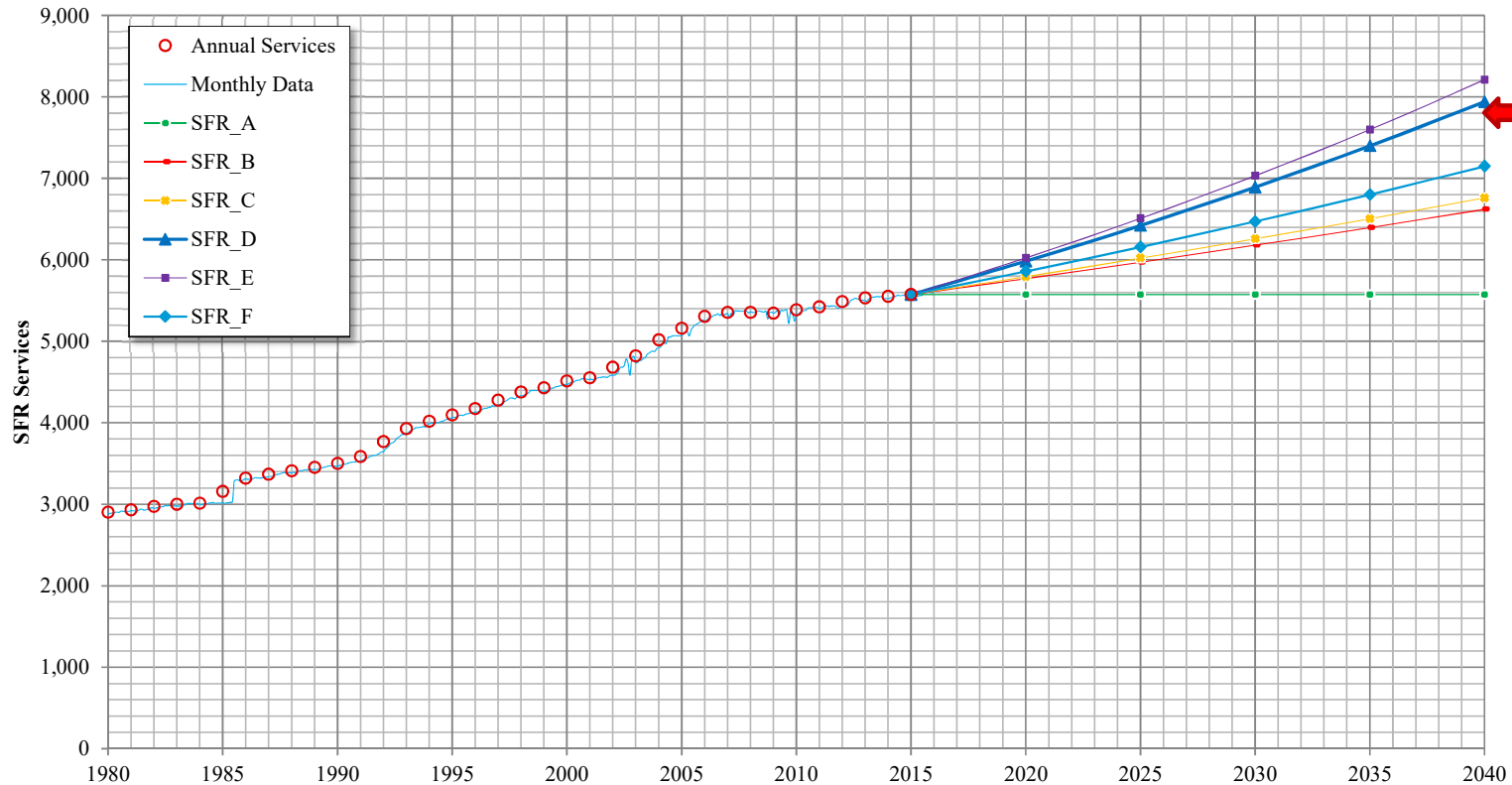


**California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections**

Customer Category	Selected Trend	Growth Rate	Actual Services				Projected Services					
			2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_D 15 Yr. Avg.	1.43%	4,513	5,161	5,385	5,574	5,574	5,982	6,421	6,892	7,397	7,940
MFR	MFR_D 15 Yr. Avg.	0.74%	39	41	52	57	57	59	62	64	66	69
COM	COM_E 20 Yr. Avg.	0.57%	463	469	444	438	438	450	463	477	491	505
IND	IND_E 20 Yr. Avg.	1.00%	18	17	19	20	20	21	22	23	24	26
GOV	GOV_C 10 Yr. Avg.	2.08%	85	97	122	119	119	132	146	162	179	199
OTH	OTH_C 0.02	2.00%	6	10	8	8	8	9	10	11	12	14
TOTAL	Average growth rate 2012-2040	1.38%	5,124	5,795	6,029	6,216	6,216	6,654	7,124	7,629	8,171	8,752

Notes:

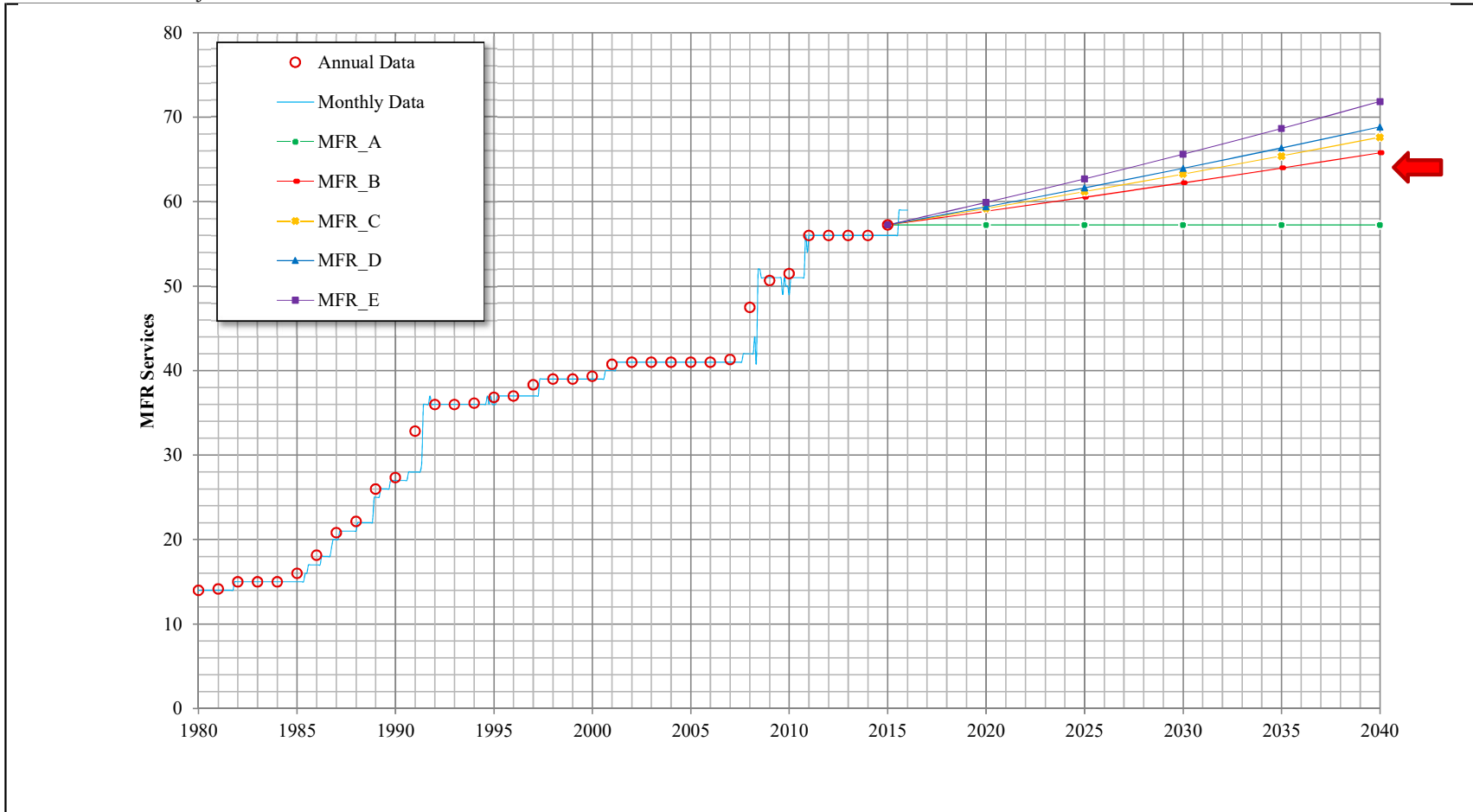
California Water Service Company - Selma District Water Supply and Demand Analysis and Projections SFR Historical & Projected Services



Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
SFR	SFR_A	Zero Growth Rate	4,513	5,161	5,385	5,574	5,574	5,574	5,574	5,574	5,574	5,574
	SFR_B	5 Yr. Avg.				5,574	5,574	5,769	5,971	6,179	6,395	6,619
	SFR_C	10 Yr. Avg.				5,574	5,574	5,793	6,021	6,258	6,504	6,760
	> SFR_D	15 Yr. Avg.				5,574	5,574	5,982	6,421	6,892	7,397	7,940
	SFR_E	20 Yr. Avg.				5,574	5,574	6,023	6,508	7,032	7,598	8,210
	SFR_F	1% Growth Rate				5,574	5,574	5,858	6,157	6,471	6,801	7,148

California Water Service Company - Selma District Water Supply and Demand Analysis and Projections

MFR Historical & Projected Services

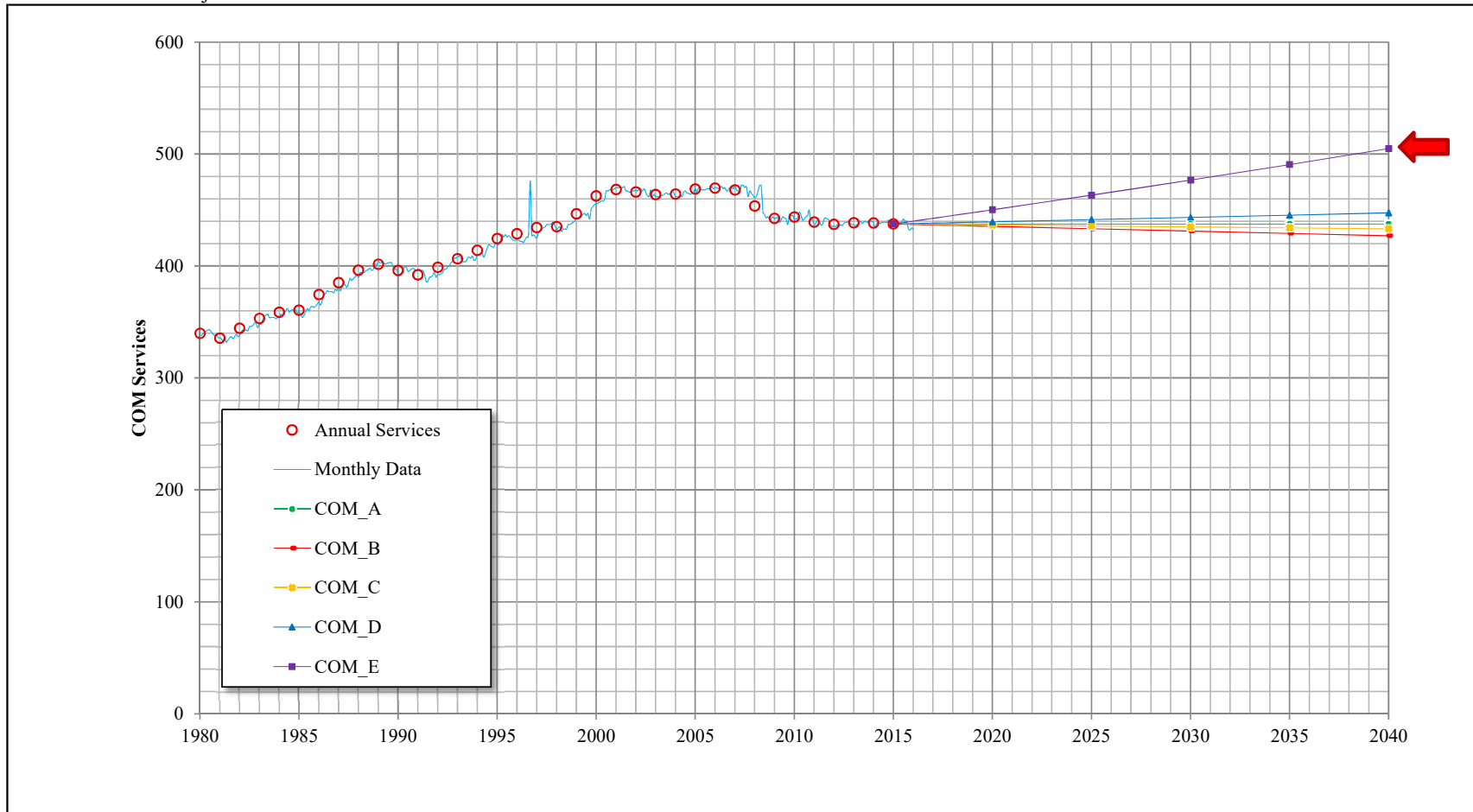


Customer Category	Trend	Growth Rate	Actual			Base Year 2015	Projected					
			2000	2005	2010		Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
MFR	MFR_A	Zero Growth Rate	39	41	52	57	57	57	57	57	57	57
	MFR_B	5 Yr. Avg.				57	57	59	61	62	64	66
	MFR_C	10 Yr. Avg.				57	57	59	61	63	65	68
	> MFR_D	15 Yr. Avg.				57	57	59	62	64	66	69
	MFR_E	20 Yr. Avg.				57	57	60	63	66	69	72

California Water Service Company - Selma District

Water Supply and Demand Analysis and Projections

COM Historical & Projected Services



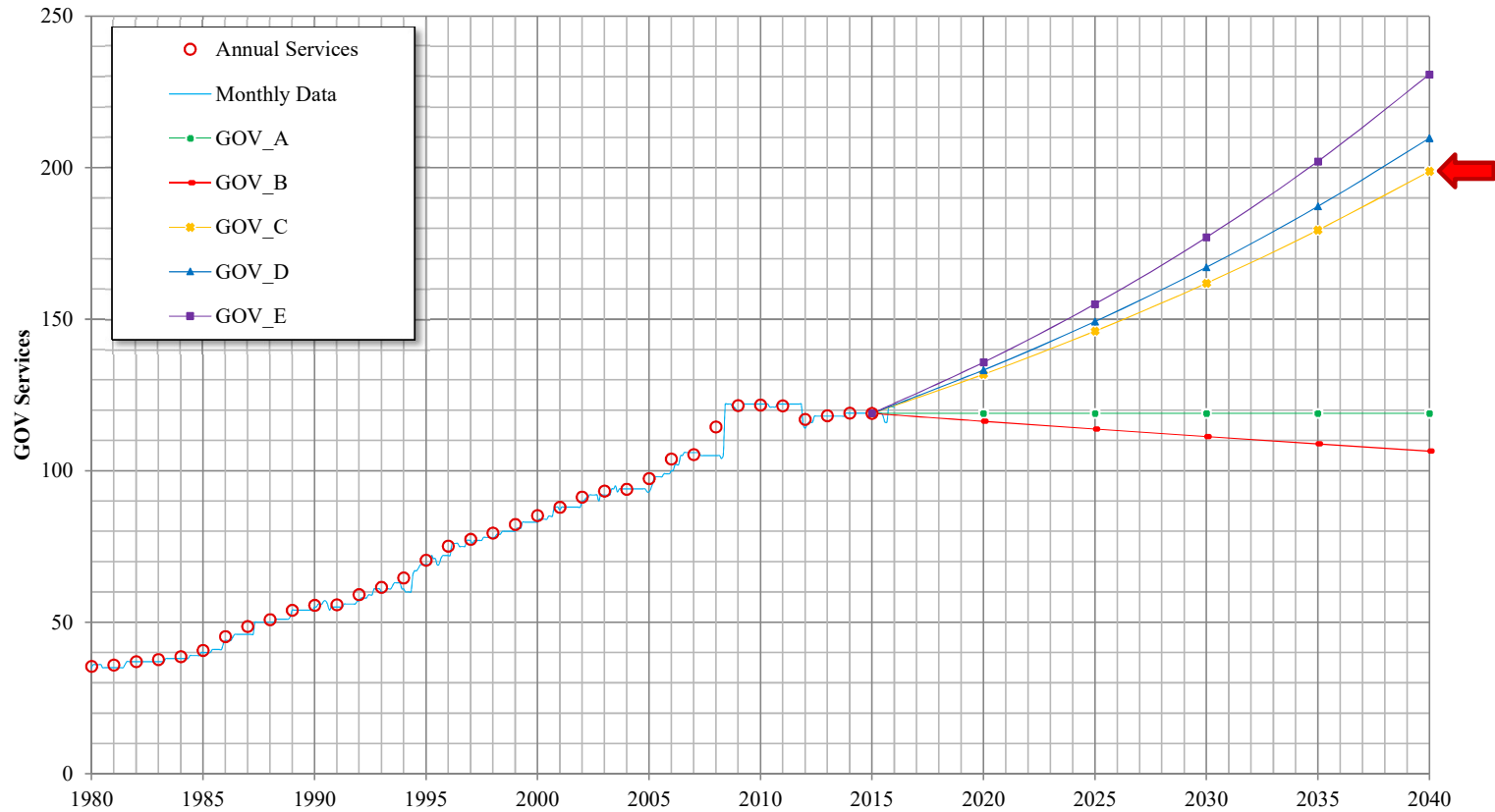
Customer Category	Trend	Growth Rate	Actual				Projected						
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040	
COM	COM_A	Zero Growth Rate	463	469	444	438	438	438	438	438	438	438	438
	COM_B	5 Yr. Avg.				438	438	435	433	431	429	427	427
	COM_C	10 Yr. Avg.				438	438	437	436	435	434	433	433
	COM_D	15 Yr. Avg.				438	438	439	441	443	445	447	447
	> COM_E	20 Yr. Avg.				438	438	450	463	477	491	505	505

California Water Service Company - Selma District Water Supply and Demand Analysis and Projections IND Historical & Projected Services



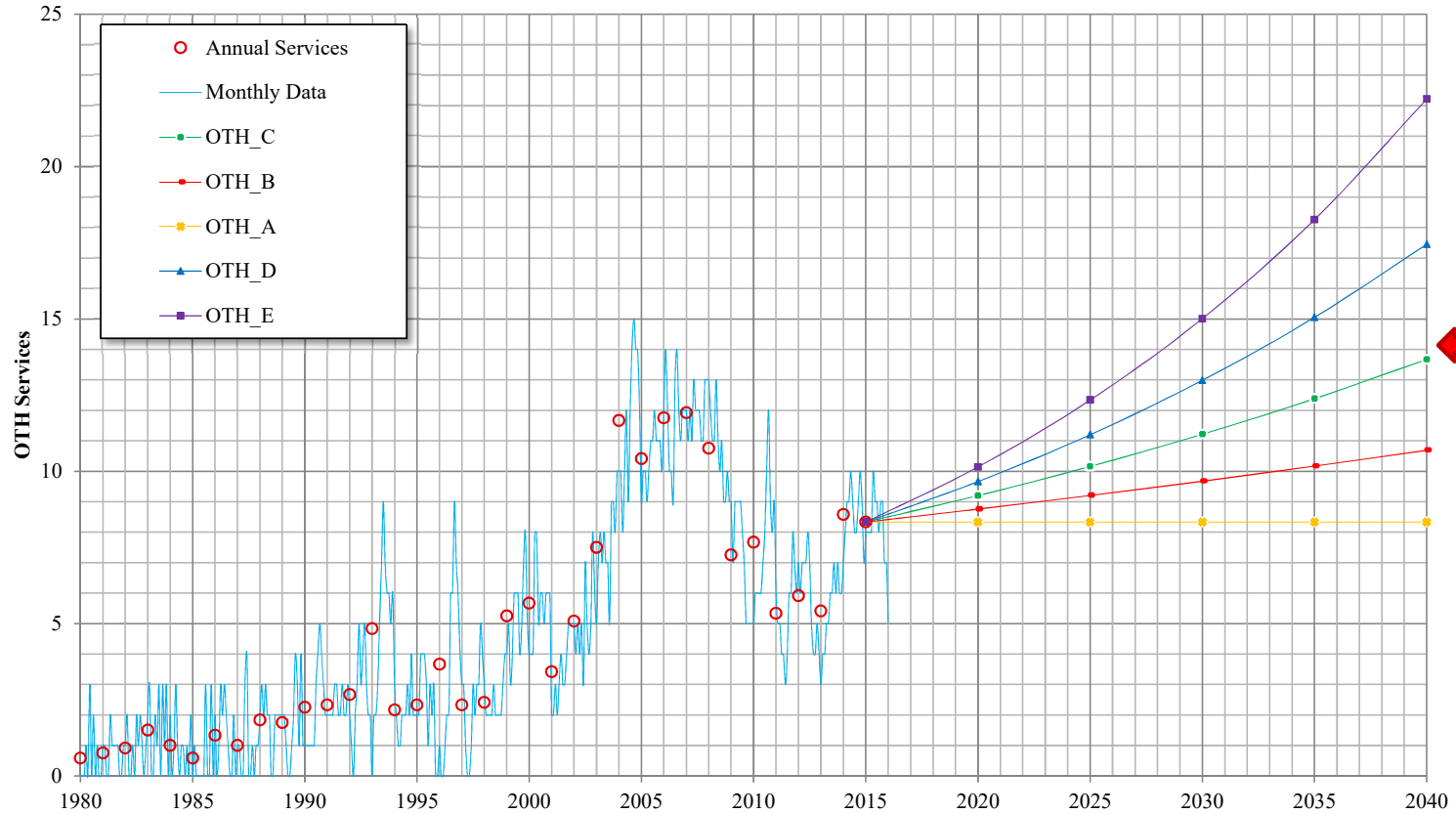
Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
IND			18	17	19	20	20	20	20	20	20	20
	IND_A	Zero Growth Rate				20	20	20	20	20	20	20
	IND_B	5 Yr. Avg.				20	20	22	24	27	30	33
	IND_C	10 Yr. Avg.				20	20	20	20	20	20	19
	IND_D	15 Yr. Avg.				20	20	21	22	23	24	26
	> IND_E	20 Yr. Avg.				20	20	21	22	23	24	26

California Water Service Company - Selma District Water Supply and Demand Analysis and Projections GOV Historical & Projected Services



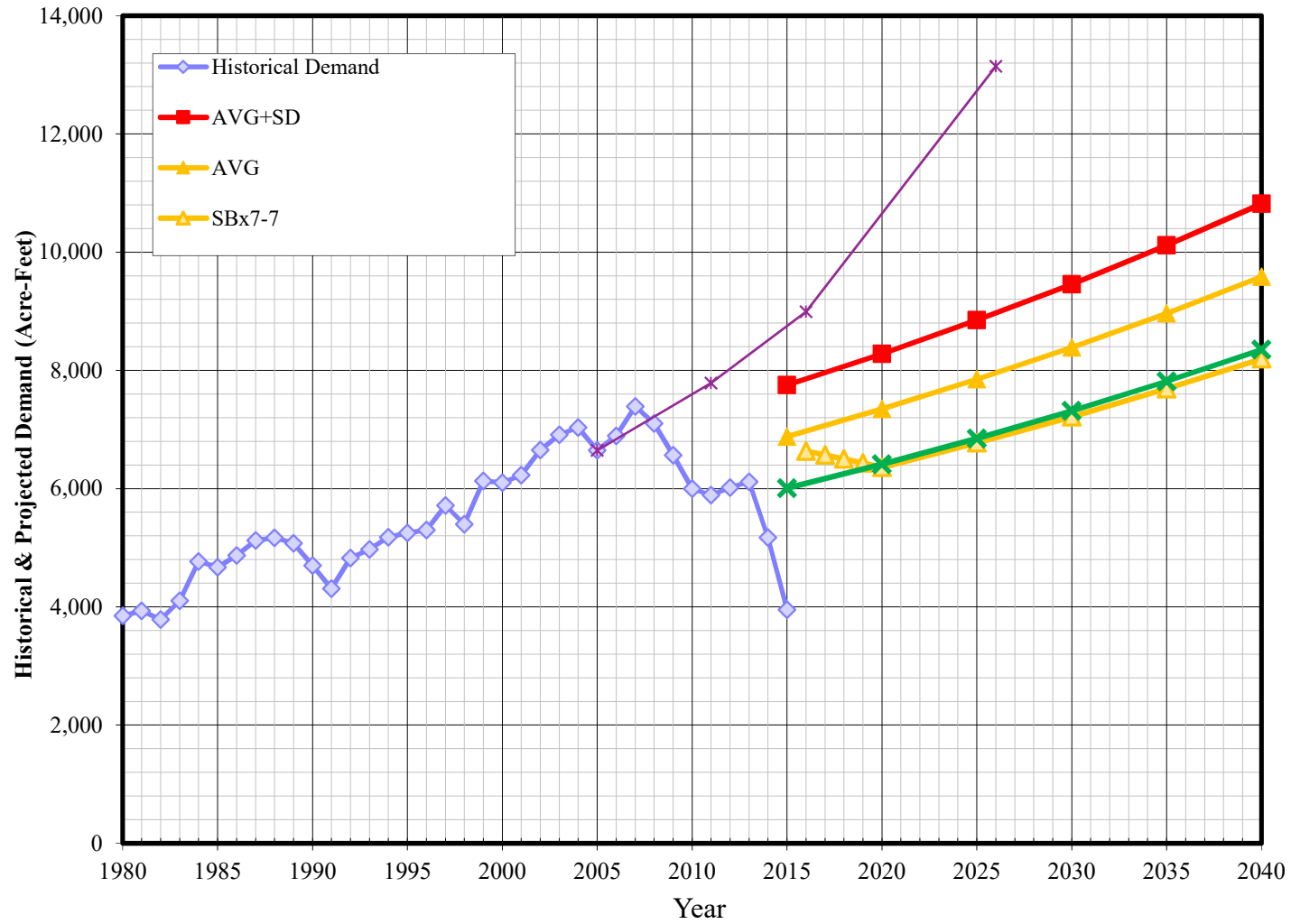
Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services	Services	Services	Services	Services	Services
							2015	2020	2025	2030	2035	2040
GOV			85	97	122	119	119	119	119	119	119	
	GOV_A	Zero Growth Rate				119	119	119	119	119	119	
	GOV_B	5 Yr. Avg.				119	119	116	114	111	109	
	> GOV_C	10 Yr. Avg.				119	119	132	146	162	179	
	GOV_D	15 Yr. Avg.				119	119	133	149	167	187	
	GOV_E	20 Yr. Avg.				119	119	136	155	177	202	

California Water Service Company - Selma District Water Supply and Demand Analysis and Projections OTH Historical & Projected Services



Customer Category	Trend		Growth Rate	Actual				Projected							
				2000	2005	2010	Base Year 2015	Services	Services	Services	Services	Services	Services		
								2015	2020	2025	2030	2035	2040		
OTH				6	10	8	8	8	8	8	8	8	8	8	8
		OTH_A	Zero Growth Rate	0.00%				8	8	8	8	8	8	8	8
		OTH_B	1.00%	1.00%				8	9	9	10	10	10	11	11
	>	OTH_C	2.00%	2.00%				8	9	10	11	12	12	14	14
		OTH_D	3.00%	3.00%				8	10	11	13	15	15	17	17
		OTH_E	4.00%	4.00%				8	10	12	15	18	18	22	22

Historical & Projected Demand (SEL)

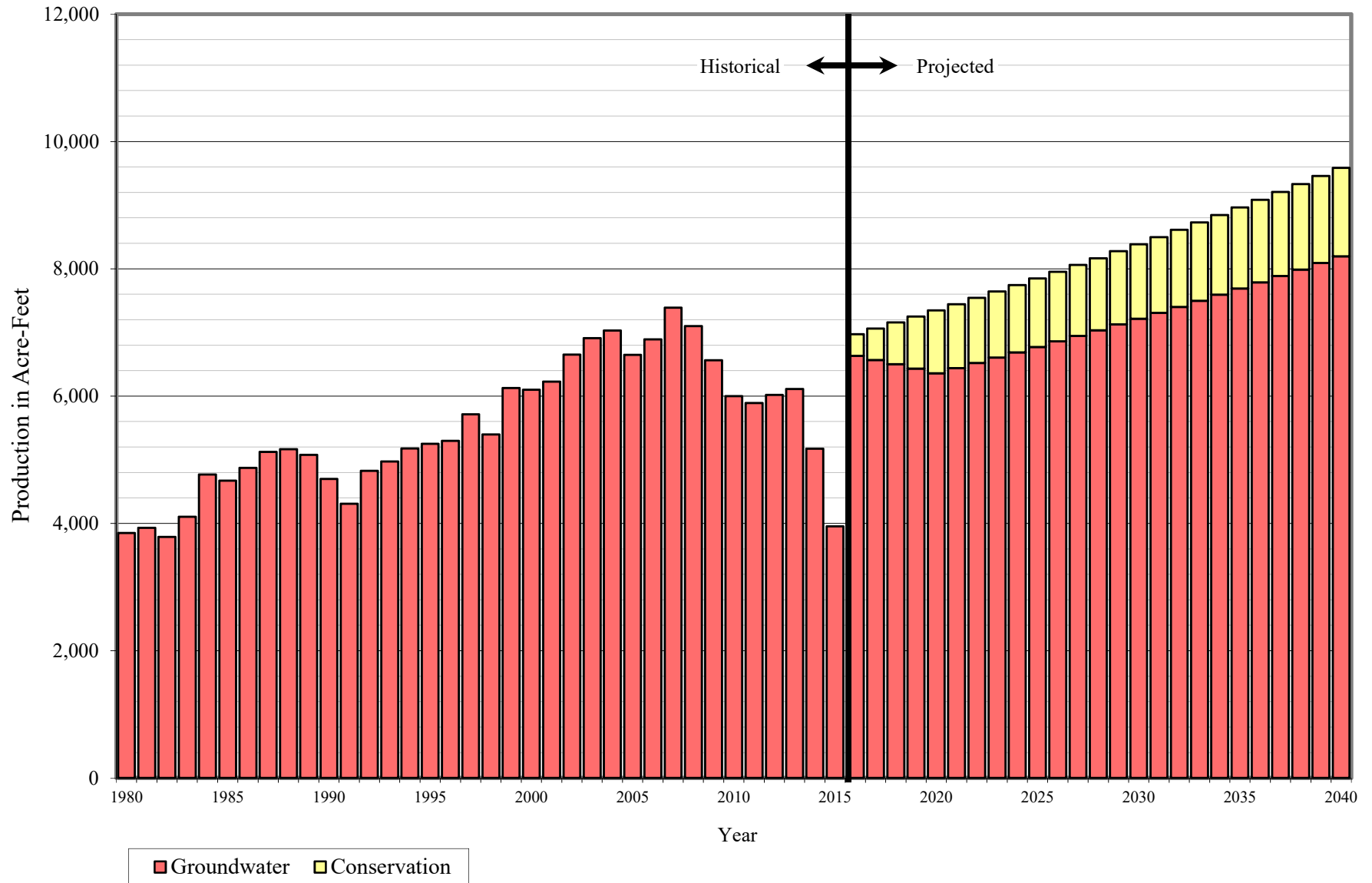


California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
 Actual & Projected Demand in Acre-Feet

Worksheet 9

Customer Category	Actual Demand (AFY)								Projected Demand (AFY)					
	1980	1985	1990	1995	2000	2005	2010	2015	2015	2020	2025	2030	2035	2040
SFR	2,787	3,405	3,207	3,531	4,116	4,506	4,127	4,141	5,254	5,640	6,053	6,497	6,973	7,485
									4,719	5,065	5,437	5,835	6,263	6,722
									4,184	4,491	4,820	5,173	5,553	5,960
MFR	72	112	220	359	366	418	349	335	544	564	586	608	630	654
									463	480	499	517	537	557
									382	397	412	427	443	460
COM	473	521	645	664	734	760	628	643	738	759	781	804	827	851
									688	708	729	750	772	794
									639	658	677	696	717	737
IND	52	42	58	74	157	70	64	58	122	128	134	141	148	156
									80	84	89	93	98	103
									39	41	43	45	48	50
GOV	152	209	185	202	232	290	345	352	445	493	547	606	671	744
									352	390	432	479	531	588
									258	286	317	352	390	432
OTH	3	8	7	2	7	72	6	8	54	60	66	73	81	89
									30	33	36	40	44	49
									5	5	6	6	7	8
UAWF	308	374	376	420	488	532	480	482	594	636	681	730	781	837
									547	586	627	672	719	771
									500	535	573	614	657	704
TOTAL (AFY)	3,848	4,670	4,698	5,252	6,099	6,648	6,000	6,019	7,752	8,281	8,849	9,459	10,113	10,817
									6,879	7,347	7,848	8,386	8,964	9,584
									6,007	6,413	6,848	7,314	7,814	8,351
TOTAL (MGD)	3.435	4.169	4.194	4.688	5.445	5.935	5.356	5.373	6.920	7.393	7.900	8.444	9.029	9.657
									6.142	6.559	7.006	7.487	8.002	8.556
									5.363	5.725	6.113	6.529	6.976	7.455

Historical and Projected Distribution of Demand by Source

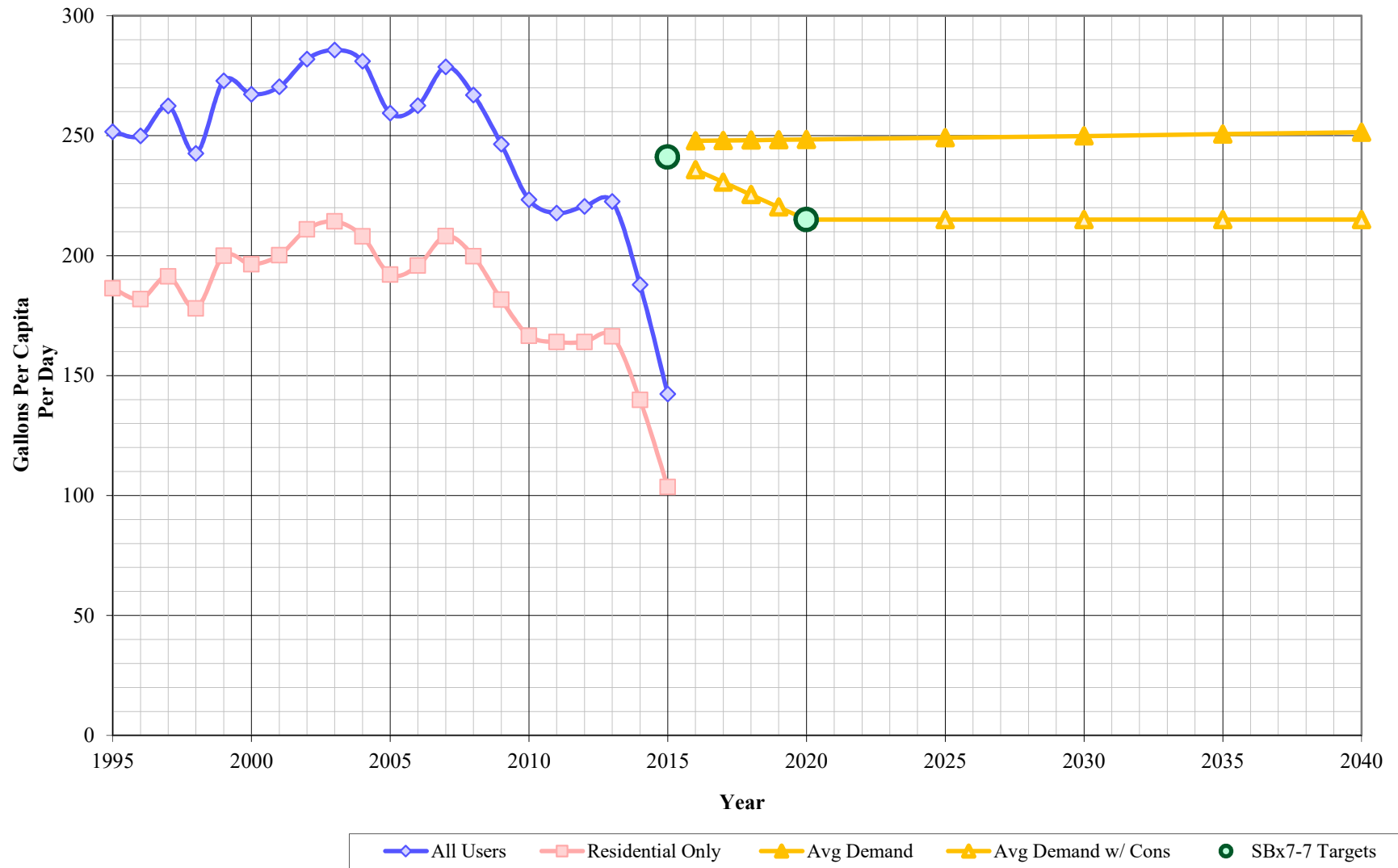


California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Historical and Projected Distribution of Demand by Source

Worksheet 10

Year	Ground Water		Surface Water		Conservation		Total	
	MGD	AFY	MGD	AFY	MGD	AFY	MGD	AFY
1980	3.43	3,848					3.43	3,848
1981	3.51	3,930					3.51	3,930
1982	3.38	3,787					3.38	3,787
1983	3.66	4,103					3.66	4,103
1984	4.26	4,767					4.26	4,767
1985	4.17	4,670					4.17	4,670
1986	4.35	4,871					4.35	4,871
1987	4.57	5,123					4.57	5,123
1988	4.61	5,167					4.61	5,167
1989	4.53	5,077					4.53	5,077
1990	4.19	4,698					4.19	4,698
1991	3.85	4,307					3.85	4,307
1992	4.31	4,826					4.31	4,826
1993	4.44	4,973					4.44	4,973
1994	4.62	5,175					4.62	5,175
1995	4.69	5,252					4.69	5,252
1996	4.73	5,297					4.73	5,297
1997	5.10	5,714					5.10	5,714
1998	4.82	5,397					4.82	5,397
1999	5.47	6,128					5.47	6,128
2000	5.45	6,099					5.45	6,099
2001	5.56	6,228					5.56	6,228
2002	5.94	6,652					5.94	6,652
2003	6.17	6,912					6.17	6,912
2004	6.28	7,032					6.28	7,032
2005	5.93	6,648					5.93	6,648
2006	6.15	6,893					6.15	6,893
2007	6.60	7,391					6.60	7,391
2008	6.34	7,100					6.34	7,100
2009	5.86	6,563					5.86	6,563
2010	5.36	6,000					5.36	6,000
2011	5.26	5,891	0.00	0	0.00	0	5.26	5,891
2012	5.37	6,019	0.00	0	0.00	0	5.37	6,019
2013	5.46	6,113	0.00	0	0.00	0	5.46	6,113
2014	4.62	5,173	0.00	0	0.00	0	4.62	5,173
2015	3.53	3,952	0.00	0	0.00	0	3.53	3,952
2016	5.92	6,632	0.00	0	0.30	339	6.22	6,970
2017	5.86	6,567	0.00	0	0.44	495	6.30	7,062
2018	5.80	6,501	0.00	0	0.58	655	6.39	7,156
2019	5.74	6,431	0.00	0	0.73	819	6.47	7,251
2020	5.68	6,359	0.00	0	0.88	988	6.56	7,347
2021	5.75	6,440	0.00	0	0.90	1,005	6.65	7,444
2022	5.82	6,521	0.00	0	0.91	1,022	6.73	7,543
2023	5.90	6,604	0.00	0	0.93	1,039	6.82	7,643
2024	5.97	6,688	0.00	0	0.94	1,057	6.91	7,745
2025	6.05	6,773	0.00	0	0.96	1,075	7.01	7,848
2026	6.12	6,860	0.00	0	0.98	1,093	7.10	7,953
2027	6.20	6,947	0.00	0	0.99	1,112	7.19	8,059
2028	6.28	7,035	0.00	0	1.01	1,131	7.29	8,166
2029	6.36	7,125	0.00	0	1.03	1,150	7.39	8,276
2030	6.44	7,216	0.00	0	1.04	1,170	7.49	8,386
2031	6.52	7,308	0.00	0	1.06	1,190	7.59	8,498
2032	6.61	7,402	0.00	0	1.08	1,211	7.69	8,612
2033	6.69	7,496	0.00	0	1.10	1,232	7.79	8,728
2034	6.78	7,592	0.00	0	1.12	1,253	7.90	8,845
2035	6.86	7,689	0.00	0	1.14	1,274	8.00	8,964
2036	6.95	7,788	0.00	0	1.16	1,296	8.11	9,084
2037	7.04	7,888	0.00	0	1.18	1,319	8.22	9,207
2038	7.13	7,989	0.00	0	1.20	1,342	8.33	9,331
2039	7.22	8,091	0.00	0	1.22	1,365	8.44	9,456
2040	7.32	8,195	0.00	0	1.24	1,389	8.56	9,584

Per Capita Consumption (SEL)



California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections

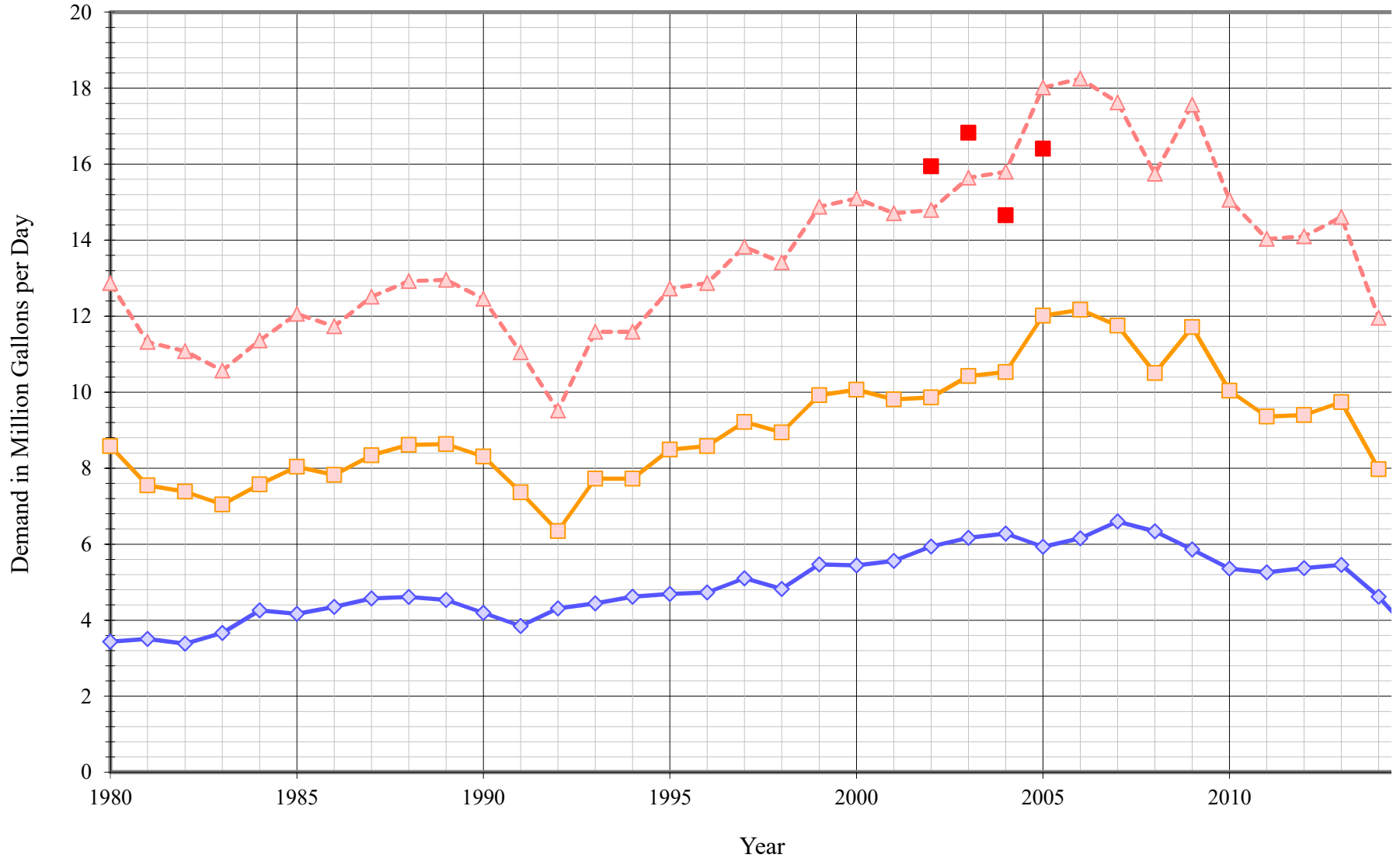
Worksheet 15

Per Capita Water Demand Calculation

Year	POP	Historical				Projected			
		All Users		Residential Only		Avg Demand		Avg Demand w/ Cons	
		Usage (AFY)	Gallons Per Capita Per Day	Usage (AFY)	Gallons Per Capita Per Day	Demand (AFY)	Per Capita (GPCPD)	Demand (AFY)	Per Capita (GPCPD)
1995	18,632	5,252	252	3,890	186				
1996	18,920	5,297	250	3,855	182				
1997	19,437	5,714	262	4,166	191				
1998	19,864	5,397	243	3,960	178				
1999	20,045	6,128	273	4,489	200				
2000	20,370	6,099	267	4,482	196				
2001	20,567	6,228	270	4,611	200				
2002	21,064	6,652	282	4,978	211				
2003	21,598	6,912	286	5,183	214				
2004	22,335	7,032	281	5,206	208				
2005	22,883	6,648	259	4,924	192				
2006	23,443	6,893	262	5,142	196				
2007	23,675	7,391	279	5,520	208				
2008	23,741	7,100	267	5,313	200				
2009	23,772	6,563	246	4,837	182				
2010	23,984	6,000	223	4,476	167				
2011	24,150	5,891	218	4,435	164				
2012	24,365	6,019	221	4,477	164				
2013	24,521	6,113	223	4,570	166				
2014	24,587	5,173	188	3,851	140				
2015	24,794	3,952	142	2,874	104				
2016	25,108					6,970	248	6,632	236
2017	25,425					7,062	248	6,567	231
2018	25,747					7,156	248	6,501	225
2019	26,074					7,251	248	6,431	220
2020	26,404					7,347	248	6,359	215
2025	28,125					7,848	249	6,773	215
2030	29,963					8,386	250	7,216	215
2035	31,928					8,964	251	7,689	215
2040	34,029					9,584	251	8,195	215

<i>SBx7-7 Targets</i>	
2015	241
2020	215

Average Day, Maximum Day, Peak Demand



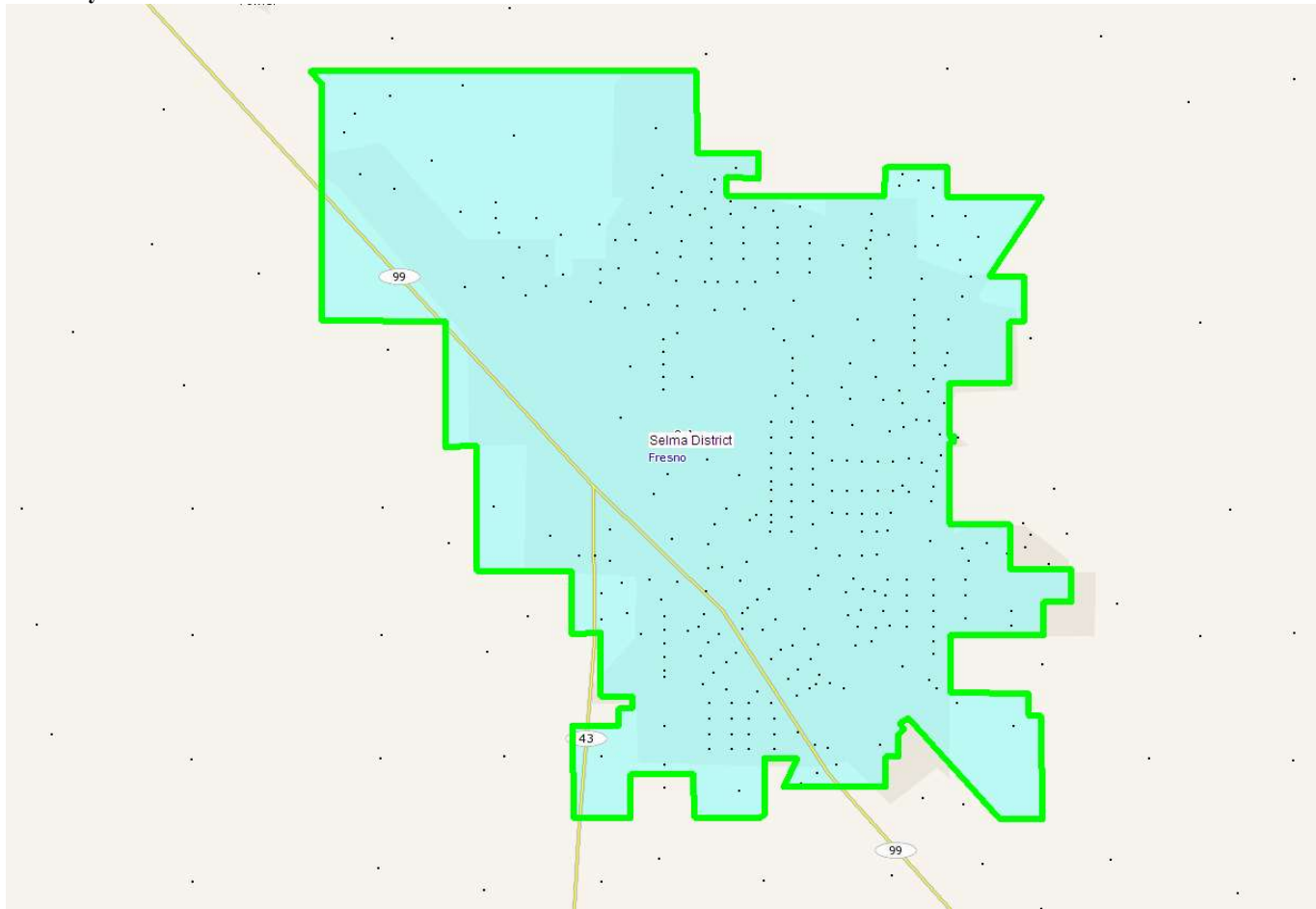
California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Historical and Projected Average Day, Maximum Day, and Peak Demand

Year	Historical Annual Demand		Average Day Demand		Maximum Day Demand		MDD ADD Ratio	Estimated Peak Hour Demand		PHD MDD Ratio	PHD ADD Ratio	Measured Peak Hour Demand		PHD MDD Ratio
	(AFY)	(MGY)	(MGD)	Per Service (GPD)	(MGD)	Per Service (GPD)		(MGD)	(GPM)			(MGD)	(GPM)	
1980	3,848	1,254	3.43	1,040	8.58	2,597	2.50	12.87	8,940	1.50	3.75			
1981	3,930	1,281	3.51	1,053	7.55	2,265	2.15	11.32	7,860	1.50	3.23			
1982	3,787	1,234	3.38	1,000	7.39	2,184	2.19	11.08	7,695	1.50	3.28			
1983	4,103	1,337	3.66	1,071	7.04	2,060	1.92	10.57	7,338	1.50	2.88			
1984	4,767	1,553	4.26	1,239	7.58	2,204	1.78	11.36	7,891	1.50	2.67			
1985	4,670	1,522	4.17	1,163	8.04	2,242	1.93	12.06	8,374	1.50	2.89			
1986	4,871	1,587	4.35	1,153	7.82	2,074	1.80	11.73	8,146	1.50	2.70			
1987	5,123	1,669	4.57	1,193	8.34	2,175	1.82	12.51	8,689	1.50	2.74			
1988	5,167	1,684	4.61	1,185	8.61	2,212	1.87	12.92	8,972	1.50	2.80			
1989	5,077	1,654	4.53	1,148	8.64	2,187	1.91	12.95	8,995	1.50	2.86			
1990	4,698	1,531	4.19	1,050	8.31	2,080	1.98	12.46	8,651	1.50	2.97			
1991	4,307	1,403	3.85	942	7.36	1,805	1.91	11.04	7,669	1.50	2.87			
1992	4,826	1,573	4.31	1,007	6.35	1,484	1.47	9.52	6,609	1.50	2.21			
1993	4,973	1,621	4.44	998	7.72	1,736	1.74	11.59	8,046	1.50	2.61			
1994	5,175	1,686	4.62	1,016	7.73	1,699	1.67	11.59	8,047	1.50	2.51			
1995	5,252	1,711	4.69	1,010	8.49	1,828	1.81	12.73	8,840	1.50	2.71			
1996	5,297	1,726	4.73	999	8.58	1,813	1.81	12.87	8,940	1.50	2.72			
1997	5,714	1,862	5.10	1,053	9.22	1,903	1.81	13.82	9,600	1.50	2.71			
1998	5,397	1,759	4.82	974	8.94	1,807	1.86	13.41	9,314	1.50	2.78			
1999	6,128	1,997	5.47	1,090	9.92	1,976	1.81	14.88	10,332	1.50	2.72			
2000	6,099	1,987	5.45	1,063	10.07	1,965	1.85	15.10	10,486	1.50	2.77			
2001	6,228	2,029	5.56	1,075	9.81	1,896	1.76	14.71	10,216	1.50	2.65			
2002	6,652	2,167	5.94	1,120	9.86	1,859	1.66	14.79	10,271	1.50	2.49	15.941	11,070	1.617
2003	6,912	2,252	6.17	1,133	10.43	1,915	1.69	15.64	10,862	1.50	2.53	16.826	11,685	1.614
2004	7,032	2,291	6.28	1,112	10.53	1,865	1.68	15.80	10,971	1.50	2.52	14.652	10,175	1.391
2005	6,648	2,166	5.93	1,024	12.01	2,073	2.02	18.02	12,512	1.50	3.04	16.409	11,395	1.366
2006	6,893	2,246	6.15	1,034	12.17	2,045	1.98	18.25	12,675	1.50	2.97			
2007	7,391	2,408	6.60	1,100	11.75	1,959	1.78	17.63	12,240	1.50	2.67			
2008	7,100	2,314	6.34	1,057	10.50	1,751	1.66	15.75	10,938	1.50	2.48			
2009	6,563	2,139	5.86	979	11.71	1,957	2.00	17.57	12,198	1.50	3.00			
2010	6,000	1,955	5.36	888	10.04	1,665	1.87	15.06	10,458	1.50	2.81			
2011	5,891	1,919	5.26	867	9.36	1,543	1.78	14.04	9,748	1.50	2.67			
2012	6,019	1,961	5.37	878	9.40	1,536	1.75	14.10	9,791	1.50	2.62			
2013	6,113	1,992	5.46	885	9.74	1,579	1.78	14.61	10,146	1.50	2.68			
2014	5,173	1,686	4.62	746	7.97	1,287	1.73	11.96	8,303	1.50	2.59			
2015	3,952	1,288	3.53	568										
10 year Average (2006-2015)			5.45	900	10.29	1,703	1.81	15.44	10,722	1.50	2.72			
5 year Average (2011-2015)			4.85	789	9.12	1,486	1.76	13.68	9,497	1.50	2.64			

California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
MarPlot Summary



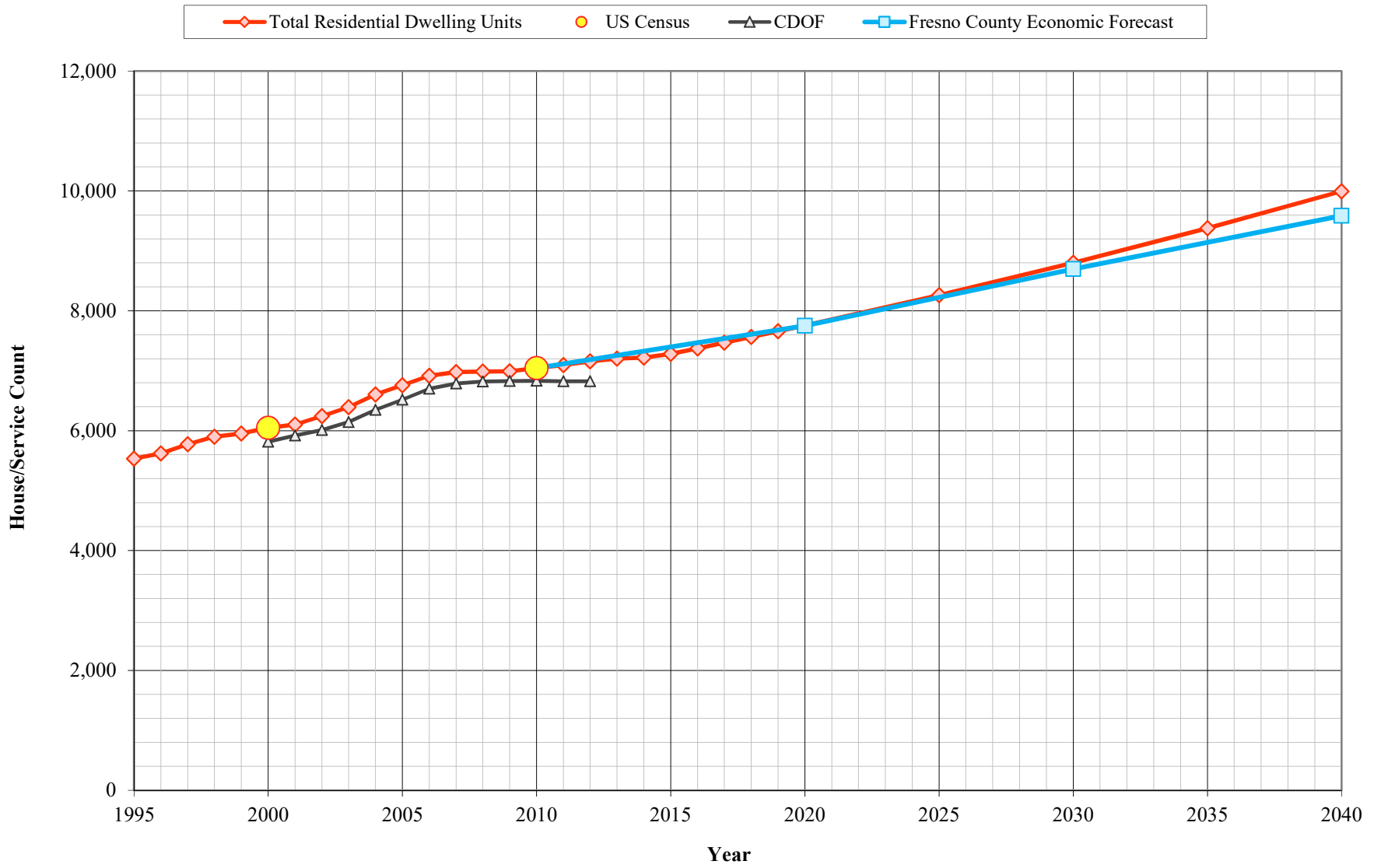
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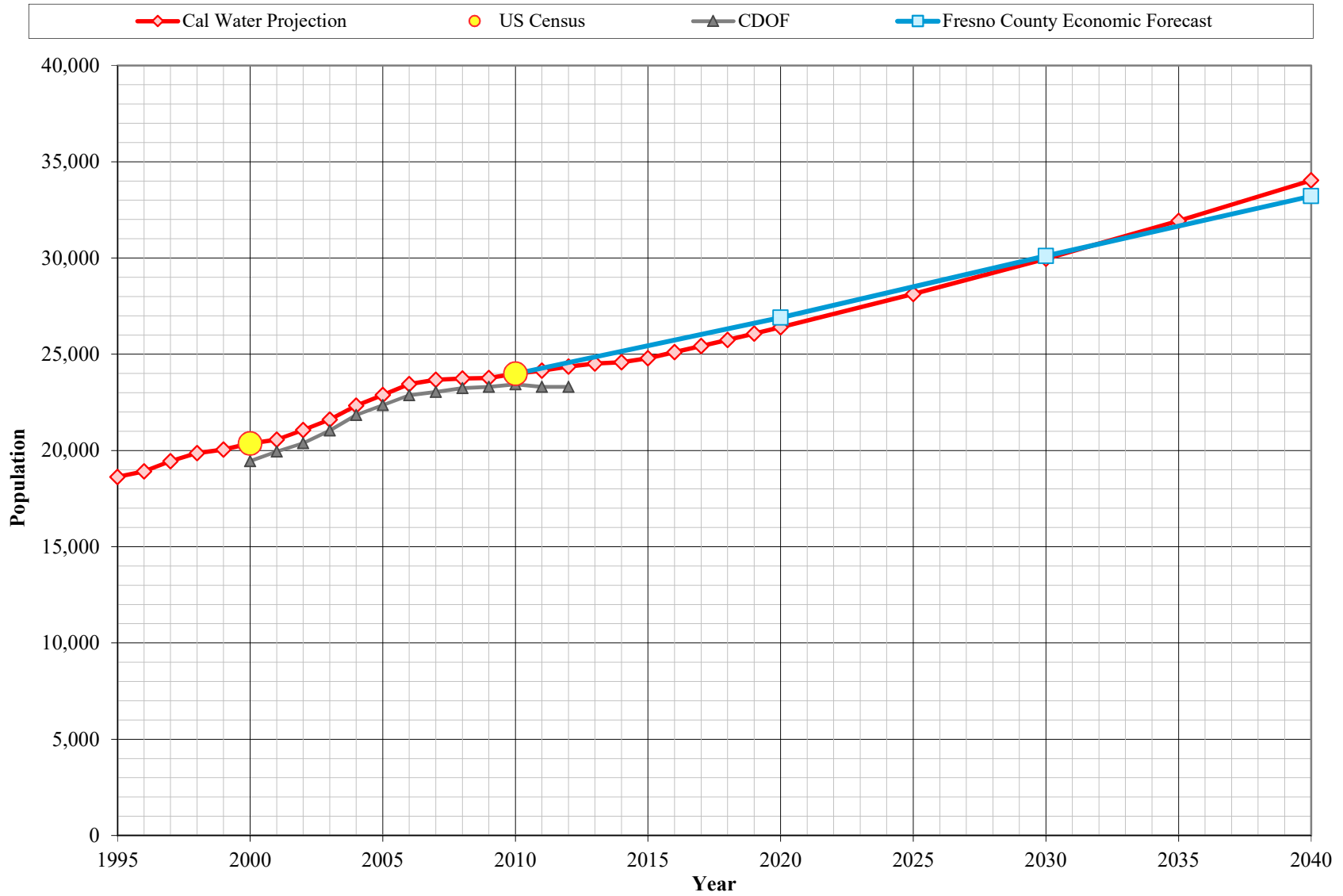
System	US Census 2000 Summary				US Census 2010 Summary				2000-2010 Change		
	Census Blocks	Population	Housing Units (HU)	Density	Census Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change
Selma	278	20,370	6,050	3.37	333	23,984	7,044	3.40	17.7%	16.4%	1.1%
	278	20,370	6,050	3.37	333	23,984	7,044	3.40	17.7%	16.4%	1.1%

MARPLOT disclaimer: The population and housing number given above are only rough estimates. They are based on the US Census Blocks. Although Census Blocks are polygons, MARPLOT uses the centroid, or center point, rather than the entire polygon. If a Census Block centroid is within any of the MARPLOT selected objects, the population and housing numbers for that block are tallied, even if only part of the block is within the selected object. It is possible for a block not be counted if its centroid is not within selected objects, even though part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
Population Estimate

Year	US Census		Persons per Housing Unit	Single Family Residential	Multi Family Residential			Flat Rate Residential
	Population	Housing Units		Services (DU)	Services	Units (DU)	Unit Density	Services (DU)
2000	20,370	6,050	3.367	1,718	39	1,537	39.1	2,795
2010	23,984	7,044	3.405	2,851	52	1,659	32.2	2,535
	17.7%	16.4%	1.1%	65.9%	30.9%	7.9%	-17.6%	-9.3%

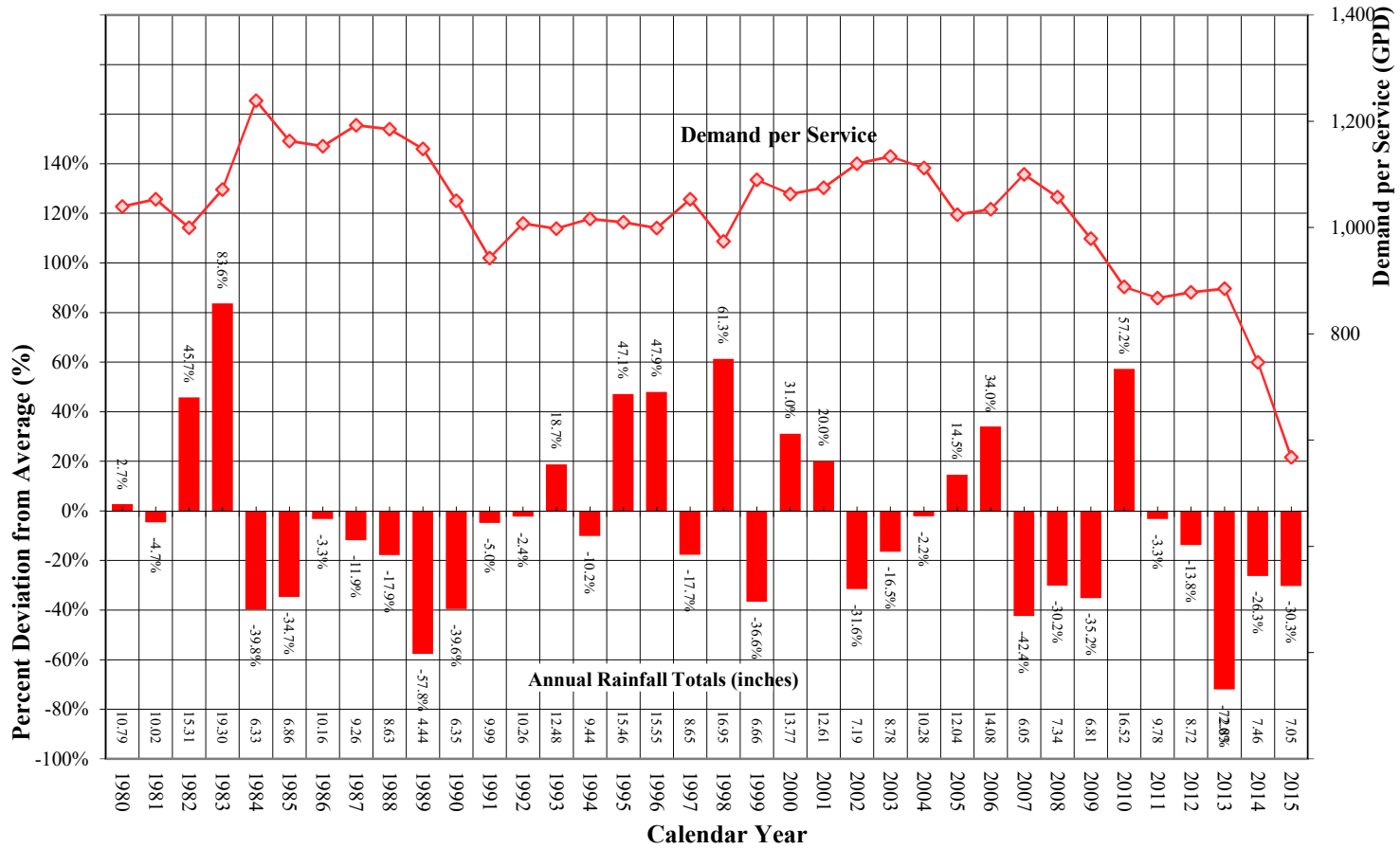
Year	Single Family Residential Services (DU)	Multi Family Residential			Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
		Services	Residential Units (DU)	Unit Density				
1995	1,265	37	1,439	39.1	2,829	5,534	3.367	18,632
1996	1,352	37	1,446	39.1	2,822	5,619	3.367	18,920
1997	1,458	38	1,498	39.1	2,817	5,773	3.367	19,437
1998	1,569	39	1,524	39.1	2,807	5,900	3.367	19,864
1999	1,629	39	1,524	39.1	2,800	5,953	3.367	20,045
2000	1,718	39	1,537	39.1	2,795	6,050	3.367	20,370
2001	1,765	41	1,549	38.0	2,788	6,102	3.371	20,567
2002	1,876	41	1,561	38.1	2,805	6,242	3.375	21,064
2003	2,042	41	1,573	38.4	2,778	6,393	3.378	21,598
2004	2,247	41	1,586	38.7	2,771	6,604	3.382	22,335
2005	2,389	41	1,598	39.0	2,771	6,758	3.386	22,883
2006	2,554	41	1,610	39.3	2,752	6,916	3.390	23,443
2007	2,622	41	1,622	39.2	2,733	6,977	3.394	23,675
2008	2,648	48	1,634	34.4	2,706	6,988	3.397	23,741
2009	2,675	51	1,646	32.5	2,668	6,989	3.401	23,772
2010	2,851	52	1,659	32.2	2,535	7,044	3.405	23,984
2011	3,126	56	1,671	29.8	2,296	7,093	3.405	24,150
2012	3,330	56	1,671	29.8	2,155	7,156	3.405	24,365
2013	3,472	56	1,671	29.8	2,059	7,202	3.405	24,521
2014	3,849	56	1,671	29.8	1,702	7,221	3.405	24,587
2015	4,341	57	1,708	29.8	1,233	7,282	3.405	24,794
2016	5,653	58	1,721	29.8	0	7,374	3.405	25,108
2017	5,734	58	1,734	29.8	0	7,467	3.405	25,425
2018	5,815	59	1,746	29.8	0	7,562	3.405	25,747
2019	5,898	59	1,759	29.8	0	7,658	3.405	26,074
2020	5,982	59	1,772	29.8	0	7,755	3.405	26,404
2025	6,421	62	1,839	29.8	0	8,260	3.405	28,125
2030	6,892	64	1,908	29.8	0	8,800	3.405	29,963
2035	7,397	66	1,980	29.8	0	9,377	3.405	31,928
2040	7,940	69	2,054	29.8	0	9,994	3.405	34,029

Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2011 due to reclassification, afterwards a constant MFR Unit Density is used.

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Comparison of Annual Rainfall to Historical Average



California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections
 Temperature & Rainfall History

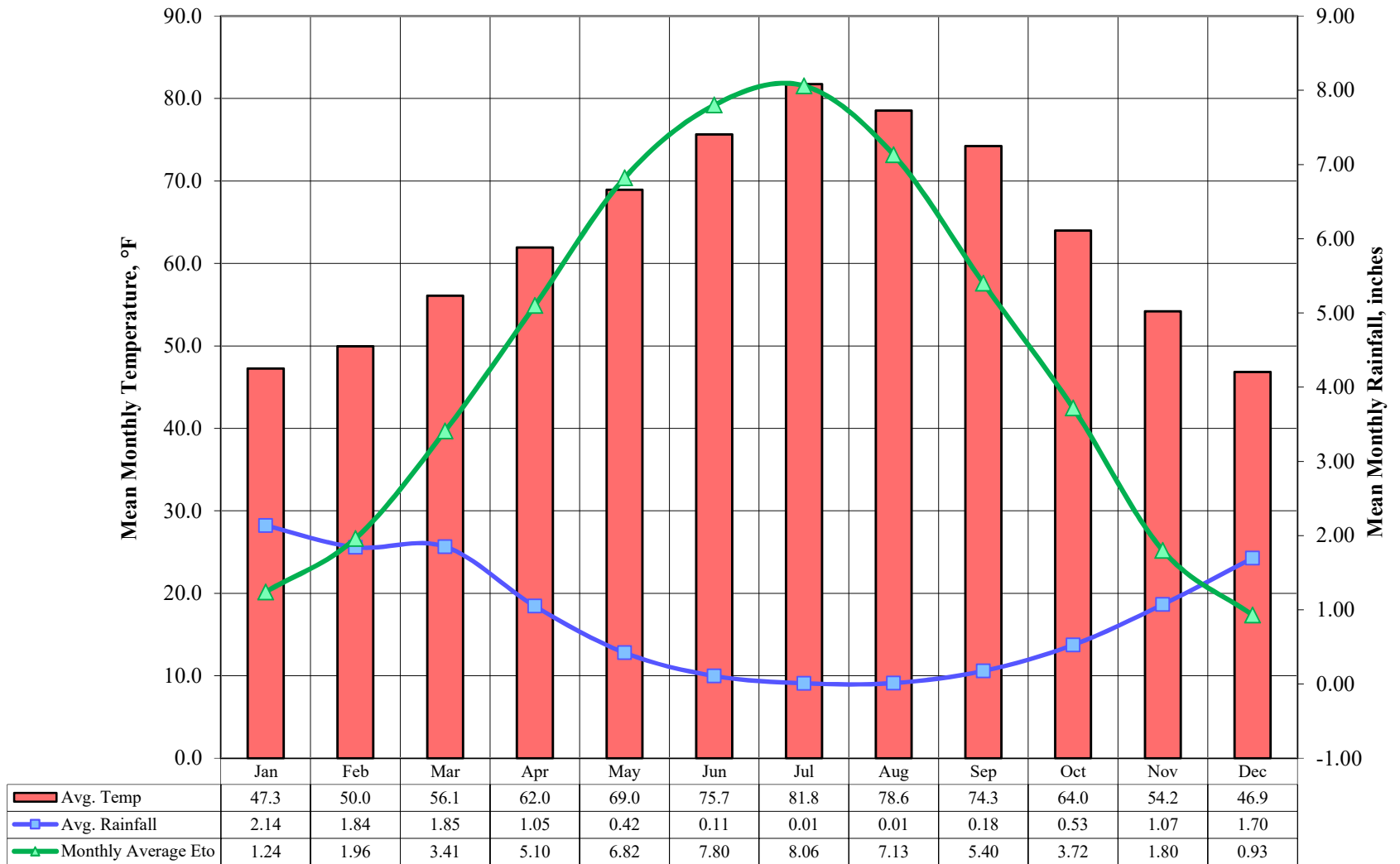
Year	Precipitation		Temperature			Demand per Service (gpd)	Percent of Average Demand
	Annual (in)	Percent Variation	Tmax (°F)	Tmin (°F)	Mean (°F)		
1980	10.79	2.7%	97.40	36.20	66.8	1,040	1.4%
1981	10.02	-4.7%	99.70	39.90	69.8	1,053	2.7%
1982	15.31	45.7%	95.20	34.50	64.9	1,000	-2.5%
1983	19.30	83.6%	95.00	37.90	66.5	1,071	4.5%
1984	6.33	-39.8%	100.10	37.50	68.8	1,239	20.8%
1985	6.86	-34.7%	99.60	35.50	67.6	1,163	13.4%
1986	10.16	-3.3%	99.50	37.20	68.4	1,153	12.5%
1987	9.26	-11.9%	95.40	34.80	65.1	1,193	16.3%
1988	8.63	-17.9%	100.60	35.10	67.9	1,185	15.6%
1989	4.44	-57.8%	97.90	31.70	64.8	1,148	11.9%
1990	6.35	-39.6%	98.50	29.10	63.8	1,050	2.4%
1991	9.99	-5.0%	98.20	35.20	66.7	942	-8.1%
1992	10.26	-2.4%	99.00	35.90	67.5	1,007	-1.7%
1993	12.48	18.7%	94.20	36.60	65.4	998	-2.7%
1994	9.44	-10.2%	98.90	35.90	67.4	1,016	-0.9%
1995	15.46	47.1%	97.30	41.60	69.5	1,010	-1.5%
1996	15.55	47.9%	100.30	40.20	70.3	999	-2.6%
1997	8.65	-17.7%	95.30	36.00	65.7	1,053	2.7%
1998	16.95	61.3%	98.70	32.00	65.4	974	-5.0%
1999	6.66	-36.6%	95.80	33.90	64.9	1,090	6.3%
2000	13.77	31.0%	97.60	37.50	67.6	1,063	3.6%
2001	12.61	20.0%	97.30	35.10	66.2	1,075	4.8%
2002	7.19	-31.6%	99.30	37.70	68.5	1,120	9.2%
2003	8.78	-16.5%	101.00	40.30	70.7	1,133	10.5%
2004	10.28	-2.2%	97.90	37.40	67.7	1,112	8.4%
2005	12.04	14.5%	101.30	41.10	71.2	1,024	-0.1%
2006	14.08	34.0%	102.30	34.60	68.5	1,034	0.9%
2007	6.05	-42.4%	97.80	30.00	63.9	1,100	7.3%
2008	7.34	-30.2%	99.50	36.70	68.1	1,057	3.1%
2009	6.81	-35.2%	100.60	37.00	68.8	979	-4.5%
2010	16.52	57.2%	98.50	40.40	69.5	888	-13.4%
2011	9.78	-3.3%	97.50	30.60	64.1	867	-15.4%
2012	8.72	-13.8%	100.90	34.80	67.9	878	-14.4%
2013	2.83	-72.0%	101.40	31.70	66.6	885	-13.7%
2014	7.46	-26.3%	100.00	36.70	68.4	746	-27.3%
2015	7.05	-30.3%	96.30	34.60	65.5	568	-44.6%
2016							
2017							
2018							
2019							
2020							

Precipitation (1895 - present)						Monthly Average Eto
	Mean	High	Year	Low	Year	
	in.	in.	-	in.	-	
Jan	2.14	7.80	1969	0.00	1948	1.24
Feb	1.84	6.15	1936	0.00	1896	1.96
Mar	1.85	6.72	1991	0.00	1972	3.41
Apr	1.05	4.91	1967	0.00	1909	5.10
May	0.42	2.01	1906	0.00	1903	6.82
Jun	0.11	1.52	2011	0.00	1905	7.80
Jul	0.01	0.24	1913	0.00	1965	8.06
Aug	0.01	0.34	1976	0.00	1962	7.13
Sep	0.18	2.02	1904	0.00	1899	5.40
Oct	0.53	2.30	2004	0.00	1905	3.72
Nov	1.07	4.60	1900	0.00	1907	1.80
Dec	1.70	6.62	1955	0.00	1917	0.93
Annual	10.90	20.78	1978	2.83	2013	53.30

Temperature (1895 - present)			
	Tmax	Tmin	Mean
	°F	°F	°F
Jan	66.6	27.9	47.3
Feb	69.9	30.0	50.0
Mar	77.4	34.8	56.1
Apr	83.2	40.7	62.0
May	92.7	45.2	69.0
Jun	100.1	51.2	75.7
Jul	107.4	56.1	81.8
Aug	102.9	54.2	78.6
Sep	98.0	50.5	74.3
Oct	86.7	41.3	64.0
Nov	74.4	34.0	54.2
Dec	64.6	29.1	46.9
Annual	107.4	27.9	67.7

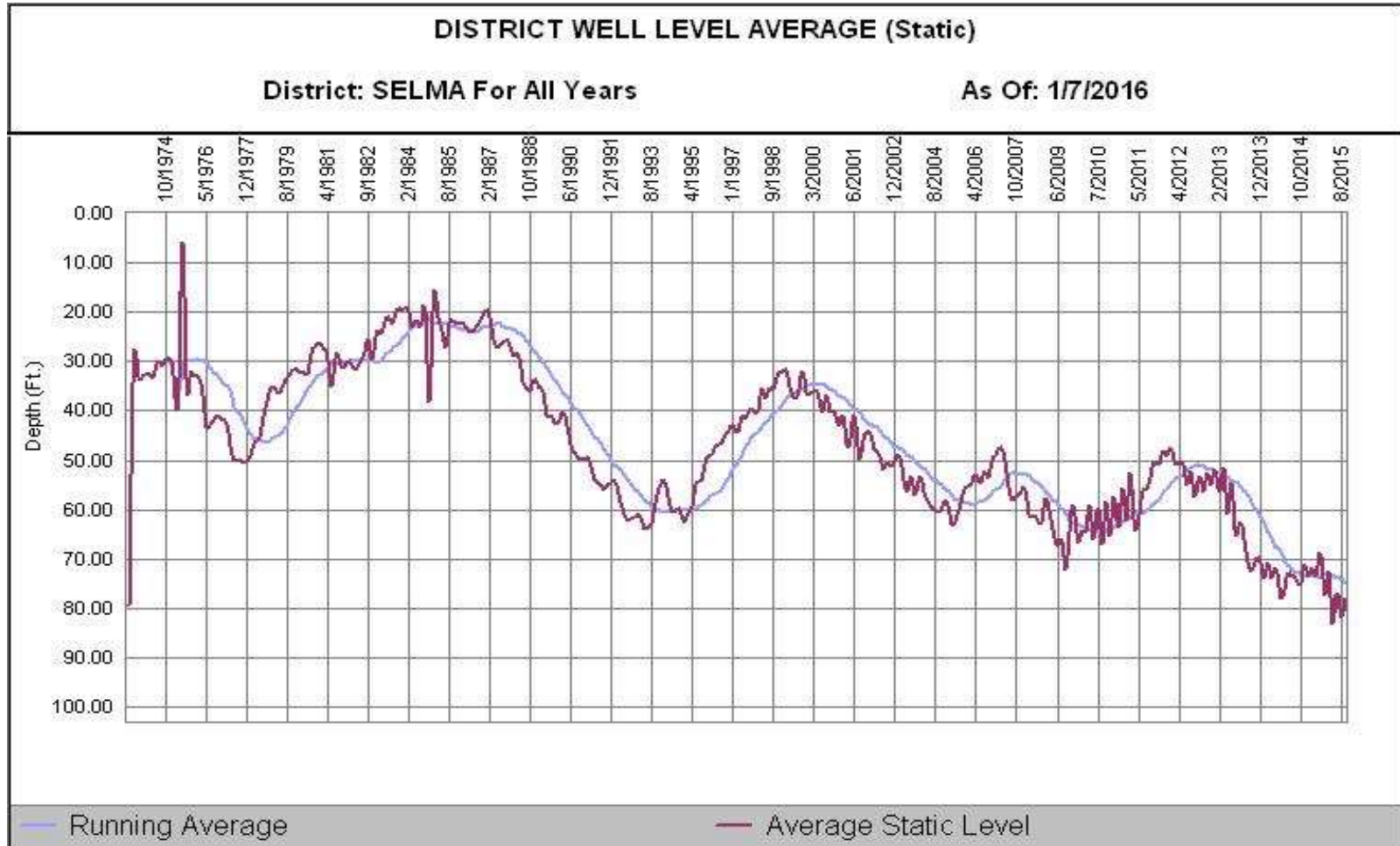
- 1) Eto values based on California Irrigation Management Information System (CIMIS), <http://www.cimis.water.ca.gov/cimis/welcome.jsp>, EvapoTranspiration (Eto) Zones Map, Zone 12
- 2) PPT, Tmax, Tmin obtained from PRISM where, PPT is total monthly rainfall, Tmax is average of maximum temperatures for given month, and Tmin is average of minimum temperatures for given month
- 3) Percent variation based on average of 1980 to present values

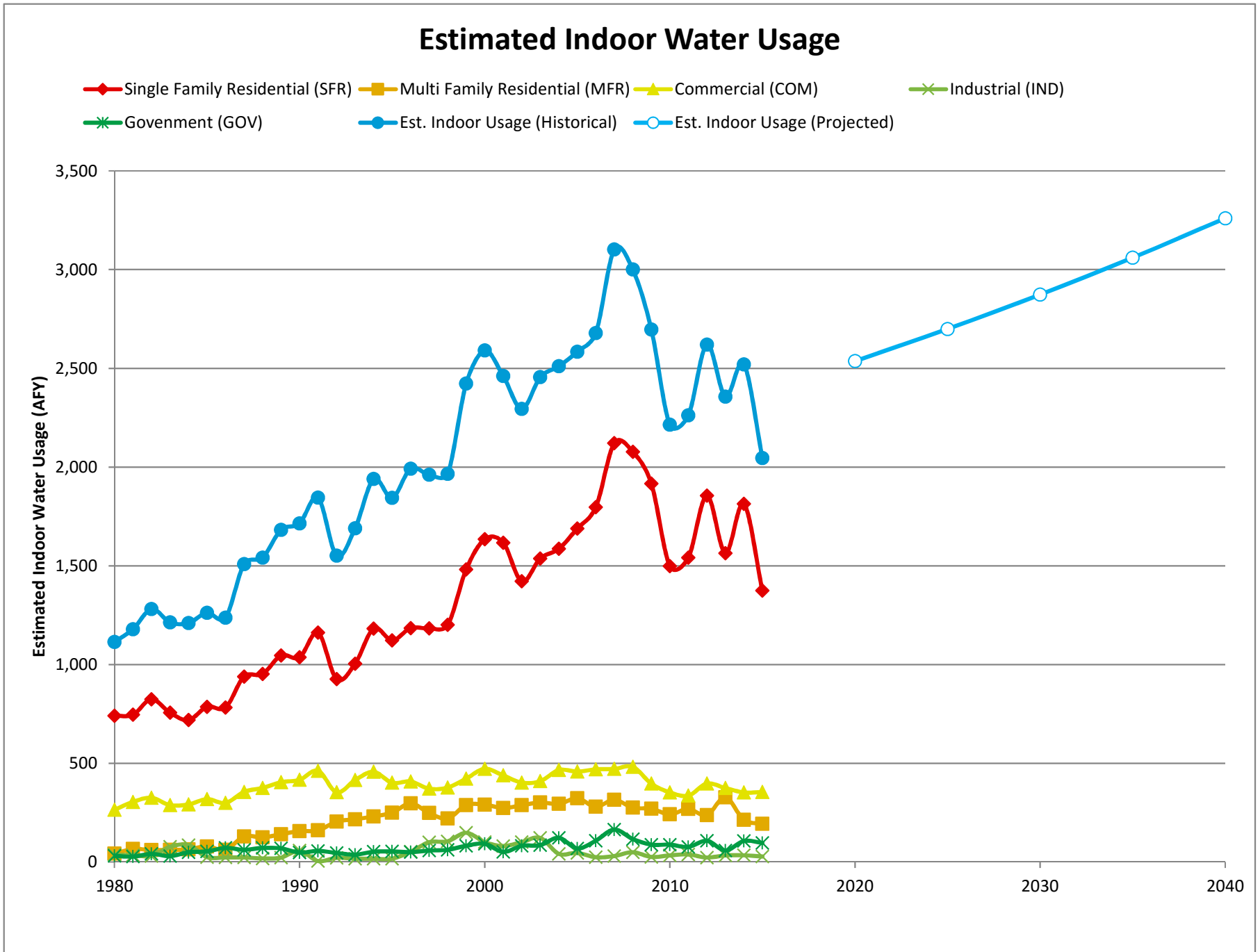
Average Monthly Temperature, Rainfall, and Monthly Eto



Water Supply and Demand Analysis and Projections

Groundwater Production Facilities





**California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections**

Estimated Indoor/Outdoor Water Usage

Year	Single Family Residential (SFR)								Multi Family Residential (MFR)				Commercial (COM)			
	SFR Jan Usage	Metered SFR Indoor Use (Annualized 90% of January Total)		Indoor Flat Rate Usage (AFY)	Total SFR Indoor Usage			MFR Jan Usage	MFR Indoor Use (Annualized 90% of January Total)			COM Jan Usage	COM Indoor Use (Annualized 90% of January Total)			
		JAN (CCF)	AFY		AF/Serv	AFY	GPD/Serv		%	(CCF)	AFY		GPD/Serv	%	(CCF)	AFY
1980	6,100	151	0.255	589	740	228	27%	1,699	42	2,686	59%	10,653	264	694	56%	
1981	6,128	152	0.254	594	746	227	26%	2,665	66	4,164	83%	12,274	304	810	62%	
1982	6,844	170	0.277	654	824	248	30%	2,435	60	3,593	65%	13,121	325	844	74%	
1983	6,457	160	0.252	596	756	225	25%	2,489	62	3,673	61%	11,622	288	728	63%	
1984	6,278	156	0.239	563	719	213	21%	2,588	64	3,819	57%	11,771	292	726	55%	
1985	6,675	165	0.249	621	786	222	23%	3,187	79	4,409	71%	12,837	318	788	61%	
1986	6,789	168	0.236	614	783	210	22%	2,484	62	3,026	38%	12,065	299	713	53%	
1987	8,154	202	0.279	736	939	249	26%	5,216	129	5,542	65%	14,317	355	823	60%	
1988	8,198	203	0.279	749	952	249	26%	5,028	125	5,021	61%	15,122	375	845	58%	
1989	8,963	222	0.303	823	1,046	270	29%	5,685	141	4,840	70%	16,288	404	898	64%	
1990	8,862	220	0.296	817	1,036	264	32%	6,303	156	5,104	71%	16,793	416	938	65%	
1991	9,934	246	0.324	915	1,162	289	40%	6,465	160	4,358	61%	18,629	462	1,051	78%	
1992	8,988	223	0.246	703	926	219	28%	8,258	205	5,077	66%	14,229	353	790	57%	
1993	11,182	277	0.256	727	1,004	228	30%	8,729	216	5,367	69%	16,739	415	911	61%	
1994	14,005	347	0.294	835	1,182	263	34%	9,319	231	5,703	71%	18,429	457	985	66%	
1995	13,991	347	0.274	776	1,123	245	32%	10,072	250	6,053	70%	16,182	401	844	60%	
1996	15,466	383	0.284	801	1,184	253	34%	11,967	297	7,159	80%	16,453	408	849	62%	
1997	16,275	404	0.277	780	1,183	247	31%	10,014	248	5,782	70%	14,967	371	763	56%	
1998	17,369	431	0.274	770	1,201	245	33%	8,901	221	5,052	67%	15,223	377	774	62%	
1999	21,977	545	0.334	937	1,481	299	36%	11,631	288	6,601	76%	17,040	422	845	59%	
2000	25,095	622	0.362	1,012	1,634	323	40%	11,720	291	6,595	79%	19,035	472	911	64%	
2001	25,273	627	0.355	990	1,617	317	38%	11,032	274	5,992	74%	17,681	438	835	60%	
2002	22,979	570	0.304	852	1,421	271	31%	11,601	288	6,263	70%	16,226	402	770	55%	
2003	26,252	651	0.319	886	1,537	285	32%	12,162	302	6,566	73%	16,511	409	788	55%	
2004	28,648	710	0.316	876	1,586	282	33%	11,877	294	6,412	70%	18,777	466	895	59%	
2005	31,533	782	0.327	907	1,689	292	37%	13,003	322	7,020	77%	18,478	458	873	60%	
2006	34,887	865	0.339	932	1,797	302	38%	11,303	280	6,102	71%	18,922	469	892	61%	
2007	41,895	1,039	0.396	1,083	2,121	354	41%	12,697	315	6,799	82%	19,012	471	899	59%	
2008	41,443	1,028	0.388	1,050	2,077	346	42%	11,102	275	5,173	71%	19,429	482	948	63%	
2009	38,690	959	0.359	957	1,916	320	43%	10,873	270	4,750	69%	16,017	397	801	55%	
2010	31,986	793	0.278	705	1,498	248	36%	9,754	242	4,192	69%	14,213	352	709	56%	
2011	35,854	889	0.284	653	1,542	254	38%	10,829	268	4,280	75%	13,562	336	684	56%	
2012	45,437	1,127	0.338	729	1,856	302	45%	9,580	238	3,787	71%	16,009	397	810	62%	
2013	39,583	981	0.283	582	1,563	252	37%	13,201	327	5,218	90%	15,092	374	762	56%	
2014	50,714	1,257	0.327	556	1,813	292	51%	8,611	213	3,404	73%	14,217	352	718	61%	
2015	45,393	1,125	0.202	249	1,374	220	53%	7,793	193	3,013	65%	14,278	354	722	74%	
2016					1,672	264			255	3,940			364	739		
2017					1,696	264			256	3,940			366	739		
2018					1,720	264			258	3,940			368	739		
2019					1,744	264			260	3,940			371	739		
2020					1,769	264			262	3,940			373	739		
2025					1,899	264			272	3,940			384	739		
2030					2,038	264			282	3,940			395	739		
2035					2,188	264			293	3,940			406	739		
2040					2,348	264			304	3,940			418	739		

Note: GPD/Service is estimated as the average of the last 5 years for given customer class.

**California Water Service Company - Selma District
Water Supply and Demand Analysis and Projections**

Estimated Indoor/Outdoor Water Usage

Year	Industrial (IND)				Government (GOV)			
	IND Jan Usage	IND Indoor Use (Annualized 90% of January Total)			GOV Jan Usage	GOV Indoor Use (Annualized 90% of January Total)		
	(CCF)	AFY	GPD/Serv	%	(CCF)	AFY	GPD/Serv	%
1980	1,506	37	2,759	72%	1,258	31	786	21%
1981	1,391	34	2,309	78%	1,108	27	683	16%
1982	1,235	31	2,037	63%	1,665	41	996	25%
1983	3,105	77	5,287	125%	1,225	30	720	19%
1984	3,452	86	5,954	184%	1,991	49	1,140	25%
1985	998	25	1,803	59%	2,187	54	1,188	26%
1986	922	23	1,701	55%	2,879	71	1,408	36%
1987	944	23	1,741	58%	2,498	62	1,136	28%
1988	735	18	1,356	45%	2,875	71	1,252	33%
1989	904	22	1,679	45%	2,794	69	1,145	35%
1990	2,331	58	4,300	99%	1,942	48	773	26%
1991	201	5	371	12%	2,276	56	904	35%
1992	864	21	1,500	53%	1,855	46	694	29%
1993	693	17	1,180	42%	1,505	37	542	21%
1994	685	17	1,166	40%	2,111	52	723	30%
1995	674	17	1,023	23%	2,161	54	678	27%
1996	2,125	53	3,118	48%	2,040	51	601	22%
1997	4,040	100	5,648	66%	2,343	58	671	22%
1998	4,236	105	5,740	68%	2,504	62	698	27%
1999	5,966	148	7,768	86%	3,318	82	893	32%
2000	4,075	101	5,058	65%	3,728	92	969	40%
2001	3,275	81	3,815	69%	2,066	51	520	20%
2002	4,070	101	4,783	79%	3,310	82	802	31%
2003	4,921	122	5,835	93%	3,457	86	820	31%
2004	1,677	42	2,173	52%	4,944	123	1,165	44%
2005	1,868	46	2,432	66%	2,777	69	631	24%
2006	987	24	1,291	38%	4,362	108	930	36%
2007	1,221	30	1,590	34%	6,636	165	1,394	46%
2008	2,002	50	2,906	64%	4,687	116	906	32%
2009	1,033	26	1,253	28%	3,553	88	647	23%
2010	1,354	34	1,577	52%	3,555	88	647	26%
2011	1,547	38	1,712	60%	3,094	77	564	25%
2012	921	23	1,037	39%	4,338	108	821	31%
2013	1,347	33	1,510	60%	2,363	59	443	18%
2014	1,377	34	1,563	56%	4,301	107	800	40%
2015	1,127	28	1,247	48%	3,892	96	724	46%
2016		32	1,414			91	670	
2017		32	1,414			93	670	
2018		33	1,414			95	670	
2019		33	1,414			97	670	
2020		33	1,414			99	670	
2025		35	1,414			110	670	
2030		37	1,414			122	670	
2035		39	1,414			135	670	
2040		41	1,414			149	670	

Estimated Indoor/Outdoor Usage			
Est. Indoor Usage	Est. Outdoor Usage	Est. Indoor Usage	Est. Outdoor Usage
AFY	AFY	%	%
1,115	2,733	29%	71%
1,179	2,752	30%	70%
1,282	2,505	34%	66%
1,214	2,889	30%	70%
1,210	3,558	25%	75%
1,263	3,408	27%	73%
1,238	3,634	25%	75%
1,508	3,615	29%	71%
1,541	3,626	30%	70%
1,682	3,395	33%	67%
1,715	2,983	37%	63%
1,845	2,462	43%	57%
1,551	3,275	32%	68%
1,690	3,283	34%	66%
1,939	3,236	37%	63%
1,844	3,408	35%	65%
1,992	3,305	38%	62%
1,961	3,753	34%	66%
1,966	3,431	36%	64%
2,422	3,705	40%	60%
2,590	3,509	42%	58%
2,461	3,767	40%	60%
2,294	4,357	34%	66%
2,455	4,457	36%	64%
2,510	4,521	36%	64%
2,584	4,064	39%	61%
2,679	4,214	39%	61%
3,102	4,289	42%	58%
3,000	4,100	42%	58%
2,696	3,867	41%	59%
2,214	3,785	37%	63%
2,261	3,629	38%	62%
2,620	3,398	44%	56%
2,357	3,756	39%	61%
2,520	2,653	49%	51%
2,046	1,906	52%	48%
2,414	4,557	35%	65%
2,444	4,619	35%	65%
2,474	4,682	35%	65%
2,505	4,746	35%	65%
2,536	4,810	35%	65%
2,699	5,149	34%	66%
2,873	5,513	34%	66%
3,060	5,904	34%	66%
3,260	6,324	34%	66%

California Water Service Company - Selma District

Water Supply and Demand Analysis and Projections

Comparison of Projected Demand and Conservation Savings Between SBx7-7 Compliance Targets and Actual Proposed Programs

Year	SBx7-7 Compliance Target (gpcd)	Anticipated GPCD with Proposed Programs*	Estimated Population	SBx7-7 Compliance Target Demand (AFY)	Undadjusted Baseline Demand (AFY)	Anticipated Demand with Proposed Programs (AFY)	Compliance Target Savings Requirement (AFY)	Savings Due to Proposed Programs (AFY)
2005-2009 Average	258	258	23,984	6,919	6,919	6,919	0	0
2010	258	258	25,650	7,400	7,400	7,400	0	0
2011	254	257	26,180	7,456	7,553	7,537	97	16
2012	251	254	26,730	7,513	7,711	7,605	198	106
2013	248	250	27,280	7,567	7,870	7,639	303	231
2014	244	247	27,850	7,621	8,034	7,705	413	329
2015	241	241	28,430	7,675	8,202	7,675	527	527
2016	236	236	29,020	7,665	8,372	7,665	707	707
2017	231	231	29,620	7,651	8,545	7,651	894	894
2018	225	225	30,240	7,635	8,724	7,635	1,089	1,089
2019	220	220	30,870	7,614	8,906	7,614	1,291	1,291
2020	215	215	31,510	7,589	9,090	7,589	1,502	1,502
2021	215	215	32,170	7,748	9,281	7,748	1,533	1,533
2022	215	215	32,840	7,909	9,474	7,909	1,565	1,565
2023	215	215	33,530	8,075	9,673	8,075	1,598	1,598
2024	215	215	34,230	8,244	9,875	8,244	1,631	1,631
2025	215	215	34,940	8,415	10,080	8,415	1,665	1,665
2026	215	215	35,670	8,590	10,290	8,590	1,700	1,700
2027	215	215	36,420	8,771	10,507	8,771	1,736	1,736
2028	215	215	37,180	8,954	10,726	8,954	1,772	1,772
2029	215	215	37,960	9,142	10,951	9,142	1,809	1,809
2030	215	215	38,760	9,335	11,182	9,335	1,847	1,847
2031	215	215	39,570	9,530	11,415	9,530	1,886	1,886
2032	215	215	40,400	9,730	11,655	9,730	1,925	1,925
2033	215	215	41,250	9,934	11,900	9,934	1,966	1,966
2034	215	215	42,120	10,144	12,151	10,144	2,007	2,007
2035	215	215	43,000	10,356	12,405	10,356	2,049	2,049
2036	215	215	43,910	10,575	12,667	10,575	2,093	2,093
2037	215	215	44,830	10,796	12,933	10,796	2,136	2,136
2038	215	215	45,780	11,025	13,207	11,025	2,182	2,182
2039	215	215	46,740	11,256	13,484	11,256	2,227	2,227
2040	215	215	47,730	11,495	13,769	11,495	2,275	2,275

*Note: The district is not projected to achieve its district-specific 2015 SBx7-7 compliance target through the proposed 2011-2015 conservation program portfolio. The district will achieve compliance with its 2015 SBx7-7 compliance target through a regional alliance. For the purpose of this analysis it is assumed that there will be a linear reduction in GPCD from 2015-2020 to achieve the district-specific 2020 SBx7-7 compliance target. The district may ultimately elect to achieve 2020 SBx7-7 compliance through a regional alliance. GPCD will remain flat from 2020 through 2040.

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