Water Resources Planning Department

Water Supply / Demand Analysis and Projections for Los Altos-Suburban District

2010

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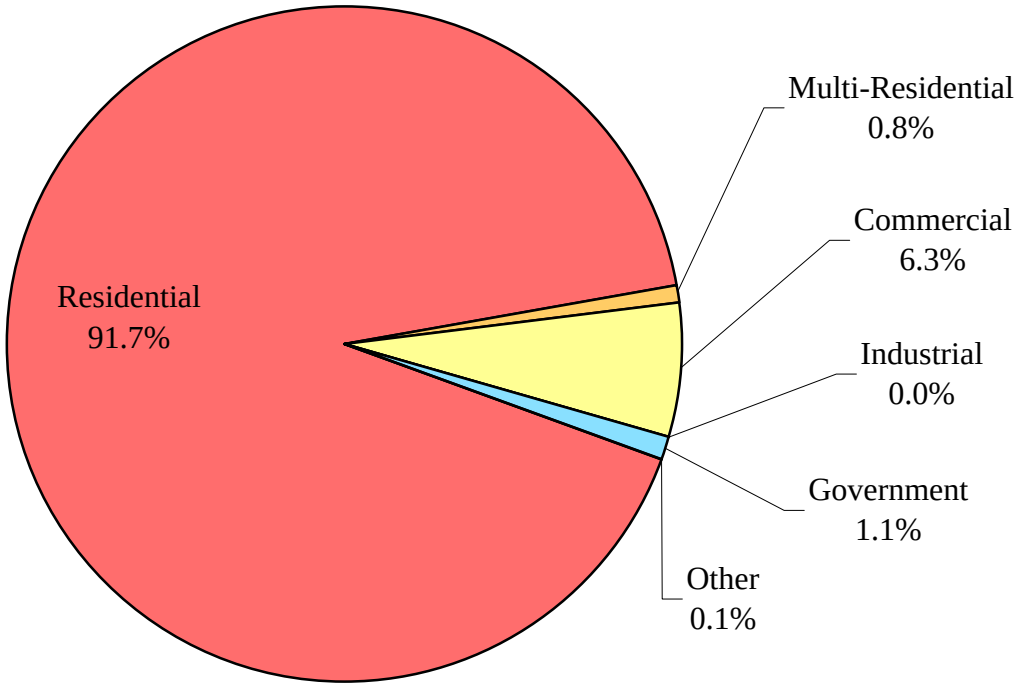
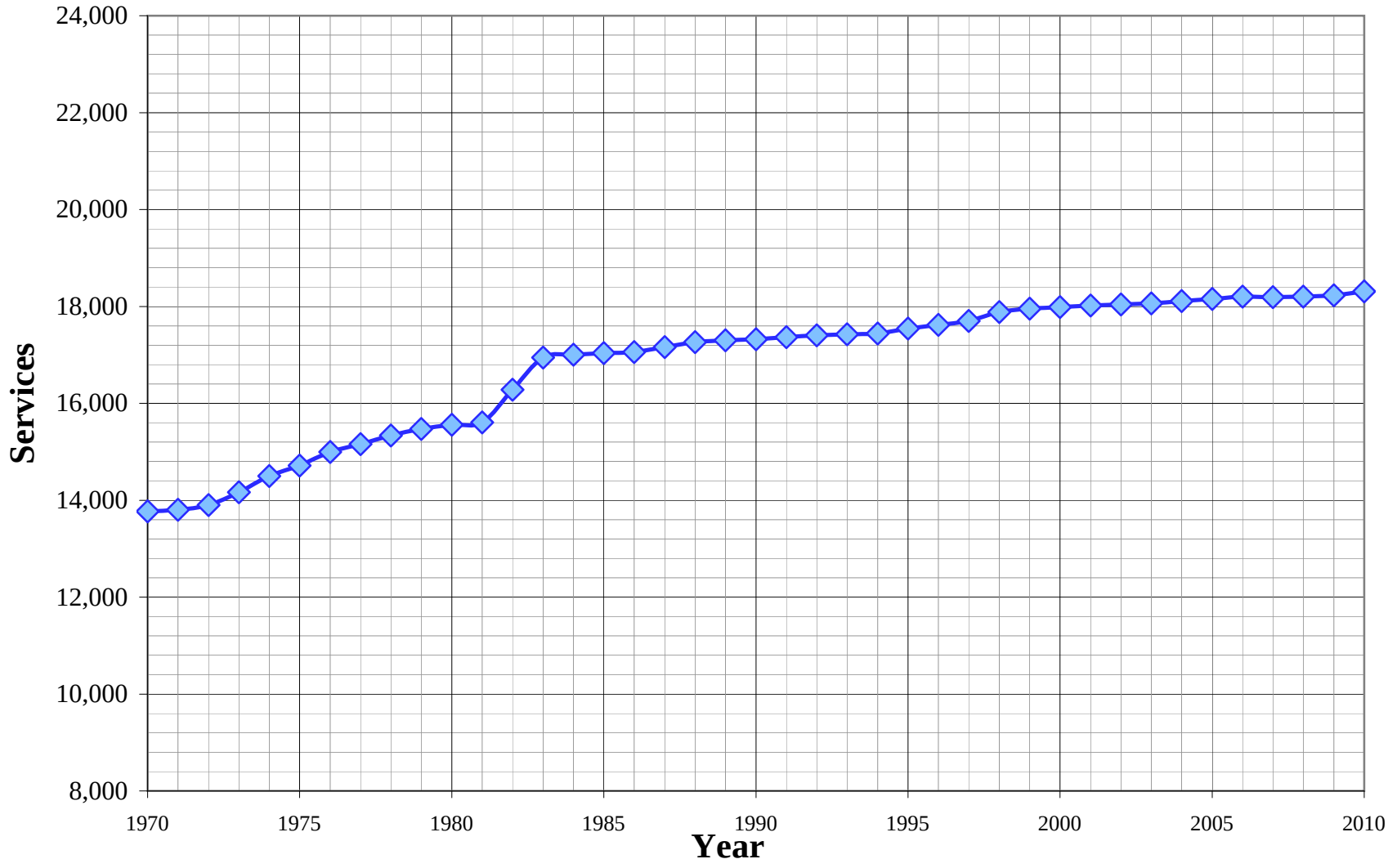
Los Altos Suburban District

Distribution of Services (2010)



Los Altos Suburban District

Historical Services



California Water Service Company - Los Altos Suburban District

Worksheet 1

Water Supply and Demand Analysis and Projections

Annual Services

Year	Residential	Multi-Residential	Multi-Res. units	Commercial	Industrial	Government	Other	Total	Annual Change
1970	12,757	0	0	823	34	138	18	13,770	
1971	12,772	0	0	832	34	152	13	13,803	33
1972	12,860	0	0	841	33	153	15	13,902	99
1973	13,066	0	0	886	50	154	10	14,166	264
1974	13,387	57	1339	858	35	156	8	14,501	335
1975	13,590	62	1767	850	44	159	9	14,714	213
1976	13,862	64	1782	862	41	162	7	14,998	284
1977	14,006	63	2128	877	39	164	9	15,158	160
1978	14,158	64	2167	903	41	160	9	15,335	177
1979	14,267	63	2149	929	40	159	15	15,473	138
1980	14,323	67	2327	954	40	160	14	15,558	85
1981	14,355	72	2381	964	39	161	14	15,605	47
1982	14,971	86	2574	1010	35	166	13	16,281	676
1983	15,581	96	2710	1055	36	169	10	16,947	666
1984	15,618	97	2714	1070	33	168	16	17,002	55
1985	15,645	99	2718	1076	32	169	16	17,037	35
1986	15,672	99	2719	1072	30	170	16	17,059	22
1987	15,790	105	2719	1048	29	171	19	17,162	103
1988	15,884	106	2787	1050	29	173	19	17,261	99
1989	15,920	105	2874	1057	29	175	17	17,303	42
1990	15,951	105	2857	1049	26	176	15	17,322	19
1991	16,012	105	2850	1049	16	173	13	17,368	46
1992	16,053	105	2849	1052	11	172	11	17,404	36
1993	16,071	105	2832	1056	11	171	11	17,425	21
1994	16,087	105	2866	1053	10	174	14	17,443	18
1995	16,189	105	2866	1050	10	177	14	17,545	102
1996	16,252	107	2975	1059	9	178	17	17,622	77
1997	16,325	109	3113	1067	8	178	16	17,703	81
1998	16,479	117	3547	1063	8	195	20	17,882	179
1999	16,546	119	3737	1068	8	196	17	17,954	72
2000	16,575	119	3692	1068	7	200	15	17,984	30
2001	16,607	119	3675	1065	7	203	18	18,019	35
2002	16,618	119	3679	1074	7	203	21	18,042	23
2003	16,635	119	3805	1079	7	205	19	18,064	22
2004	16,671	119	3806	1086	7	209	19	18,111	47
2005	16,711	119	3839	1092	7	211	13	18,153	42
2006	16,748	119	3821	1098	7	213	17	18,202	49
2007	16,769	119	3775	1106	7	174	14	18,189	-13
2008	16,729	136	3686	1134	6	185	14	18,204	15
2009	16,724	150	3578	1157	5	178	16	18,230	26
2010	16,787	150	0	1152	5	198	18	18,310	80
5 Yr. Avg.	16,736	129	3,740	1,117	6	192	15	18,196	24
10 Yr. Avg.	16,679	124	3,736	1,096	7	198	17	18,120	28
20 Yr. Avg.	16,438	116	3,392	1,076	9	189	16	17,843	46

Five year average = 2005 through 2009. Ten year average = 2000 through 2009. Twenty year average = 1990 through 2009.

Note: The 2003 Residential servuce count was set at the 4th quarter average rather than the annual average due to data inconsistencies.

California Water Service Company - Los Altos Suburban District

Worksheet 2

Water Supply and Demand Analysis and Projections

Service Growth Percentage

Year	Residential	Multi-Residential	Multi-Res. units	Commercial	Industrial	Government	Other	Total
1981	0.22%	7.46%	2.32%	1.05%	-2.50%	0.63%	0.00%	0.30%
1982	4.29%	19.44%	8.11%	4.77%	-10.26%	3.11%	-7.14%	4.33%
1983	4.07%	11.63%	5.28%	4.46%	2.86%	1.81%	-23.08%	4.09%
1984	0.24%	1.04%	0.15%	1.42%	-8.33%	-0.59%	60.00%	0.32%
1985	0.17%	2.06%	0.15%	0.56%	-3.03%	0.60%	0.00%	0.21%
1986	0.17%	0.00%	0.04%	-0.37%	-6.25%	0.59%	0.00%	0.13%
1987	0.75%	6.06%	0.00%	-2.24%	-3.33%	0.59%	18.75%	0.60%
1988	0.60%	0.95%	2.50%	0.19%	0.00%	1.17%	0.00%	0.58%
1989	0.23%	-0.94%	3.12%	0.67%	0.00%	1.16%	-10.53%	0.24%
1990	0.19%	0.00%	-0.59%	-0.76%	-10.34%	0.57%	-11.76%	0.11%
1991	0.38%	0.00%	-0.25%	0.00%	-38.46%	-1.70%	-13.33%	0.27%
1992	0.26%	0.00%	-0.04%	0.29%	-31.25%	-0.58%	-15.38%	0.21%
1993	0.11%	0.00%	-0.60%	0.38%	0.00%	-0.58%	0.00%	0.12%
1994	0.10%	0.00%	1.20%	-0.28%	-9.09%	1.75%	27.27%	0.10%
1995	0.63%	0.00%	0.00%	-0.28%	0.00%	1.72%	0.00%	0.58%
1996	0.39%	1.90%	3.80%	0.86%	-10.00%	0.56%	21.43%	0.44%
1997	0.45%	1.87%	4.64%	0.76%	-11.11%	0.00%	-5.88%	0.46%
1998	0.94%	7.34%	13.94%	-0.37%	0.00%	9.55%	25.00%	1.01%
1999	0.41%	1.71%	5.36%	0.47%	0.00%	0.51%	-15.00%	0.40%
2000	0.18%	0.00%	-1.20%	0.00%	-12.50%	2.04%	-11.76%	0.17%
2001	0.19%	0.00%	-0.46%	-0.28%	0.00%	1.50%	20.00%	0.19%
2002	0.07%	0.00%	0.11%	0.85%	0.00%	0.00%	16.67%	0.13%
2003	0.10%	0.00%	3.42%	0.47%	0.00%	0.99%	-9.52%	0.12%
2004	0.21%	0.00%	0.03%	0.65%	0.00%	1.95%	0.00%	0.26%
2005	0.24%	0.00%	0.87%	0.55%	0.00%	0.96%	-31.58%	0.23%
2006	0.22%	0.00%	-0.47%	0.55%	0.00%	0.95%	30.77%	0.27%
2007	0.13%	0.00%	-1.20%	0.73%	0.00%	-18.31%	-17.65%	-0.07%
2008	-0.24%	14.29%	-2.36%	2.53%	-14.29%	6.32%	0.00%	0.08%
2009	-0.03%	10.29%	-2.93%	2.03%	-16.67%	-3.78%	14.29%	0.14%
2010	0.38%	0.00%	-100.00%	-0.43%	0.00%	11.24%	12.50%	0.44%
5 Yr. Avg.	0.09%	4.92%	-21.39%	1.08%	-6.19%	-0.72%	7.98%	0.17%
10 Yr. Avg.	0.13%	2.46%	-10.30%	0.77%	-3.10%	0.18%	3.55%	0.18%

Five year average = 2005 through 2009. Ten year average = 2000 through 2009.

California Water Service Company - Los Altos Suburban District

Worksheet 3

Water Supply and Demand Analysis and Projections

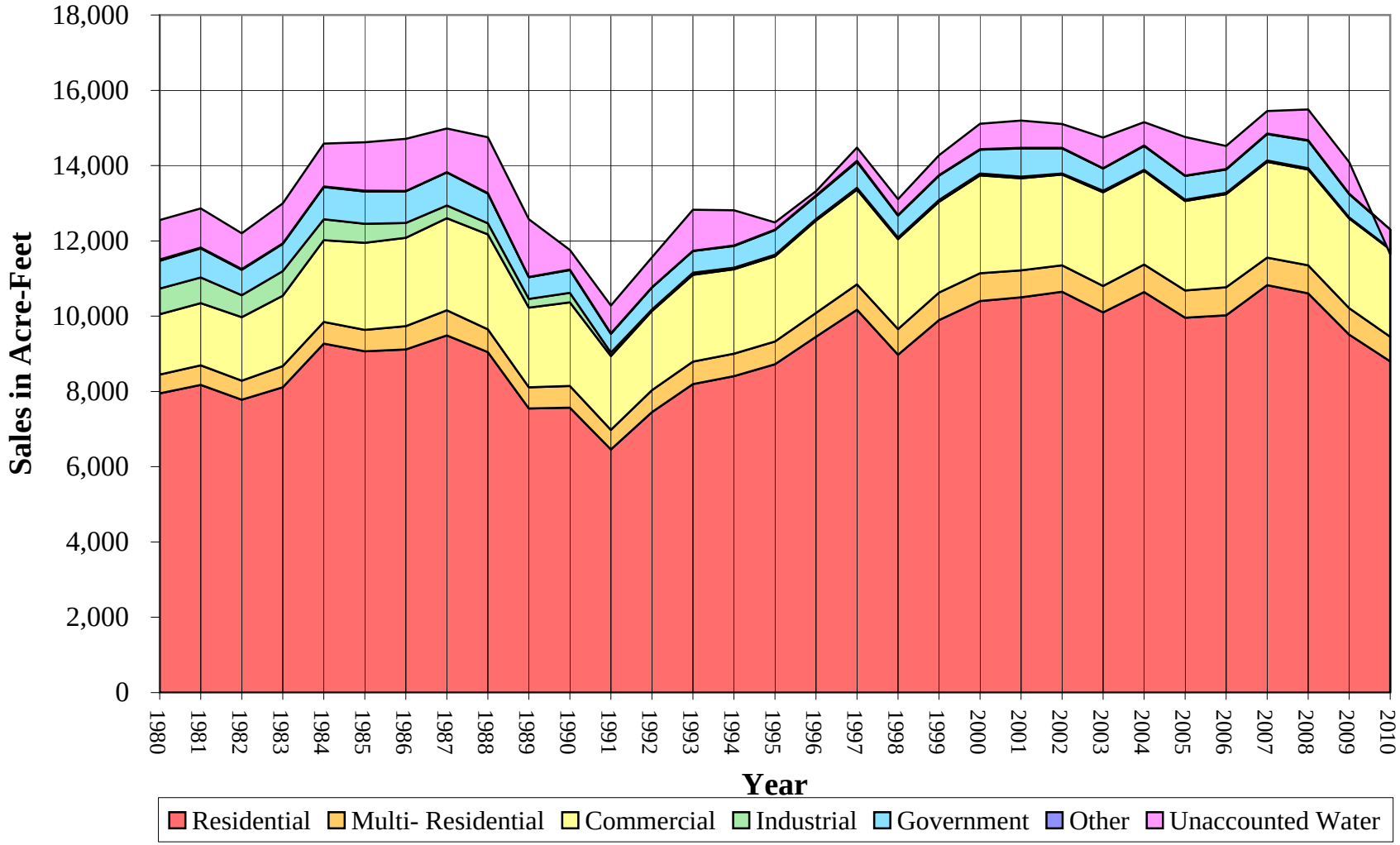
Sales (ccf)

Year	Residential	Multi-Residential	Commercial	Industrial	Government	Other	Unaccounted Water	Total(ccf) Sales	Total(ccf) Demand	Total(kgal) Demand
1980	3,461,419	217,388	698,066	297,266	323,079	13,428	458,730	5,010,646	5,469,376	4,091,378
1981	3,560,011	228,739	717,908	297,339	337,581	8,490	452,806	5,150,068	5,602,874	4,191,241
1982	3,388,622	221,196	733,224	255,179	295,444	6,589	415,311	4,900,254	5,315,565	3,976,319
1983	3,533,185	245,495	813,157	285,921	315,037	7,184	460,716	5,199,979	5,660,695	4,234,494
1984	4,039,136	250,410	945,077	242,987	372,614	5,229	496,302	5,855,453	6,351,755	4,751,443
1985	3,950,361	246,285	1,008,772	221,064	371,719	10,385	559,649	5,808,586	6,368,235	4,763,771
1986	3,969,582	269,483	1,024,942	171,536	365,090	4,767	602,298	5,805,400	6,407,698	4,793,291
1987	4,132,148	293,340	1,063,952	147,310	381,198	4,776	505,968	6,022,724	6,528,692	4,883,801
1988	3,940,358	264,736	1,097,970	127,773	343,940	5,290	646,295	5,780,067	6,426,362	4,807,253
1989	3,287,519	247,059	919,863	102,561	250,115	2,479	666,451	4,809,596	5,476,047	4,096,368
1990	3,298,142	250,213	967,455	110,803	263,247	4,835	228,108	4,894,695	5,122,803	3,832,123
1991	2,813,875	227,517	852,319	39,306	217,506	6,843	321,598	4,157,366	4,478,964	3,350,498
1992	3,244,421	253,565	915,362	20,663	252,957	3,397	346,273	4,690,365	5,036,638	3,767,667
1993	3,568,439	261,721	1,003,723	24,434	250,162	4,273	474,263	5,112,752	5,587,015	4,179,378
1994	3,662,468	260,735	974,322	20,233	248,942	8,411	405,104	5,175,111	5,580,215	4,174,291
1995	3,798,777	264,479	984,832	18,750	283,522	6,629	82,730	5,356,989	5,439,719	4,069,193
1996	4,117,223	277,019	1,066,707	17,879	265,763	8,154	48,948	5,752,745	5,801,693	4,339,968
1997	4,431,596	291,547	1,098,207	21,006	300,140	12,311	152,341	6,154,807	6,307,148	4,718,075
1998	3,909,839	295,330	1,043,160	17,768	255,513	3,371	185,924	5,524,981	5,710,905	4,272,054
1999	4,310,077	317,882	1,052,681	19,175	283,035	6,441	230,096	5,989,291	6,219,387	4,652,425
2000	4,532,313	320,478	1,132,741	21,254	276,096	4,293	295,234	6,287,175	6,582,409	4,923,984
2001	4,573,902	311,060	1,065,976	18,524	328,145	5,285	316,383	6,302,892	6,619,275	4,951,562
2002	4,636,821	308,481	1,048,645	13,876	290,415	6,617	274,289	6,304,855	6,579,144	4,921,542
2003	4,398,059	308,290	1,084,548	17,416	257,775	3,417	353,249	6,069,505	6,422,754	4,804,554
2004	4,636,227	316,981	1,084,340	13,640	273,333	5,999	269,756	6,330,520	6,600,276	4,937,350
2005	4,337,562	315,117	1,035,165	15,158	275,434	5,267	444,786	5,983,703	6,428,489	4,808,844
2006	4,366,434	322,623	1,077,967	17,228	268,224	5,398	265,976	6,057,874	6,323,850	4,730,569
2007	4,715,022	317,404	1,108,015	15,793	307,152	6,764	260,287	6,470,150	6,730,437	5,034,717
2008	4,618,452	325,927	1,109,547	14,502	317,349	6,653	355,026	6,392,430	6,747,456	5,047,448
2009	4,142,135	306,817	1,038,716	12,475	268,909	6,078	363,154	5,775,130	6,138,284	4,591,756
2010	3,831,915	285,898	1,009,581	9,470	217,286	4,572	-285,001	5,358,722	5,073,721	3,795,407
5 Yr. Avg.	4,435,921	317,578	1,073,882	15,031	287,414	6,032	337,846	6,135,857	6,473,703	4,842,667
10 Yr. Avg.	4,495,693	315,318	1,078,566	15,987	286,283	5,577	319,814	6,197,423	6,517,238	4,875,233

Five year average is from years 2005 through 2009.

Ten year average is from years 2000 through 2009.

Los Altos Suburban District
Historical Sales



California Water Service Company - Los Altos Suburban District

Worksheet 4

Water Supply and Demand Analysis and Projections

Sales (AF)

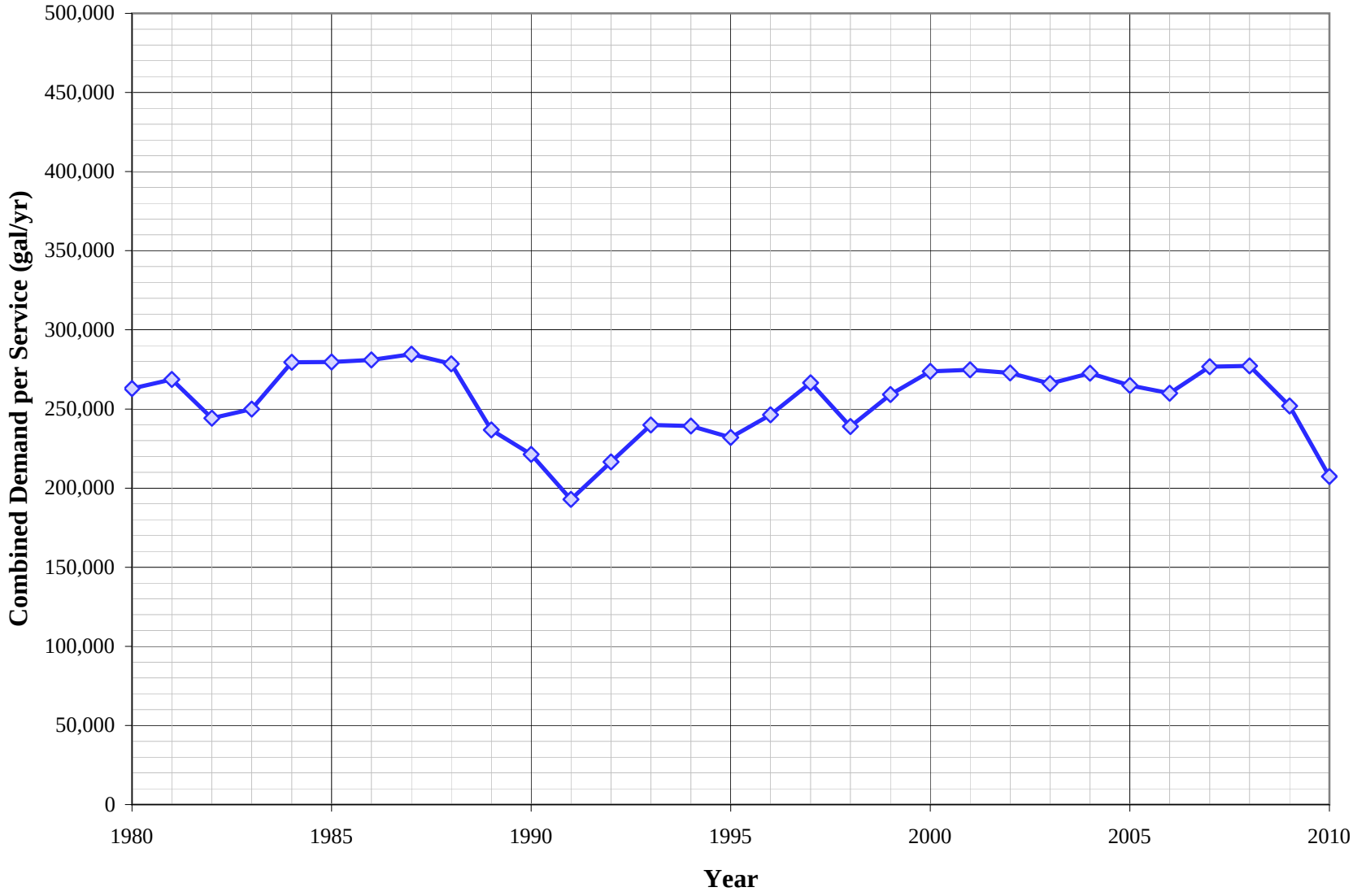
Year	Residential	Multi-Residential	Commercial	Industrial	Government	Other	Unaccounted Water	Total(AF) Sales	Total(AF) Demand	Total(Mgal) Demand
1980	7,946	499	1,603	682	742	31	1,053	11,503	12,556	4,091
1981	8,173	525	1,648	683	775	19	1,039	11,823	12,862	4,191
1982	7,779	508	1,683	586	678	15	953	11,249	12,203	3,976
1983	8,111	564	1,867	656	723	16	1,058	11,938	12,995	4,234
1984	9,273	575	2,170	558	855	12	1,139	13,442	14,582	4,751
1985	9,069	565	2,316	507	853	24	1,285	13,335	14,619	4,764
1986	9,113	619	2,353	394	838	11	1,383	13,327	14,710	4,793
1987	9,486	673	2,442	338	875	11	1,162	13,826	14,988	4,884
1988	9,046	608	2,521	293	790	12	1,484	13,269	14,753	4,807
1989	7,547	567	2,112	235	574	6	1,530	11,041	12,571	4,096
1990	7,571	574	2,221	254	604	11	524	11,237	11,760	3,832
1991	6,460	522	1,957	90	499	16	738	9,544	10,282	3,350
1992	7,448	582	2,101	47	581	8	795	10,768	11,563	3,768
1993	8,192	601	2,304	56	574	10	1,089	11,737	12,826	4,179
1994	8,408	599	2,237	46	571	19	930	11,880	12,810	4,174
1995	8,721	607	2,261	43	651	15	190	12,298	12,488	4,069
1996	9,452	636	2,449	41	610	19	112	13,206	13,319	4,340
1997	10,174	669	2,521	48	689	28	350	14,129	14,479	4,718
1998	8,976	678	2,395	41	587	8	427	12,684	13,110	4,272
1999	9,895	730	2,417	44	650	15	528	13,750	14,278	4,652
2000	10,405	736	2,600	49	634	10	678	14,433	15,111	4,924
2001	10,500	714	2,447	43	753	12	726	14,469	15,196	4,952
2002	10,645	708	2,407	32	667	15	630	14,474	15,104	4,922
2003	10,097	708	2,490	40	592	8	811	13,934	14,745	4,805
2004	10,643	728	2,489	31	627	14	619	14,533	15,152	4,937
2005	9,958	723	2,376	35	632	12	1,021	13,737	14,758	4,809
2006	10,024	741	2,475	40	616	12	611	13,907	14,518	4,731
2007	10,824	729	2,544	36	705	16	598	14,853	15,451	5,035
2008	10,603	748	2,547	33	729	15	815	14,675	15,490	5,047
2009	9,509	704	2,385	29	617	14	834	13,258	14,092	4,592
2010	8,797	656	2,318	22	499	10	(654)	12,302	11,648	3,795
5 Yr. Avg.	10,183	729	2,465	35	660	14	776	14,086	14,862	4,843
10 Yr. Avg.	10,321	724	2,476	37	657	13	734	14,227	14,962	4,875

Five year average is from years 2005 through 2009.

Ten year average is from years 2000 through 2009.

Los Altos Suburban District

Historical Demand Per Service



California Water Service Company - Los Altos Suburban District

Worksheet 5

Water Supply and Demand Analysis and Projections

Demand per Service - Gallons per Year

Year	Residential	Multi-Residential (service)	Multi-Residential (unit)	Commercial	Industrial	Government	Total Other	Unaccounted/ Total Services	Combined Demand/Serv
1980	180,781	2,427,127	69,883	547,369	5,559,261	1,510,499	717,489	22,056	262,976
1981	185,515	2,376,509	71,864	557,088	5,703,206	1,568,498	453,640	21,706	268,583
1982	169,318	1,924,025	64,284	543,059	5,453,919	1,331,370	379,147	19,082	244,231
1983	169,630	1,912,948	67,765	576,572	5,941,216	1,394,462	537,401	20,336	249,867
1984	193,462	1,931,131	69,020	660,717	5,508,088	1,659,135	244,473	21,836	279,464
1985	188,883	1,860,949	67,783	701,314	5,167,730	1,645,356	485,533	24,573	279,613
1986	189,475	2,036,235	74,140	715,214	4,277,262	1,606,508	222,873	26,411	280,983
1987	195,761	2,089,844	80,704	759,438	3,799,846	1,667,579	188,037	22,054	284,571
1988	185,570	1,868,267	71,057	782,227	3,295,891	1,487,197	208,273	28,009	278,504
1989	154,475	1,760,124	64,305	650,998	2,645,550	1,069,137	109,084	28,812	236,743
1990	154,673	1,782,594	65,514	689,901	3,187,939	1,118,878	241,122	9,851	221,229
1991	131,459	1,620,900	59,717	607,797	1,837,683	940,496	393,763	13,851	192,912
1992	151,186	1,806,474	66,578	650,892	1,405,182	1,100,145	231,012	14,883	216,483
1993	166,099	1,864,580	69,132	711,020	1,661,628	1,094,352	290,584	20,360	239,850
1994	170,306	1,857,556	68,054	692,159	1,513,534	1,070,239	449,419	17,373	239,310
1995	175,532	1,884,229	69,031	701,624	1,402,598	1,198,244	354,203	3,527	231,929
1996	189,509	1,936,679	69,655	753,496	1,486,047	1,116,879	358,801	2,078	246,281
1997	203,067	2,000,847	70,059	769,931	1,964,198	1,261,350	575,579	6,437	266,513
1998	177,484	1,888,224	62,284	734,090	1,661,423	980,190	126,084	7,778	238,902
1999	194,860	1,998,254	63,632	737,322	1,792,987	1,080,229	283,424	9,587	259,130
2000	204,549	2,014,573	64,933	793,398	2,271,300	1,032,671	214,092	12,280	273,798
2001	206,029	1,955,370	63,317	748,738	1,979,559	1,209,209	219,636	13,135	274,797
2002	208,724	1,939,158	62,724	730,392	1,482,853	1,070,175	235,708	11,372	272,783
2003	197,770	1,937,958	60,609	751,898	1,861,153	940,630	134,531	14,628	265,969
2004	208,034	1,992,591	62,301	746,909	1,457,633	978,312	236,188	11,142	272,616
2005	194,167	1,980,873	61,402	709,118	1,619,853	976,488	303,076	18,329	264,906
2006	195,027	2,028,057	63,161	734,404	1,841,063	941,998	237,529	10,931	259,893
2007	210,333	1,995,250	62,897	749,415	1,687,712	1,320,492	361,416	10,705	276,800
2008	206,518	1,792,723	66,145	731,921	1,808,042	1,283,208	355,485	14,589	277,271
2009	185,275	1,530,100	64,146	671,576	1,866,390	1,130,101	284,166	14,902	251,879
2010	170,755	1,425,777		655,572	1,416,810	820,915	190,005	-11,644	207,286
5 Yr. Avg.	198,264	1,865,401	63,550	719,287	1,764,612	1,130,457	308,334	13,891	266,150
10 Yr. Avg.	201,643	1,916,665	63,164	736,777	1,787,556	1,088,328	258,183	13,201	269,071

California Water Service Company - Los Altos Suburban District

Worksheet 6

Water Supply and Demand Analysis and Projections

Demand per Service - Gallons per Day

Year	Residential	Multi-Residential (service)	Multi-Residential (unit)	Commercial	Industrial	Government	Total Other	Unaccounted/ Total Services	Combined Demand/Serv
1981	508	6,511	197	1,526	15,625	4,297	1,243	59	736
1982	464	5,271	176	1,488	14,942	3,648	1,039	52	669
1983	465	5,241	186	1,580	16,277	3,820	1,472	56	685
1984	530	5,291	189	1,810	15,091	4,546	670	60	766
1985	517	5,098	186	1,921	14,158	4,508	1,330	67	766
1986	519	5,579	203	1,959	11,719	4,401	611	72	770
1987	536	5,726	221	2,081	10,411	4,569	515	60	780
1988	508	5,119	195	2,143	9,030	4,075	571	77	763
1989	423	4,822	176	1,784	7,248	2,929	299	79	649
1990	424	4,884	179	1,890	8,734	3,065	661	27	606
1991	360	4,441	164	1,665	5,035	2,577	1,079	38	529
1992	414	4,949	182	1,783	3,850	3,014	633	41	593
1993	455	5,108	189	1,948	4,552	2,998	796	56	657
1994	467	5,089	186	1,896	4,147	2,932	1,231	48	656
1995	481	5,162	189	1,922	3,843	3,283	970	10	635
1996	519	5,306	191	2,064	4,071	3,060	983	6	675
1997	556	5,482	192	2,109	5,381	3,456	1,577	18	730
1998	486	5,173	171	2,011	4,552	2,685	345	21	655
1999	534	5,475	174	2,020	4,912	2,960	777	26	710
2000	560	5,519	178	2,174	6,223	2,829	587	34	750
2001	564	5,357	173	2,051	5,423	3,313	602	36	753
2002	572	5,313	172	2,001	4,063	2,932	646	31	747
2003	542	5,309	166	2,060	5,099	2,577	369	40	729
2004	570	5,459	171	2,046	3,994	2,680	647	31	747
2005	532	5,427	168	1,943	4,438	2,675	830	50	726
2006	534	5,556	173	2,012	5,044	2,581	651	30	712
2007	576	5,466	172	2,053	4,624	3,618	990	29	758
2008	566	4,912	181	2,005	4,954	3,516	974	40	760
2009	508	4,192	176	1,840	5,113	3,096	779	41	690
2010	468	3,906	0	1,796	3,882	2,249	521	-32	568
5 Yr. Avg.	543	5,111	174	1,971	4,835	3,097	845	38	729
10 Yr. Avg.	552	5,251	173	2,019	4,897	2,982	707	36	737

Five year average is from years 2005 through 2009.

Ten year average is from years 2000 through 2009.

Worksheet 7

California Water Service Company - Los Altos Suburban District

Water Supply and Demand Analysis and Projections

Percentage Change in Annual Demand

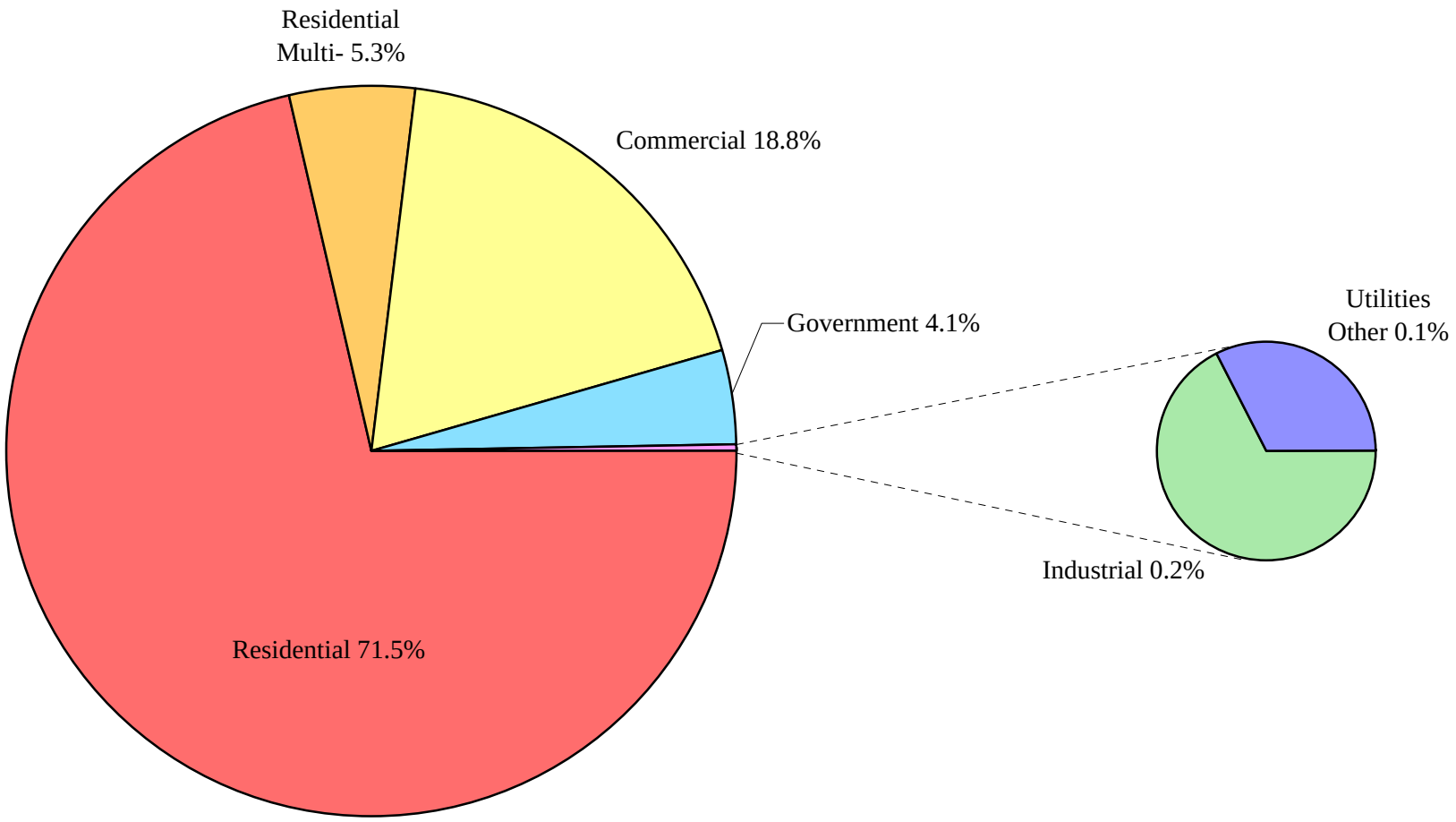
Year	Residential	Multi-Residential	Commercial	Industrial	Government	Other	Unaccounted Water	Total
1981	2.85%	5.22%	2.84%	0.02%	4.49%	-36.77%	-1.29%	2.44%
1982	-4.81%	-3.30%	2.13%	-14.18%	-12.48%	-22.39%	-8.28%	-5.13%
1983	4.27%	10.99%	10.90%	12.05%	6.63%	9.03%	10.93%	6.49%
1984	14.32%	2.00%	16.22%	-15.02%	18.28%	-27.21%	7.72%	12.21%
1985	-2.20%	-1.65%	6.74%	-9.02%	-0.24%	98.60%	12.76%	0.26%
1986	0.49%	9.42%	1.60%	-22.40%	-1.78%	-54.10%	7.62%	0.62%
1987	4.10%	8.85%	3.81%	-14.12%	4.41%	0.19%	-15.99%	1.89%
1988	-4.64%	-9.75%	3.20%	-13.26%	-9.77%	10.76%	27.73%	-1.57%
1989	-16.57%	-6.68%	-16.22%	-19.73%	-27.28%	-53.14%	3.12%	-14.79%
1990	0.32%	1.28%	5.17%	8.04%	5.25%	95.04%	-65.77%	-6.45%
1991	-14.68%	-9.07%	-11.90%	-64.53%	-17.38%	41.53%	40.99%	-12.57%
1992	15.30%	11.45%	7.40%	-47.43%	16.30%	-50.36%	7.67%	12.45%
1993	9.99%	3.22%	9.65%	18.25%	-1.10%	25.79%	36.96%	10.93%
1994	2.64%	-0.38%	-2.93%	-17.19%	-0.49%	96.84%	-14.58%	-0.12%
1995	3.72%	1.44%	1.08%	-7.33%	13.89%	-21.19%	-79.58%	-2.52%
1996	8.38%	4.74%	8.31%	-4.65%	-6.26%	23.00%	-40.83%	6.65%
1997	7.64%	5.24%	2.95%	17.49%	12.94%	50.98%	211.23%	8.71%
1998	-11.77%	1.30%	-5.01%	-15.41%	-14.87%	-72.62%	22.04%	-9.45%
1999	10.24%	7.64%	0.91%	7.92%	10.77%	91.07%	23.76%	8.90%
2000	5.16%	0.82%	7.61%	10.84%	-2.45%	-33.35%	28.31%	5.84%
2001	0.92%	-2.94%	-5.89%	-12.84%	18.85%	23.11%	7.16%	0.56%
2002	1.38%	-0.83%	-1.63%	-25.09%	-11.50%	25.20%	-13.30%	-0.61%
2003	-5.15%	-0.06%	3.42%	25.51%	-11.24%	-48.36%	28.79%	-2.38%
2004	5.42%	2.82%	-0.02%	-21.68%	6.04%	75.56%	-23.64%	2.76%
2005	-6.44%	-0.59%	-4.54%	11.13%	0.77%	-12.20%	64.88%	-2.60%
2006	0.67%	2.38%	4.13%	13.66%	-2.62%	2.49%	-40.20%	-1.63%
2007	7.98%	-1.62%	2.79%	-8.33%	14.51%	25.31%	-2.14%	6.43%
2008	-2.05%	2.69%	0.14%	-8.17%	3.32%	-1.64%	36.40%	0.25%
2009	-10.31%	-5.86%	-6.38%	-13.98%	-15.26%	-8.64%	2.29%	-9.03%
2010	-7.49%	-6.82%	-2.80%	-24.09%	-19.20%	-24.78%	-178.48%	-17.34%
5 Yr. Avg.	-2.03%	-0.60%	-0.77%	-1.14%	0.14%	1.06%	12.25%	-1.32%
10 Yr. Avg.	-0.24%	-0.32%	-0.04%	-2.90%	0.04%	4.75%	8.86%	-0.04%

Five year average is from years 2005 through 2009.

Ten year average is from years 2000 through 2009.

Los Altos Suburban District

Percent of Sales by Type of Use (2010)



California Water Service Company - Los Altos Suburban District

Worksheet 8

Water Supply and Demand Analysis and Projections

Percentage of Total Sales

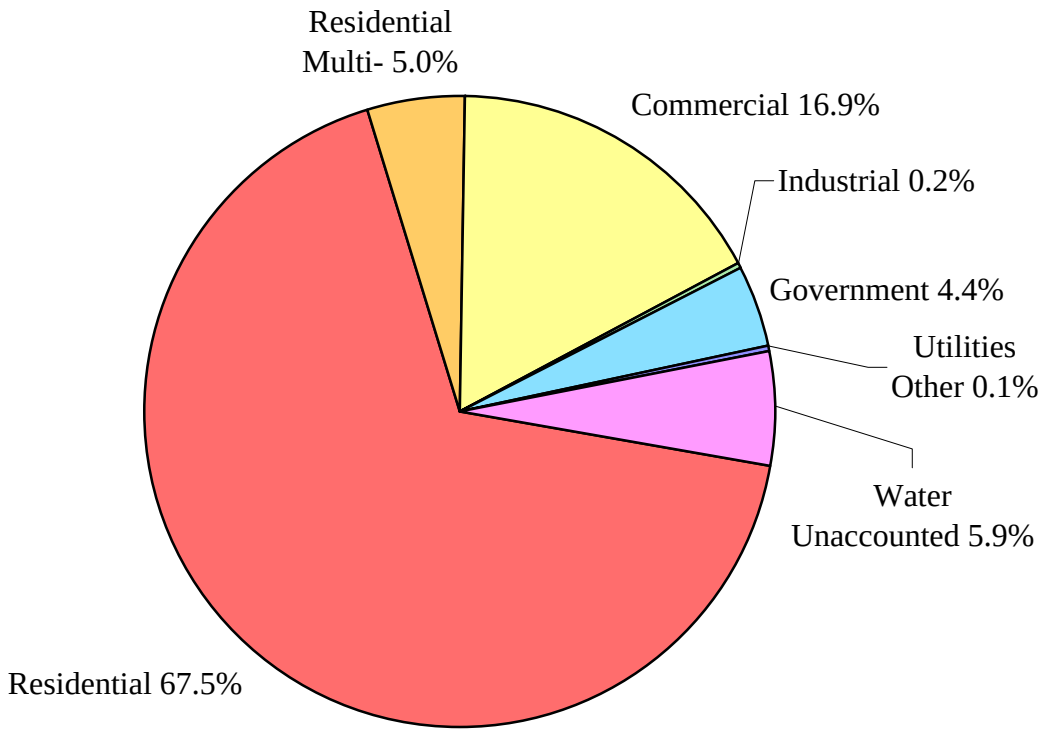
Year	Residential	Multi-Residential	Commercial	Industrial	Government	Other Utilities	Percent Total
1980	69.1%	4.3%	13.9%	5.9%	6.4%	0.3%	100.0%
1981	69.1%	4.4%	13.9%	5.8%	6.6%	0.2%	100.0%
1982	69.2%	4.5%	15.0%	5.2%	6.0%	0.1%	100.0%
1983	67.9%	4.7%	15.6%	5.5%	6.1%	0.1%	100.0%
1984	69.0%	4.3%	16.1%	4.1%	6.4%	0.1%	100.0%
1985	68.0%	4.2%	17.4%	3.8%	6.4%	0.2%	100.0%
1986	68.4%	4.6%	17.7%	3.0%	6.3%	0.1%	100.0%
1987	68.6%	4.9%	17.7%	2.4%	6.3%	0.1%	100.0%
1988	68.2%	4.6%	19.0%	2.2%	6.0%	0.1%	100.0%
1989	68.4%	5.1%	19.1%	2.1%	5.2%	0.1%	100.0%
1990	67.4%	5.1%	19.8%	2.3%	5.4%	0.1%	100.0%
1991	67.7%	5.5%	20.5%	0.9%	5.2%	0.2%	100.0%
1992	69.2%	5.4%	19.5%	0.4%	5.4%	0.1%	100.0%
1993	69.8%	5.1%	19.6%	0.5%	4.9%	0.1%	100.0%
1994	70.8%	5.0%	18.8%	0.4%	4.8%	0.2%	100.0%
1995	70.9%	4.9%	18.4%	0.4%	5.3%	0.1%	100.0%
1996	71.6%	4.8%	18.5%	0.3%	4.6%	0.1%	100.0%
1997	72.0%	4.7%	17.8%	0.3%	4.9%	0.2%	100.0%
1998	70.8%	5.3%	18.9%	0.3%	4.6%	0.1%	100.0%
1999	72.0%	5.3%	17.6%	0.3%	4.7%	0.1%	100.0%
2000	72.1%	5.1%	18.0%	0.3%	4.4%	0.1%	100.0%
2001	72.6%	4.9%	16.9%	0.3%	5.2%	0.1%	100.0%
2002	73.5%	4.9%	16.6%	0.2%	4.6%	0.1%	100.0%
2003	72.5%	5.1%	17.9%	0.3%	4.2%	0.1%	100.0%
2004	73.2%	5.0%	17.1%	0.2%	4.3%	0.1%	100.0%
2005	72.5%	5.3%	17.3%	0.3%	4.6%	0.1%	100.0%
2006	72.1%	5.3%	17.8%	0.3%	4.4%	0.1%	100.0%
2007	72.9%	4.9%	17.1%	0.2%	4.7%	0.1%	100.0%
2008	72.2%	5.1%	17.4%	0.2%	5.0%	0.1%	100.0%
2009	71.7%	5.3%	18.0%	0.2%	4.7%	0.1%	100.0%
2010	71.5%	5.3%	18.8%	0.2%	4.1%	0.1%	100.0%
5 Yr. Avg.	72.3%	5.2%	17.5%	0.2%	4.7%	0.1%	100.0%
10 Yr. Avg.	72.5%	5.1%	17.4%	0.3%	4.6%	0.1%	100.0%

Five year average is from years 2005 through 2009.

Ten year average is from years 2000 through 2009.

Los Altos Suburban District

Percent of Demand by Type of Use (2009)



California Water Service Company - Los Altos Suburban District

Worksheet 9

Water Supply and Demand Analysis and Projections

Percentage of Total Demand

Year	Residential	Multi-Residential	Commercial	Industrial	Government	Other Utilities	Unaccounted Water	Percent Total
1980	63.29%	3.97%	12.76%	5.44%	5.91%	0.25%	8.39%	100.00%
1981	63.54%	4.08%	12.81%	5.31%	6.03%	0.15%	8.08%	100.00%
1982	63.75%	4.16%	13.79%	4.80%	5.56%	0.12%	7.81%	100.00%
1983	62.42%	4.34%	14.36%	5.05%	5.57%	0.13%	8.14%	100.00%
1984	63.59%	3.94%	14.88%	3.83%	5.87%	0.08%	7.81%	100.00%
1985	62.03%	3.87%	15.84%	3.47%	5.84%	0.16%	8.79%	100.00%
1986	61.95%	4.21%	16.00%	2.68%	5.70%	0.07%	9.40%	100.00%
1987	63.29%	4.49%	16.30%	2.26%	5.84%	0.07%	7.75%	100.00%
1988	61.32%	4.12%	17.09%	1.99%	5.35%	0.08%	10.06%	100.00%
1989	60.03%	4.51%	16.80%	1.87%	4.57%	0.05%	12.17%	100.00%
1990	64.38%	4.88%	18.89%	2.16%	5.14%	0.09%	4.45%	100.00%
1991	62.82%	5.08%	19.03%	0.88%	4.86%	0.15%	7.18%	100.00%
1992	64.42%	5.03%	18.17%	0.41%	5.02%	0.07%	6.88%	100.00%
1993	63.87%	4.68%	17.97%	0.44%	4.48%	0.08%	8.49%	100.00%
1994	65.63%	4.67%	17.46%	0.36%	4.46%	0.15%	7.26%	100.00%
1995	69.83%	4.86%	18.10%	0.34%	5.21%	0.12%	1.52%	100.00%
1996	70.97%	4.77%	18.39%	0.31%	4.58%	0.14%	0.84%	100.00%
1997	70.26%	4.62%	17.41%	0.33%	4.76%	0.20%	2.42%	100.00%
1998	68.46%	5.17%	18.27%	0.31%	4.47%	0.06%	3.26%	100.00%
1999	69.30%	5.11%	16.93%	0.31%	4.55%	0.10%	3.70%	100.00%
2000	68.85%	4.87%	17.21%	0.32%	4.19%	0.07%	4.49%	100.00%
2001	69.10%	4.70%	16.10%	0.28%	4.96%	0.08%	4.78%	100.00%
2002	70.48%	4.69%	15.94%	0.21%	4.41%	0.10%	4.17%	100.00%
2003	68.48%	4.80%	16.89%	0.27%	4.01%	0.05%	5.50%	100.00%
2004	70.24%	4.80%	16.43%	0.21%	4.14%	0.09%	4.09%	100.00%
2005	67.47%	4.90%	16.10%	0.24%	4.28%	0.08%	6.92%	100.00%
2006	69.05%	5.10%	17.05%	0.27%	4.24%	0.09%	4.21%	100.00%
2007	70.06%	4.72%	16.46%	0.23%	4.56%	0.10%	3.87%	100.00%
2008	68.45%	4.83%	16.44%	0.21%	4.70%	0.10%	5.26%	100.00%
2009	67.48%	5.00%	16.92%	0.20%	4.38%	0.10%	5.92%	100.00%
2010	75.52%	5.63%	19.90%	0.19%	4.28%	0.09%	-5.62%	100.00%
5 Yr. Avg.	68.50%	4.91%	16.60%	0.23%	4.43%	0.09%	5.23%	100.00%
10 Yr. Avg.	68.97%	4.84%	16.55%	0.25%	4.39%	0.09%	4.92%	100.00%

Five year average is from years 2005 through 2009.

Ten year average is from years 2000 through 2009.

California Water Service Company - Los Altos Suburban District

Worksheet 10

Water Supply and Demand Analysis and Projections

Scenario #1: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☒ Low ☐ Average ☐ High Demand per Service for each Customer Class.

Summary of Historical Growth Rate from Worksheet 2			
Customer Type	5 Yr. Avg. Historical Growth Rate	Individual Growth Rate Selected	Notes
Single Family Residential	0.092%	0.092%	Historical growth rate used
Multi Family Residential	4.916%	0.172%	Overall growth rate used
Commercial	1.082%	0.172%	Overall growth rate used
Industrial	-6.192%	0.172%	Overall growth rate used
Government	-0.716%	0.172%	Overall growth rate used
Other	7.982%	0.172%	Overall growth rate used
Overall	0.172%	0.095%	

Summary of Lowest Demand per Service from Worksheets 5 and 6									
Demand/Serv. Units	Residential	Multi-Residential (service)	Multi-Residential (unit)	Commercial	Industrial	Government	Total Other	Unaccounted Total Serv.	Combined Demand/Serv.
Gal/Service/Yr	131,459	1,620,900	59,717	607,797	1,837,683	940,496	109,084	13,851	192,912
AF/Service/Yr	0.403	4.974	0.183	1.865	5.640	2.886	0.335	0.043	0.592
Gal/Service/Day	360	4,441	164	1,665	5,035	2,577	299	38	529

California Water Service Company - Los Altos Suburban District

Worksheet 10

Water Supply and Demand Analysis and Projections

30-year projection Summary

Scenario #1: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☒ Low ☐ Average ☐ High Demand per Service for each Customer Class.

Customer Type	Projected Services 2010	Projected Services 2015	Projected Services 2020	Projected Services 2025	Projected Services 2030	Projected Services 2035	Projected Services 2040	Services projected to be added from 2010 - 2040
Single Family Residential	16,739	16,817	16,894	16,972	17,050	17,129	17,208	468
Multi Family Residential	150	151	153	154	155	157	158	8
Commercial	1,159	1,168	1,178	1,187	1,198	1,208	1,218	59
Industrial	5	5	5	5	5	5	5	0
Government	178	180	181	183	184	186	187	9
Other	16	16	16	16	17	17	17	1
Total	18,248	18,337	18,428	18,517	18,609	18,701	18,793	546

Customer Type	Projected Demand 2010 (ccf)	Projected Demand 2015 (ccf)	Projected Demand 2020 (ccf)	Projected Demand 2025 (ccf)	Projected Demand 2030 (ccf)	Projected Demand 2035 (ccf)	Projected Demand 2040 (ccf)	Projected demand to be added from 2010 - 2040 (ccf)
Single Family Residential	2,941,690	2,955,247	2,968,866	2,982,548	2,996,293	3,010,102	3,023,974	82,283
Multi Family Residential	325,582	328,129	330,961	333,551	336,429	339,332	342,260	16,678
Commercial	941,683	949,051	957,241	964,730	973,055	981,452	989,922	48,239
Industrial	12,304	12,400	12,507	12,605	12,714	12,824	12,935	630
Government	224,176	225,930	227,880	229,663	231,645	233,644	235,660	11,484
Other	2,337	2,355	2,376	2,394	2,415	2,436	2,457	120
Unaccounted	337,891	339,538	341,216	342,880	344,575	346,279	347,992	10,101
Total	4,785,664	4,812,651	4,841,047	4,868,371	4,897,126	4,926,069	4,955,199	169,536

Customer Type	Projected Demand 2010 (AF)	Projected Demand 2015 (AF)	Projected Demand 2020 (AF)	Projected Demand 2025 (AF)	Projected Demand 2030 (AF)	Projected Demand 2035 (AF)	Projected Demand 2040 (AF)	Projected demand to be added from 2010 - 2040 (AF)
Single Family Residential	6,753	6,784	6,816	6,847	6,879	6,910	6,942	189
Multi Family Residential	747	753	760	766	772	779	786	38
Commercial	2,162	2,179	2,198	2,215	2,234	2,253	2,273	111
Industrial	28	28	29	29	29	29	30	1
Government	515	519	523	527	532	536	541	26
Other	5	5	5	5	6	6	6	0
Unaccounted	776	779	783	787	791	795	799	23
Total	10,986	11,048	11,114	11,176	11,242	11,309	11,376	389

California Water Service Company - Los Altos Suburban District

Worksheet 10

Water Supply and Demand Analysis and Projections

2000's Projections

Scenario #1: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☒ Low ☐ Average ☐ High Demand per Service for each Customer Class.

Customer Class	Actual Services 2001	Actual Services 2002	Actual Services 2003	Actual Services 2004	Actual Services 2005	Actual Services 2006	Actual Services 2007	Actual Services 2008	Actual Services 2009	Projected Services 2010
Resident	16,607	16,618	16,635	16,671	16,711	16,748	16,769	16,729	16,724	16,739
Multi- Residential	119	119	119	119	119	119	119	136	150	150
Commercial	1,065	1,074	1,079	1,086	1,092	1,098	1,106	1,134	1,157	1,159
Industrial	7	7	7	7	7	7	7	6	5	5
Government	203	203	205	209	211	213	174	185	178	178
Other	18	21	19	19	13	17	14	14	16	16
Total	18,019	18,042	18,064	18,111	18,153	18,202	18,189	18,204	18,230	18,248

Customer Class	Demand 2001(ccf)	Demand 2002(ccf)	Demand 2003(ccf)	Demand 2004(ccf)	Demand 2005(ccf)	Demand 2006(ccf)	Demand 2007(ccf)	Demand 2008(ccf)	Demand 2009(ccf)	Demand 2010(ccf)
Resident	2,918,426	2,920,359	2,923,405	2,929,673	2,936,702	2,943,204	2,946,895	2,939,865	2,938,987	2,941,690
Multi- Residential	257,852	257,852	257,852	257,852	257,852	257,852	257,852	294,687	325,023	325,582
Commercial	865,316	872,628	876,691	882,378	887,253	892,128	898,628	921,378	940,066	941,683
Industrial	17,196	17,196	17,196	17,196	17,196	17,196	17,196	14,740	12,283	12,304
Government	255,223	255,223	257,737	262,766	265,281	267,795	218,762	232,592	223,791	224,176
Other	2,625	3,062	2,771	2,771	1,896	2,479	2,042	2,042	2,333	2,337
Unaccounted	333,651	334,077	334,490	335,355	336,132	337,040	336,799	337,077	337,558	337,891
Total	4,650,288	4,660,397	4,670,142	4,687,990	4,702,312	4,717,694	4,678,173	4,742,381	4,780,041	4,785,664

Customer Class	Demand 2001(AF)	Demand 2002(AF)	Demand 2003(AF)	Demand 2004(AF)	Demand 2005(AF)	Demand 2006(AF)	Demand 2007(AF)	Demand 2008(AF)	Demand 2009(AF)	Demand 2010(AF)
Resident	6,700	6,704	6,711	6,726	6,742	6,757	6,765	6,749	6,747	6,753
Multi- Residential	592	592	592	592	592	592	592	677	746	747
Commercial	1,987	2,003	2,013	2,026	2,037	2,048	2,063	2,115	2,158	2,162
Industrial	39	39	39	39	39	39	39	34	28	28
Government	586	586	592	603	609	615	502	534	514	515
Other	6	7	6	6	4	6	5	5	5	5
Unaccounted	766	767	768	770	772	774	773	774	775	776
Total	10,676	10,699	10,721	10,762	10,795	10,830	10,740	10,887	10,974	10,986

California Water Service Company - Los Altos Suburban District

Worksheet 10

Water Supply and Demand Analysis and Projections

2010's Projections

Scenario #1: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☒ Low ☐ Average ☐ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2011	Projected Services 2012	Projected Services 2013	Projected Services 2014	Projected Services 2015	Projected Services 2016	Projected Services 2017	Projected Services 2018	Projected Services 2019	Projected Services 2020
Resident	16,755	16,770	16,786	16,801	16,817	16,832	16,847	16,863	16,878	16,894
Multi- Residential	150	151	151	151	151	152	152	152	152	153
Commercial	1,160	1,162	1,164	1,166	1,168	1,170	1,172	1,174	1,176	1,178
Industrial	5	5	5	5	5	5	5	5	5	5
Government	178	179	179	179	180	180	180	181	181	181
Other	16	16	16	16	16	16	16	16	16	16
Total	18,265	18,283	18,301	18,319	18,337	18,355	18,373	18,391	18,409	18,428

"Industrial" service growth percentages adjusted due to large fluctuation in values.

Customer Class	Demand 2011(ccf)	Demand 2012(ccf)	Demand 2013(ccf)	Demand 2014(ccf)	Demand 2015(ccf)	Demand 2016(ccf)	Demand 2017(ccf)	Demand 2018(ccf)	Demand 2019(ccf)	Demand 2020(ccf)
Resident	2,944,397	2,947,106	2,949,817	2,952,531	2,955,247	2,957,966	2,960,687	2,963,411	2,966,137	2,968,866
Multi- Residential	325,882	326,442	327,004	327,566	328,129	328,694	329,259	329,825	330,393	330,961
Commercial	942,549	944,170	945,794	947,421	949,051	950,683	952,318	953,956	955,597	957,241
Industrial	12,316	12,337	12,358	12,379	12,400	12,422	12,443	12,465	12,486	12,507
Government	224,383	224,768	225,155	225,542	225,930	226,319	226,708	227,098	227,489	227,880
Other	2,339	2,343	2,347	2,351	2,355	2,360	2,364	2,368	2,372	2,376
Unaccounted	338,202	338,535	338,869	339,203	339,538	339,873	340,208	340,544	340,880	341,216
Total	4,790,067	4,795,702	4,801,344	4,806,994	4,812,651	4,818,316	4,823,987	4,829,667	4,835,353	4,841,047

Customer Class	Demand 2011(AF)	Demand 2012(AF)	Demand 2013(AF)	Demand 2014(AF)	Demand 2015(AF)	Demand 2016(AF)	Demand 2017(AF)	Demand 2018(AF)	Demand 2019(AF)	Demand 2020(AF)
Resident	6,759	6,766	6,772	6,778	6,784	6,791	6,797	6,803	6,809	6,816
Multi- Residential	748	749	751	752	753	755	756	757	758	760
Commercial	2,164	2,168	2,171	2,175	2,179	2,182	2,186	2,190	2,194	2,198
Industrial	28	28	28	28	28	29	29	29	29	29
Government	515	516	517	518	519	520	520	521	522	523
Other	5	5	5	5	5	5	5	5	5	5
Unaccounted	776	777	778	779	779	780	781	782	783	783
Total	10,997	11,009	11,022	11,035	11,048	11,061	11,074	11,087	11,101	11,114

California Water Service Company - Los Altos Suburban District

Worksheet 10

Water Supply and Demand Analysis and Projections

2020's Projections

Scenario #1: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☒ Low ☐ Average ☐ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2021	Projected Services 2022	Projected Services 2023	Projected Services 2024	Projected Services 2025	Projected Services 2026	Projected Services 2027	Projected Services 2028	Projected Services 2029	Projected Services 2030
Resident	16,910	16,925	16,941	16,956	16,972	16,987	17,003	17,019	17,034	17,050
Multi- Residential	153	153	153	154	154	154	154	155	155	155
Commercial	1,179	1,181	1,183	1,185	1,187	1,189	1,191	1,193	1,196	1,198
Industrial	5	5	5	5	5	5	5	5	5	5
Government	181	182	182	182	183	183	183	184	184	184
Other	16	16	16	16	16	16	16	17	17	17
Total	18,444	18,463	18,481	18,499	18,517	18,536	18,554	18,572	18,591	18,609

Customer Class	Demand 2021(ccf)	Demand 2022(ccf)	Demand 2023(ccf)	Demand 2024(ccf)	Demand 2025(ccf)	Demand 2026(ccf)	Demand 2027(ccf)	Demand 2028(ccf)	Demand 2029(ccf)	Demand 2030(ccf)
Resident	2,971,598	2,974,332	2,977,068	2,979,807	2,982,548	2,985,292	2,988,039	2,990,788	2,993,539	2,996,293
Multi- Residential	331,266	331,835	332,406	332,978	333,551	334,124	334,699	335,275	335,851	336,429
Commercial	958,121	959,769	961,420	963,074	964,730	966,389	968,052	969,717	971,385	973,055
Industrial	12,519	12,541	12,562	12,584	12,605	12,627	12,649	12,670	12,692	12,714
Government	228,090	228,482	228,875	229,269	229,663	230,058	230,454	230,850	231,247	231,645
Other	2,378	2,382	2,386	2,390	2,394	2,398	2,403	2,407	2,411	2,415
Unaccounted	341,530	341,867	342,204	342,542	342,880	343,218	343,557	343,896	344,235	344,575
Total	4,845,501	4,851,207	4,856,921	4,862,642	4,868,371	4,874,107	4,879,851	4,885,602	4,891,360	4,897,126

Customer Class	Demand 2021(AF)	Demand 2022(AF)	Demand 2023(AF)	Demand 2024(AF)	Demand 2025(AF)	Demand 2026(AF)	Demand 2027(AF)	Demand 2028(AF)	Demand 2029(AF)	Demand 2030(AF)
Resident	6,822	6,828	6,834	6,841	6,847	6,853	6,860	6,866	6,872	6,879
Multi- Residential	760	762	763	764	766	767	768	770	771	772
Commercial	2,200	2,203	2,207	2,211	2,215	2,219	2,222	2,226	2,230	2,234
Industrial	29	29	29	29	29	29	29	29	29	29
Government	524	525	525	526	527	528	529	530	531	532
Other	5	5	5	5	5	6	6	6	6	6
Unaccounted	784	785	786	786	787	788	789	789	790	791
Total	11,124	11,137	11,150	11,163	11,176	11,189	11,203	11,216	11,229	11,242

California Water Service Company - Los Altos Suburban District

Worksheet 10

Water Supply and Demand Analysis and Projections

2030's Projections

Scenario #1: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☒ Low ☐ Average ☐ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2031	Projected Services 2032	Projected Services 2033	Projected Services 2034	Projected Services 2035	Projected Services 2036	Projected Services 2037	Projected Services 2038	Projected Services 2039	Projected Services 2040
Resident	17,066	17,081	17,097	17,113	17,129	17,144	17,160	17,176	17,192	17,208
Multi- Residential	156	156	156	156	157	157	157	157	158	158
Commercial	1,200	1,202	1,204	1,206	1,208	1,210	1,212	1,214	1,216	1,218
Industrial	5	5	5	5	5	5	5	5	5	5
Government	185	185	185	186	186	186	186	187	187	187
Other	17	17	17	17	17	17	17	17	17	17
Total	18,627	18,646	18,664	18,683	18,701	18,719	18,738	18,756	18,775	18,793

Customer Class	Demand 2031(ccf)	Demand 2032(ccf)	Demand 2033(ccf)	Demand 2034(ccf)	Demand 2035(ccf)	Demand 2036(ccf)	Demand 2037(ccf)	Demand 2038(ccf)	Demand 2039(ccf)	Demand 2040(ccf)
Resident	2,999,050	3,001,809	3,004,571	3,007,335	3,010,102	3,012,871	3,015,643	3,018,417	3,021,194	3,023,974
Multi- Residential	337,008	337,587	338,168	338,750	339,332	339,916	340,500	341,086	341,673	342,260
Commercial	974,729	976,406	978,085	979,767	981,452	983,141	984,832	986,525	988,222	989,922
Industrial	12,736	12,758	12,780	12,802	12,824	12,846	12,868	12,890	12,912	12,935
Government	232,043	232,442	232,842	233,243	233,644	234,046	234,448	234,852	235,255	235,660
Other	2,419	2,423	2,428	2,432	2,436	2,440	2,444	2,448	2,453	2,457
Unaccounted	344,915	345,255	345,596	345,937	346,279	346,621	346,963	347,306	347,648	347,992
Total	4,902,900	4,908,681	4,914,469	4,920,265	4,926,069	4,931,880	4,937,698	4,943,524	4,949,358	4,955,199

Customer Class	Demand 2031(AF)	Demand 2032(AF)	Demand 2033(AF)	Demand 2034(AF)	Demand 2035(AF)	Demand 2036(AF)	Demand 2037(AF)	Demand 2038(AF)	Demand 2039(AF)	Demand 2040(AF)
Resident	6,885	6,891	6,898	6,904	6,910	6,917	6,923	6,929	6,936	6,942
Multi- Residential	774	775	776	778	779	780	782	783	784	786
Commercial	2,238	2,242	2,245	2,249	2,253	2,257	2,261	2,265	2,269	2,273
Industrial	29	29	29	29	29	29	30	30	30	30
Government	533	534	535	535	536	537	538	539	540	541
Other	6	6	6	6	6	6	6	6	6	6
Unaccounted	792	793	793	794	795	796	797	797	798	799
Total	11,256	11,269	11,282	11,295	11,309	11,322	11,335	11,349	11,362	11,376

California Water Service Company - Los Altos Suburban District

Worksheet 11

Water Supply and Demand Analysis and Projections

Scenario #2: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☒ Average ☐ High Demand per Service for each Customer Class.

Summary of Historical Growth Rate from Worksheet 2			
Customer Type	5 Yr. Avg. Historical Growth Rate	Individual Growth Rate Selected	Notes
Single Family Residential	0.092%	0.092%	Historical growth rate used
Multi Family Residential	4.916%	0.172%	Overall growth rate used
Commercial	1.082%	0.172%	Overall growth rate used
Industrial	-6.192%	0.172%	Overall growth rate used
Government	-0.716%	0.172%	Overall growth rate used
Other	7.982%	0.172%	Overall growth rate used
Overall	0.172%	0.095%	

Summary of Average Demand per Service from Worksheets 5 and 6									
Demand/Serv. Units	Residential	Multi-Residential (service)	Multi-Residential (unit)	Commercial	Industrial	Government	Total Other	Unaccounted Total Serv.	Combined Demand/Serv.
Gal/Service/Yr	194,860	1,998,254	63,632	737,322	2,771,358	1,080,229	283,424	15,754	259,130
AF/Service/Yr	0.598	6.132	0.195	2.263	8.505	3.315	0.870	0.048	0.795
Gal/Service/Day	534	5,475	174	2,020	7,593	2,960	777	43	710

California Water Service Company - Los Altos Suburban District

Worksheet 11

Water Supply and Demand Analysis and Projections

30-year projection Summary

Scenario #2: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☒ Average ☐ High Demand per Service for each Customer Class.

Customer Type	Projected Services 2010	Projected Services 2015	Projected Services 2020	Projected Services 2025	Projected Services 2030	Projected Services 2035	Projected Services 2040	Services projected to be added from 2010 - 2040
Single Family Residential	16,739	16,817	16,894	16,972	17,050	17,129	17,208	468
Multi Family Residential	150	151	153	154	155	157	158	8
Commercial	1,159	1,168	1,178	1,187	1,198	1,208	1,218	59
Industrial	5	5	5	5	5	5	5	0
Government	178	180	181	183	184	186	187	9
Other	16	16	16	16	17	17	17	1
Total	18,248	18,337	18,428	18,517	18,609	18,701	18,793	546

Customer Type	Projected Demand 2010 (ccf)	Projected Demand 2015 (ccf)	Projected Demand 2020 (ccf)	Projected Demand 2025 (ccf)	Projected Demand 2030 (ccf)	Projected Demand 2035 (ccf)	Projected Demand 2040 (ccf)	Projected demand to be added from 2010 - 2040 (ccf)
Single Family Residential	4,360,434	4,380,529	4,400,717	4,420,997	4,441,372	4,461,839	4,482,402	121,967
Multi Family Residential	401,379	404,520	408,010	411,203	414,751	418,330	421,940	20,561
Commercial	1,142,361	1,151,299	1,161,235	1,170,320	1,180,420	1,190,606	1,200,881	58,519
Industrial	18,556	18,701	18,862	19,010	19,174	19,339	19,506	951
Government	257,483	259,498	261,737	263,785	266,061	268,357	270,673	13,190
Other	6,073	6,120	6,173	6,221	6,275	6,329	6,384	311
Unaccounted	384,297	386,170	388,079	389,971	391,899	393,837	395,785	11,488
Total	6,570,583	6,606,837	6,644,813	6,681,507	6,719,951	6,758,639	6,797,571	226,988

Customer Type	Projected Demand 2010 (AF)	Projected Demand 2015 (AF)	Projected Demand 2020 (AF)	Projected Demand 2025 (AF)	Projected Demand 2030 (AF)	Projected Demand 2035 (AF)	Projected Demand 2040 (AF)	Projected demand to be added from 2010 - 2040 (AF)
Single Family Residential	10,010	10,056	10,103	10,149	10,196	10,243	10,290	280
Multi Family Residential	921	929	937	944	952	960	969	47
Commercial	2,623	2,643	2,666	2,687	2,710	2,733	2,757	134
Industrial	43	43	43	44	44	44	45	2
Government	591	596	601	606	611	616	621	30
Other	14	14	14	14	14	15	15	1
Unaccounted	882	887	891	895	900	904	909	26
Total	15,084	15,167	15,254	15,339	15,427	15,516	15,605	521

California Water Service Company - Los Altos Suburban District

Worksheet 11

Water Supply and Demand Analysis and Projections

2000's Projections

Scenario #2: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☒ Average ☐ High Demand per Service for each Customer Class.

Customer Class	Actual Services 2001	Actual Services 2002	Actual Services 2003	Actual Services 2004	Actual Services 2005	Actual Services 2006	Actual Services 2007	Actual Services 2008	Actual Services 2009	Projected Services 2010
Resident	16,607	16,618	16,635	16,671	16,711	16,748	16,769	16,729	16,724	16,739
Multi- Residential	119	119	119	119	119	119	119	136	150	150
Commercial	1,065	1,074	1,079	1,086	1,092	1,098	1,106	1,134	1,157	1,159
Industrial	7	7	7	7	7	7	7	6	5	5
Government	203	203	205	209	211	213	174	185	178	178
Other	18	21	19	19	13	17	14	14	16	16
Total	18,019	18,042	18,064	18,111	18,153	18,202	18,189	18,204	18,230	18,248

Customer Class	Demand 2001(ccf)	Demand 2002(ccf)	Demand 2003(ccf)	Demand 2004(ccf)	Demand 2005(ccf)	Demand 2006(ccf)	Demand 2007(ccf)	Demand 2008(ccf)	Demand 2009(ccf)	Demand 2010(ccf)
Resident	2,918,426	4,328,815	4,333,330	4,342,621	4,353,040	4,362,678	4,368,149	4,357,729	4,356,427	4,360,434
Multi- Residential	257,852	317,881	317,881	317,881	317,881	317,881	317,881	363,292	400,690	401,379
Commercial	865,316	1,058,591	1,063,519	1,070,418	1,076,332	1,082,246	1,090,131	1,117,730	1,140,400	1,142,361
Industrial	17,196	25,933	25,933	25,933	25,933	25,933	25,933	22,229	18,524	18,556
Government	255,223	293,142	296,030	301,806	304,695	307,583	251,265	267,149	257,041	257,483
Other	2,625	7,956	7,199	7,199	4,925	6,441	5,304	5,304	6,062	6,073
Unaccounted	333,651	379,959	380,430	381,413	382,297	383,329	383,055	383,371	383,919	384,297
Total	4,650,288	6,412,277	6,424,321	6,447,271	6,465,104	6,486,091	6,441,718	6,516,804	6,563,062	6,570,583

Customer Class	Demand 2001(AF)	Demand 2002(AF)	Demand 2003(AF)	Demand 2004(AF)	Demand 2005(AF)	Demand 2006(AF)	Demand 2007(AF)	Demand 2008(AF)	Demand 2009(AF)	Demand 2010(AF)
Resident	6,700	9,938	9,948	9,969	9,993	10,015	10,028	10,004	10,001	10,010
Multi- Residential	592	730	730	730	730	730	730	834	920	921
Commercial	1,987	2,430	2,442	2,457	2,471	2,485	2,503	2,566	2,618	2,623
Industrial	39	60	60	60	60	60	60	51	43	43
Government	586	673	680	693	699	706	577	613	590	591
Other	6	18	17	17	11	15	12	12	14	14
Unaccounted	766	872	873	876	878	880	879	880	881	882
Total	10,676	14,721	14,748	14,801	14,842	14,890	14,788	14,961	15,067	15,084

California Water Service Company - Los Altos Suburban District

Worksheet 11

Water Supply and Demand Analysis and Projections

2010's Projections

Scenario #2: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☒ Average ☐ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2011	Projected Services 2012	Projected Services 2013	Projected Services 2014	Projected Services 2015	Projected Services 2016	Projected Services 2017	Projected Services 2018	Projected Services 2019	Projected Services 2020
Resident	16,755	16,770	16,786	16,801	16,817	16,832	16,847	16,863	16,878	16,894
Multi- Residential	150	151	151	151	151	152	152	152	152	153
Commercial	1,160	1,162	1,164	1,166	1,168	1,170	1,172	1,174	1,176	1,178
Industrial	5	5	5	5	5	5	5	5	5	5
Government	178	179	179	179	180	180	180	181	181	181
Other	16	16	16	16	16	16	16	16	16	16
Total	18,265	18,283	18,301	18,319	18,337	18,355	18,373	18,391	18,409	18,428

Customer Class	Demand 2011(ccf)	Demand 2012(ccf)	Demand 2013(ccf)	Demand 2014(ccf)	Demand 2015(ccf)	Demand 2016(ccf)	Demand 2017(ccf)	Demand 2018(ccf)	Demand 2019(ccf)	Demand 2020(ccf)
Resident	4,364,446	4,368,461	4,372,480	4,376,503	4,380,529	4,384,559	4,388,593	4,392,631	4,396,672	4,400,717
Multi- Residential	401,748	402,439	403,132	403,825	404,520	405,215	405,912	406,610	407,310	408,010
Commercial	1,143,412	1,145,379	1,147,349	1,149,322	1,151,299	1,153,279	1,155,263	1,157,250	1,159,241	1,161,235
Industrial	18,573	18,605	18,637	18,669	18,701	18,733	18,765	18,797	18,830	18,862
Government	257,720	258,163	258,607	259,052	259,498	259,944	260,391	260,839	261,288	261,737
Other	6,078	6,089	6,099	6,110	6,120	6,131	6,141	6,152	6,162	6,173
Unaccounted	384,651	385,030	385,410	385,790	386,170	386,551	386,933	387,314	387,696	388,079
Total	6,576,628	6,584,166	6,591,714	6,599,271	6,606,837	6,614,413	6,621,999	6,629,594	6,637,198	6,644,813

Customer Class	Demand 2011(AF)	Demand 2012(AF)	Demand 2013(AF)	Demand 2014(AF)	Demand 2015(AF)	Demand 2016(AF)	Demand 2017(AF)	Demand 2018(AF)	Demand 2019(AF)	Demand 2020(AF)
Resident	10,019	10,029	10,038	10,047	10,056	10,066	10,075	10,084	10,093	10,103
Multi- Residential	922	924	925	927	929	930	932	933	935	937
Commercial	2,625	2,629	2,634	2,638	2,643	2,648	2,652	2,657	2,661	2,666
Industrial	43	43	43	43	43	43	43	43	43	43
Government	592	593	594	595	596	597	598	599	600	601
Other	14	14	14	14	14	14	14	14	14	14
Unaccounted	883	884	885	886	887	887	888	889	890	891
Total	15,098	15,115	15,133	15,150	15,167	15,185	15,202	15,220	15,237	15,254

California Water Service Company - Los Altos Suburban District

Worksheet 11

Water Supply and Demand Analysis and Projections

2020's Projections

Scenario #2: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☒ Average ☐ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2021	Projected Services 2022	Projected Services 2023	Projected Services 2024	Projected Services 2025	Projected Services 2026	Projected Services 2027	Projected Services 2028	Projected Services 2029	Projected Services 2030
Resident	16,910	16,925	16,941	16,956	16,972	16,987	17,003	17,019	17,034	17,050
Multi- Residential	153	153	153	154	154	154	154	155	155	155
Commercial	1,179	1,181	1,183	1,185	1,187	1,189	1,191	1,193	1,196	1,198
Industrial	5	5	5	5	5	5	5	5	5	5
Government	181	182	182	182	183	183	183	184	184	184
Other	16	16	16	16	16	16	16	17	17	17
Total	18,444	18,463	18,481	18,499	18,517	18,536	18,554	18,572	18,591	18,609

Customer Class	Demand 2021(ccf)	Demand 2022(ccf)	Demand 2023(ccf)	Demand 2024(ccf)	Demand 2025(ccf)	Demand 2026(ccf)	Demand 2027(ccf)	Demand 2028(ccf)	Demand 2029(ccf)	Demand 2030(ccf)
Resident	4,404,766	4,408,818	4,412,874	4,416,934	4,420,997	4,425,065	4,429,136	4,433,211	4,437,289	4,441,372
Multi- Residential	408,386	409,088	409,792	410,497	411,203	411,910	412,619	413,328	414,039	414,751
Commercial	1,162,303	1,164,302	1,166,305	1,168,311	1,170,320	1,172,333	1,174,350	1,176,369	1,178,393	1,180,420
Industrial	18,880	18,912	18,945	18,977	19,010	19,042	19,075	19,108	19,141	19,174
Government	261,978	262,428	262,880	263,332	263,785	264,239	264,693	265,148	265,604	266,061
Other	6,179	6,189	6,200	6,210	6,221	6,232	6,243	6,253	6,264	6,275
Unaccounted	388,436	388,819	389,203	389,587	389,971	390,356	390,741	391,127	391,513	391,899
Total	6,650,926	6,658,557	6,666,197	6,673,848	6,681,507	6,689,177	6,696,856	6,704,545	6,712,243	6,719,951

Customer Class	Demand 2021(AF)	Demand 2022(AF)	Demand 2023(AF)	Demand 2024(AF)	Demand 2025(AF)	Demand 2026(AF)	Demand 2027(AF)	Demand 2028(AF)	Demand 2029(AF)	Demand 2030(AF)
Resident	10,112	10,121	10,131	10,140	10,149	10,159	10,168	10,177	10,187	10,196
Multi- Residential	938	939	941	942	944	946	947	949	951	952
Commercial	2,668	2,673	2,677	2,682	2,687	2,691	2,696	2,701	2,705	2,710
Industrial	43	43	43	44	44	44	44	44	44	44
Government	601	602	603	605	606	607	608	609	610	611
Other	14	14	14	14	14	14	14	14	14	14
Unaccounted	892	893	893	894	895	896	897	898	899	900
Total	15,269	15,286	15,304	15,321	15,339	15,356	15,374	15,392	15,409	15,427

California Water Service Company - Los Altos Suburban District

Worksheet 11

Water Supply and Demand Analysis and Projections

2030's Projections

Scenario #2: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☒ Average ☐ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2031	Projected Services 2032	Projected Services 2033	Projected Services 2034	Projected Services 2035	Projected Services 2036	Projected Services 2037	Projected Services 2038	Projected Services 2039	Projected Services 2040
Resident	17,066	17,081	17,097	17,113	17,129	17,144	17,160	17,176	17,192	17,208
Multi- Residential	156	156	156	156	157	157	157	157	158	158
Commercial	1,200	1,202	1,204	1,206	1,208	1,210	1,212	1,214	1,216	1,218
Industrial	5	5	5	5	5	5	5	5	5	5
Government	185	185	185	186	186	186	186	187	187	187
Other	17	17	17	17	17	17	17	17	17	17
Total	18,627	18,646	18,664	18,683	18,701	18,719	18,738	18,756	18,775	18,793

Customer Class	Demand 2031(ccf)	Demand 2032(ccf)	Demand 2033(ccf)	Demand 2034(ccf)	Demand 2035(ccf)	Demand 2036(ccf)	Demand 2037(ccf)	Demand 2038(ccf)	Demand 2039(ccf)	Demand 2040(ccf)
Resident	4,445,458	4,449,547	4,453,641	4,457,738	4,461,839	4,465,944	4,470,053	4,474,165	4,478,282	4,482,402
Multi- Residential	415,465	416,179	416,895	417,612	418,330	419,050	419,771	420,493	421,216	421,940
Commercial	1,182,450	1,184,484	1,186,521	1,188,562	1,190,606	1,192,654	1,194,705	1,196,760	1,198,819	1,200,881
Industrial	19,207	19,240	19,273	19,306	19,339	19,373	19,406	19,439	19,473	19,506
Government	266,519	266,977	267,436	267,896	268,357	268,819	269,281	269,744	270,208	270,673
Other	6,286	6,296	6,307	6,318	6,329	6,340	6,351	6,362	6,373	6,384
Unaccounted	392,286	392,673	393,061	393,449	393,837	394,226	394,615	395,005	395,395	395,785
Total	6,727,669	6,735,397	6,743,135	6,750,882	6,758,639	6,766,406	6,774,182	6,781,969	6,789,765	6,797,571

Customer Class	Demand 2031(AF)	Demand 2032(AF)	Demand 2033(AF)	Demand 2034(AF)	Demand 2035(AF)	Demand 2036(AF)	Demand 2037(AF)	Demand 2038(AF)	Demand 2039(AF)	Demand 2040(AF)
Resident	10,205	10,215	10,224	10,234	10,243	10,252	10,262	10,271	10,281	10,290
Multi- Residential	954	955	957	959	960	962	964	965	967	969
Commercial	2,715	2,719	2,724	2,729	2,733	2,738	2,743	2,747	2,752	2,757
Industrial	44	44	44	44	44	44	45	45	45	45
Government	612	613	614	615	616	617	618	619	620	621
Other	14	14	14	15	15	15	15	15	15	15
Unaccounted	901	901	902	903	904	905	906	907	908	909
Total	15,445	15,462	15,480	15,498	15,516	15,534	15,551	15,569	15,587	15,605

California Water Service Company - Los Altos Suburban District

Worksheet 12

Water Supply and Demand Analysis and Projections

Scenario #3: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☐ Average ☒ High Demand per Service for each Customer Class.

Summary of Historical Growth Rate from Worksheet 2			
Customer Type	5 Yr. Avg. Historical Growth Rate	Individual Growth Rate Selected	Notes
Single Family Residential	0.092%	0.092%	Historical growth rate used
Multi Family Residential	4.916%	0.172%	Overall growth rate used
Commercial	1.082%	0.172%	Overall growth rate used
Industrial	-6.192%	0.172%	Overall growth rate used
Government	-0.716%	0.172%	Overall growth rate used
Other	7.982%	0.172%	Overall growth rate used
Overall	0.172%	0.095%	

Summary of Maximum Demand per Service from Worksheets 5 and 6									
Demand/Serv. Units	Residential	Multi-Residential (service)	Multi-Residential (unit)	Commercial	Industrial	Government	Total Other	Unaccounted Total Serv.	Combined Demand/Serv.
Gal/Service/Yr	210,333	2,427,127	80,704	759,438	5,941,216	1,667,579	717,489	22,054	284,571
AF/Service/Yr	0.645	7.449	0.248	2.331	18.233	5.118	2.202	0.068	0.873
Gal/Service/Day	576	6,650	221	2,081	16,277	4,569	1,966	60	780

California Water Service Company - Los Altos Suburban District

Worksheet 12

Water Supply and Demand Analysis and Projections

30-year projection Summary

Scenario #3: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☐ Average ☒ High Demand per Service for each Customer Class.

Customer Type	Projected Services 2010	Projected Services 2015	Projected Services 2020	Projected Services 2025	Projected Services 2030	Projected Services 2035	Projected Services 2040	Services projected to be added from 2010 - 2040
Single Family Residential	16,739	16,817	16,894	16,972	17,050	17,129	17,208	468
Multi Family Residential	150	151	153	154	155	157	158	8
Commercial	1,159	1,168	1,178	1,187	1,198	1,208	1,218	59
Industrial	5	5	5	5	5	5	5	0
Government	178	180	181	183	184	186	187	9
Other	16	16	16	16	17	17	17	1
Total	18,248	18,337	18,428	18,517	18,609	18,701	18,793	546

Customer Type	Projected Demand 2010 (ccf)	Projected Demand 2015 (ccf)	Projected Demand 2020 (ccf)	Projected Demand 2025 (ccf)	Projected Demand 2030 (ccf)	Projected Demand 2035 (ccf)	Projected Demand 2040 (ccf)	Projected demand to be added from 2010 - 2040 (ccf)
Single Family Residential	4,706,676	4,728,367	4,750,157	4,772,048	4,794,040	4,816,133	4,838,328	131,652
Multi Family Residential	487,525	491,339	495,579	499,457	503,767	508,114	512,499	24,974
Commercial	1,176,627	1,185,833	1,196,066	1,205,424	1,215,827	1,226,319	1,236,901	60,275
Industrial	39,779	40,091	40,437	40,753	41,105	41,459	41,817	2,038
Government	397,483	400,593	404,050	407,212	410,726	414,270	417,845	20,362
Other	15,373	15,493	15,627	15,749	15,885	16,022	16,160	787
Unaccounted	537,982	540,605	543,276	545,925	548,624	551,337	554,065	16,082
Total	7,361,445	7,402,320	7,445,192	7,486,568	7,529,973	7,573,655	7,617,616	256,171

Customer Type	Projected Demand 2010 (AF)	Projected Demand 2015 (AF)	Projected Demand 2020 (AF)	Projected Demand 2025 (AF)	Projected Demand 2030 (AF)	Projected Demand 2035 (AF)	Projected Demand 2040 (AF)	Projected demand to be added from 2010 - 2040 (AF)
Single Family Residential	10,805	10,855	10,905	10,955	11,006	11,056	11,107	302
Multi Family Residential	1,119	1,128	1,138	1,147	1,156	1,166	1,177	57
Commercial	2,701	2,722	2,746	2,767	2,791	2,815	2,840	138
Industrial	91	92	93	94	94	95	96	5
Government	913	920	928	935	943	951	959	47
Other	35	36	36	36	36	37	37	2
Unaccounted	1,235	1,241	1,247	1,253	1,259	1,266	1,272	37
Total	16,900	16,994	17,092	17,187	17,287	17,387	17,488	588

California Water Service Company - Los Altos Suburban District

Worksheet 12

Water Supply and Demand Analysis and Projections

2000's Projections

Scenario #3: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☐ Average ☒ High Demand per Service for each Customer Class.

Customer Class	Actual Services 2001	Actual Services 2002	Actual Services 2003	Actual Services 2004	Actual Services 2005	Actual Services 2006	Actual Services 2007	Actual Services 2008	Actual Services 2009	Projected Services 2010
Resident	16,607	16,618	16,635	16,671	16,711	16,748	16,769	16,729	16,724	16,739
Multi- Residential	119	119	119	119	119	119	119	136	150	150
Commercial	1,065	1,074	1,079	1,086	1,092	1,098	1,106	1,134	1,157	1,159
Industrial	7	7	7	7	7	7	7	6	5	5
Government	203	203	205	209	211	213	174	185	178	178
Other	18	21	19	19	13	17	14	14	16	16
Total	18,019	18,042	18,064	18,111	18,153	18,202	18,189	18,204	18,230	18,248

Customer Class	Demand 2001(ccf)	Demand 2002(ccf)	Demand 2003(ccf)	Demand 2004(ccf)	Demand 2005(ccf)	Demand 2006(ccf)	Demand 2007(ccf)	Demand 2008(ccf)	Demand 2009(ccf)	Demand 2010(ccf)
Resident	2,918,426	4,672,545	4,677,419	4,687,448	4,698,695	4,709,098	4,715,003	4,703,756	4,702,350	4,706,676
Multi- Residential	257,852	386,105	386,105	386,105	386,105	386,105	386,105	441,263	486,688	487,525
Commercial	865,316	1,090,343	1,095,419	1,102,526	1,108,617	1,114,709	1,122,830	1,151,256	1,174,606	1,176,627
Industrial	17,196	55,596	55,596	55,596	55,596	55,596	55,596	47,653	39,711	39,779
Government	255,223	452,531	456,990	465,907	470,365	474,824	387,884	412,406	396,801	397,483
Other	2,625	20,142	18,224	18,224	12,469	16,305	13,428	13,428	15,346	15,373
Unaccounted	333,651	531,910	532,568	533,944	535,182	536,627	536,244	536,686	537,452	537,982
Total	4,650,288	7,209,173	7,222,321	7,249,749	7,267,029	7,293,263	7,217,090	7,306,448	7,352,954	7,361,445

Customer Class	Demand 2001(AF)	Demand 2002(AF)	Demand 2003(AF)	Demand 2004(AF)	Demand 2005(AF)	Demand 2006(AF)	Demand 2007(AF)	Demand 2008(AF)	Demand 2009(AF)	Demand 2010(AF)
Resident	6,700	10,727	10,738	10,761	10,787	10,811	10,824	10,798	10,795	10,805
Multi- Residential	592	886	886	886	886	886	886	1,013	1,117	1,119
Commercial	1,987	2,503	2,515	2,531	2,545	2,559	2,578	2,643	2,697	2,701
Industrial	39	128	128	128	128	128	128	109	91	91
Government	586	1,039	1,049	1,070	1,080	1,090	890	947	911	913
Other	6	46	42	42	29	37	31	31	35	35
Unaccounted	766	1,221	1,223	1,226	1,229	1,232	1,231	1,232	1,234	1,235
Total	10,676	16,550	16,580	16,643	16,683	16,743	16,568	16,773	16,880	16,900

California Water Service Company - Los Altos Suburban District

Worksheet 12

Water Supply and Demand Analysis and Projections

2010's Projections

Scenario #3: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☐ Average ☒ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2011	Projected Services 2012	Projected Services 2013	Projected Services 2014	Projected Services 2015	Projected Services 2016	Projected Services 2017	Projected Services 2018	Projected Services 2019	Projected Services 2020
Resident	16,755	16,770	16,786	16,801	16,817	16,832	16,847	16,863	16,878	16,894
Multi- Residential	150	151	151	151	151	152	152	152	152	153
Commercial	1,160	1,162	1,164	1,166	1,168	1,170	1,172	1,174	1,176	1,178
Industrial	5	5	5	5	5	5	5	5	5	5
Government	178	179	179	179	180	180	180	181	181	181
Other	16	16	16	16	16	16	16	16	16	16
Total	18,265	18,283	18,301	18,319	18,337	18,355	18,373	18,391	18,409	18,428

Customer Class	Demand 2011(ccf)	Demand 2012(ccf)	Demand 2013(ccf)	Demand 2014(ccf)	Demand 2015(ccf)	Demand 2016(ccf)	Demand 2017(ccf)	Demand 2018(ccf)	Demand 2019(ccf)	Demand 2020(ccf)
Resident	4,711,006	4,715,340	4,719,678	4,724,021	4,728,367	4,732,717	4,737,071	4,741,429	4,745,791	4,750,157
Multi- Residential	487,973	488,813	489,653	490,495	491,339	492,184	493,031	493,879	494,728	495,579
Commercial	1,177,709	1,179,735	1,181,764	1,183,797	1,185,833	1,187,872	1,189,915	1,191,962	1,194,012	1,196,066
Industrial	39,816	39,884	39,953	40,022	40,091	40,160	40,229	40,298	40,367	40,437
Government	397,849	398,533	399,219	399,906	400,593	401,282	401,973	402,664	403,357	404,050
Other	15,387	15,413	15,440	15,466	15,493	15,520	15,546	15,573	15,600	15,627
Unaccounted	538,477	539,008	539,540	540,072	540,605	541,138	541,672	542,206	542,741	543,276
Total	7,368,218	7,376,727	7,385,247	7,393,778	7,402,320	7,410,873	7,419,436	7,428,011	7,436,596	7,445,192

Customer Class	Demand 2011(AF)	Demand 2012(AF)	Demand 2013(AF)	Demand 2014(AF)	Demand 2015(AF)	Demand 2016(AF)	Demand 2017(AF)	Demand 2018(AF)	Demand 2019(AF)	Demand 2020(AF)
Resident	10,815	10,825	10,835	10,845	10,855	10,865	10,875	10,885	10,895	10,905
Multi- Residential	1,120	1,122	1,124	1,126	1,128	1,130	1,132	1,134	1,136	1,138
Commercial	2,704	2,708	2,713	2,718	2,722	2,727	2,732	2,736	2,741	2,746
Industrial	91	92	92	92	92	92	92	93	93	93
Government	913	915	916	918	920	921	923	924	926	928
Other	35	35	35	36	36	36	36	36	36	36
Unaccounted	1,236	1,237	1,239	1,240	1,241	1,242	1,244	1,245	1,246	1,247
Total	16,915	16,935	16,954	16,974	16,994	17,013	17,033	17,052	17,072	17,092

California Water Service Company - Los Altos Suburban District

Worksheet 12

Water Supply and Demand Analysis and Projections

2020's Projections

Scenario #3: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☐ Average ☒ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2021	Projected Services 2022	Projected Services 2023	Projected Services 2024	Projected Services 2025	Projected Services 2026	Projected Services 2027	Projected Services 2028	Projected Services 2029	Projected Services 2030
Resident	16,910	16,925	16,941	16,956	16,972	16,987	17,003	17,019	17,034	17,050
Multi- Residential	153	153	153	154	154	154	154	155	155	155
Commercial	1,179	1,181	1,183	1,185	1,187	1,189	1,191	1,193	1,196	1,198
Industrial	5	5	5	5	5	5	5	5	5	5
Government	181	182	182	182	183	183	183	184	184	184
Other	16	16	16	16	16	16	16	17	17	17
Total	18,444	18,463	18,481	18,499	18,517	18,536	18,554	18,572	18,591	18,609

Customer Class	Demand 2021(ccf)	Demand 2022(ccf)	Demand 2023(ccf)	Demand 2024(ccf)	Demand 2025(ccf)	Demand 2026(ccf)	Demand 2027(ccf)	Demand 2028(ccf)	Demand 2029(ccf)	Demand 2030(ccf)
Resident	4,754,527	4,758,902	4,763,280	4,767,662	4,772,048	4,776,438	4,780,833	4,785,231	4,789,634	4,794,040
Multi- Residential	496,035	496,888	497,743	498,599	499,457	500,316	501,176	502,038	502,902	503,767
Commercial	1,197,166	1,199,226	1,201,288	1,203,354	1,205,424	1,207,498	1,209,574	1,211,655	1,213,739	1,215,827
Industrial	40,474	40,543	40,613	40,683	40,753	40,823	40,893	40,964	41,034	41,105
Government	404,422	405,118	405,815	406,513	407,212	407,912	408,614	409,317	410,021	410,726
Other	15,641	15,668	15,695	15,722	15,749	15,776	15,803	15,830	15,857	15,885
Unaccounted	543,776	544,312	544,849	545,387	545,925	546,464	547,003	547,543	548,083	548,624
Total	7,452,042	7,460,657	7,469,283	7,477,920	7,486,568	7,495,227	7,503,897	7,512,578	7,521,270	7,529,973

Customer Class	Demand 2021(AF)	Demand 2022(AF)	Demand 2023(AF)	Demand 2024(AF)	Demand 2025(AF)	Demand 2026(AF)	Demand 2027(AF)	Demand 2028(AF)	Demand 2029(AF)	Demand 2030(AF)
Resident	10,915	10,925	10,935	10,945	10,955	10,965	10,975	10,985	10,996	11,006
Multi- Residential	1,139	1,141	1,143	1,145	1,147	1,149	1,151	1,153	1,155	1,156
Commercial	2,748	2,753	2,758	2,763	2,767	2,772	2,777	2,782	2,786	2,791
Industrial	93	93	93	93	94	94	94	94	94	94
Government	928	930	932	933	935	936	938	940	941	943
Other	36	36	36	36	36	36	36	36	36	36
Unaccounted	1,248	1,250	1,251	1,252	1,253	1,255	1,256	1,257	1,258	1,259
Total	17,108	17,127	17,147	17,167	17,187	17,207	17,227	17,247	17,267	17,287

California Water Service Company - Los Altos Suburban District

Worksheet 12

Water Supply and Demand Analysis and Projections

2030's Projections

Scenario #3: Based on Maintaining Growth at the ☐ 10-Year ☒ 5-Year Average Annual Growth and ☐ Low ☐ Average ☒ High Demand per Service for each Customer Class.

Customer Class	Projected Services 2031	Projected Services 2032	Projected Services 2033	Projected Services 2034	Projected Services 2035	Projected Services 2036	Projected Services 2037	Projected Services 2038	Projected Services 2039	Projected Services 2040
Resident	17,066	17,081	17,097	17,113	17,129	17,144	17,160	17,176	17,192	17,208
Multi- Residential	156	156	156	156	157	157	157	157	158	158
Commercial	1,200	1,202	1,204	1,206	1,208	1,210	1,212	1,214	1,216	1,218
Industrial	5	5	5	5	5	5	5	5	5	5
Government	185	185	185	186	186	186	186	187	187	187
Other	17	17	17	17	17	17	17	17	17	17
Total	18,627	18,646	18,664	18,683	18,701	18,719	18,738	18,756	18,775	18,793

Customer Class	Demand 2031(ccf)	Demand 2032(ccf)	Demand 2033(ccf)	Demand 2034(ccf)	Demand 2035(ccf)	Demand 2036(ccf)	Demand 2037(ccf)	Demand 2038(ccf)	Demand 2039(ccf)	Demand 2040(ccf)
Resident	4,798,451	4,802,865	4,807,284	4,811,706	4,816,133	4,820,564	4,824,999	4,829,438	4,833,881	4,838,328
Multi- Residential	504,633	505,501	506,371	507,242	508,114	508,988	509,864	510,740	511,619	512,499
Commercial	1,217,918	1,220,013	1,222,111	1,224,213	1,226,319	1,228,428	1,230,541	1,232,657	1,234,778	1,236,901
Industrial	41,175	41,246	41,317	41,388	41,459	41,531	41,602	41,674	41,745	41,817
Government	411,432	412,140	412,849	413,559	414,270	414,983	415,697	416,412	417,128	417,845
Other	15,912	15,939	15,967	15,994	16,022	16,049	16,077	16,105	16,132	16,160
Unaccounted	549,166	549,708	550,251	550,794	551,337	551,882	552,427	552,972	553,518	554,065
Total	7,538,687	7,547,412	7,556,149	7,564,896	7,573,655	7,582,425	7,591,206	7,599,998	7,608,801	7,617,616

Customer Class	Demand 2031(AF)	Demand 2032(AF)	Demand 2033(AF)	Demand 2034(AF)	Demand 2035(AF)	Demand 2036(AF)	Demand 2037(AF)	Demand 2038(AF)	Demand 2039(AF)	Demand 2040(AF)
Resident	11,016	11,026	11,036	11,046	11,056	11,067	11,077	11,087	11,097	11,107
Multi- Residential	1,158	1,160	1,162	1,164	1,166	1,168	1,170	1,173	1,175	1,177
Commercial	2,796	2,801	2,806	2,810	2,815	2,820	2,825	2,830	2,835	2,840
Industrial	95	95	95	95	95	95	96	96	96	96
Government	945	946	948	949	951	953	954	956	958	959
Other	37	37	37	37	37	37	37	37	37	37
Unaccounted	1,261	1,262	1,263	1,264	1,266	1,267	1,268	1,269	1,271	1,272
Total	17,307	17,327	17,347	17,367	17,387	17,407	17,427	17,447	17,468	17,488

California Water Service Company - Los Altos Suburban District

Worksheet 13

Water Supply and Demand Analysis and Projections

Scenario #4: Based on Maintaining Growth at the ☒ 10-Year ☐ 5-Year Average Annual Growth

Summary of Historical Growth Rate from Worksheet 2			
Customer Type	10 Yr. Avg. Historical Growth Rate	Individual Growth Rate Selected	Notes
Single Family Residential	0.127%	0.127%	Historical growth rate used
Multi Family Residential	2.458%	0.179%	Overall growth rate used
Commercial	0.765%	0.765%	Historical growth rate used
Industrial	-3.096%	0.179%	Overall growth rate used
Government	0.182%	0.179%	Overall growth rate used
Other	3.548%	0.179%	Overall growth rate used
Overall	0.179%	0.162%	

California Water Service Company - Los Altos Suburban District

Worksheet 13

Water Supply and Demand Analysis and Projections

30-year projection Summary

Scenario #4: Based on Maintaining Growth at the ☒ 10-Year ☐ 5-Year Average Annual Growth

Customer Type	Projected Services 2010	Projected Services 2015	Projected Services 2020	Projected Services 2025	Projected Services 2030	Projected Services 2035	Projected Services 2040	Services projected to be added from 2010 - 2040
Single Family Residential	16,745	16,852	16,959	17,067	17,176	17,285	17,395	650
Multi Family Residential	150	152	153	154	156	157	158	8
Commercial	1,166	1,203	1,250	1,291	1,341	1,384	1,438	272
Industrial	5	5	5	5	5	5	5	0
Government	178	180	181	183	185	186	188	10
Other	16	16	16	16	17	17	17	1
Total	18,261	18,408	18,565	18,716	18,878	19,034	19,201	940

California Water Service Company - Los Altos Suburban District

Worksheet 13

Water Supply and Demand Analysis and Projections

Scenario #4: Based on Maintaining Growth at the ☒ 10-Year ☐ 5-Year Average Annual Growth

2000's Projections

Customer Type	Actual Services 2001	Actual Services 2002	Actual Services 2003	Actual Services 2004	Actual Services 2005	Actual Services 2006	Actual Services 2007	Actual Services 2008	Actual Services 2009	Projected Services 2010
Resident	16,607	16,618	16,635	16,671	16,711	16,748	16,769	16,729	16,724	16,745
Multi- Residential	119	119	119	119	119	119	119	136	150	150
Commercial	1,068	1,065	1,079	1,086	1,092	1,098	1,106	1,134	1,157	1,166
Industrial	7	7	7	7	7	7	7	6	5	5
Government	200	203	205	209	211	213	174	185	178	178
Other	15	18	21	19	13	17	14	14	16	16
Total	18,016	18,030	18,066	18,111	18,153	18,202	18,189	18,204	18,230	18,261

2010's Projections

Customer Type	Projected Services 2011	Projected Services 2012	Projected Services 2013	Projected Services 2014	Projected Services 2015	Projected Services 2016	Projected Services 2017	Projected Services 2018	Projected Services 2019	Projected Services 2020
Resident	16,767	16,788	16,809	16,830	16,852	16,873	16,895	16,916	16,938	16,959
Multi- Residential	150	151	151	151	152	152	152	152	153	153
Commercial	1,167	1,176	1,185	1,194	1,203	1,213	1,222	1,231	1,241	1,250
Industrial	5	5	5	5	5	5	5	5	5	5
Government	179	179	179	180	180	180	180	181	181	181
Other	16	16	16	16	16	16	16	16	16	16
Total	18,284	18,315	18,346	18,377	18,408	18,439	18,470	18,502	18,533	18,565

California Water Service Company - Los Altos Suburban District

Worksheet 13

Water Supply and Demand Analysis and Projections

2020's Projections

Scenario #4: Based on Maintaining Growth at the ☒ 10-Year ☐ 5-Year Average Annual Growth

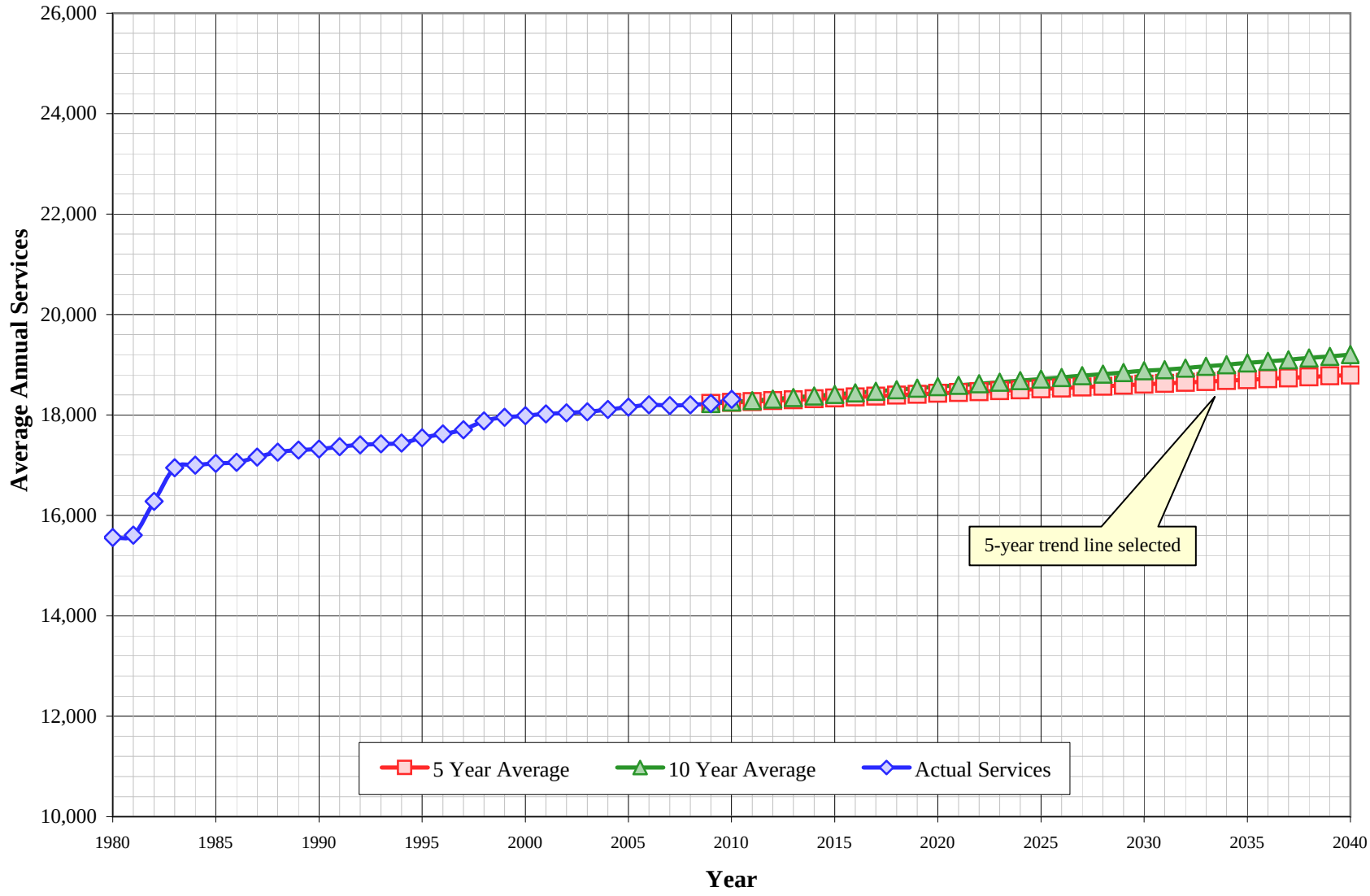
Customer Type	Projected Services 2021	Projected Services 2022	Projected Services 2023	Projected Services 2024	Projected Services 2025	Projected Services 2026	Projected Services 2027	Projected Services 2028	Projected Services 2029	Projected Services 2030
Resident	16,981	17,002	17,024	17,045	17,067	17,089	17,110	17,132	17,154	17,176
Multi- Residential	153	153	154	154	154	154	155	155	155	156
Commercial	1,252	1,261	1,271	1,281	1,291	1,300	1,310	1,320	1,330	1,341
Industrial	5	5	5	5	5	5	5	5	5	5
Government	182	182	182	183	183	183	184	184	184	185
Other	16	16	16	16	16	16	17	17	17	17
Total	18,589	18,620	18,652	18,684	18,716	18,749	18,781	18,813	18,846	18,878

2030's Projections

Customer Type	Projected Services 2031	Projected Services 2032	Projected Services 2033	Projected Services 2034	Projected Services 2035	Projected Services 2036	Projected Services 2037	Projected Services 2038	Projected Services 2039	Projected Services 2040
Resident	17,198	17,219	17,241	17,263	17,285	17,307	17,329	17,351	17,373	17,395
Multi- Residential	156	156	156	157	157	157	157	158	158	158
Commercial	1,342	1,353	1,363	1,373	1,384	1,395	1,405	1,416	1,427	1,438
Industrial	5	5	5	5	5	5	5	5	5	5
Government	185	185	186	186	186	187	187	187	188	188
Other	17	17	17	17	17	17	17	17	17	17
Total	18,902	18,935	18,968	19,001	19,034	19,067	19,101	19,134	19,167	19,201

Los Altos Suburban District

Historical & Projected Services



California Water Service Company - Los Altos Suburban District

Worksheet 15

Water Supply and Demand Analysis and Projections

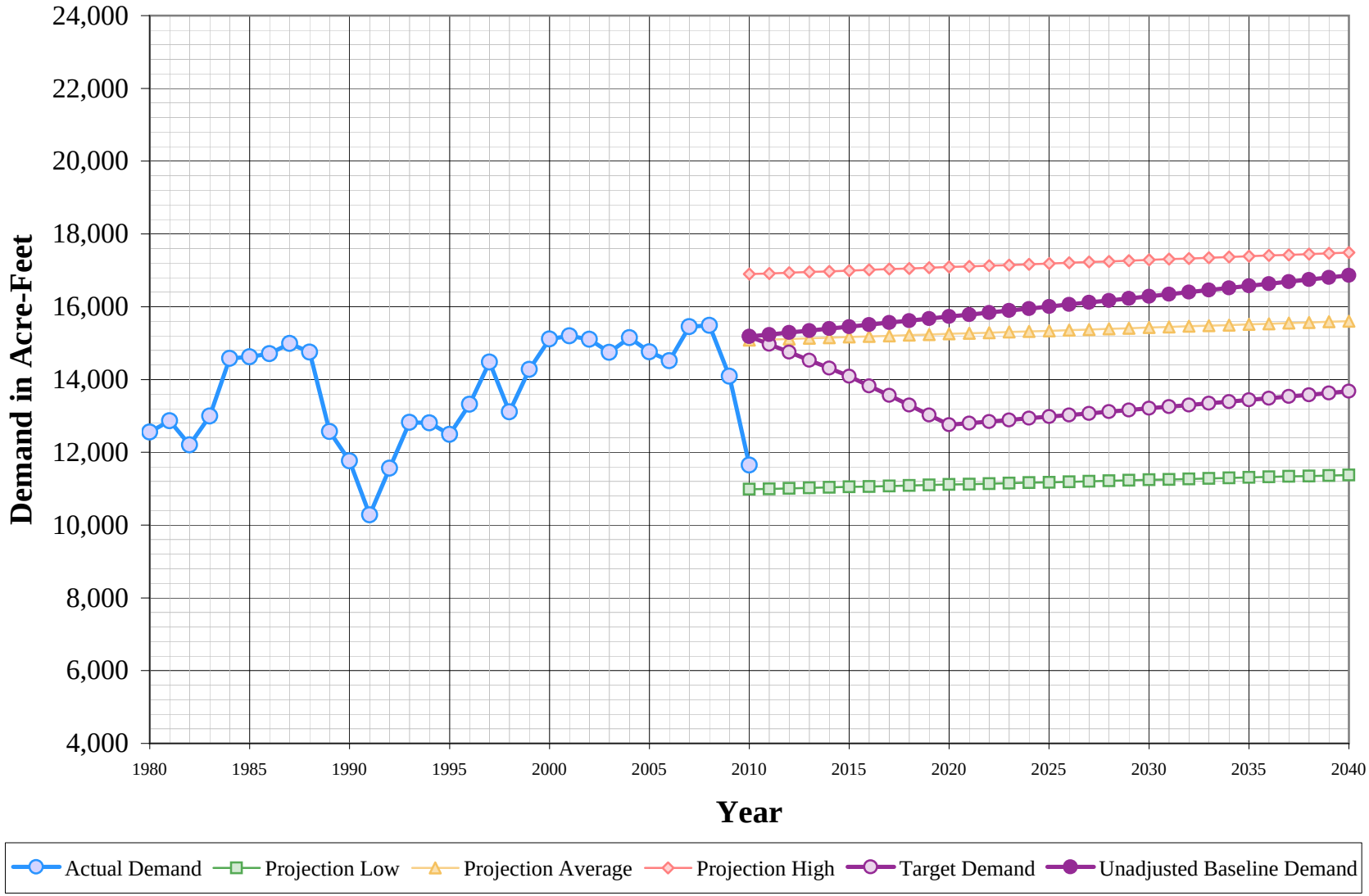
Projected Annual Average Services

Year	Actual Services	Projected Services 5 Year Average	Projected Services 10 Year Average
1980	15,558		
1981	15,605		
1982	16,281		
1983	16,947		
1984	17,002		
1985	17,037		
1986	17,059		
1987	17,162		
1988	17,261		
1989	17,303		
1990	17,322		
1991	17,368		
1992	17,404		
1993	17,425		
1994	17,443		
1995	17,545		
1996	17,622		
1997	17,703		
1998	17,882		
1999	17,954		
2000	17,984		
2001	18,019		
2002	18,042		
2003	18,064		
2004	18,111		
2005	18,153		
2006	18,202		
2007	18,189		
2008	18,204		
2009	18,230	18,230	18,230
2010	18,310	18,248	18,261

Year	Actual Services	Projected Services 5 Year Average	Projected Services 10 Year Average
2011		*18,265*	*18,284*
2012		*18,283*	*18,315*
2013		*18,301*	*18,346*
2014		*18,319*	*18,377*
2015		*18,337*	*18,408*
2016		*18,355*	*18,439*
2017		*18,373*	*18,470*
2018		*18,391*	*18,502*
2019		*18,409*	*18,533*
2020		*18,428*	*18,565*
2021		*18,444*	*18,589*
2022		*18,463*	*18,620*
2023		*18,481*	*18,652*
2024		*18,499*	*18,684*
2025		*18,517*	*18,716*
2026		*18,536*	*18,749*
2027		*18,554*	*18,781*
2028		*18,572*	*18,813*
2029		*18,591*	*18,846*
2030		*18,609*	*18,878*
2031		*18,627*	*18,902*
2032		*18,646*	*18,935*
2033		*18,664*	*18,968*
2034		*18,683*	*19,001*
2035		*18,701*	*19,034*
2036		*18,719*	*19,067*
2037		*18,738*	*19,101*
2038		*18,756*	*19,134*
2039		*18,775*	*19,167*
2040		*18,793*	*19,201*

Los Altos Suburban District

Projected Demand



California Water Service Company - Los Altos Suburban District

Worksheet 16

Water Supply and Demand Analysis and Projections

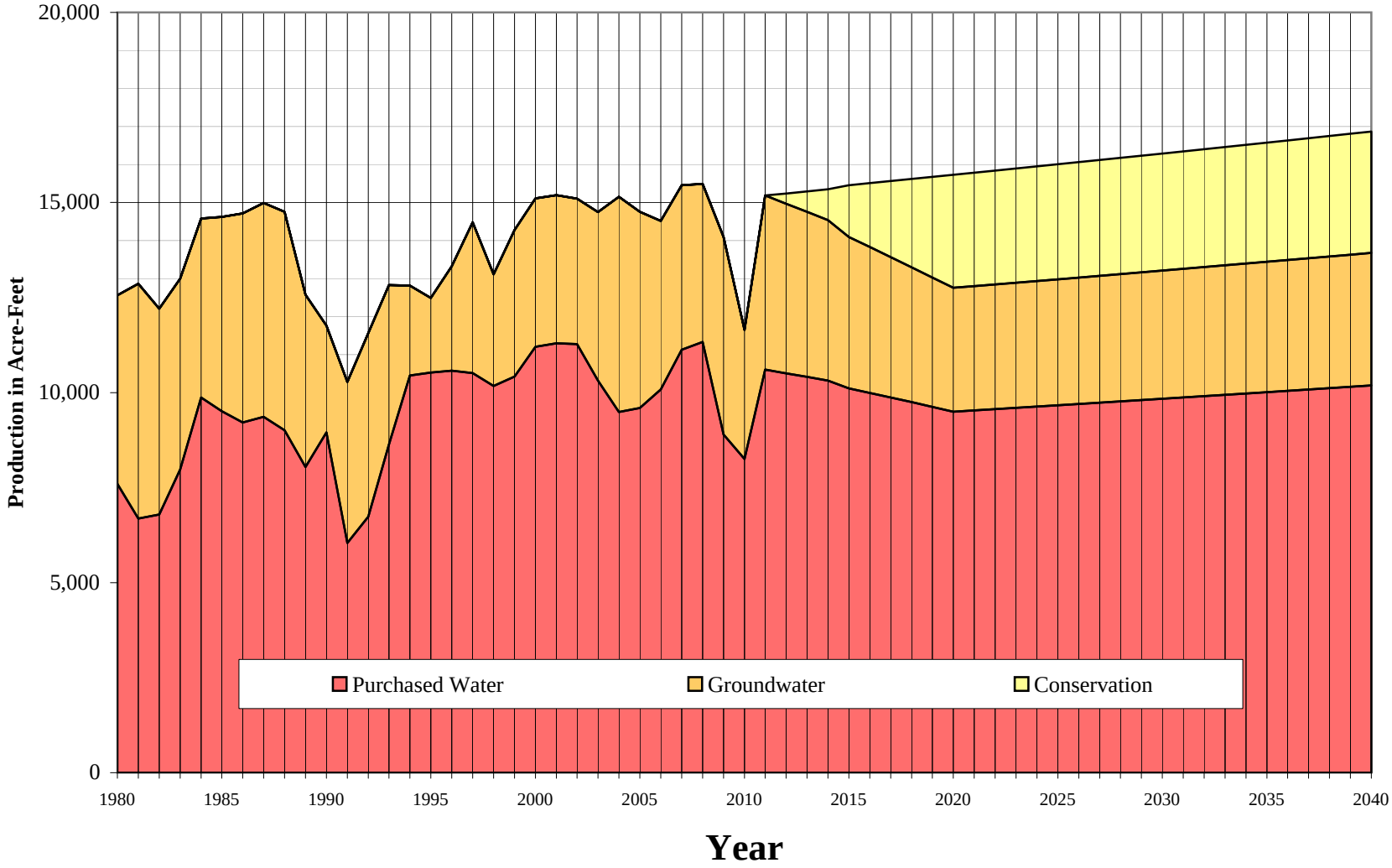
Projected Demand in Acre-Feet

Year	Actual Demand	Projection Low	Projection Average	Projection High	Unadjusted Baseline Demand	Target Demand
1980	12,556					
1981	12,862					
1982	12,203					
1983	12,995					
1984	14,582					
1985	14,620					
1986	14,710					
1987	14,988					
1988	14,753					
1989	12,571					
1990	11,760					
1991	10,282					
1992	11,563					
1993	12,826					
1994	12,811					
1995	12,488					
1996	13,319					
1997	14,479					
1998	13,110					
1999	14,278					
2000	15,111					
2001	15,196					
2002	15,104					
2003	14,745					
2004	15,152					
2005	14,758					
2006	14,518					
2007	15,451					
2008	15,490					
2009	14,092					
2010	11,648	10,986	15,084	16,900	15,185	15,185

Year	Actual Demand	Projection Low	Projection Average	Projection High	Unadjusted Baseline Demand	Target Demand
2011		10,997	15,098	16,915	15,236	14,967
2012		11,009	15,115	16,935	15,292	14,752
2013		11,022	15,133	16,954	15,345	14,533
2014		11,035	15,150	16,974	15,399	14,312
2015		11,048	15,167	16,994	15,455	14,091
2016		11,061	15,185	17,013	15,508	13,827
2017		11,074	15,202	17,033	15,564	13,563
2018		11,087	15,220	17,052	15,620	13,296
2019		11,101	15,237	17,072	15,673	13,026
2020		11,114	15,254	17,092	15,729	12,755
2021		11,124	15,269	17,108	15,782	12,798
2022		11,137	15,286	17,127	15,838	12,844
2023		11,150	15,304	17,147	15,894	12,889
2024		11,163	15,321	17,167	15,950	12,935
2025		11,176	15,339	17,187	16,006	12,980
2026		11,189	15,356	17,207	16,062	13,025
2027		11,203	15,374	17,227	16,118	13,071
2028		11,216	15,392	17,247	16,174	13,116
2029		11,229	15,409	17,267	16,230	13,162
2030		11,242	15,427	17,287	16,289	13,209
2031		11,256	15,445	17,307	16,345	13,254
2032		11,269	15,462	17,327	16,401	13,300
2033		11,282	15,480	17,347	16,460	13,347
2034		11,295	15,498	17,367	16,516	13,393
2035		11,309	15,516	17,387	16,574	13,440
2036		11,322	15,534	17,407	16,633	13,488
2037		11,335	15,551	17,427	16,689	13,533
2038		11,349	15,569	17,447	16,748	13,581
2039		11,362	15,587	17,468	16,806	13,628
2040		11,376	15,605	17,488	16,865	13,676

Los Altos Suburban District

Historical & Projected Distribution of Demand by Source



Worksheet 17

California Water Service Company - Los Altos Suburban District

Water Supply and Demand Analysis and Projections

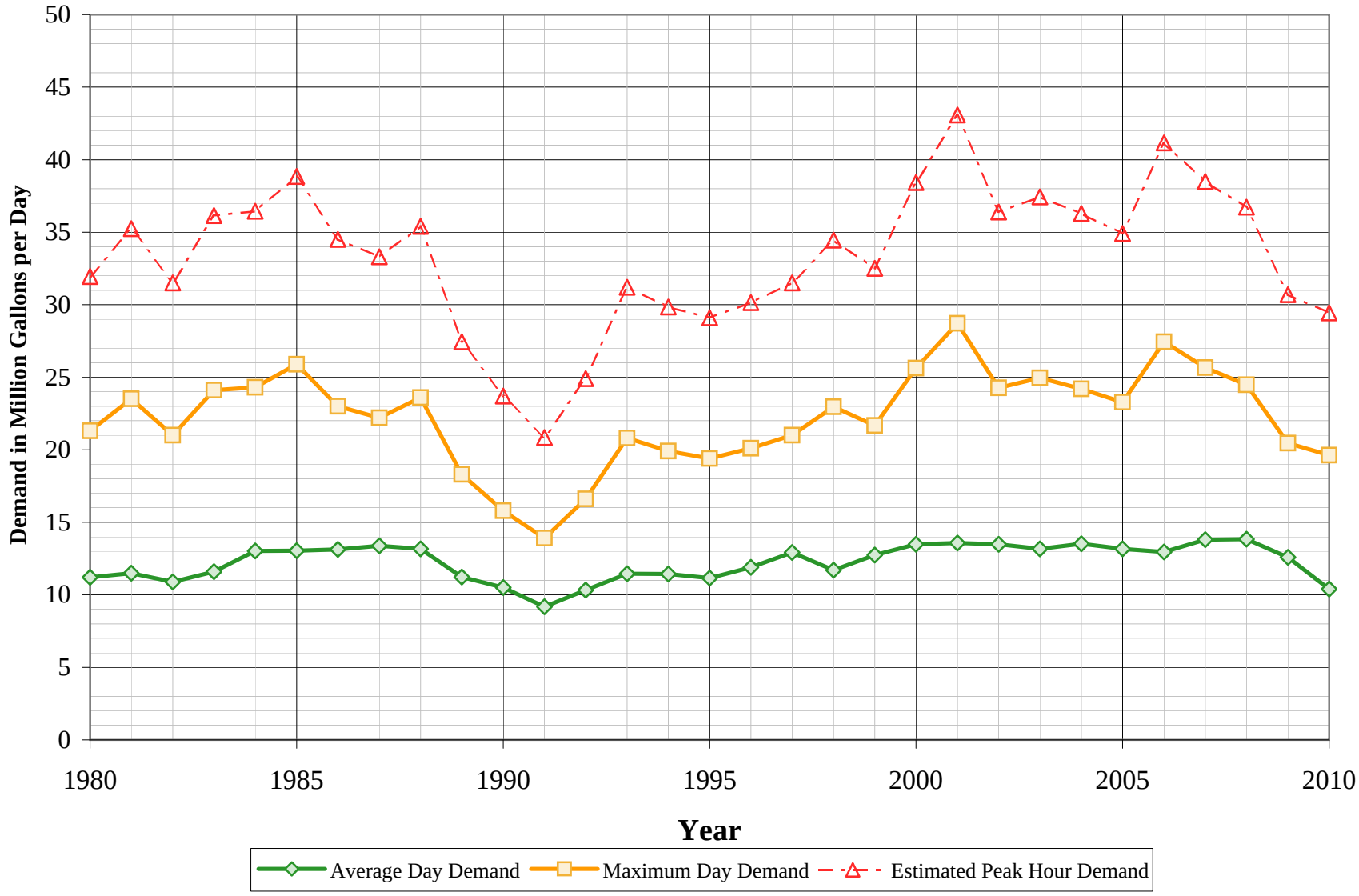
Historical and Projected Distribution of Demand by Source

Year	Purchased Water		Groundwater		Conservation		Total	
	kGal	AFY	kGal	AFY	kGal	AFY	kGal	AFY
1980	2,474,615	7,594	1,616,763	4,962			4,091,378	12,556
1981	2,178,441	6,685	2,012,800	6,177			4,191,241	12,862
1982	2,212,184	6,789	1,764,135	5,414			3,976,319	12,203
1983	2,600,527	7,981	1,633,967	5,015			4,234,494	12,995
1984	3,215,546	9,868	1,535,897	4,714			4,751,443	14,582
1985	3,098,604	9,509	1,665,167	5,110			4,763,771	14,620
1986	3,002,693	9,215	1,790,598	5,495			4,793,291	14,710
1987	3,049,967	9,360	1,833,834	5,628			4,883,801	14,988
1988	2,935,858	9,010	1,871,395	5,743			4,807,253	14,753
1989	2,619,050	8,038	1,477,318	4,534			4,096,368	12,571
1990	2,917,034	8,952	915,089	2,808			3,832,123	11,760
1991	1,969,569	6,044	1,380,929	4,238			3,350,498	10,282
1992	2,194,313	6,734	1,573,354	4,828			3,767,667	11,563
1993	2,814,443	8,637	1,364,935	4,189			4,179,378	12,826
1994	3,405,458	10,451	768,833	2,360			4,174,291	12,811
1995	3,430,515	10,528	638,678	1,960			4,069,193	12,488
1996	3,446,092	10,576	893,876	2,743			4,339,968	13,319
1997	3,425,787	10,513	1,292,288	3,966			4,718,075	14,479
1998	3,315,699	10,176	956,355	2,935			4,272,054	13,110
1999	3,394,734	10,418	1,257,691	3,860			4,652,425	14,278
2000	3,650,450	11,203	1,273,534	3,908			4,923,984	15,111
2001	3,681,347	11,298	1,270,215	3,898			4,951,562	15,196
2002	3,674,509	11,277	1,247,033	3,827			4,921,542	15,104
2003	3,360,011	10,312	1,444,543	4,433			4,804,554	14,745
2004	3,092,053	9,489	1,845,297	5,663			4,937,350	15,152
2005	3,125,894	9,593	1,682,950	5,165			4,808,844	14,758
2006	3,285,875	10,084	1,444,694	4,434			4,730,569	14,518
2007	3,625,347	11,126	1,409,370	4,325			5,034,717	15,451
2008	3,691,627	11,329	1,355,821	4,161			5,047,448	15,490
2009	2,897,456	8,892	1,694,300	5,200			4,591,756	14,092
2010	2,688,960	8,252	1,106,447	3,396			3,795,407	11,648

Year	Purchased Water		Groundwater		Conservation		Total	
	kGal	AFY	kGal	AFY	kGal	AFY	kGal	AFY
2011	3,455,857	10,606	1,492,284	4,580	0	0	4,948,141	15,185
2012	3,423,577	10,507	1,453,455	4,460	87,615	269	4,964,647	15,236
2013	3,392,189	10,410	1,414,827	4,342	175,874	540	4,982,889	15,292
2014	3,359,895	10,311	1,375,639	4,222	264,730	812	5,000,264	15,345
2015	3,294,955	10,112	1,296,565	3,979	444,360	1,364	5,035,880	15,455
2016	3,255,366	9,990	1,250,081	3,836	547,807	1,681	5,053,255	15,508
2017	3,215,977	9,869	1,203,453	3,693	652,067	2,001	5,071,497	15,564
2018	3,176,220	9,747	1,156,458	3,549	757,062	2,323	5,089,740	15,620
2019	3,135,563	9,623	1,108,905	3,403	862,647	2,647	5,107,114	15,673
2020	3,095,079	9,498	1,061,182	3,257	969,096	2,974	5,125,357	15,729
2021	3,105,571	9,531	1,064,779	3,268	972,381	2,984	5,142,731	15,782
2022	3,116,587	9,564	1,068,556	3,279	975,831	2,995	5,160,974	15,838
2023	3,127,603	9,598	1,072,333	3,291	979,280	3,005	5,179,217	15,894
2024	3,138,620	9,632	1,076,110	3,302	982,729	3,016	5,197,459	15,950
2025	3,149,636	9,666	1,079,888	3,314	986,179	3,026	5,215,702	16,006
2026	3,160,653	9,700	1,083,665	3,326	989,628	3,037	5,233,945	16,062
2027	3,171,669	9,733	1,087,442	3,337	993,077	3,048	5,252,188	16,118
2028	3,182,685	9,767	1,091,219	3,349	996,527	3,058	5,270,431	16,174
2029	3,193,702	9,801	1,094,996	3,360	999,976	3,069	5,288,673	16,230
2030	3,205,243	9,837	1,098,953	3,373	1,003,589	3,080	5,307,785	16,289
2031	3,216,259	9,870	1,102,730	3,384	1,007,039	3,090	5,326,028	16,345
2032	3,227,275	9,904	1,106,507	3,396	1,010,488	3,101	5,344,271	16,401
2033	3,238,816	9,940	1,110,464	3,408	1,014,102	3,112	5,363,382	16,460
2034	3,249,833	9,973	1,114,241	3,419	1,017,551	3,123	5,381,625	16,516
2035	3,261,374	10,009	1,118,198	3,432	1,021,165	3,134	5,400,736	16,574
2036	3,272,915	10,044	1,122,155	3,444	1,024,778	3,145	5,419,848	16,633
2037	3,283,931	10,078	1,125,932	3,455	1,028,227	3,156	5,438,091	16,689
2038	3,295,472	10,113	1,129,889	3,467	1,031,841	3,167	5,457,202	16,748
2039	3,307,013	10,149	1,133,846	3,480	1,035,455	3,178	5,476,314	16,806
2040	3,318,554	10,184	1,137,803	3,492	1,039,068	3,189	5,495,425	16,865

Los Altos Suburban District

Average Day, Maximum Day, and Peak Demand



California Water Service Company - Los Altos Suburban District

Worksheet 18

Water Supply and Demand Analysis and Projections

Historical and Projected Average Day, Maximum Day, and Peak Demand

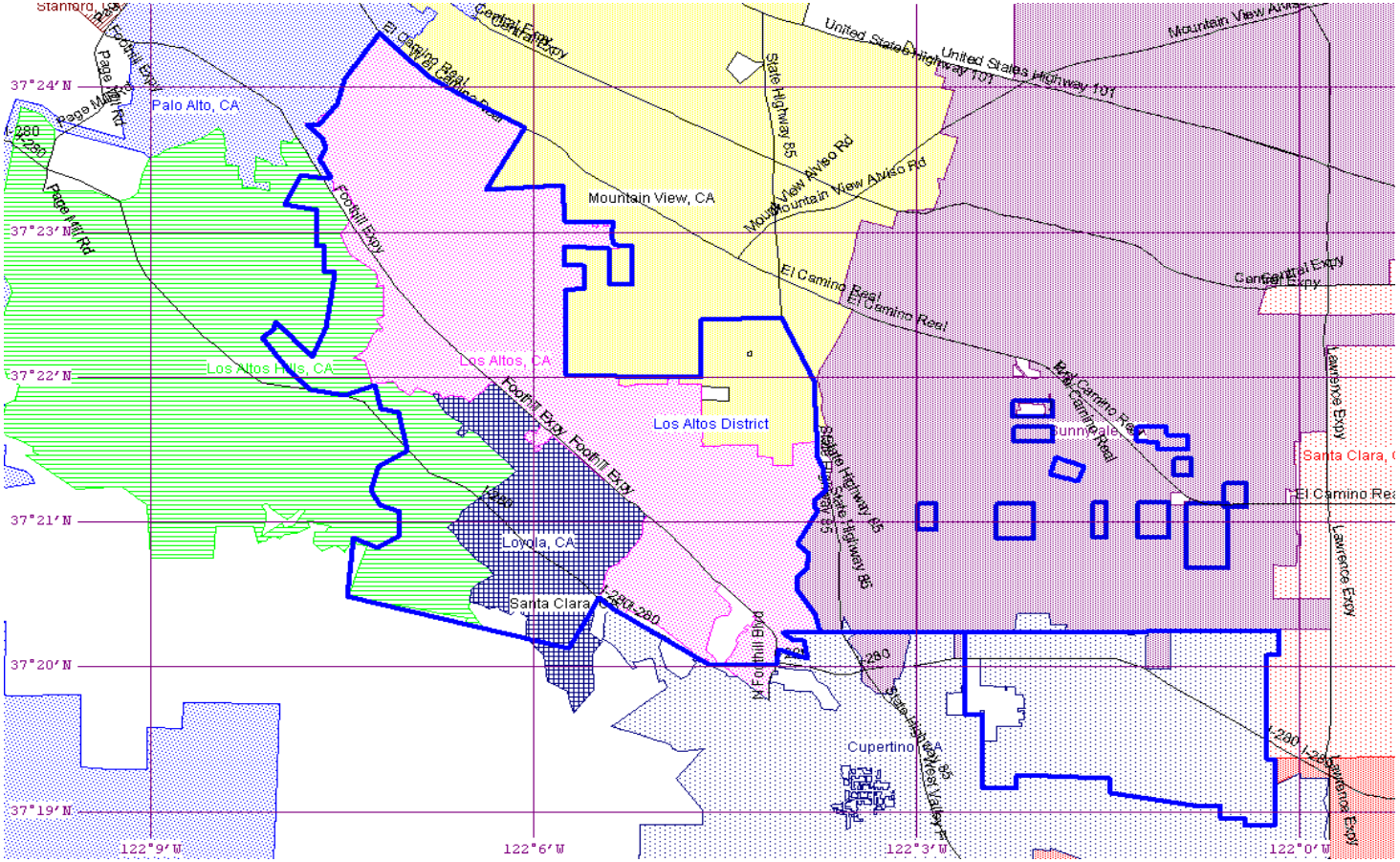
Year	Historical Annual Demand (AFY)	Historical Annual Demand (MGY)	Average Day Demand (MGD)	Average Day Demand Per Service (GPD)	Maximum Day Demand (MGD)	Maximum Day Demand Per Service (GPD)	MDD ADD Ratio	Estimated Peak Hour Demand (MGD)	Estimated Peak Hour Demand (GPM)	PHD MDD Ratio	PHD ADD Ratio	Measured Peak Hour Demand (MGD)	Measured Peak Hour Demand (GPM)	PHD MDD Ratio
1980	12,556	4,091	11.209	720	21.300	1,369	1.90	31.950	22,188	1.50	2.85			
1981	12,862	4,191	11.483	736	23.500	1,506	2.05	35.250	24,479	1.50	3.07			
1982	12,203	3,976	10.894	669	21.000	1,290	1.93	31.500	21,875	1.50	2.89			
1983	12,995	4,234	11.601	685	24.100	1,422	2.08	36.150	25,104	1.50	3.12			
1984	14,582	4,751	13.018	766	24.300	1,429	1.87	36.450	25,313	1.50	2.80			
1985	14,620	4,764	13.051	766	25.900	1,520	1.98	38.850	26,979	1.50	2.98			
1986	14,710	4,793	13.132	770	23.000	1,348	1.75	34.500	23,958	1.50	2.63			
1987	14,988	4,884	13.380	780	22.200	1,294	1.66	33.300	23,125	1.50	2.49			
1988	14,753	4,807	13.171	763	23.600	1,367	1.79	35.400	24,583	1.50	2.69			
1989	12,571	4,096	11.223	649	18.300	1,058	1.63	27.450	19,063	1.50	2.45			
1990	11,760	3,832	10.499	606	15.800	912	1.50	23.700	16,458	1.50	2.26			
1991	10,282	3,350	9.179	529	13.900	800	1.51	20.850	14,479	1.50	2.27			
1992	11,563	3,768	10.322	593	16.600	954	1.61	24.900	17,292	1.50	2.41			
1993	12,826	4,179	11.450	657	20.800	1,194	1.82	31.200	21,667	1.50	2.72			
1994	12,811	4,174	11.436	656	19.900	1,141	1.74	29.850	20,729	1.50	2.61			
1995	12,488	4,069	11.148	635	19.400	1,106	1.74	29.100	20,208	1.50	2.61			
1996	13,319	4,340	11.890	675	20.100	1,141	1.69	30.150	20,938	1.50	2.54			
1997	14,479	4,718	12.926	730	20.997	1,186	1.62	31.496	21,872	1.50	2.44			
1998	13,110	4,272	11.704	661	22.967	1,297	1.96	34.451	23,924	1.50	2.94			
1999	14,278	4,652	12.746	720	21.671	1,224	1.70	32.507	22,574	1.50	2.55			
2000	15,111	4,924	13.490	762	25.620	1,447	1.90	38.430	26,688	1.50	2.85			
2001	15,196	4,952	13.566	766	28.720	1,622	2.12	43.080	29,917	1.50	3.18			
2002	15,104	4,922	13.484	762	24.267	1,371	1.80	36.401	25,278	1.50	2.70			
2003	14,745	4,805	13.163	744	24.960	1,410	1.90	37.440	26,000	1.50	2.84			
2004	15,152	4,937	13.527	764	24.189	1,366	1.79	36.284	25,197	1.50	2.68			
2005	14,758	4,809	13.175	744	23.279	1,315	1.77	34.919	24,249	1.50	2.65			
2006	14,518	4,731	12.960	732	27.440	1,550	2.12	41.160	28,583	1.50	3.18			
2007	15,451	5,035	13.794	779	25.666	1,450	1.86	38.499	26,735	1.50	2.79			
2008	15,490	5,047	13.829	781	24.483	1,383	1.77	36.725	25,503	1.50	2.66			
2009	14,092	4,592	12.580	711	20.464	1,156	1.63	30.696	21,317	1.50	2.44			
2010	11,648	3,795	10.398	587	19.622	1,108	1.89	29.433	20,440	1.50	2.83			
5 year Average (2006-2010)			12.712	718	23.535	1,329	1.85	35.303	24,516	1.50	2.78			
10 year Average (2001-2010)			13.048	737	24.309	1,373	1.86	36.464	25,322	1.50	2.79			

California Water Service Company - Los Altos Suburban District

Worksheet 19

Water Supply and Demand Analysis and Projections

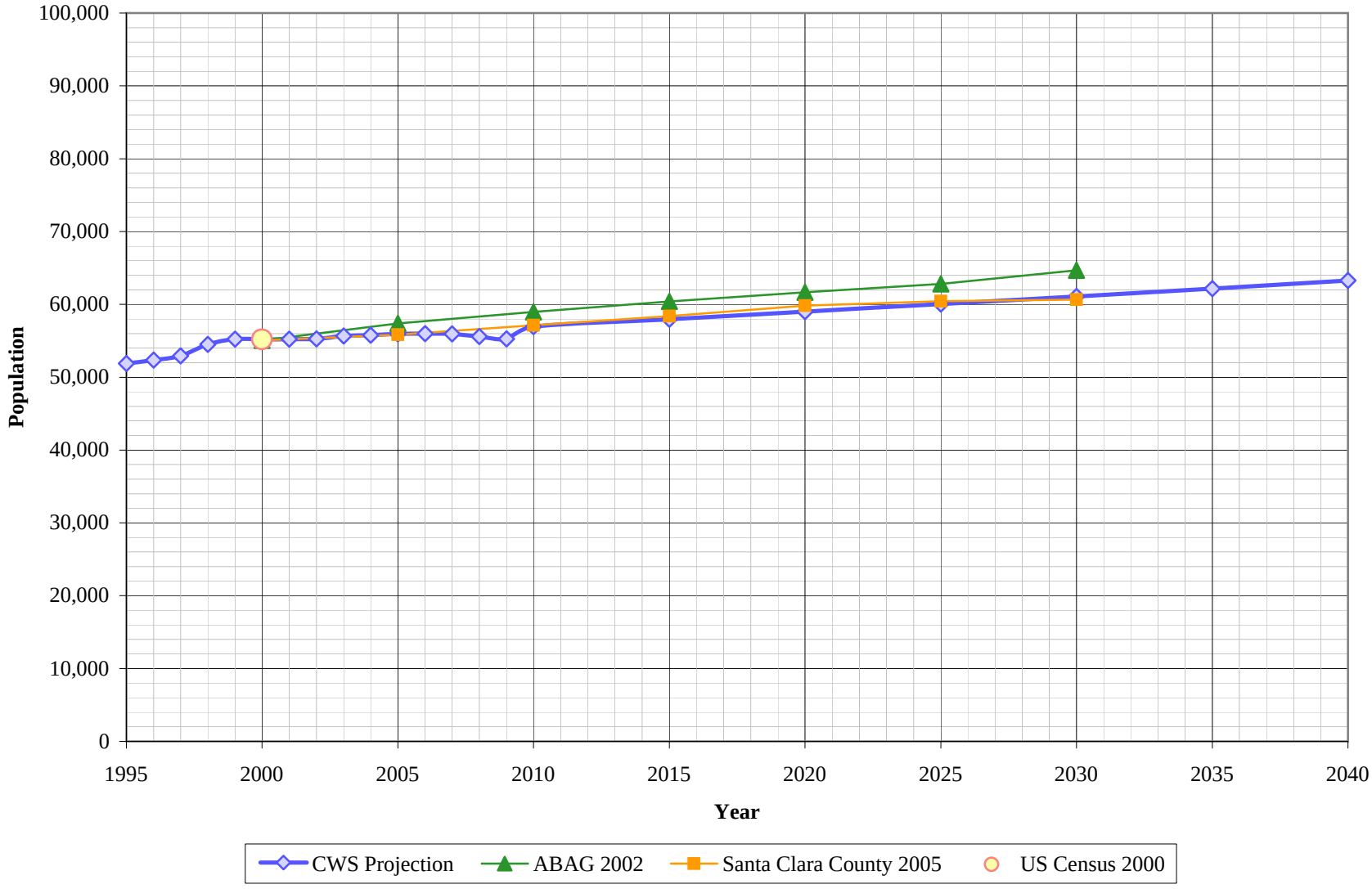
US Census 2000 Tract Map Summary



City	Census Tract Blocks	Population	Housing Units
Los Altos	386	27,547	10,680
Mountain View	51	4,458	1,551
Cupertino	79	13,449	5,468
Sunnyvale	26	2,238	863
Los Altos Hills	32	2,067	746
Loyola	45	3,478	1,298
Unincorporated	43	1,940	652
District	**662**	**55,177**	**21,258**

Los Altos Suburban District

Population Projections



California Water Service Company - Los Altos Suburban District

Worksheet 19

Water Supply and Demand Analysis and Projections

Estimated District Population based on 2000 U.S. Census Data & Annual Service Count

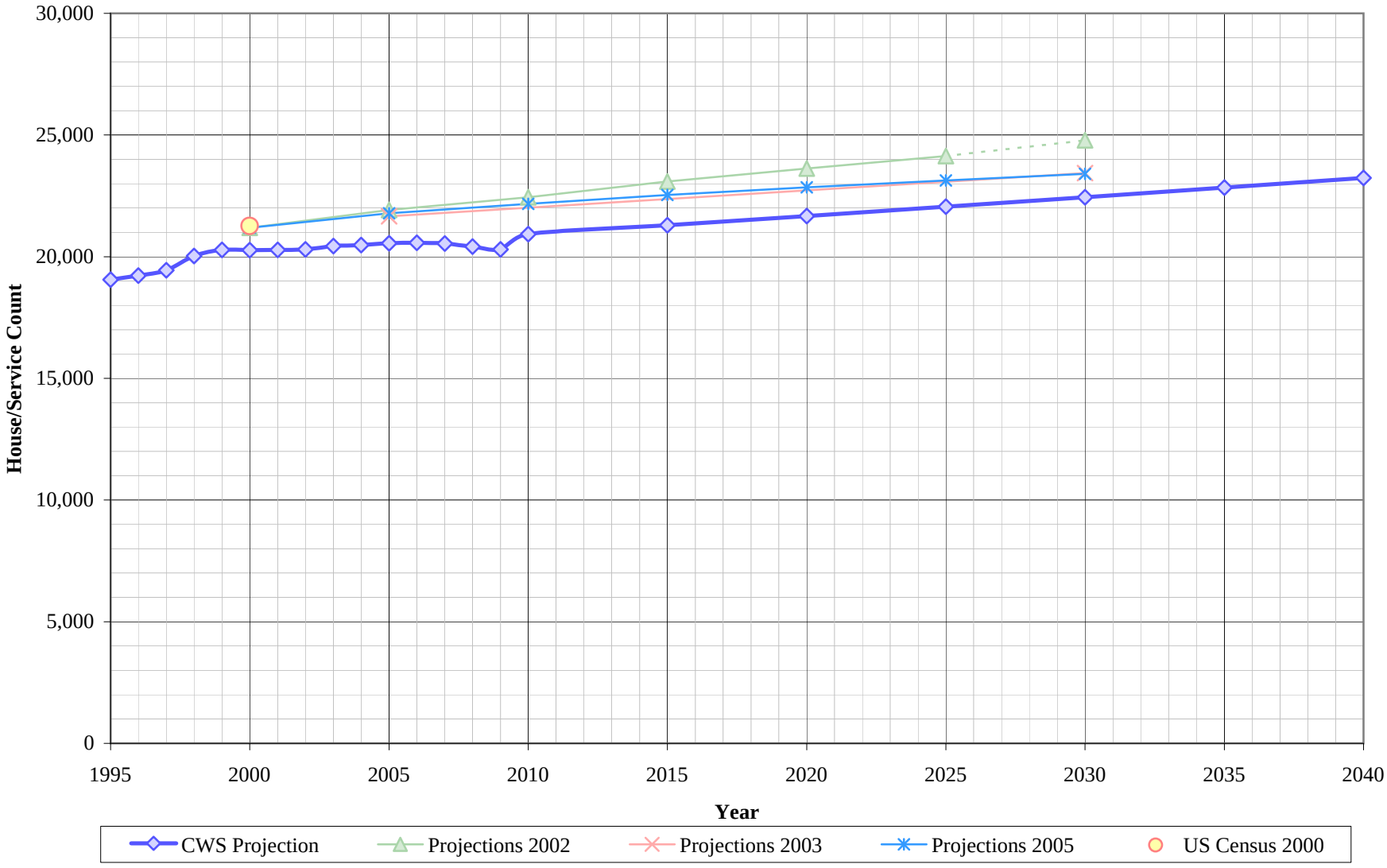
Scenario

Year	Single Family Residential Services (DU)	Multi Family Residential Services	Multi Family Residential Residential Units (DU)	Multi Family Residential Unit Density	Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Estimated District Population	
1995	16,189	105	2,866	27.3	0	19,055	51,880	
1996	16,252	107	2,975	27.8	0	19,227	52,350	
1997	16,325	109	3,113	28.6	0	19,438	52,920	
1998	16,479	117	3,547	30.3	0	20,026	54,520	
1999	16,546	119	3,737	31.4	0	20,283	55,220	
2000	16,575	119	3,692	31.0	0	20,267	55,177	
2001	16,607	119	3,675	30.9	0	20,282	55,220	
2002	16,618	119	3,679	30.9	0	20,297	55,260	
2003	16,635	119	3,805	32.0	0	20,440	55,650	
2004	16,671	119	3,806	32.0	0	20,477	55,750	
2005	16,711	119	3,839	32.3	0	20,550	55,950	
2006	16,748	119	3,821	32.1	0	20,569	56,000	
2007	16,769	119	3,775	31.7	0	20,544	55,930	
2008	16,729	136	3,686	27.1	0	20,415	55,580	
2009	16,724	150	3,578	23.9	0	20,302	55,270	
2010	*16,739*	*150*	*4,183*	*27.8*	*0*	*20,922*	*56,960*	*Projected*
2015	*16,817*	*151*	*4,476*	*29.6*	*0*	*21,293*	*57,970*	
2020	*16,894*	*153*	*4,778*	*31.3*	*0*	*21,672*	*59,000*	
2025	*16,972*	*154*	*5,080*	*33.0*	*0*	*22,052*	*60,040*	
2030	*17,050*	*155*	*5,391*	*34.7*	*0*	*22,441*	*61,100*	
2035	*17,129*	*157*	*5,707*	*36.4*	*0*	*22,836*	*62,170*	
2040	*17,208*	*158*	*6,028*	*38.2*	*0*	*23,235*	*63,260*	

US Census 2000 Population	US Census 2000 Housing Units	Calculated Persons per CWS DU	Calculated Persons per US Census Housing
55,177	21,258	2.723	2.596

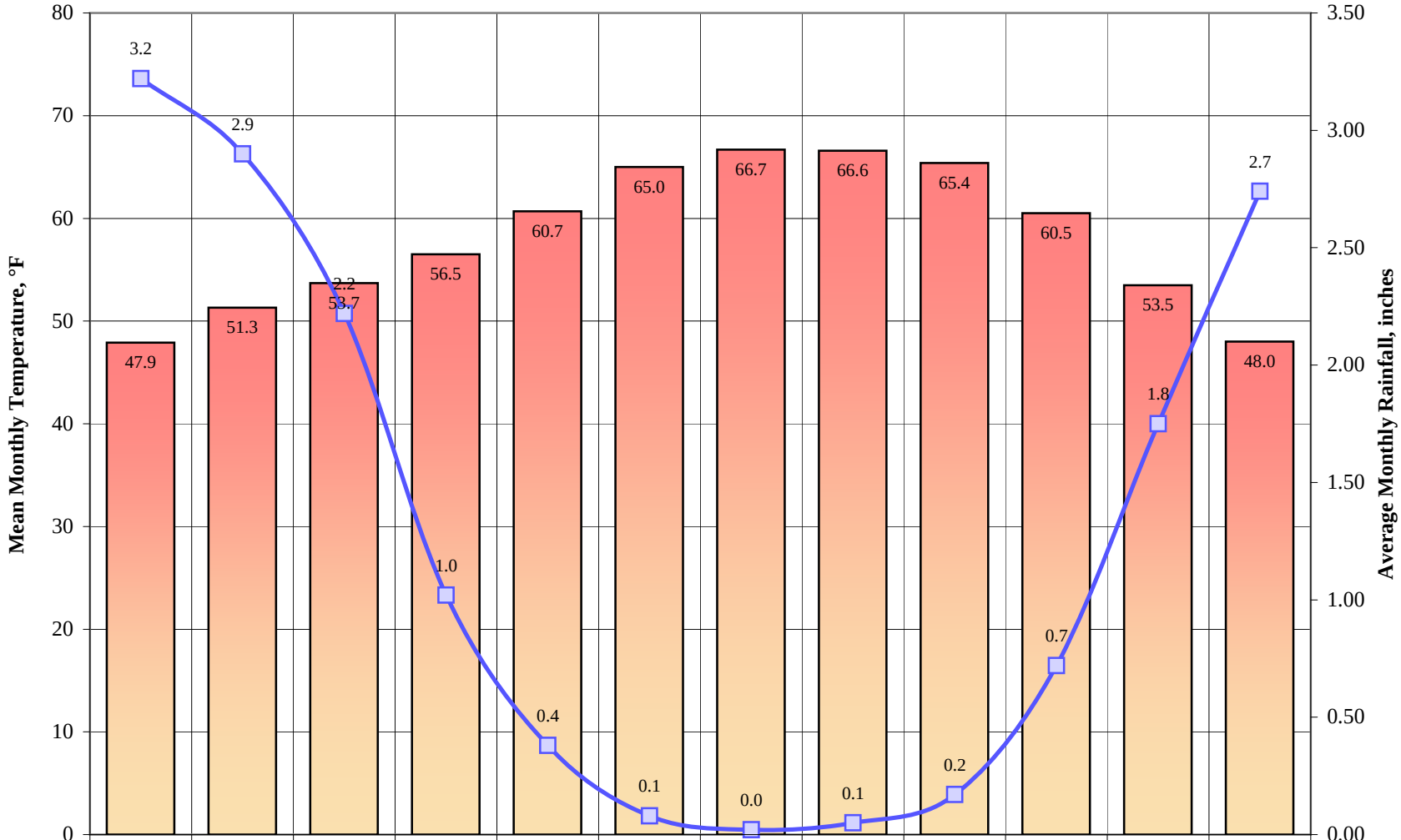
Los Altos Suburban District

Housing Projections



Los Altos Suburban District

Average Monthly Temperature and Rainfall

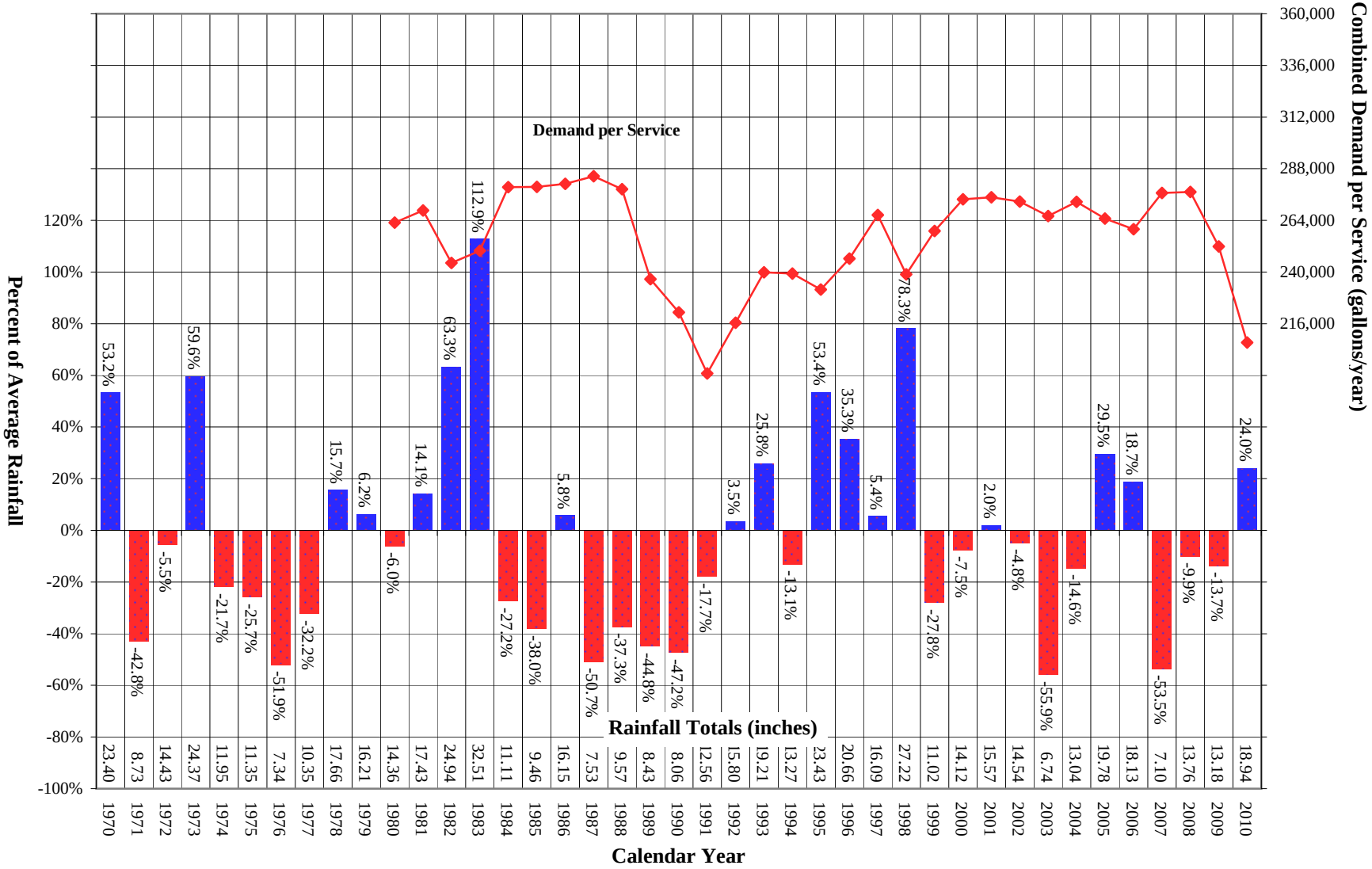


	January	February	March	April	May	June	July	August	September	October	November	December
Temperature	47.9	51.3	53.7	56.5	60.7	65	66.7	66.6	65.4	60.5	53.5	48
Rainfall	3.22	2.9	2.22	1.02	0.38	0.08	0.02	0.05	0.17	0.72	1.75	2.74

Los Altos Suburban District

Comparison of Annual Rainfall to Historic Average

Average Annual Rainfall Total: 15.63 inches



California Water Service Company - Los Altos Suburban District

Worksheet 20

Water Supply and Demand Analysis and Projections

Temperature & Rainfall History (Fahrenheit, Inches)

Year		Annual Average Temp.	Annual Average Rainfall	Rainfall Percent Variation	Demand per Service (Gal / Yr)	Percent of Average Demad
1970		58.3	23.40	53.2%		
1971		57.2	8.73	-42.8%		
1972		57.8	14.43	-5.5%		
1973		57.9	24.37	59.6%		
1974		57.5	11.95	-21.7%		
1975		57.6	11.35	-25.7%		
1976		58.3	7.34	-51.9%		
1977		58.3	10.35	-32.2%		
1978		58.1	17.66	15.7%		
1979		58.6	16.21	6.2%		
1980		57.2	14.36	-6.0%	262,976	102.3%
1981		58.9	17.43	14.1%	268,583	104.5%
1982		56.4	24.94	63.3%	244,231	95.0%
1983		61.1	32.51	112.9%	249,867	97.2%
1984		58.6	11.11	-27.2%	279,464	108.8%
1985		57.8	9.46	-38.0%	279,613	108.8%
1986		58.6	16.15	5.8%	280,983	109.3%
1987		59.6	7.53	-50.7%	284,571	110.7%
1988		58.6	9.57	-37.3%	278,504	108.4%
1989		57.8	8.43	-44.8%	236,743	92.1%
1990		57.3	8.06	-47.2%	221,229	86.1%
1991		56.5	12.56	-17.7%	192,912	75.1%
1992		58.2	15.80	3.5%	216,483	84.2%
1993		54.9	19.21	25.8%	239,850	93.3%
1994		54.6	13.27	-13.1%	239,310	93.1%

Year		Annual Average Temp.	Annual Average Rainfall	Rainfall Percent Variation	Demand per Service (Gal / Yr)	Percent of Average Demad
1995		60.0	23.43	53.4%	231,929	90.3%
1996		60.3	20.66	35.3%	246,281	95.8%
1997		60.5	16.09	5.4%	266,513	103.7%
1998		58.4	27.22	78.3%	238,902	93.0%
1999		54.7	11.02	-27.8%	259,130	100.8%
2000		54.9	14.12	-7.5%	273,798	106.6%
2001		56.6	15.57	2.0%	274,797	106.9%
2002		57.0	14.54	-4.8%	272,783	106.2%
2003		59.4	6.74	-55.9%	265,969	103.5%
2004		59.7	13.04	-14.6%	272,616	106.1%
2005		58.5	19.78	29.5%	264,906	103.1%
2006		54.5	18.13	18.7%	259,893	101.1%
2007		56.7	7.10	-53.5%	276,800	107.7%
2008		55.8	13.76	-9.9%	277,271	107.9%
2009		59.1	13.18	-13.7%	251,879	98.0%
2010		59.2	18.94	24.0%	207,286	80.7%
2011						
2012						
2013						
2014						
2015						
2016						
2017						
2018						
2019						

Source: Western Regional Climate Center: http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6646

	Average Water Year		Normal Water Year	Single-Dry Water Year	Multiple-Dry Water Years			
					1	2	3	4
Calendar Year	-		2,001	2003	2006	2007	2008	2009
Demand per Service (gal/yr)	256,960		274,797	265,969	259,893	276,800	277,271	251,879
Difference from Average	100.0%		100.0%	96.8%	94.6%	100.7%	100.9%	91.7%

California Water Service Company - Los Altos Suburban District
Water Supply and Demand Analysis and Projections

Worksheet 20

Temperature Data

Station:(046646) PALO ALTO															
From Year=1953 To Year=2010															
	Monthly Averages			Daily Extremes				Monthly Extremes				Max. Temp.		Min. Temp.	
	Max.	Min.	Mean	High	Date	Low	Date	Highest Mean	Year	Lowest Mean	Year	>= 90 F	<= 32 F	<= 32 F	<= 0 F
	F	F	F	F	dd/yyyy or yyyymmdd	F	dd/yyyy or yyyymmdd	F	-	F	-	# Days	# Days	# Days	# Days
January	57.3	38.5	47.9	75	8/1962	21	13/1963	53	2003	43.4	1963	0	0	6.2	0
February	61.2	41.4	51.3	84	22/1981	24	27/1962	56.1	1963	43.9	1994	0	0	2	0
March	64.3	43.1	53.7	85	27/1988	22	31/2004	57.7	1978	50.1	1991	0	0	0.4	0
April	68.4	44.7	56.5	98	22/2009	31	25/1964	61.1	1989	50.2	1967	0.2	0	0.1	0
May	72.9	48.5	60.7	100	13/1976	33	6/1977	66	1997	55	1994	1.1	0	0	0
June	77.4	52.6	65	107	15/1961	40	3/1982	69.6	1981	59	1994	2.3	0	0	0
July	78.4	54.9	66.7	105	14/1972	41	19/1983	70.1	2006	62.4	1994	1.7	0	0	0
August	78.5	54.7	66.6	101	30/1968	44	4/1982	69.5	1971	64	1955	1.6	0	0	0
September	78.2	52.6	65.4	105	15/1971	41	20/1965	70.1	1984	59.8	1993	2.7	0	0	0
October	73	48	60.5	100	2/1980	34	30/1971	63.8	2003	56.8	1971	0.5	0	0	0
November	64.4	42.7	53.5	89	8/1955	15	7/2003	57.5	1981	48.3	1993	0	0	1.2	0
December	57.8	38.2	48	75	14/1953	20	23/1990	53	1955	42.5	1993	0	0	6.1	0
Annual	69.3	46.7	58	107	19610615	15	20031107	60.5	1997	54.6	1994	10.1	0	16	0

Monthly Average ETo Report	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	1.24	1.68	3.41	4.8	6.2	6.9	7.44	6.51	5.1	3.41	1.8	0.93	49.35

1) California Irrigation Management Information System (CIMIS), Reference EvapoTranpiration (Eton) Zones, Zone 8

California Water Service Company - Los Altos Suburban District
Water Supply and Demand Analysis and Projections

Worksheet 20

Precipitaion Data

Station:(046646) PALO ALTO														
From Year=1953 To Year=2010														
	Precipitation											Total Snowfall		
	Mean	High	Year	Low	Year	1 Day Max.		>= 0.01 in.	>= 0.10 in.	>= 0.50 in.	>= 1.00 in.	Mean	High	Year
	in.	in.	-	in.	-	in.	dd/yyyy or yyyymmdd	# Days	# Days	# Days	# Days	in.	in.	-
January	3.22	7.91	1995	0.08	2003	2.6	5/1982	10	6	2	1	0	1.5	1962
February	2.9	12.43	1998	0.13	1967	3.75	3/1998	9	6	2	1	0	0	1954
March	2.22	8.54	1983	0.04	1955	1.52	16/1958	9	5	1	0	0	0	1954
April	1.02	4.56	1958	0	2008	1.55	3/1958	5	3	1	0	0	0	1954
May	0.38	2.49	1998	0	1959	1.25	20/2002	2	1	0	0	0	0	1954
June	0.08	1.04	1995	0	1955	0.82	16/1995	1	0	0	0	0	0	1954
July	0.02	0.34	1980	0	1954	0.33	31/1966	0	0	0	0	0	0	1954
August	0.05	0.81	1976	0	1954	0.58	20/1997	0	0	0	0	0	0	1954
September	0.17	2.31	1959	0	1953	1.78	19/1959	1	0	0	0	0	0	1953
October	0.72	3.72	1972	0	1955	1.86	13/1962	3	2	1	0	0	0	1953
November	1.75	6.31	1972	0	1959	2.48	29/1970	6	4	1	0	0	0	1953
December	2.74	10.56	1955	0.01	1989	2.77	22/1955	9	6	2	1	0	0	1953
Annual	15.27	32.51	1983	7.1	2007	3.75	19980203	56	34	10	2	0	1.5	1962

California Water Service Company - Los Altos Suburban District Worksheet 21

Water Supply and Demand Analysis and Projections

Groundwater Facilities

UNIT NO.	DESIGN CAPACITY ACTIVE (GPM)	DESIGN CAPACITY INACTIVE (GPM)	Status
1-01	425		Active
1-02		480	Inactive
2-02		350	Inactive
2-03		300	Inactive
4-01		200	Inactive
4-02		300	Inactive
6-02		850	Inactive
15-01	325		Active
17-01	1,000		Active
18-02	775		Active
20-01	1,200		Active
21-01	450		Active
22-01		800	Inactive
24-01	350		Active
25-01	900		Active
27-01	1,400		Active
29-01		550	Inactive
30-01	1,200		Active
31-01	850		Active
32-01	1,050		Active
34-01	900		Active
34-02	1,500		Active
39-01	400		Active
104-02	400		Active
115-01	250		Active
116-01	375		Active
119-03	618		Active
121-02	375		Active
123-01		375	Inactive

	UNIT NO.	DESIGN CAPACITY ACTIVE (GPM)	DESIGN CAPACITY INACTIVE (GPM)	Status
Total units	29	20	9	Units
Design Capacity	18,948	14,743	4,205	GPM
	27.3	21.2	6.1	MGD
	30,563	23,781	6,783	AFY

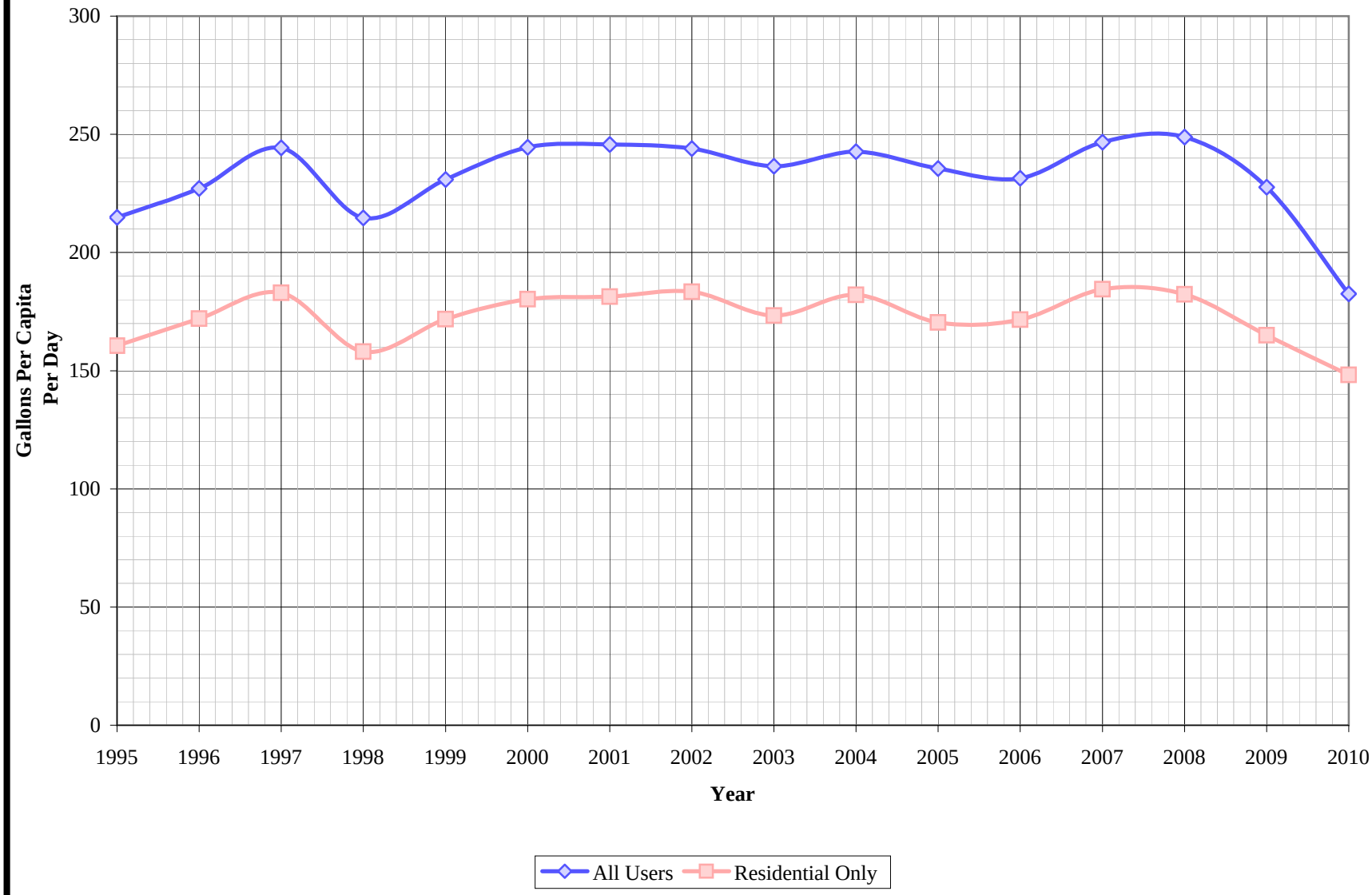
Notes:
1) Listed pump capacities on this worksheet represent design flowrates, actual flowrates are highly dependent on local system pressures, well characteristics, and other design criteria

2) Values in bold are estimated

Updated 1/1/2011

Los Altos Suburban District

Per Capita Consumption



California Water Service Company - Los Altos Suburban District

Worksheet 22

Water Supply and Demand Analysis and Projections

Per Capita Water Demand Calculation

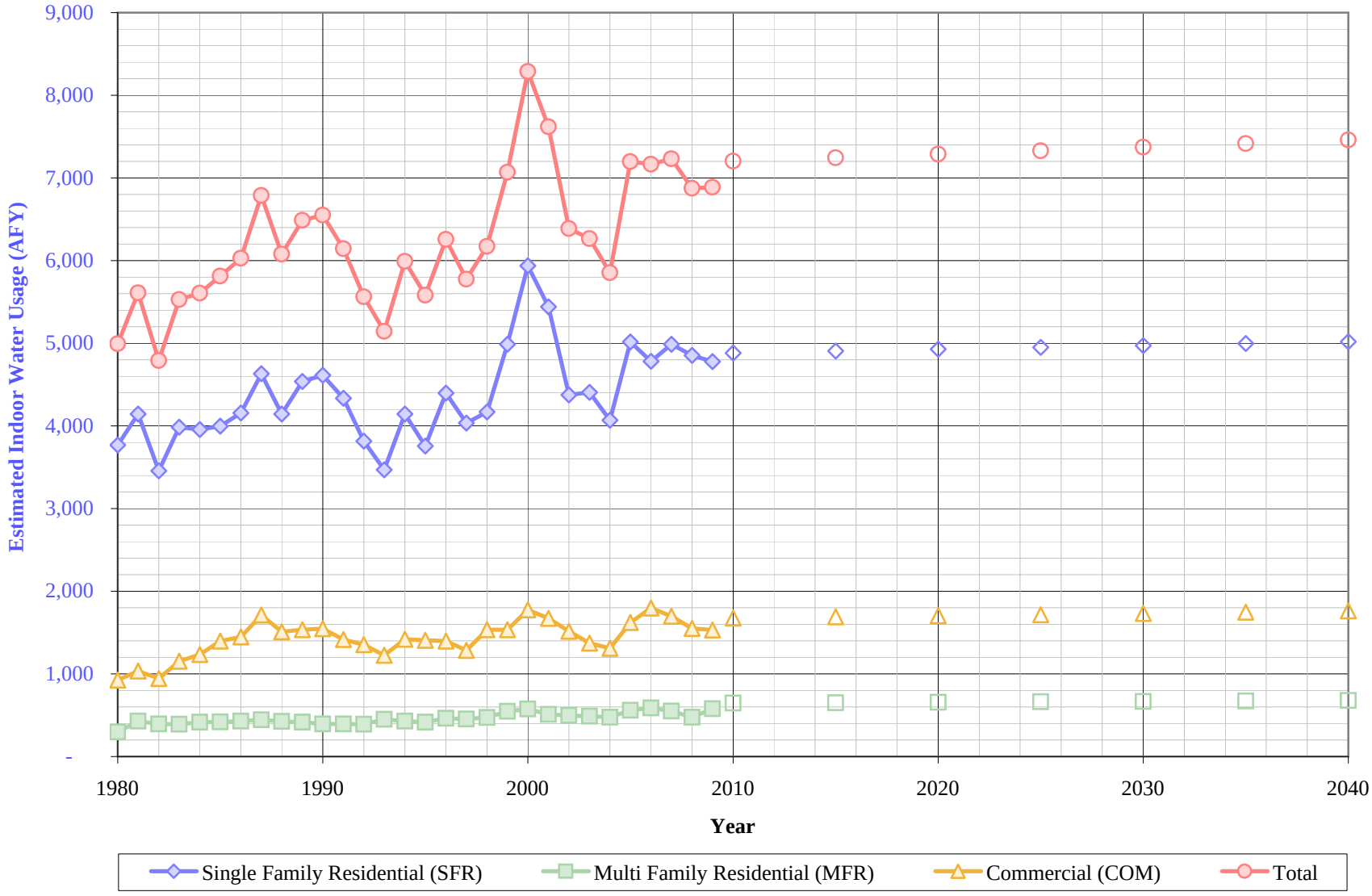
Year	All Users			Residential Only		
	Usage (AFY)	Usage (MGY)	Gallons Per Capita Per Day	Usage (AFY)	Usage (MGY)	Gallons Per Capita Per Day
1995	12,488	4,069	215	9,328	3,040	161
1996	13,319	4,340	227	10,088	3,287	172
1997	14,479	4,718	244	10,843	3,533	183
1998	13,110	4,272	215	9,654	3,146	158
1999	14,278	4,652	231	10,624	3,462	172
2000	15,111	4,924	244	11,140	3,630	180
2001	15,196	4,952	246	11,214	3,654	181
2002	15,104	4,922	244	11,353	3,699	183
2003	14,745	4,805	237	10,804	3,521	173
2004	15,152	4,937	243	11,371	3,705	182
2005	14,758	4,809	235	10,681	3,480	170
2006	14,518	4,731	231	10,765	3,508	172
2007	15,451	5,035	247	11,553	3,765	184
2008	15,490	5,047	249	11,351	3,699	182
2009	14,092	4,592	228	10,213	3,328	165
2010	11,648	3,795	183	9,453	3,080	148
5 Yr. Avg.	14,240	4,640	227	10,667	3,476	170
10 Yr. Avg.	14,615	4,762	234	10,876	3,544	174

Five year average is from years 2006 through 2010

Ten year average is from years 2001 through 2010

Los Altos Suburban District

Estimated Indoor Water Usage



California Water Service Company - Los Altos Suburban District

Worksheet 23

Water Supply and Demand Analysis and Projections

Estimated Indoor/Outdoor Water Usage

Year	Single Family Residential (SFR)							Multi Family Residential (MFR)				Commercial (COM)				Est. Indoor Usage
	Metered Single Family Residential Indoor Use (Annualized 90% of January Total)			Indoor Flat Rate Usage (AFY)	Total SFR Indoor Usage			Multi Family Residential January Usage	Multi Family Residential Indoor Use (Annualized 90% of January			Commercial	Commercial Indoor Use (Annualized 90% of January Total)			
	JAN (CCF)	AFY	AFY/Service		AFY	GPD/Service	%	(CCF)	AFY	GPD/Service	%	(CCF)	AFY	GPD/Service	%	AFY
1980	152,007	3,769	0.263	0	3,769	235	47%	12,030	298	3,974	60%	37,322	925	866	58%	4,992
1981	167,185	4,145	0.289	0	4,145	258	51%	17,328	430	5,327	82%	41,730	1,035	958	63%	5,609
1982	139,342	3,455	0.231	0	3,455	206	44%	15,845	393	4,078	77%	38,058	944	834	56%	4,791
1983	160,713	3,985	0.256	0	3,985	228	49%	15,770	391	3,636	69%	46,471	1,152	975	62%	5,528
1984	159,525	3,955	0.253	0	3,955	226	43%	16,722	415	3,816	72%	49,848	1,236	1,031	57%	5,606
1985	161,266	3,998	0.256	0	3,998	228	44%	16,836	417	3,764	74%	56,375	1,398	1,160	60%	5,813
1986	167,590	4,155	0.265	0	4,155	237	46%	17,238	427	3,854	69%	58,306	1,446	1,204	61%	6,028
1987	186,753	4,630	0.293	0	4,630	262	49%	17,899	444	3,773	66%	69,131	1,714	1,460	70%	6,788
1988	167,147	4,144	0.261	0	4,144	233	46%	17,118	424	3,574	70%	60,883	1,509	1,283	60%	6,078
1989	182,981	4,537	0.285	0	4,537	254	60%	16,750	415	3,531	73%	61,872	1,534	1,296	73%	6,486
1990	185,999	4,612	0.289	0	4,612	258	61%	15,837	393	3,338	68%	62,358	1,546	1,316	70%	6,550
1991	174,823	4,334	0.271	0	4,334	242	67%	15,943	395	3,361	76%	57,073	1,415	1,204	72%	6,145
1992	153,950	3,817	0.238	0	3,817	212	51%	15,770	391	3,324	67%	54,628	1,354	1,149	64%	5,562
1993	139,906	3,469	0.216	0	3,469	193	42%	18,182	451	3,833	75%	49,399	1,225	1,035	53%	5,144
1994	167,110	4,143	0.258	0	4,143	230	49%	17,267	428	3,640	72%	57,224	1,419	1,203	63%	5,990
1995	151,530	3,757	0.232	0	3,757	207	43%	16,790	416	3,539	69%	56,776	1,408	1,197	62%	5,581
1996	177,355	4,397	0.271	0	4,397	242	47%	18,663	463	3,861	73%	56,348	1,397	1,178	57%	6,257
1997	162,724	4,034	0.247	0	4,034	221	40%	18,290	453	3,714	68%	51,866	1,286	1,076	51%	5,774
1998	168,098	4,168	0.253	0	4,168	226	46%	18,982	471	3,591	69%	61,825	1,533	1,287	64%	6,171
1999	201,217	4,989	0.302	0	4,989	269	50%	22,053	547	4,102	75%	61,869	1,534	1,282	63%	7,070
2000	239,444	5,937	0.358	0	5,937	320	57%	23,143	574	4,305	78%	71,628	1,776	1,484	68%	8,286
2001	219,428	5,440	0.328	0	5,440	292	52%	20,508	508	3,815	71%	67,396	1,671	1,401	68%	7,620
2002	176,489	4,376	0.263	0	4,376	235	41%	19,978	495	3,716	70%	61,170	1,517	1,261	63%	6,388
2003	177,757	4,407	0.265	0	4,407	237	44%	19,698	488	3,664	69%	55,272	1,370	1,134	55%	6,266
2004	164,045	4,067	0.244	0	4,067	218	38%	19,204	476	3,572	65%	52,780	1,309	1,076	53%	5,852
2005	202,273	5,015	0.300	0	5,015	268	50%	22,598	560	4,203	77%	65,423	1,622	1,326	68%	7,197
2006	192,896	4,783	0.286	0	4,783	255	48%	23,683	587	4,405	79%	72,419	1,796	1,460	73%	7,165
2007	201,119	4,986	0.297	0	4,986	265	46%	22,166	550	4,123	75%	68,417	1,696	1,369	67%	7,232
2008	195,691	4,852	0.290	0	4,852	259	46%	19,168	475	3,120	64%	62,455	1,548	1,219	61%	6,876
2009	192,745	4,779	0.286	0	4,779	255	50%	23,264	577	3,433	82%	61,727	1,530	1,181	64%	6,886
2010	---	---	---	---	4,882	260	47%	---	646	3,835	73%	---	1,676	1,291	64%	7,204
2015	---	---	---	---	4,905	260	47%	---	651	3,835	73%	---	1,689	1,291	64%	7,245
2020	---	---	---	---	4,928	260	47%	---	656	3,835	73%	---	1,704	1,291	64%	7,288
2025	---	---	---	---	4,950	260	47%	---	661	3,835	73%	---	1,717	1,291	64%	7,329
2030	---	---	---	---	4,973	260	47%	---	667	3,835	73%	---	1,732	1,291	64%	7,372
2035	---	---	---	---	4,996	260	47%	---	673	3,835	73%	---	1,747	1,291	64%	7,416
2040	---	---	---	---	5,019	260	47%	---	679	3,835	73%	---	1,762	1,291	64%	7,460

California Water Service Company - Los Altos-Suburban District

Workheet 24

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	Undadjusted Baseline Demand (AFY)	SBx7-7 Compliance Target Demand (AFY)	Anticipated Demand with Proposed Programs (AFY)	Compliance Target Savings Requirement (AFY)	Savings Due to Proposed Programs (AFY)
2005-2009 Average	238	238	55,746	14,862	14,862	14,862	0	0
2010	238	238	56,960	15,185	15,185	15,185	0	0
2011	234	235	57,150	15,236	14,967	15,044	269	192
2012	230	233	57,360	15,292	14,752	14,971	540	321
2013	225	231	57,560	15,345	14,533	14,894	812	451
2014	221	228	57,760	15,399	14,312	14,751	1,087	647
2015	217	226	57,970	15,455	14,091	14,675	1,364	779
2016	212	219	58,170	15,508	13,827	14,296	1,681	1,212
2017	207	213	58,380	15,564	13,563	13,916	2,001	1,648
2018	203	206	58,590	15,620	13,296	13,533	2,323	2,087
2019	198	200	58,790	15,673	13,026	13,144	2,647	2,529
2020	193	193	59,000	15,729	12,755	12,755	2,974	2,974
2021	193	193	59,200	15,782	12,798	12,798	2,984	2,984
2022	193	193	59,410	15,838	12,844	12,844	2,995	2,995
2023	193	193	59,620	15,894	12,889	12,889	3,005	3,005
2024	193	193	59,830	15,950	12,935	12,935	3,016	3,016
2025	193	193	60,040	16,006	12,980	12,980	3,026	3,026
2026	193	193	60,250	16,062	13,025	13,025	3,037	3,037
2027	193	193	60,460	16,118	13,071	13,071	3,048	3,048
2028	193	193	60,670	16,174	13,116	13,116	3,058	3,058
2029	193	193	60,880	16,230	13,162	13,162	3,069	3,069
2030	193	193	61,100	16,289	13,209	13,209	3,080	3,080
2031	193	193	61,310	16,345	13,254	13,254	3,090	3,090
2032	193	193	61,520	16,401	13,300	13,300	3,101	3,101
2033	193	193	61,740	16,460	13,347	13,347	3,112	3,112
2034	193	193	61,950	16,516	13,393	13,393	3,123	3,123
2035	193	193	62,170	16,574	13,440	13,440	3,134	3,134
2036	193	193	62,390	16,633	13,488	13,488	3,145	3,145
2037	193	193	62,600	16,689	13,533	13,533	3,156	3,156
2038	193	193	62,820	16,748	13,581	13,581	3,167	3,167
2039	193	193	63,040	16,806	13,628	13,628	3,178	3,178
2040	193	193	63,260	16,865	13,676	13,676	3,189	3,189

*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.