

Water Resources Planning Department

**Projection Analysis Work Sheets
for
Kern River Valley District**

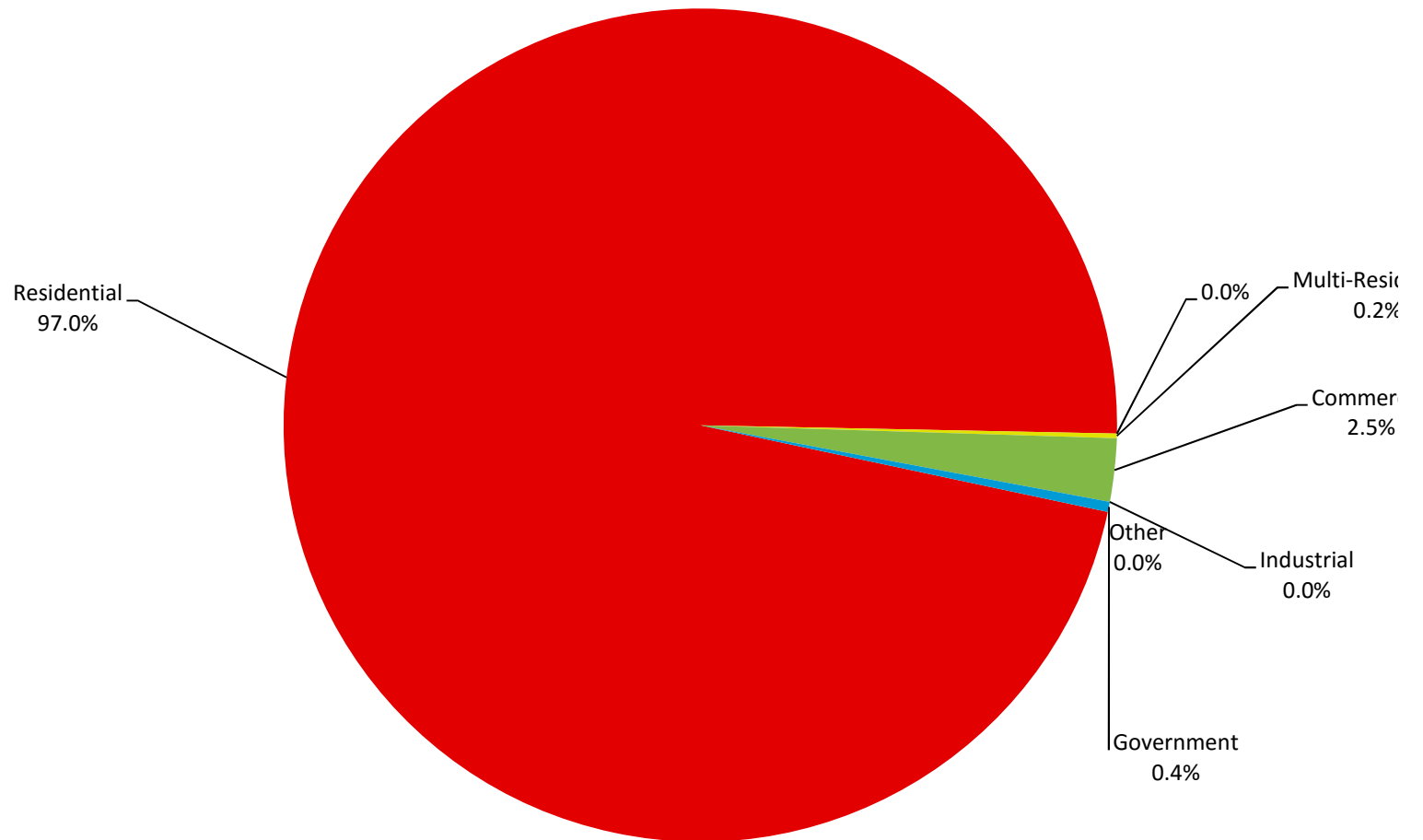
2015



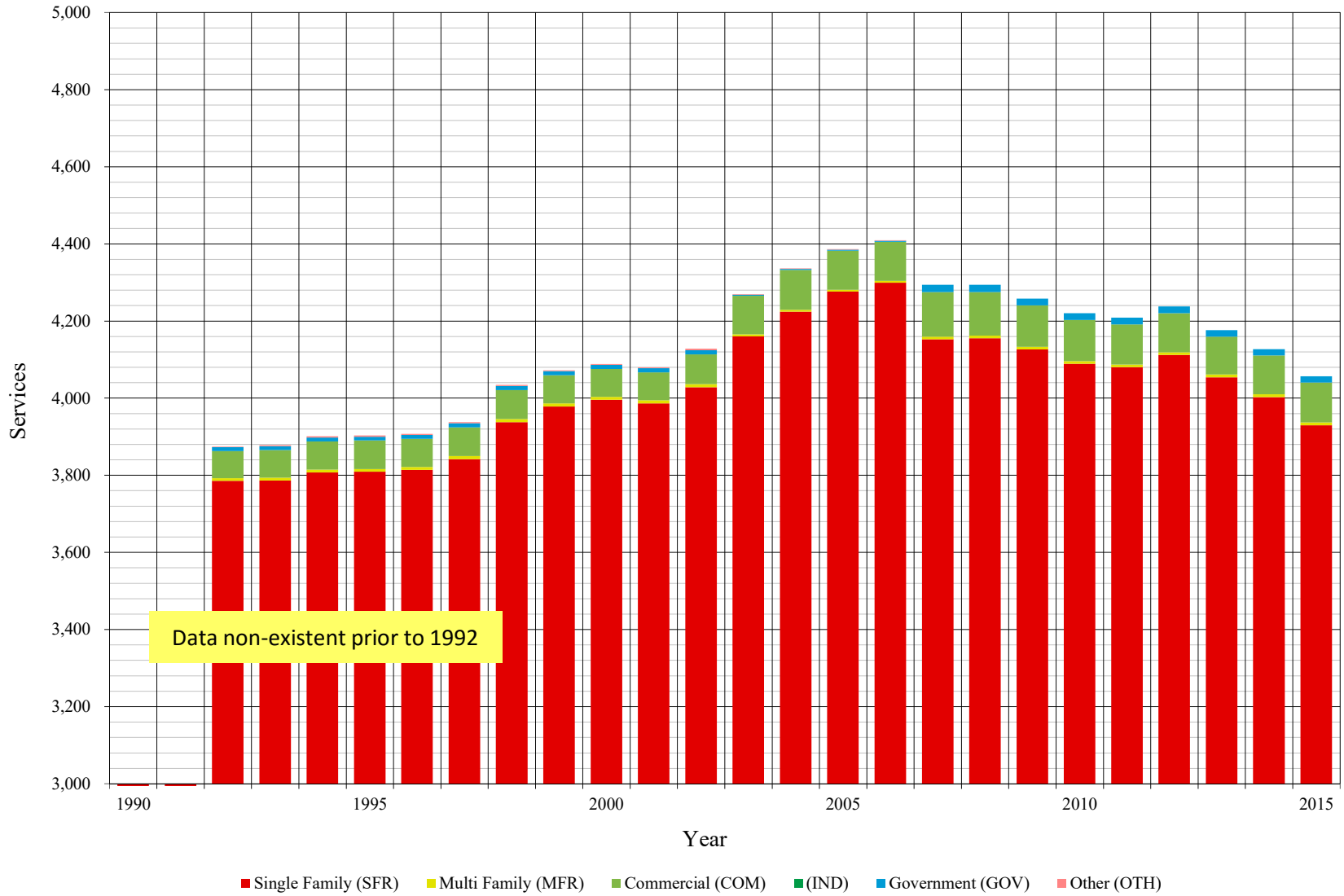
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Distribution of Services (2015)



Historical Services



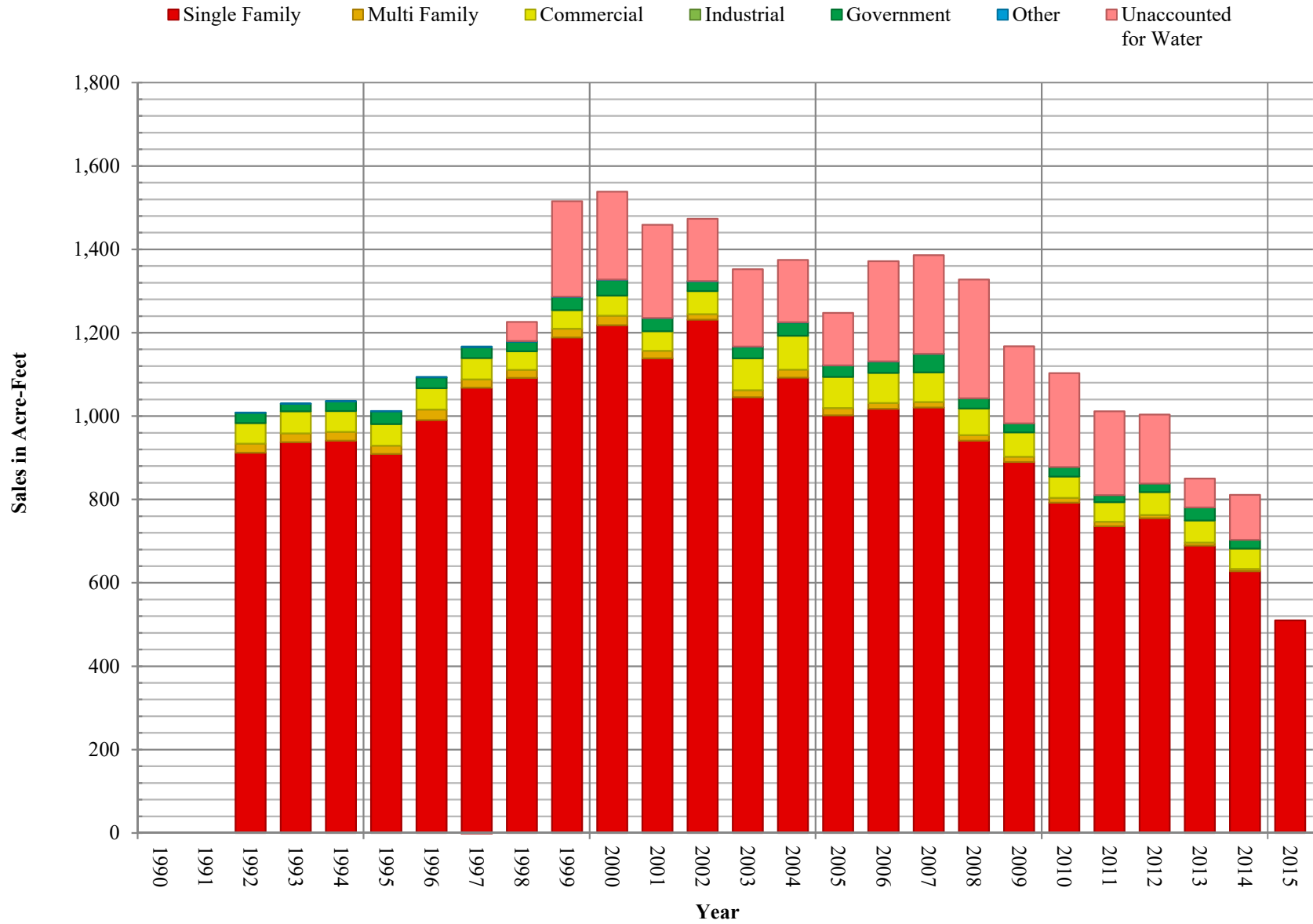
California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Average Annual Services

Worksheet 1

Year	Single Family (SFR)	Single Family (FLT)	Multi Family (MFR)	Commercial (COM)	Industrial (IND)	Government (GOV)	Irrig./Rec. (IRR)	Other (OTH)	Total	Annual Change
1990	-	-	-	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-	-
1992	3,785	-	7	70	-	10	9	2	3,883	
1993	3,786	-	7	72	-	10	9	3	3,887	4
1994	3,807	-	7	73	-	10	9	4	3,910	23
1995	3,809	-	7	74	-	10	9	3	3,912	2
1996	3,814	-	7	73	-	10	9	3	3,916	4
1997	3,842	-	8	74	-	11	9	3	3,947	31
1998	3,937	-	8	75	-	11	9	3	4,043	97
1999	3,978	-	8	73	-	11	9	2	4,081	38
2000	3,995	-	8	72	-	11	9	2	4,097	16
2001	3,986	-	8	72	-	11	9	2	4,088	(9)
2002	4,028	-	8	77	-	11	9	4	4,137	49
2003	4,160	-	5	100	-	3	-	1	4,269	132
2004	4,224	-	5	103	-	3	-	1	4,336	67
2005	4,276	-	5	101	-	3	-	1	4,386	50
2006	4,299	-	5	101	-	3	-	1	4,409	23
2007	4,152	-	7	116	-	19	-	-	4,294	(115)
2008	4,155	14	7	113	-	19	-	-	4,308	14
2009	4,126	14	7	107	-	18	-	-	4,272	(36)
2010	4,089	14	7	107	-	17	-	-	4,234	(38)
2011	4,080	14	7	104	-	17	-	-	4,222	(11)
2012	4,112	14	7	101	-	18	-	-	4,252	29
2013	4,054	14	7	98	-	17	-	-	4,190	(62)
2014	4,002	11	7	101	-	16	-	-	4,137	(52)
2015	3,929	-	7	104	-	16	-	-	4,056	(81)
5 Yr Avg.	4,035		7	102	0	17	0	0	4,171	-27
10 Yr Avg.	4,100		7	105	0	16	0	0	4,237	-20
15 Yr Avg.	4,112		7	100	0	13	0	1	4,239	4
20 Yr Avg.	3,966		7	102	0	16	0	0	4,097	-57

Note: 14 flat rates added to SFR

Historical Sales

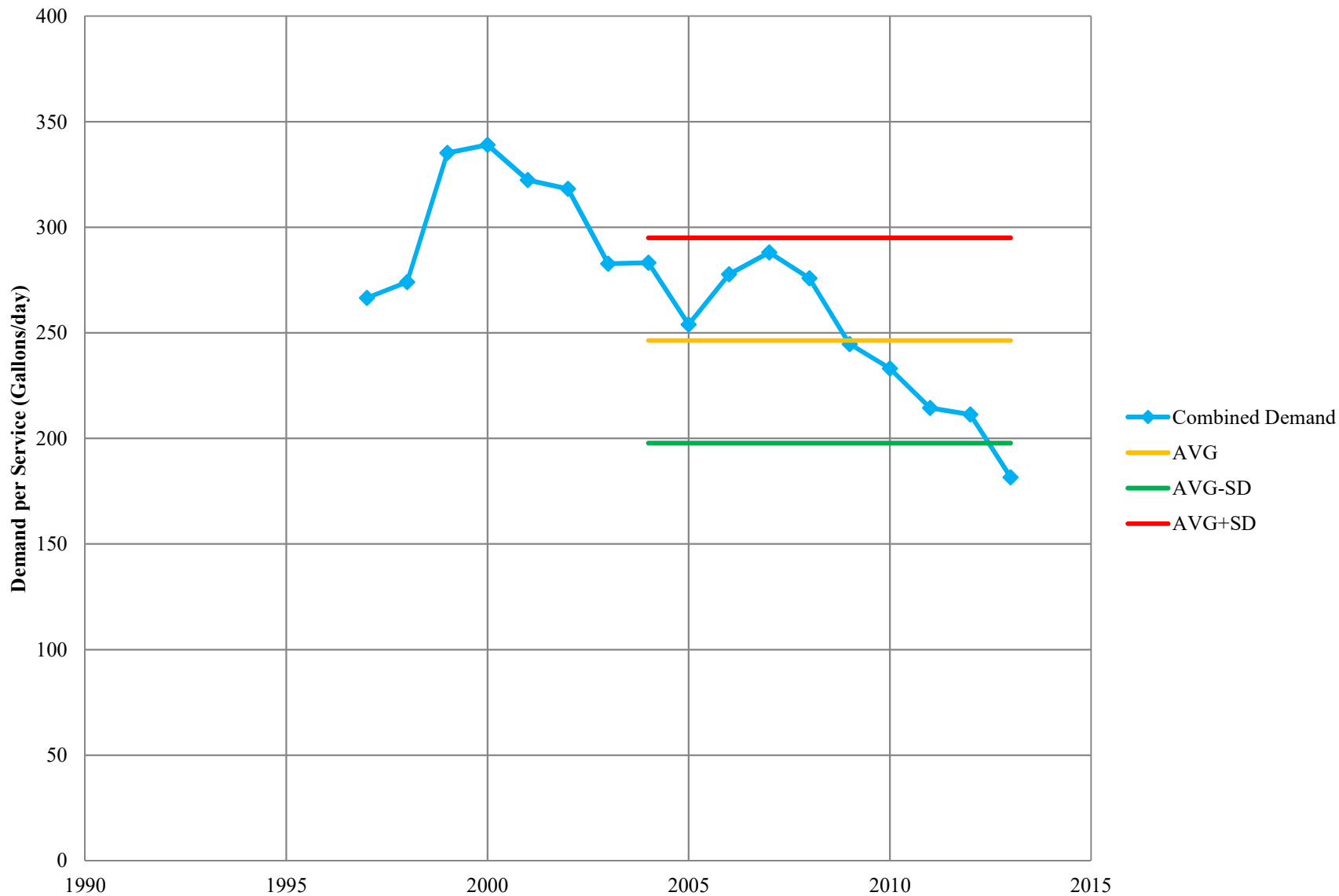


California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Sales (AF)

Worksheet 3

Year	Single Family (SFR)	Single Family (FLT)	Multi Family (MFR)	Commercial (COM)	Industrial (IND)	Government (GOV)	Irrig. / Rec. (IRR)	Other (OTH)	Unaccounted for Water (UAFW)	Total Sales (AF)	Total Demand (AF)	Total Demand (MGal)
1990												
1991												
1992	912		22	49	-	25	-	0.2		1,008	-	
1993	938		21	53	-	19	14	0.6		1,044	-	
1994	941		21	50	-	23	14	0.8		1,050	-	
1995	909		20	52	-	30	15	0.6		1,026	-	
1996	991		25	51	-	26	14	1.1		1,109	-	
1997	1068		20	51	-	26	15	2.0	(4)	1,182	1,178	
1998	1092		19	44	-	23	15	1.6	46	1,195	1,241	
1999	1188		21	44	-	32	17	1.3	229	1,304	1,532	
2000	1218		23	48	-	38	18	1.2	211	1,345	1,556	
2001	1138		18	47	-	32	17	0.3	223	1,253	1,476	
2002	1231		14	55	-	24	1	0.5	150	1,325	1,474	
2003	1045		17	77	-	27	0	0.4	186	1,167	1,352	
2004	1092		19	81	-	32	1	0.4	150	1,226	1,375	
2005	1002		18	75	-	27	-	0.3	125	1,122	1,247	
2006	1018		14	72	-	27	-	0.1	241	1,131	1,372	
2007	1021		13	72	-	44	-	0.1	236	1,150	1,386	
2008	941	3	13	64	-	25	-	-	285	1,046	1,331	
2009	890	3	12	59	-	22	-	-	185	986	1,171	
2010	792	3	12	51	-	23	-	-	225	880	1,105	
2011	736	3	10	47	-	16	-	-	201	813	1,014	
2012	755	3	8	55	-	20	-	-	166	841	1,006	
2013	690	2	7	53	-	31	-	-	69	783	852	
2014	628	0	6	49	-	21	-	-	108	703	811	
2015	510	0	4	50	-	13	-	-	111	577	688	

Combined Demand per Service (Consolidated)



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

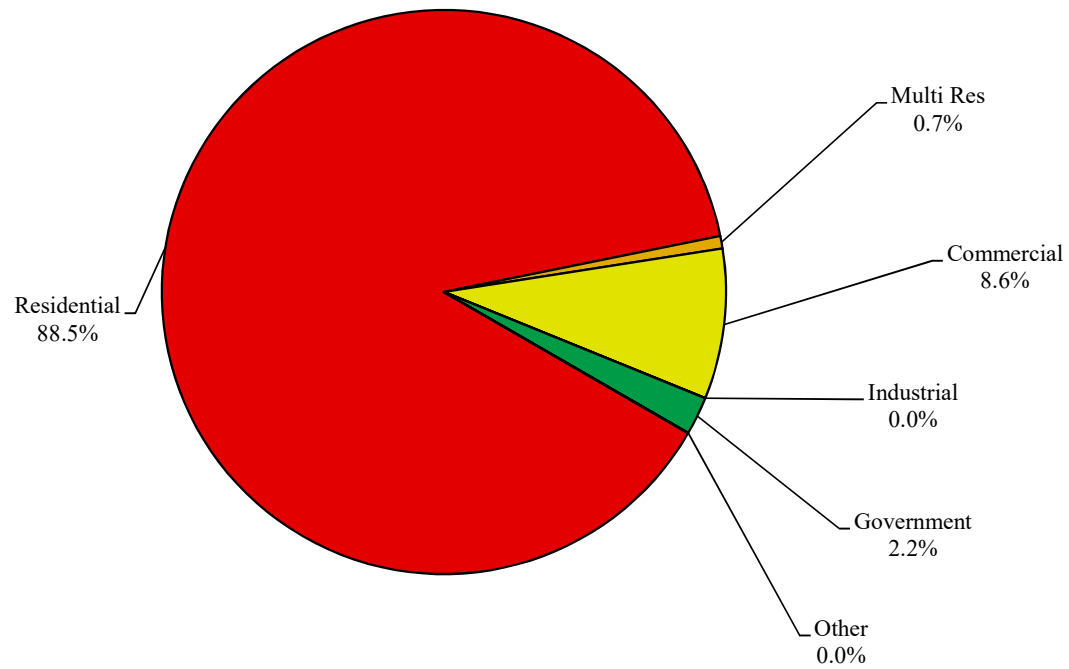
Worksheet 4

Year	SFR	MFR	COM	IND	GOV	IRG	OTH	UAFW	Combined Demand/Serv
1990									
1991									
1992	215	2,791	629		2,195	0	72	0	
1993	221	2,644	657		1,654	1,382	191	0	
1994	221	2,697	614		2,047	1,417	176	0	
1995	213	2,586	624		2,699	1,445	169	0	
1996	232	3,173	628		2,338	1,432	332	0	
1997	248	2,207	618		2,085	1,507	596	-1	267
1998	248	2,170	526		1,887	1,509	480	10	274
1999	267	2,353	542		2,578	1,664	567	50	335
2000	272	2,575	597		3,060	1,736	516	46	339
2001	255	2,063	578		2,587	1,734	140	49	322
2002	273	1,510	639		1,913	106	102	32	318
2003	224	3,050	684		8,132		400	39	283
2004	231	3,442	702		9,547		396	31	283
2005	209	3,209	659		8,179		279	26	254
2006	211	2,483	638		8,110		123	49	278
2007	219	1,644	552		2,086			49	288
2008	202	1,659	506		1,179			59	276
2009	193	1,574	489		1,073			39	245
2010	173	1,487	425		1,189			47	233
2011	161	1,336	405		851			43	214
2012	164	995	482		1,025			35	211
2013	152	912	484		1,659			15	182
2014	140	742	431		1,173			23	175
2015	116	523	428		705			24	151
AVG	192	1,874	534		3,490		266	39	246
SD	38	778	87		2,650			20	49

California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Percentage Change in Annual Demand

Year	Residential	Multi Res	Commercial	Industrial	Government	Irrig. / Rec.	Other	Unaccounted	Total
1981									
1982									
1983									
1984									
1985									
1986									
1987									
1988									
1989									
1990									
1991									
1992									
1993	2.81%	-5.25%	7.47%		-24.64%	#DIV/0!	298.57%		
1994	0.37%	1.97%	-5.30%		23.72%	2.49%	22.94%		
1995	-3.39%	-4.10%	3.10%		31.86%	1.99%	-27.70%		
1996	8.97%	22.70%	-0.76%		-13.36%	-0.88%	95.97%		
1997	7.83%	-20.51%	-0.28%		-1.93%	5.20%	79.42%		
1998	2.20%	-1.68%	-13.74%		-9.46%	0.17%	-19.38%	-1379.27%	-1379.27%
1999	8.87%	8.45%	0.42%		36.59%	10.27%	-21.34%	398.22%	398.22%
2000	2.47%	9.43%	8.49%		18.70%	4.32%	-8.86%	-7.85%	-7.85%
2001	-6.53%	-19.90%	-3.08%		-15.45%	-0.13%	-72.82%	6.04%	6.04%
2002	8.15%	-26.77%	18.15%		-26.04%	-93.88%	45.99%	-33.06%	-33.06%
2003	-15.11%	26.19%	39.02%		15.90%	-87.12%	-2.50%	24.13%	24.13%
2004	4.51%	12.88%	5.78%		17.41%	491.67%	-1.03%	-19.43%	-19.43%
2005	-8.31%	-6.76%	-8.04%		-14.33%	-100.00%	-29.53%	-16.07%	-16.07%
2006	1.60%	-22.63%	-3.11%		-0.84%		-55.88%	91.72%	91.72%
2007	0.30%	-7.33%	-0.87%		62.92%			-1.81%	-1.81%
2008	-7.80%	0.94%	-10.63%		-43.74%			20.53%	20.53%
2009	-5.42%	-5.13%	-8.04%		-13.36%			-35.06%	-35.06%
2010	-10.97%	-5.51%	-13.69%		6.12%			21.70%	21.70%
2011	-7.11%	-10.18%	-6.88%		-28.41%			-10.51%	-10.51%
2012	2.62%	-25.55%	15.36%		24.49%			-17.74%	-17.74%
2013	-8.71%	-8.30%	-2.48%		52.09%			-58.26%	-58.26%
2014	-8.96%	-18.59%	-8.14%		-32.47%			55.62%	55.62%
2015	-18.72%	-29.50%	1.70%		-39.95%			3.41%	3.41%

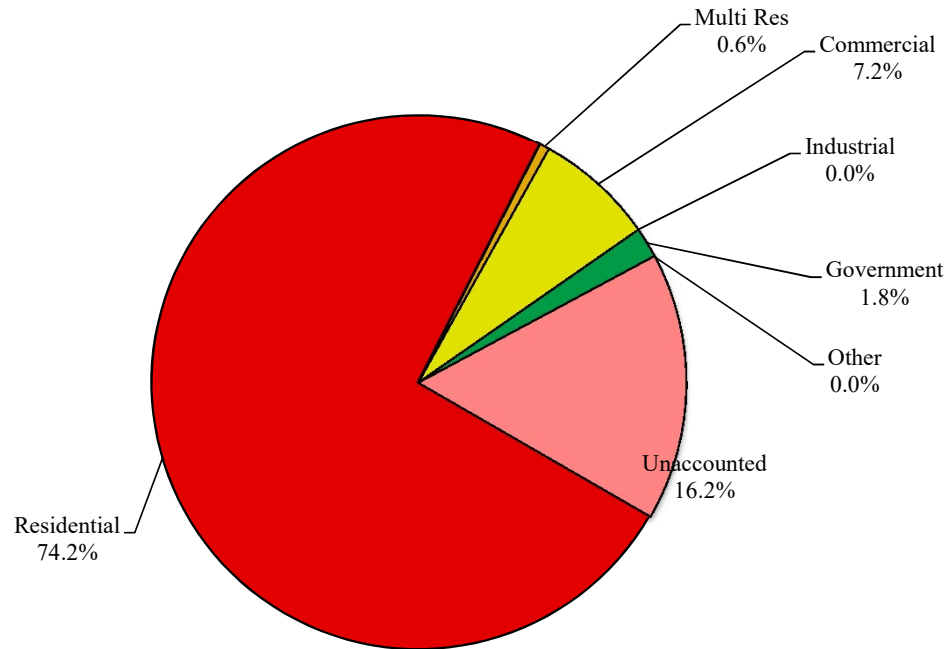
Percent of Total Sales by Type of Use (2015)



California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Percentage of Total Sales

Year	Residential	Multi Res	Commercial	Industrial	Government	Other	Percent Total
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992	90.48%	2.17%	4.89%	0.00%	2.44%	0.02%	100.00%
1993	89.77%	1.99%	5.07%	0.00%	1.77%	0.06%	100.00%
1994	89.59%	2.01%	4.78%	0.00%	2.18%	0.07%	100.00%
1995	88.56%	1.98%	5.04%	0.00%	2.95%	0.06%	100.00%
1996	89.36%	2.24%	4.63%	0.00%	2.36%	0.10%	100.00%
1997	90.37%	1.67%	4.33%	0.00%	2.17%	0.17%	100.00%
1998	91.33%	1.63%	3.69%	0.00%	1.95%	0.14%	100.00%
1999	91.16%	1.62%	3.40%	0.00%	2.44%	0.10%	100.00%
2000	90.52%	1.72%	3.58%	0.00%	2.80%	0.09%	100.00%
2001	90.84%	1.47%	3.72%	0.00%	2.54%	0.03%	100.00%
2002	92.92%	1.02%	4.16%	0.00%	1.78%	0.03%	100.00%
2003	89.58%	1.46%	6.56%	0.00%	2.34%	0.04%	100.00%
2004	89.10%	1.57%	6.61%	0.00%	2.62%	0.04%	100.00%
2005	89.28%	1.60%	6.64%	0.00%	2.45%	0.03%	100.00%
2006	89.97%	1.23%	6.38%	0.00%	2.41%	0.01%	100.00%
2007	88.78%	1.12%	6.22%	0.00%	3.86%	0.01%	100.00%
2008	89.96%	1.24%	6.11%	0.00%	2.39%	0.00%	100.00%
2009	90.29%	1.25%	5.97%	0.00%	2.20%	0.00%	100.00%
2010	89.99%	1.32%	5.76%	0.00%	2.61%	0.00%	100.00%
2011	90.56%	1.29%	5.81%	0.00%	2.02%	0.00%	100.00%
2012	89.85%	0.93%	6.49%	0.00%	2.44%	0.00%	100.00%
2013	88.02%	0.91%	6.79%	0.00%	3.97%	0.00%	100.00%
2014	89.24%	0.83%	6.94%	0.00%	2.99%	0.00%	100.00%
2015	88.49%	0.71%	8.61%	0.00%	2.19%	0.00%	100.00%

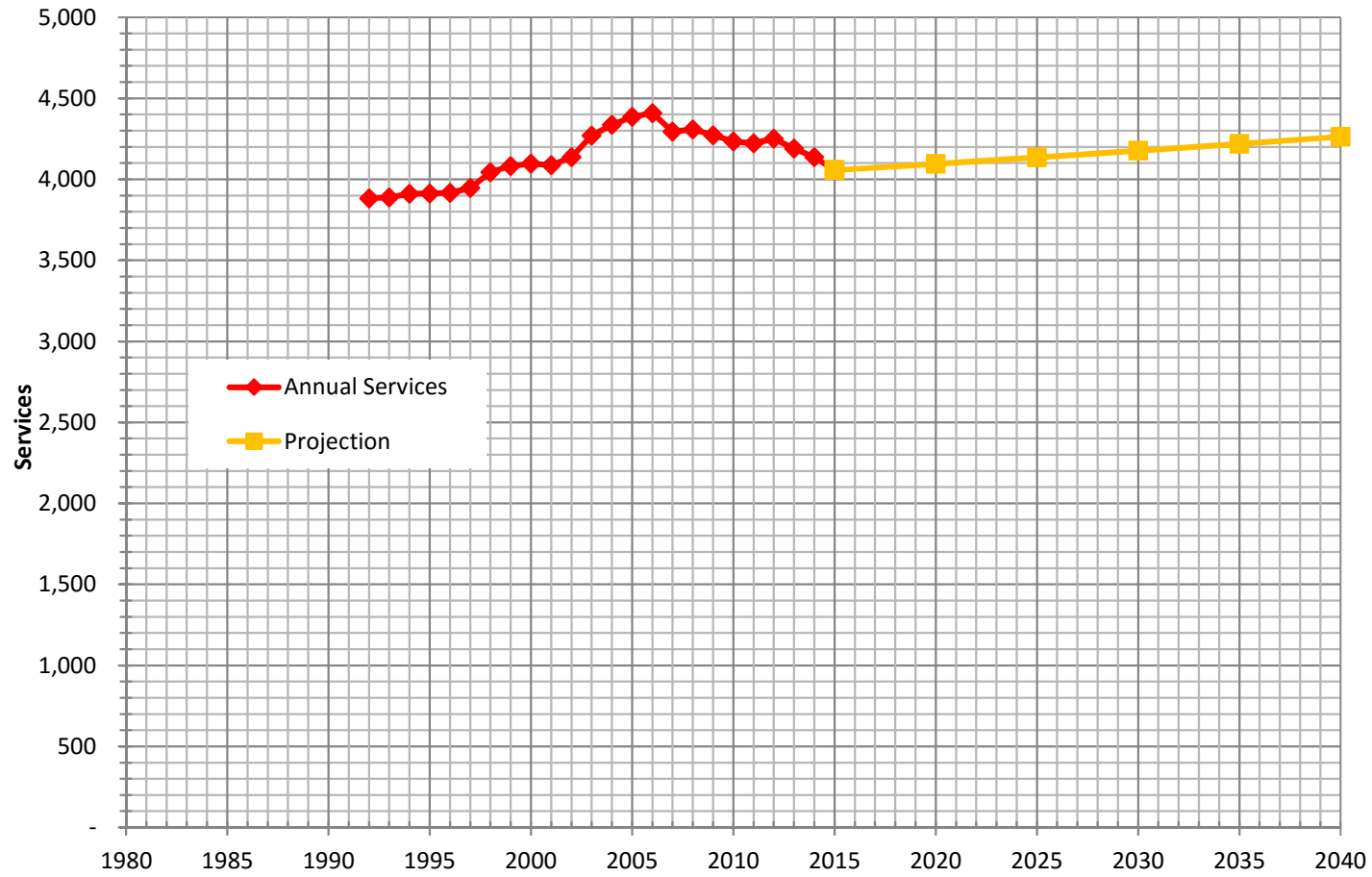
Percent of Total Demand by Type of Use (2015)



California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Percentage of Total Demand

Year	Residential	Multi Res	Commercial	Industrial	Government	Other	Unaccounted	Percent Total
1980								
1981								
1982								
1983								
1984								
1985								
1986								
1987								
1988								
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997	90.64%	1.68%	4.34%	0.00%	2.18%	0.17%	-0.30%	100.00%
1998	87.95%	1.57%	3.56%	0.00%	1.87%	0.13%	3.70%	100.00%
1999	77.56%	1.38%	2.89%	0.00%	2.07%	0.08%	14.92%	100.00%
2000	78.27%	1.48%	3.09%	0.00%	2.42%	0.07%	13.54%	100.00%
2001	77.10%	1.25%	3.16%	0.00%	2.16%	0.02%	15.13%	100.00%
2002	83.50%	0.92%	3.74%	0.00%	1.60%	0.03%	10.14%	100.00%
2003	77.29%	1.26%	5.66%	0.00%	2.02%	0.03%	13.72%	100.00%
2004	79.41%	1.40%	5.89%	0.00%	2.33%	0.03%	10.87%	100.00%
2005	80.30%	1.44%	5.97%	0.00%	2.20%	0.03%	10.06%	100.00%
2006	74.19%	1.01%	5.26%	0.00%	1.99%	0.01%	17.54%	100.00%
2007	73.65%	0.93%	5.16%	0.00%	3.20%	0.01%	17.05%	100.00%
2008	70.71%	0.98%	4.81%	0.00%	1.88%	0.00%	21.39%	100.00%
2009	76.03%	1.05%	5.02%	0.00%	1.85%	0.00%	15.79%	100.00%
2010	71.68%	1.05%	4.59%	0.00%	2.08%	0.00%	20.35%	100.00%
2011	72.58%	1.03%	4.66%	0.00%	1.62%	0.00%	19.85%	100.00%
2012	75.06%	0.77%	5.42%	0.00%	2.03%	0.00%	16.46%	100.00%
2013	80.89%	0.84%	6.24%	0.00%	3.65%	0.00%	8.11%	100.00%
2014	77.40%	0.72%	6.02%	0.00%	2.59%	0.00%	13.27%	100.00%
2015	74.17%	0.60%	7.22%	0.00%	1.84%	0.00%	16.17%	100.00%

Historical & Projected Services (Consolidated)

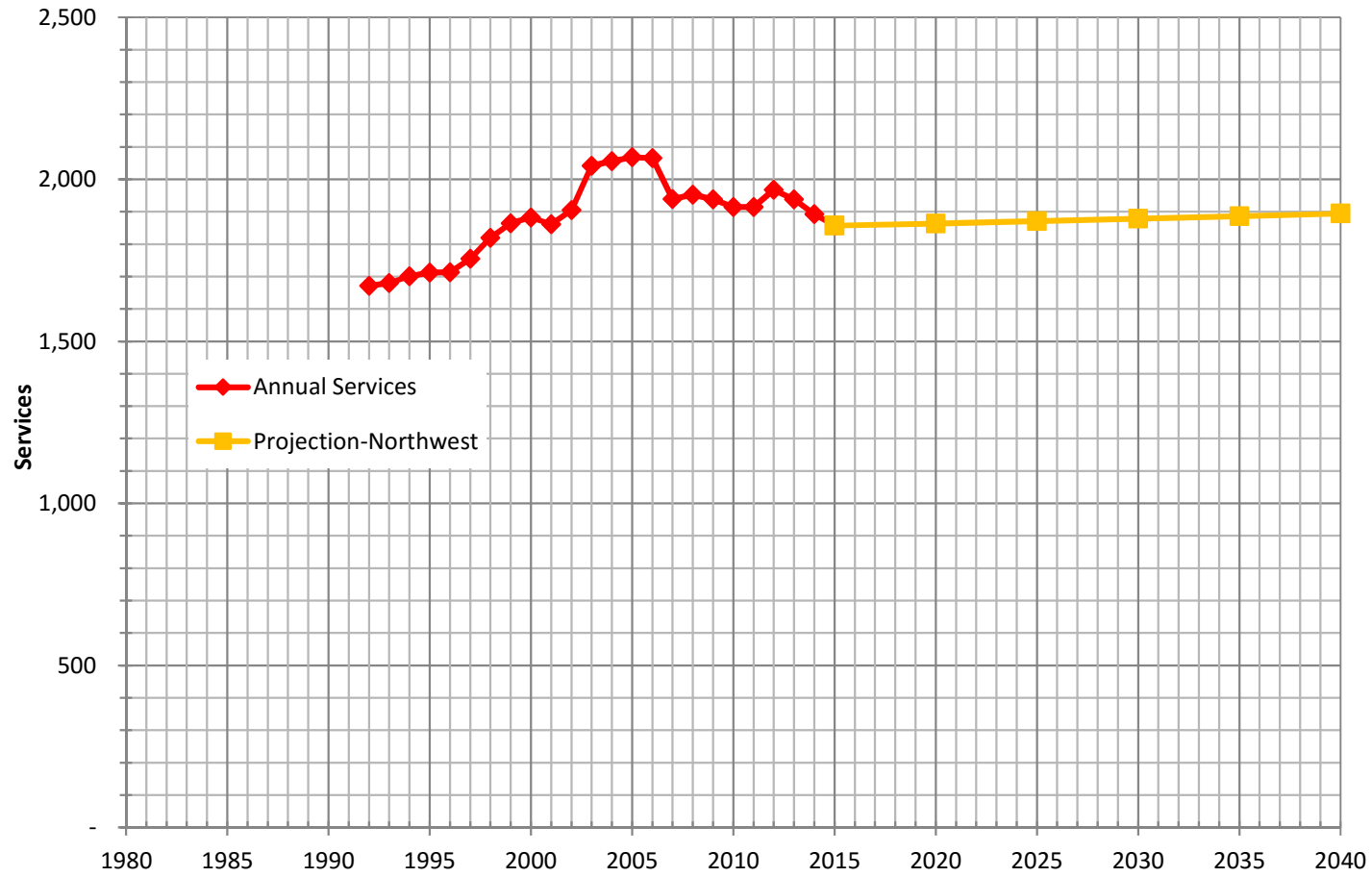


California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Actual & Projected Annual Average Services

Customer Category	Selected Trend	Growth Rate	Actual Services				Projected Services					
			2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR		0.17%	3,995	4,276	4,103	3,929	3,929	3,961	3,994	4,028	4,063	4,099
MFR		0.76%	7	5	7	7	7	7	8	8	8	8
COM		1.12%	72	101	107	104	104	109	116	122	129	137
IND		0.00%	0	0	0	0	0	0	0	0	0	0
GOV		0.69%	11	3	17	16	16	17	17	18	18	19
OTH		0.00%	0	0	0	0	0	0	0	0	0	0
TOTAL	Average growth rate 2011-2040	0.20%	4,085	4,385	4,234	4,056	4,056	4,095	4,134	4,176	4,219	4,263

Notes:

Historical & Projected Services (Northwest w/o Split Mountain)



California Water Service Company - Kern River Valley District (Northwest w/o Split Mountain)
Water Supply and Demand Analysis and Projections
Actual & Projected Annual Average Services

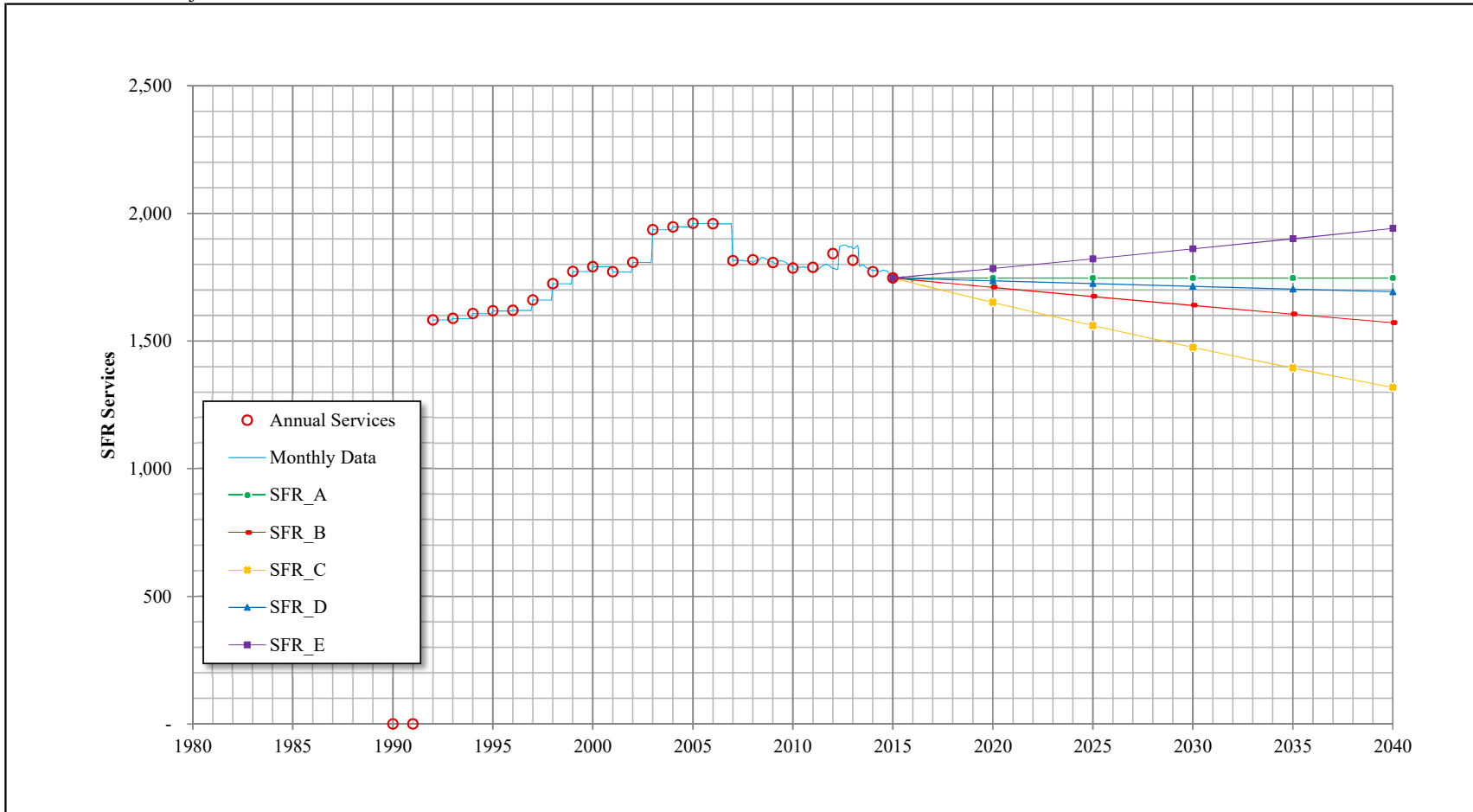
Customer Category	Selected Trend		Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_A	Zero Growth Rate	0.00%	1,791	1,961	1,799	1,747	1,747	1,747	1,747	1,747	1,747	1,747
MFR	MFR_D	15 Yr Avg.	0.76%	7	5	7	7	7	7	8	8	8	8
COM	COM_E	20 Yr Avg.	1.28%	72	99	95	92	92	98	104	111	118	126
IND													
GOV	GOV_E	20 Yr Avg.	0.44%	10	2	13	12	12	12	13	13	13	13
OTH													
TOTAL	Average growth rate 2011-2040		0.08%	1,880	2,067	1,915	1,857	1,857	1,864	1,871	1,878	1,886	1,894

	Increase in Service from Base Year to 2040
SFR	0
MFR	1
COM	34
IND	0
GOV	1
OTH	0
TOTAL	37

California Water Service Company - Kern River Valley District (Northwest w/o Split Mountain)

Water Supply and Demand Analysis and Projections

SFR Historical & Projected Services

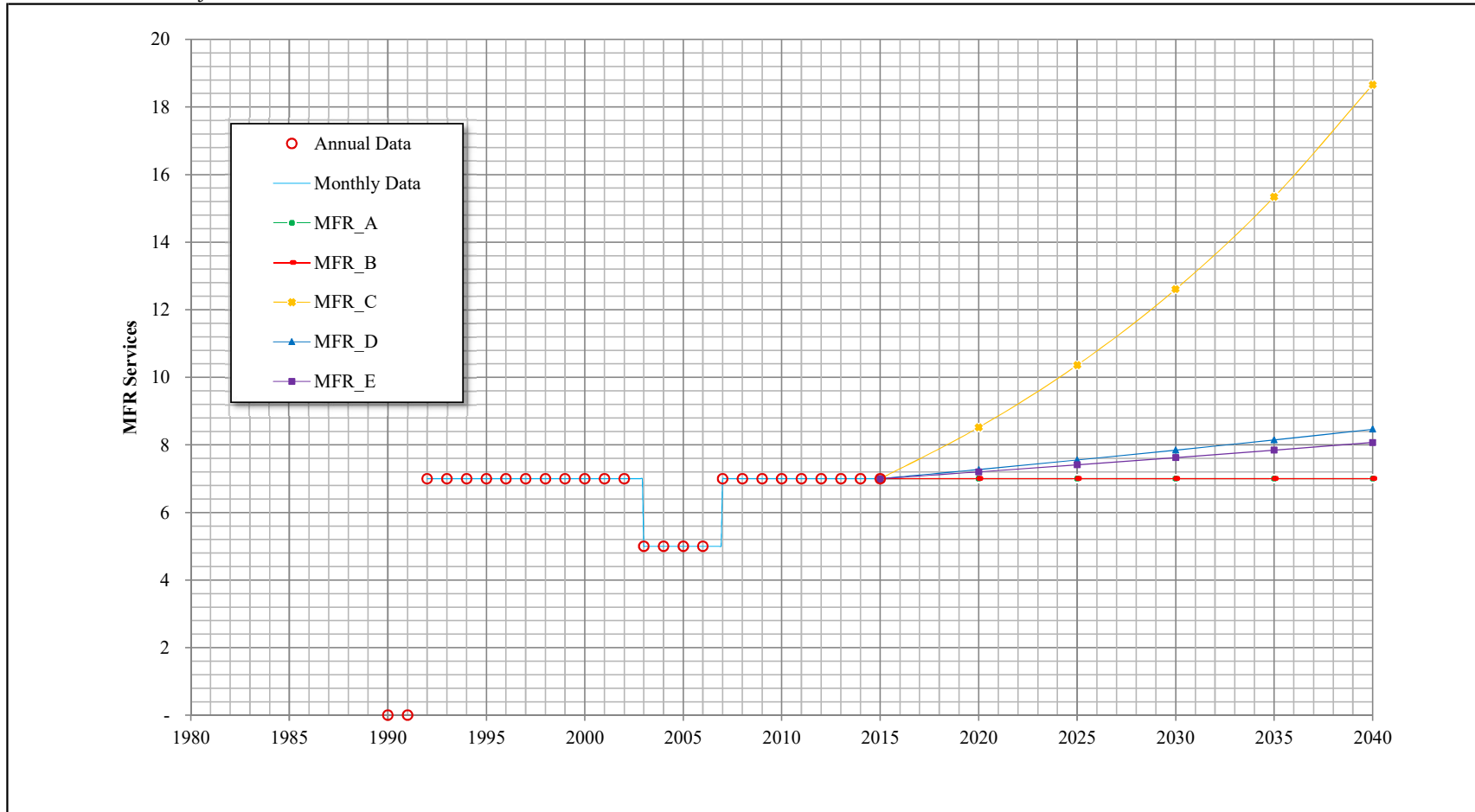


Customer Category	Trend		Growth Rate	Actual				Projected						
				2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040	
SFR	>	SFR_A	Zero Growth Rate	0.00%	1,791	1,961	1,799	1,747	1,747	1,747	1,747	1,747	1,747	1,747
		SFR_B	5 Yr Avg.	-0.42%				1,747	1,747	1,710	1,674	1,639	1,605	1,571
		SFR_C	10 Yr Avg.	-1.12%				1,747	1,747	1,651	1,561	1,475	1,394	1,318
		SFR_D	15 Yr Avg.	-0.12%				1,747	1,747	1,736	1,725	1,714	1,704	1,693
		SFR_E	20 Yr Avg.	0.42%				1,747	1,747	1,784	1,822	1,861	1,900	1,941

California Water Service Company - Kern River Valley District (Northwest w/o Split Mountain)

Water Supply and Demand Analysis and Projections

MFR Historical & Projected Services

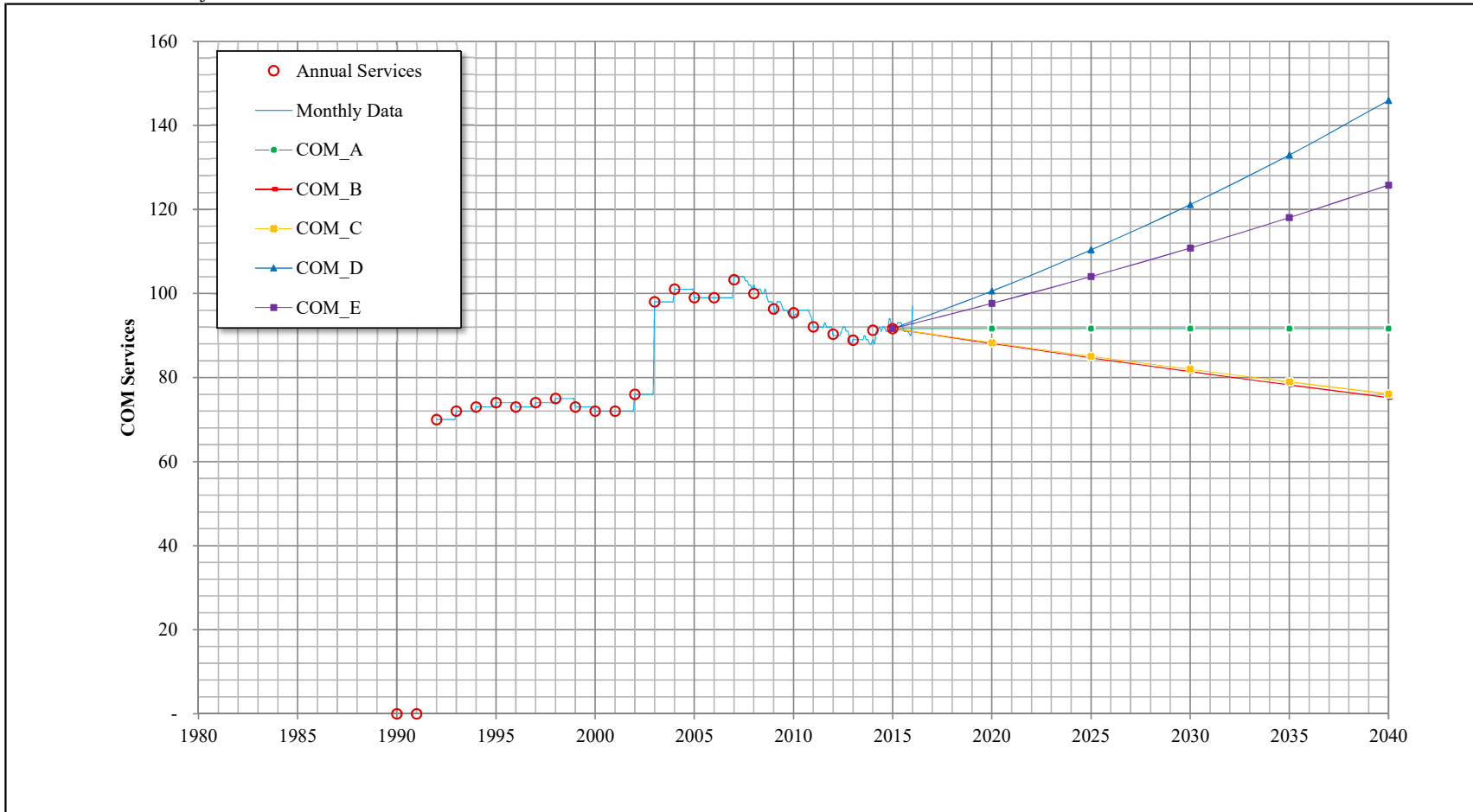


Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
MFR	MFR_A	Zero Growth Rate	7	5	7	7	7	7	7	7	7	7
	MFR_B	5 Yr Avg.				7	7	7	7	7	7	7
	MFR_C	10 Yr Avg.				7	7	9	10	13	15	19
	> MFR_D	15 Yr Avg.				7	7	7	8	8	8	8
	MFR_E	20 Yr Avg.				7	7	7	7	8	8	8

California Water Service Company - Kern River Valley District (Northwest w/o Split Mountain)

Water Supply and Demand Analysis and Projections

COM Historical & Projected Services

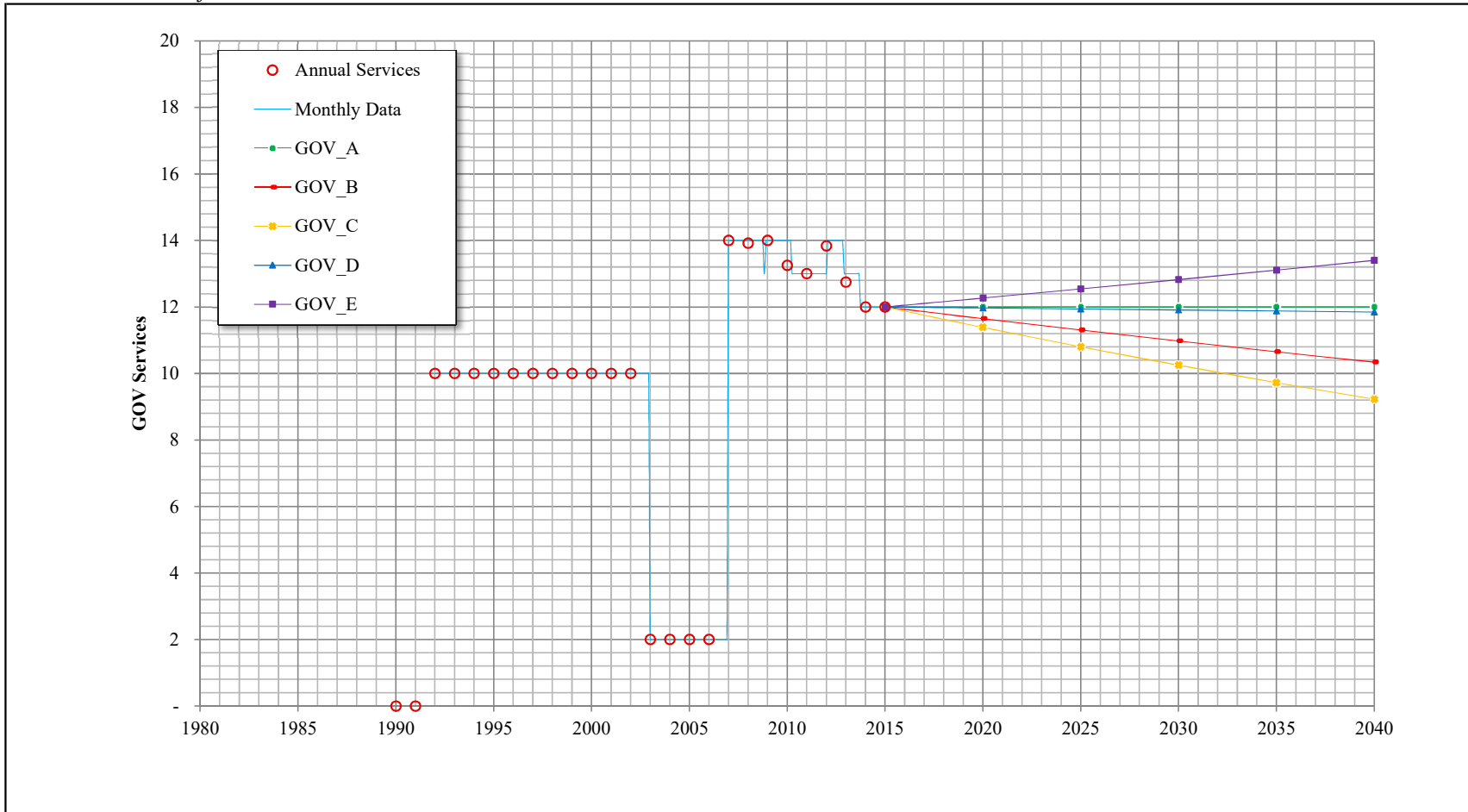


Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
COM			72	99	95	92	92	92	92	92	92	92
	COM_A	Zero Growth Rate				92	92	92	92	92	92	92
	COM_B	5 Yr Avg.				92	92	88	85	81	78	75
	COM_C	10 Yr Avg.				92	92	88	85	82	79	76
	COM_D	15 Yr Avg.				92	92	101	110	121	133	146
	> COM_E	20 Yr Avg.				92	92	98	104	111	118	126

California Water Service Company - Kern River Valley District (Northwest w/o Split Mountain)

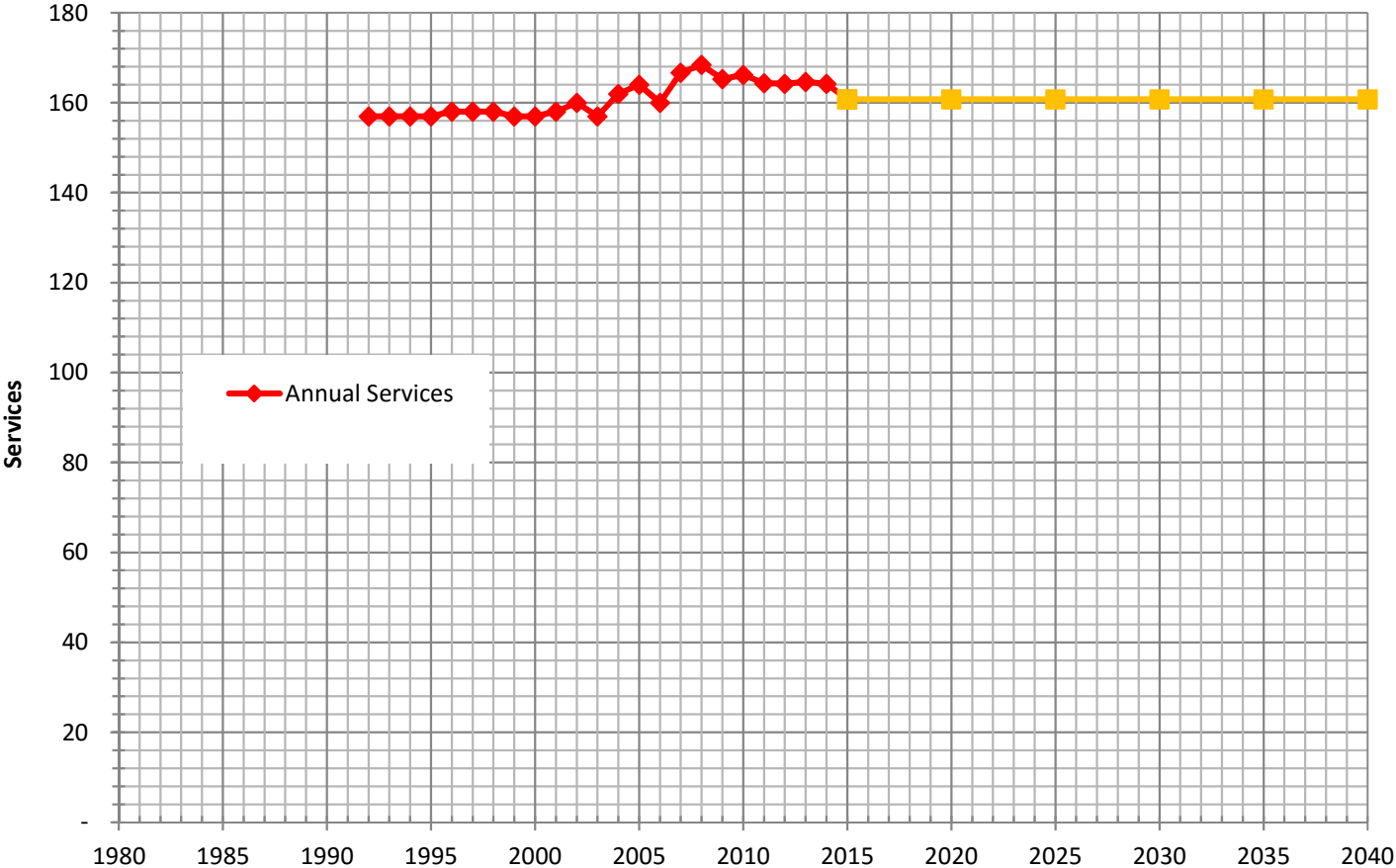
Water Supply and Demand Analysis and Projections

GOV Historical & Projected Services



Customer Category	Trend	Growth Rate	Actual				Projected						
			2000	2005	2010	Base Year	Services	Services	Services	Services	Services	Services	
						2015	2015	2020	2025	2030	2035	2040	
GOV			10	2	13	12	12	12	12	12	12	12	12
	GOV_A	Zero Growth Rate				12	12	12	12	12	12	12	12
	GOV_B	5 Yr Avg.				12	12	12	11	11	11	11	10
	GOV_C	10 Yr Avg.				12	12	11	11	10	10	10	9
	GOV_D	15 Yr Avg.				12	12	12	12	12	12	12	12
	> GOV_E	20 Yr Avg.				12	12	12	13	13	13	13	13

Historical & Projected Services (Split Mountain)



California Water Service Company - Kern River Valley District (Split Mountain)
Water Supply and Demand Analysis and Projections
Actual & Projected Annual Average Services

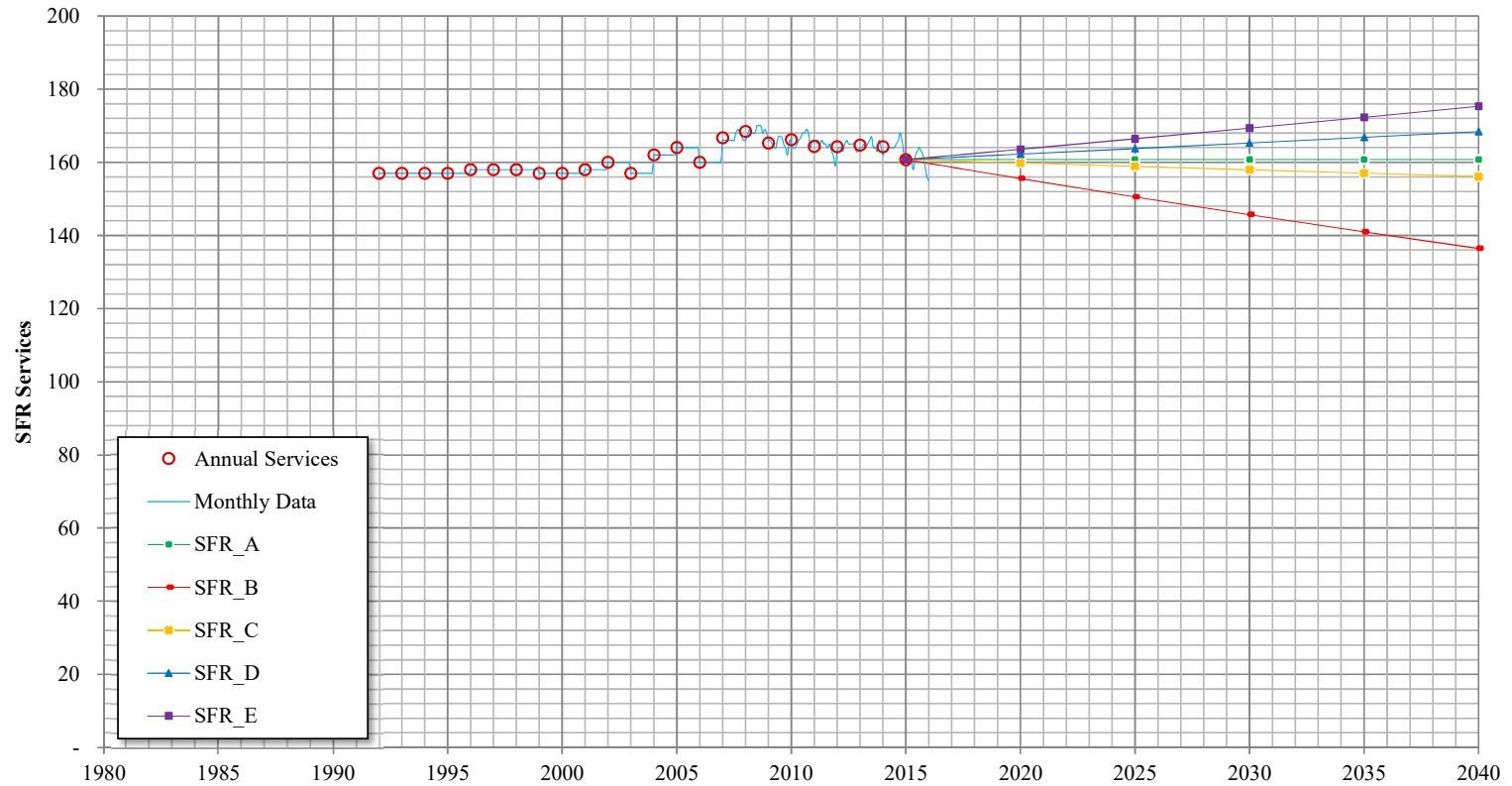
Customer Category	Selected Trend		Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_A	Zero Growth Rate	0.00%	157	164	166	161	161	161	161	161	161	161
MFR			0.00%	0	0	0	0	0	0	0	0	0	0
COM			0.00%	0	0	0	0	0	0	0	0	0	0
IND			0.00%	0	0	0	0	0	0	0	0	0	0
GOV			0.00%	0	0	0	0	0	0	0	0	0	0
OTH			0.00%	0	0	0	0	0	0	0	0	0	0
TOTAL	Average growth rate 2011-2040		0.00%	157	164	166	161	161	161	161	161	161	161

	Increase in Service from Base Year to 2040
SFR	0
MFR	0
COM	0
IND	0
GOV	0
OTH	0
TOTAL	0

California Water Service Company - Kern River Valley District (Split Mountain)

Water Supply and Demand Analysis and Projections

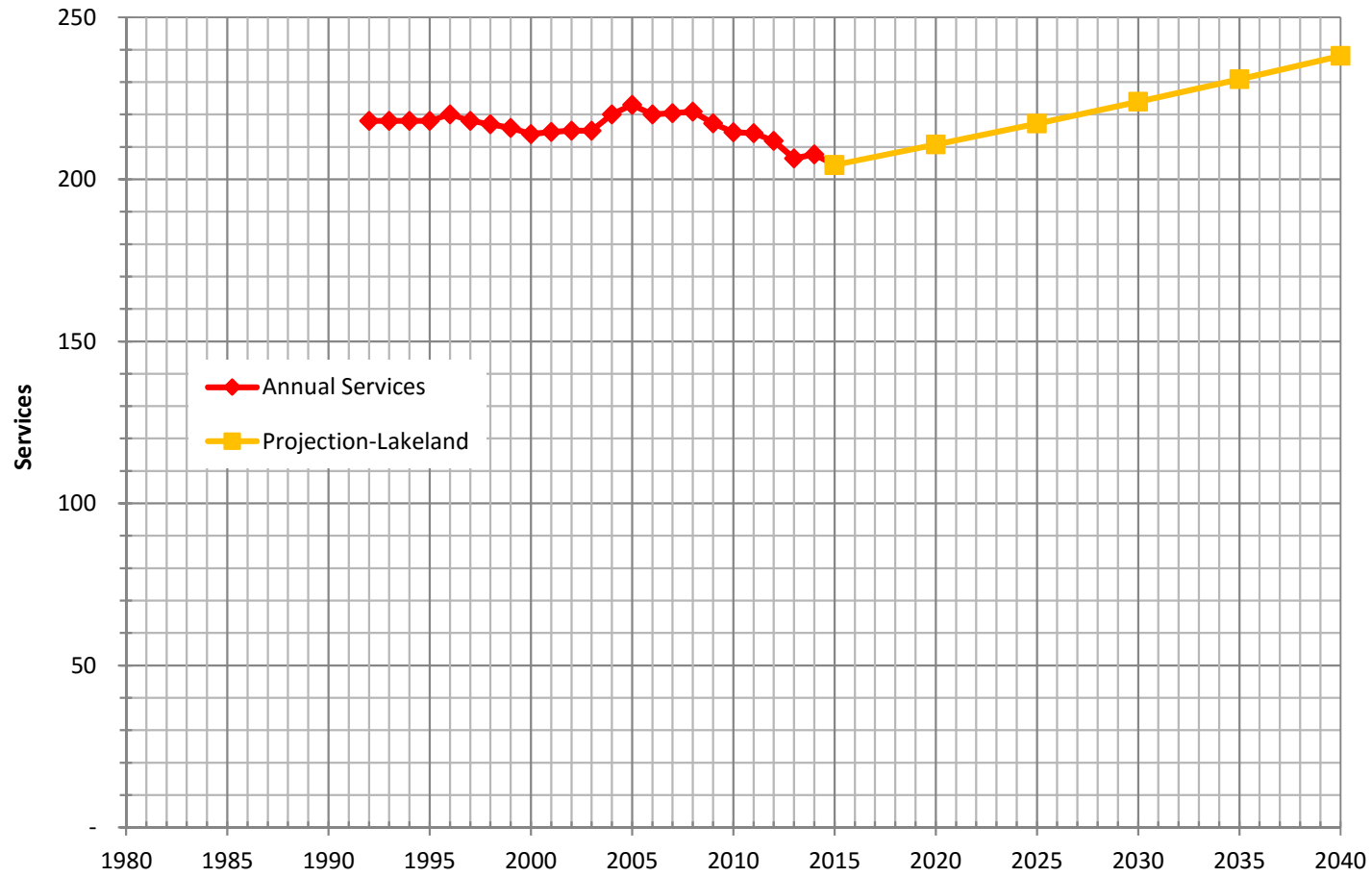
SFR Historical & Projected Services



Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
SFR	>	SFR_A Zero Growth Rate	157	164	166	161	161	161	161	161	161	161
		SFR_B 5 Yr Avg.				161	161	156	151	146	141	136
		SFR_C 10 Yr Avg.				161	161	160	159	158	157	156
		SFR_D 15 Yr Avg.				161	161	162	164	165	167	168
		SFR_E 20 Yr Avg.				161	161	164	166	169	172	175

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Historical & Projected Services (Lakeland)



California Water Service Company - Kern River Valley District (Lakeland)
Water Supply and Demand Analysis and Projections
Actual & Projected Annual Average Services

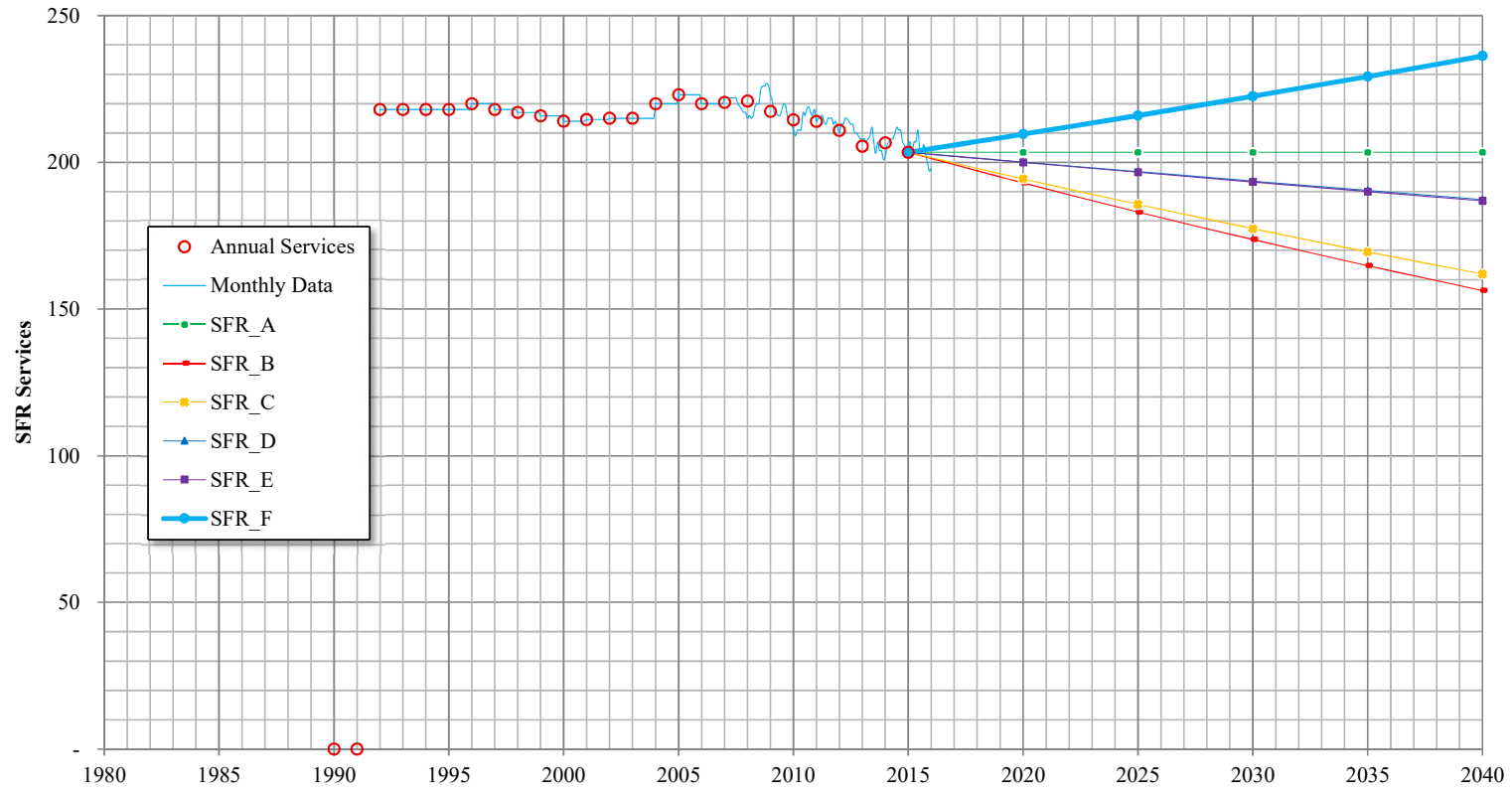
Customer Category	Selected Trend	Growth Rate	Actual Services				Projected Services					
			2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_F Master Plan Growth	0.60%	214	223	215	203	203	210	216	223	229	236
MFR												
COM	COM_F Master Plan Growth	0.60%	0	0	0	1	1	1	1	1	2	2
IND												
GOV												
OTH												
TOTAL	Average growth rate 2011-2040	0.61%	214	223	215	204	204	211	217	224	231	238

	Increase in Service from Base Year to 2040
SFR	33
MFR	0
COM	1
IND	0
GOV	0
OTH	0
TOTAL	34

California Water Service Company - Kern River Valley District (Lakeland)

Water Supply and Demand Analysis and Projections

SFR Historical & Projected Services

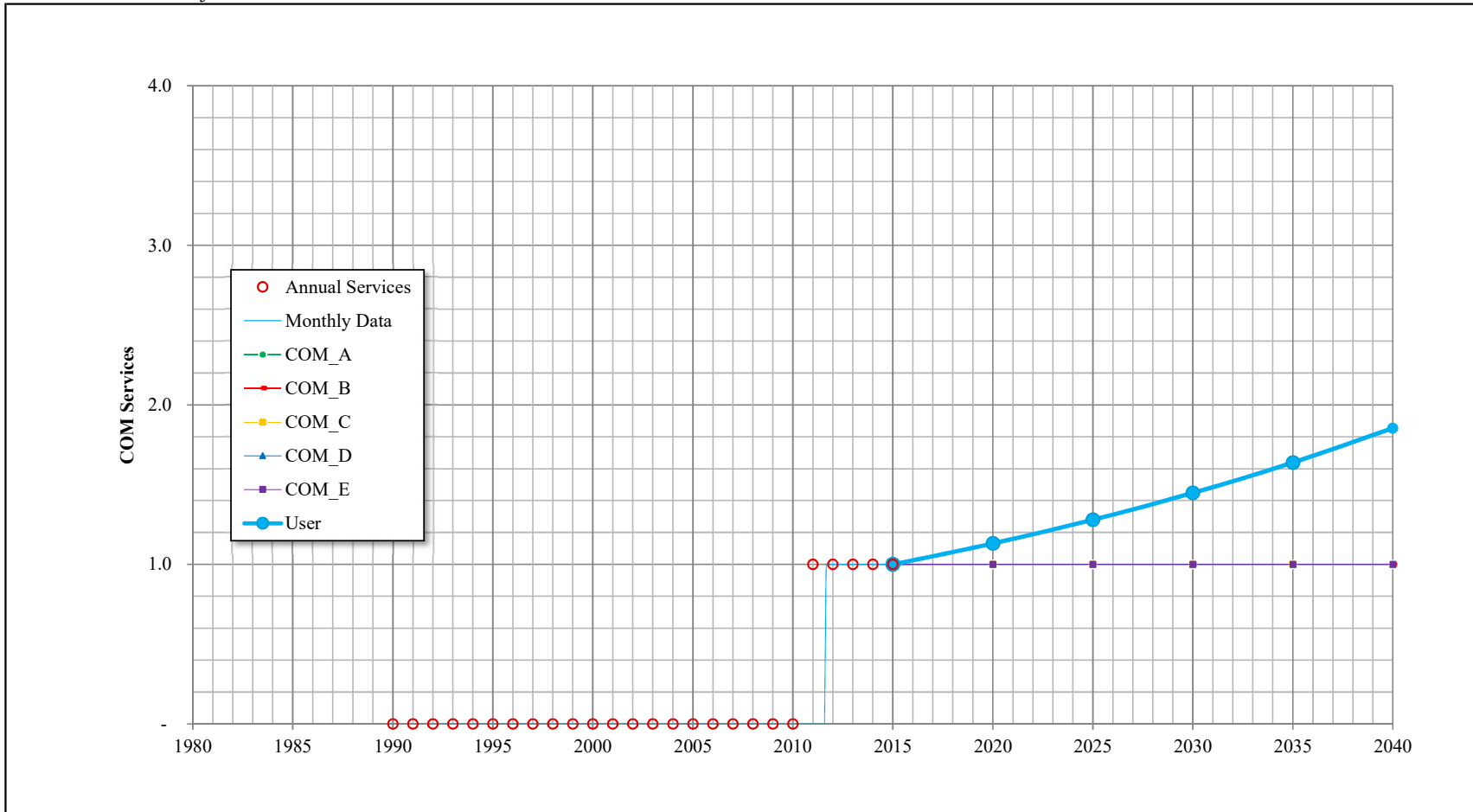


Customer Category	Trend	Growth Rate	Actual			Base Year 2015	Projected						
			2000	2005	2010		Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040	
			SFR				214	223	215	203	203	203	203
	SFR_A	Zero Growth Rate	0.00%				203	203	203	203	203	203	203
	SFR_B	5 Yr Avg.	-1.05%				203	203	193	183	174	165	156
	SFR_C	10 Yr Avg.	-0.91%				203	203	194	186	177	169	162
	SFR_D	15 Yr Avg.	-0.33%				203	203	200	197	194	190	187
	SFR_E	20 Yr Avg.	-0.34%				203	203	200	197	193	190	187
	> SFR_F	Master Plan Growth	0.60%				203	203	210	216	223	229	236

California Water Service Company - Kern River Valley District (Lakeland)

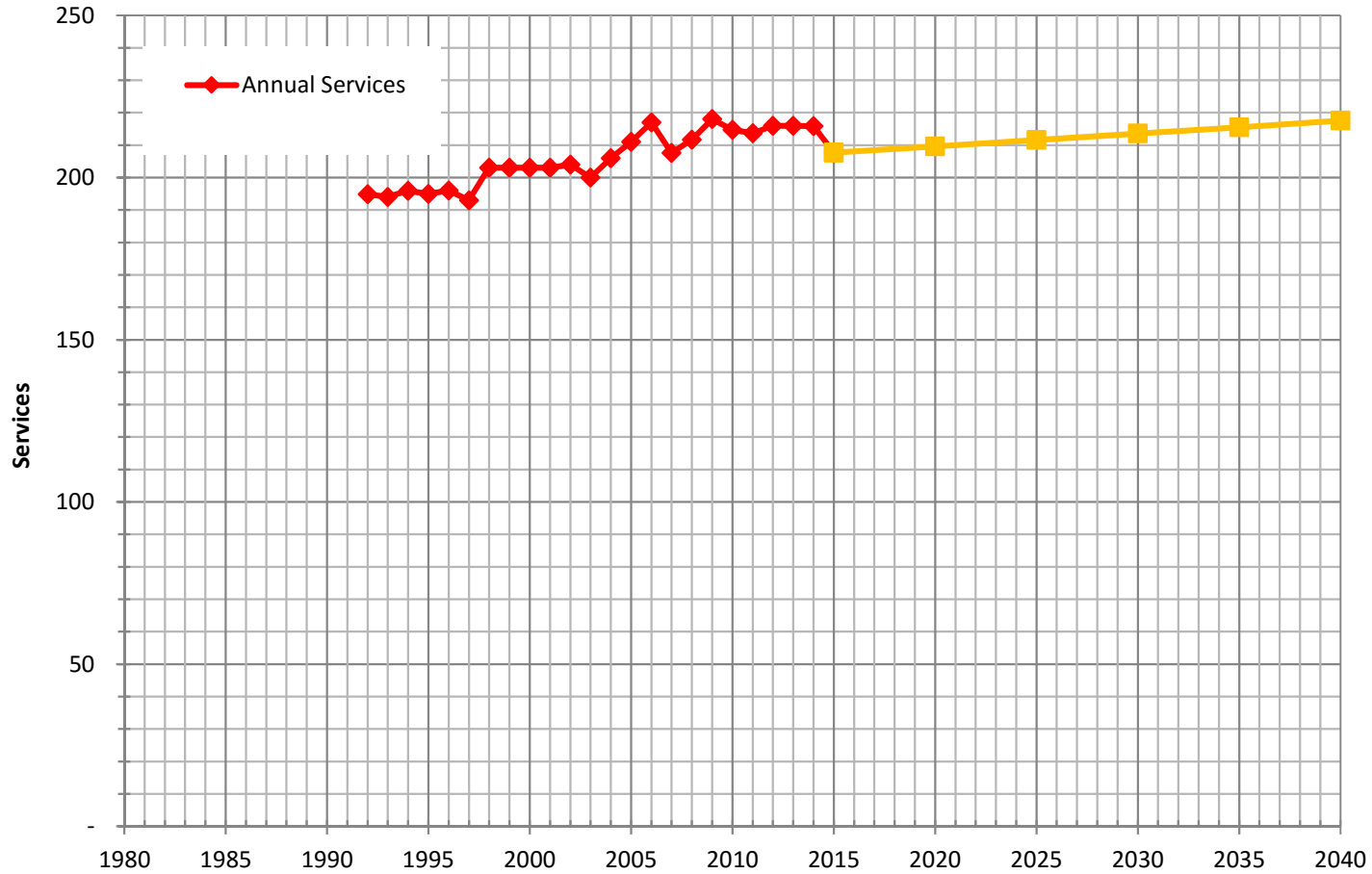
Water Supply and Demand Analysis and Projections

COM Historical & Projected Services



Customer Category	Trend	Growth Rate	Actual				Projected							
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040		
COM	>	COM_A	Zero Growth Rate	0.00%	0	0	0	1	1	1	1	1	1	1
		COM_B	5 Yr Avg.	0.00%				1	1	1	1	1	1	1
		COM_C	10 Yr Avg.	0.00%				1	1	1	1	1	1	1
		COM_D	15 Yr Avg.	0.00%				1	1	1	1	1	1	1
		COM_E	20 Yr Avg.	0.00%				1	1	1	1	1	1	1
	>	COM_F	User	2.50%				1.0	1.1	1.3	1.4	1.6	1.9	

Historical & Projected Services (Upper Bodfish)



California Water Service Company - Kern River Valley District (Upper Bodfish)
Water Supply and Demand Analysis and Projections
Actual & Projected Annual Average Services

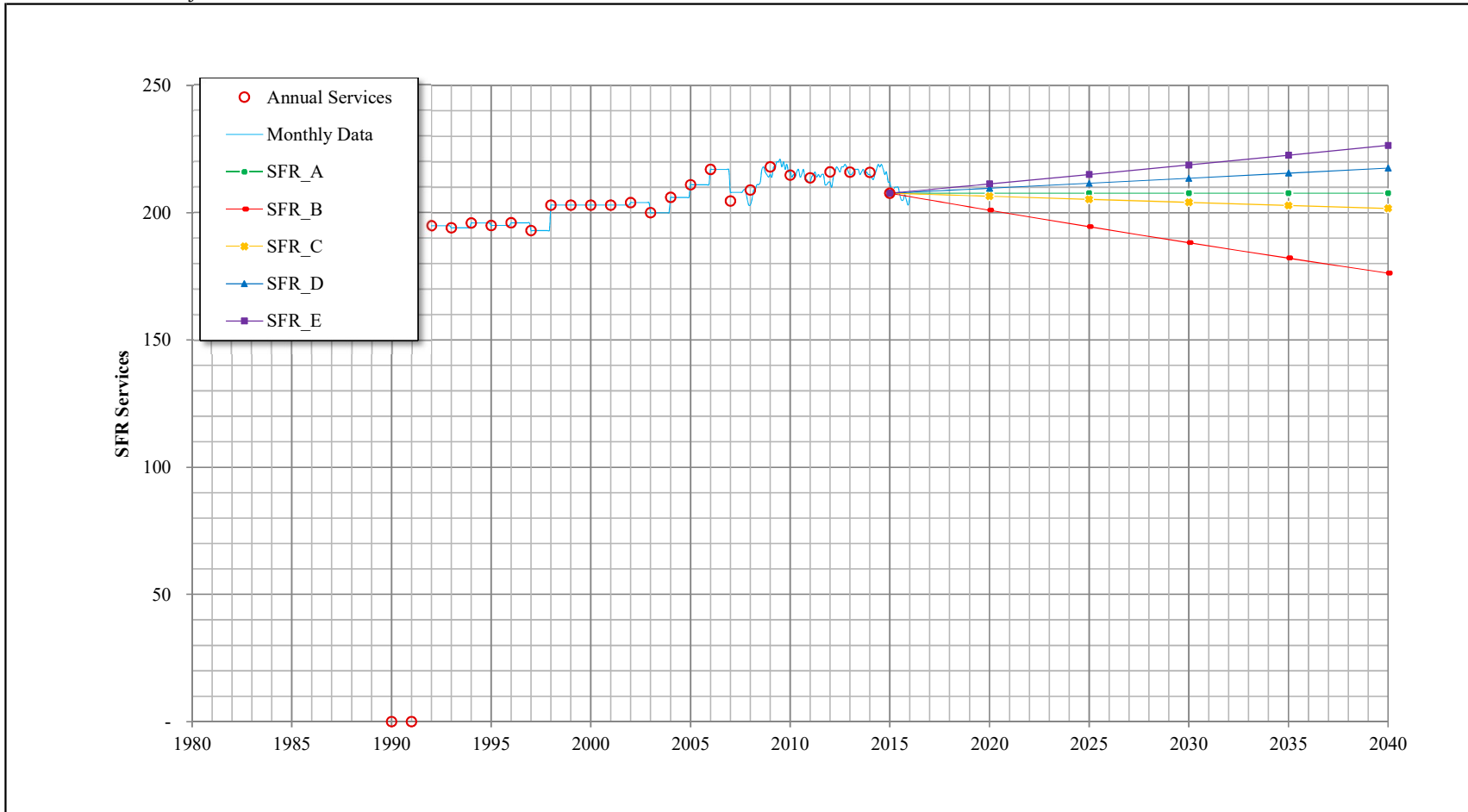
Customer Category	Selected Trend		Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_D	15 Yr Avg.	0.19%	203	211	215	208	208	210	212	214	216	218
MFR			0.00%	0	0	0	0	0	0	0	0	0	0
COM			0.00%	0	0	0	0	0	0	0	0	0	0
IND			0.00%	0	0	0	0	0	0	0	0	0	0
GOV			0.00%	0	0	0	0	0	0	0	0	0	0
OTH			0.00%	0	0	0	0	0	0	0	0	0	0
TOTAL	Average growth rate 2011-2040		0.19%	203	211	215	208	208	210	212	214	216	218

	Increase in Service from Base Year to 2040
SFR	10
MFR	0
COM	0
IND	0
GOV	0
OTH	0
TOTAL	10

California Water Service Company - Kern River Valley District (Upper Bodfish)

Water Supply and Demand Analysis and Projections

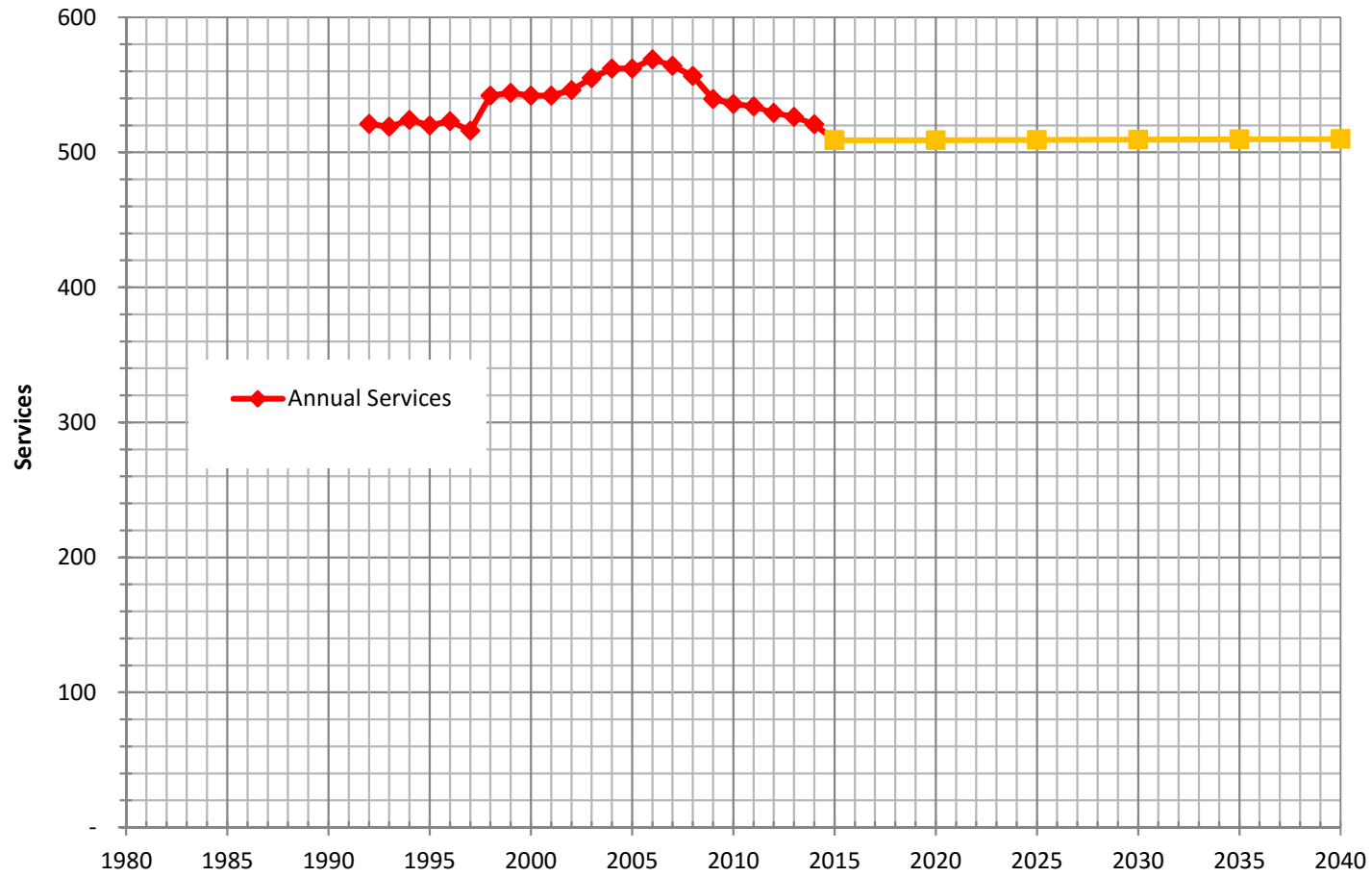
SFR Historical & Projected Services



Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
SFR			203	211	215	208	208	208	208	208	208	208
	SFR_A	Zero Growth Rate				208	208	208	208	208	208	208
	SFR_B	5 Yr Avg.				208	208	201	194	188	182	176
	SFR_C	10 Yr Avg.				208	208	206	205	204	203	202
	> SFR_D	15 Yr Avg.				208	208	210	212	214	216	218
	SFR_E	20 Yr Avg.				208	208	211	215	219	223	226

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Historical & Projected Services (Lower Bodfish)



California Water Service Company - Kern River Valley District (Lower Bodfish)
Water Supply and Demand Analysis and Projections
Actual & Projected Annual Average Services

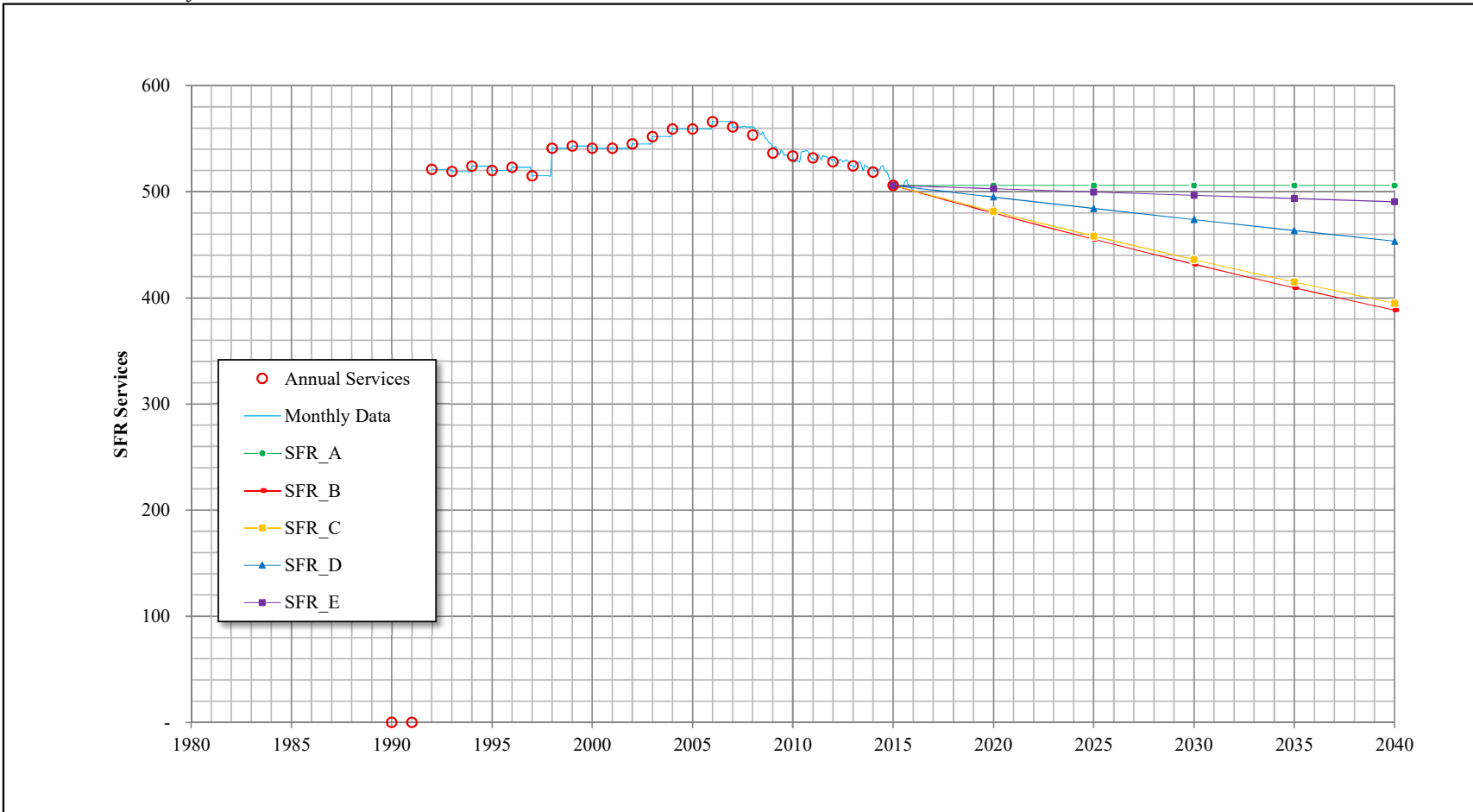
Customer Category	Selected Trend		Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_A	Zero Growth Rate	0.00%	541	559	534	506	506	506	506	506	506	506
MFR			0.00%	0	0	0	0	0	0	0	0	0	0
COM	COM_A	Zero Growth Rate	0.00%	0	2	1	2	2	2	2	2	2	2
IND			0.00%	0	0	0	0	0	0	0	0	0	0
GOV	GOV_F	User	2.50%	1	1	1	1	1	1	1	1	2	2
OTH			0.00%	0	0	0	0	0	0	0	0	0	0
TOTAL	Average growth rate 2011-2040		0.01%	542	562	536	509	509	509	509	509	510	510

	Increase in Service from Base Year to 2040
SFR	0
MFR	0
COM	0
IND	0
GOV	1
OTH	0
TOTAL	1

California Water Service Company - Kern River Valley District (Lower Bodfish)

Water Supply and Demand Analysis and Projections

SFR Historical & Projected Services

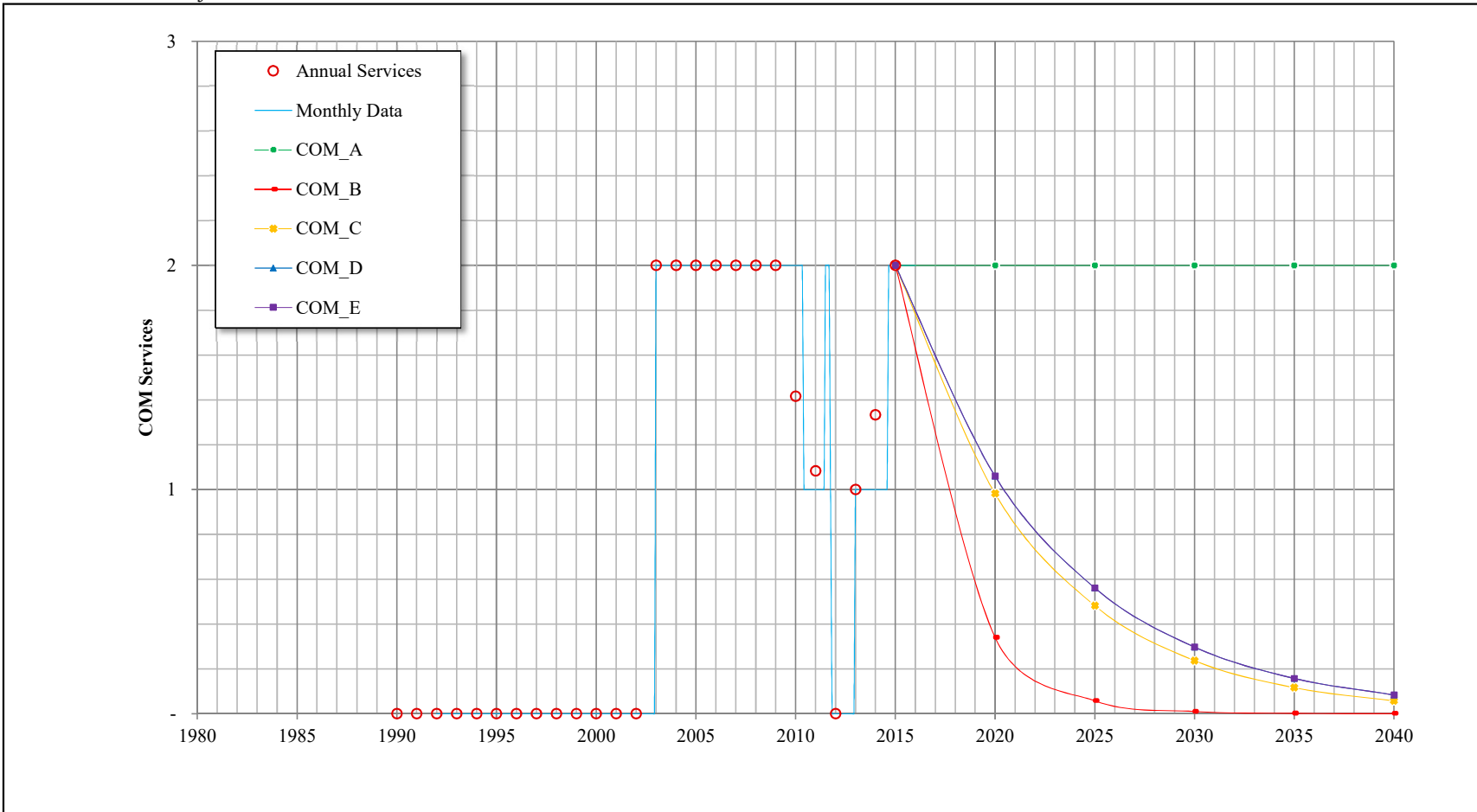


Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
SFR	>	SFR_A Zero Growth Rate	541	559	534	506	506	506	506	506	506	506
		SFR_B 5 Yr Avg.				506	506	480	455	432	409	388
		SFR_C 10 Yr Avg.				506	506	481	458	436	415	395
		SFR_D 15 Yr Avg.				506	506	495	484	474	463	453
		SFR_E 20 Yr Avg.				506	506	503	500	497	494	491

California Water Service Company - Kern River Valley District (Lower Bodfish)

Water Supply and Demand Analysis and Projections

COM Historical & Projected Services

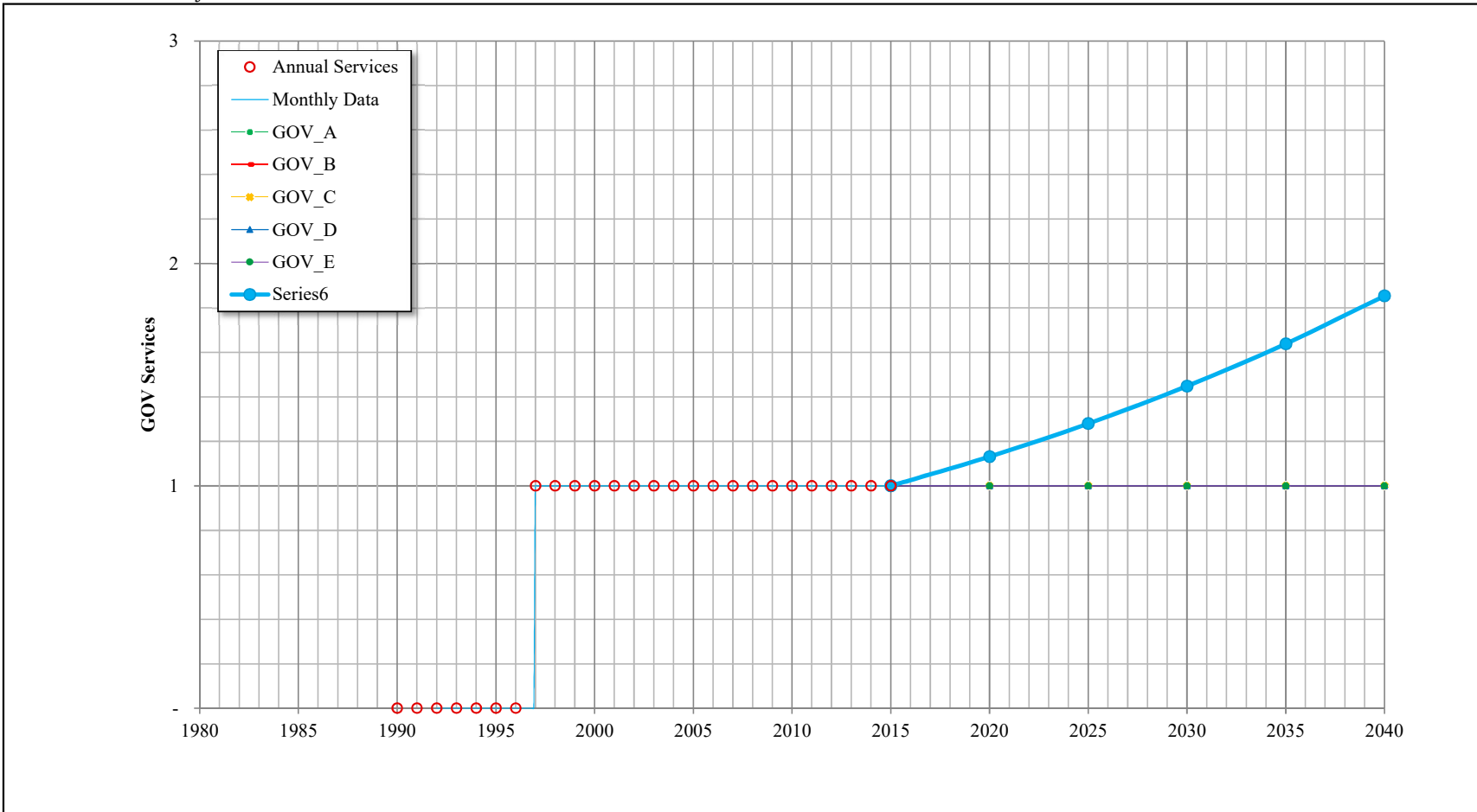


Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
COM	>	COM_A	0	2	1	2	2	2	2	2	2	2
		COM_B				2	2	0	0	0	0	0
		COM_C				2	2	1	0	0	0	0
		COM_D				2	2	1	1	0	0	0
		COM_E				2	2	1	1	0	0	0

California Water Service Company - Kern River Valley District (Lower Bodfish)

Water Supply and Demand Analysis and Projections

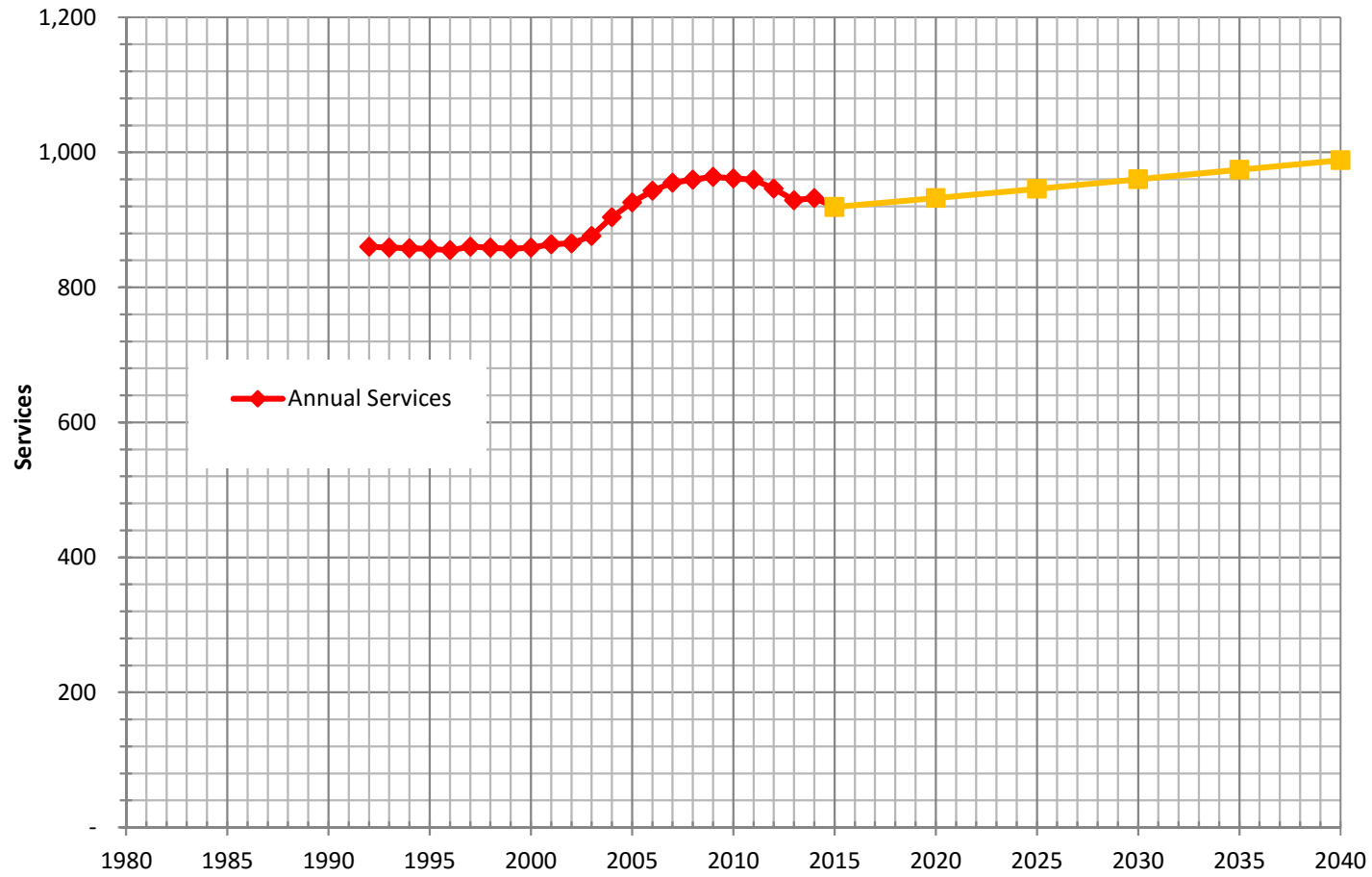
GOV Historical & Projected Services



Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
GOV			1	1	1	1	1.0	1.0	1.0	1.0	1.0	1.0
	GOV_A	Zero Growth Rate					1.0	1.0	1.0	1.0	1.0	1.0
	GOV_B	5 Yr Avg.					1.0	1.0	1.0	1.0	1.0	1.0
	GOV_C	10 Yr Avg.					1.0	1.0	1.0	1.0	1.0	1.0
	GOV_D	15 Yr Avg.					1.0	1.0	1.0	1.0	1.0	1.0
	GOV_E	20 Yr Avg.					1.0	1.0	1.0	1.0	1.0	1.0
	> GOV_F	User					1.0	1.1	1.3	1.4	1.6	1.9

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Historical & Projected Services (East Region)



California Water Service Company - Kern River Valley District (East Region)
Water Supply and Demand Analysis and Projections
Actual & Projected Annual Average Services

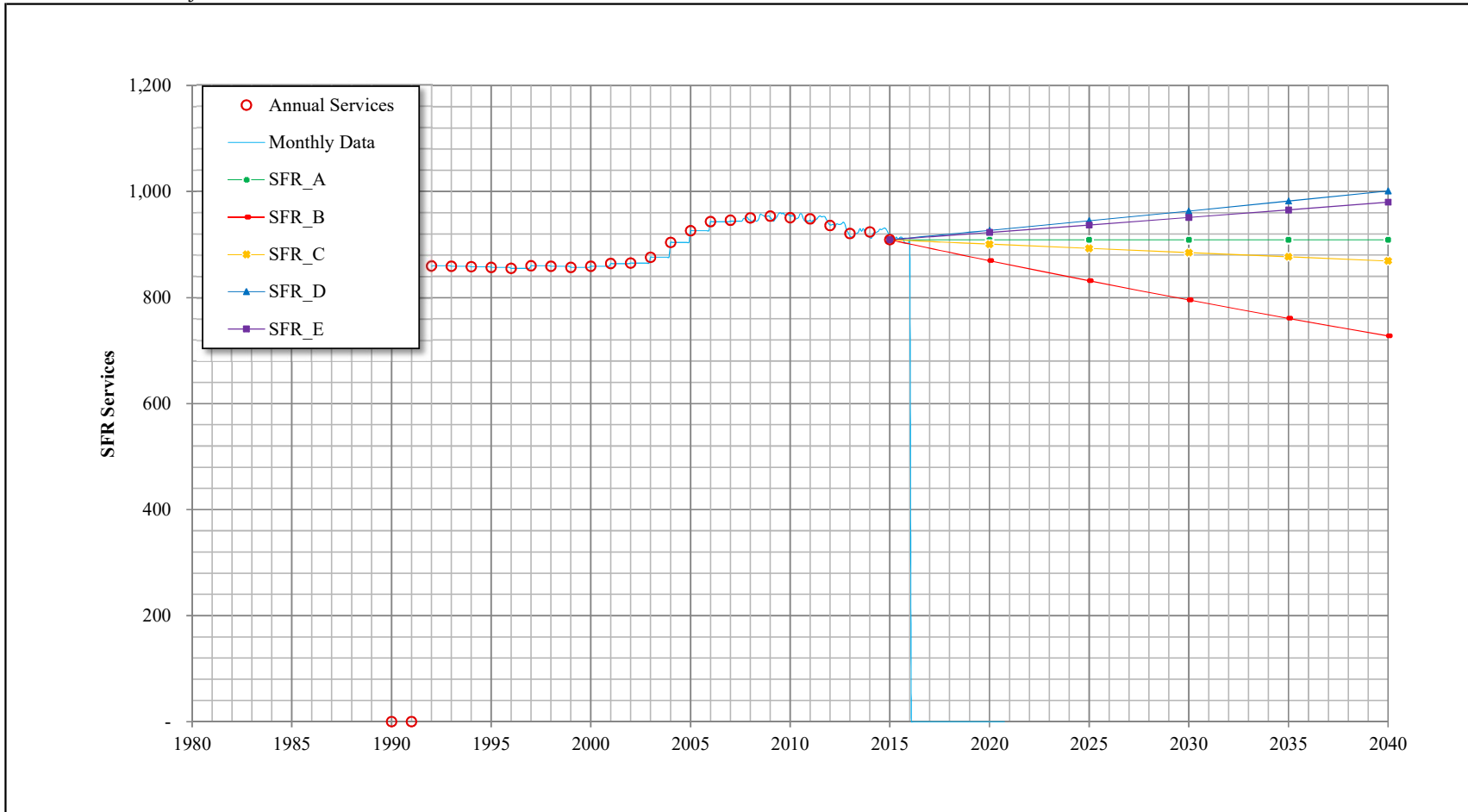
Customer Category	Selected Trend		Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_E	20 Yr Avg.	0.30%	859	926	951	909	909	923	937	951	965	980
MFR			0.00%	0	0	0	0	0	0	0	0	0	0
COM	COM_C	10 Yr Avg.	-0.81%	0	0	10	9	9	9	8	8	8	7
IND			0.00%	0	0	0	0	0	0	0	0	0	0
GOV	GOV_E	20 Yr Avg.	-0.67%	0	0	1	1	1	1	1	1	1	1
OTH			0.00%	0	0	0	0	0	0	0	0	0	0
TOTAL	Average growth rate 2011-2040		0.29%	859	926	961	919	919	932	946	960	974	988

	Increase in Service from Base Year to 2040
SFR	71
MFR	0
COM	-2
IND	0
GOV	0
OTH	0
TOTAL	69

California Water Service Company - Kern River Valley District (East Region)

Water Supply and Demand Analysis and Projections

SFR Historical & Projected Services

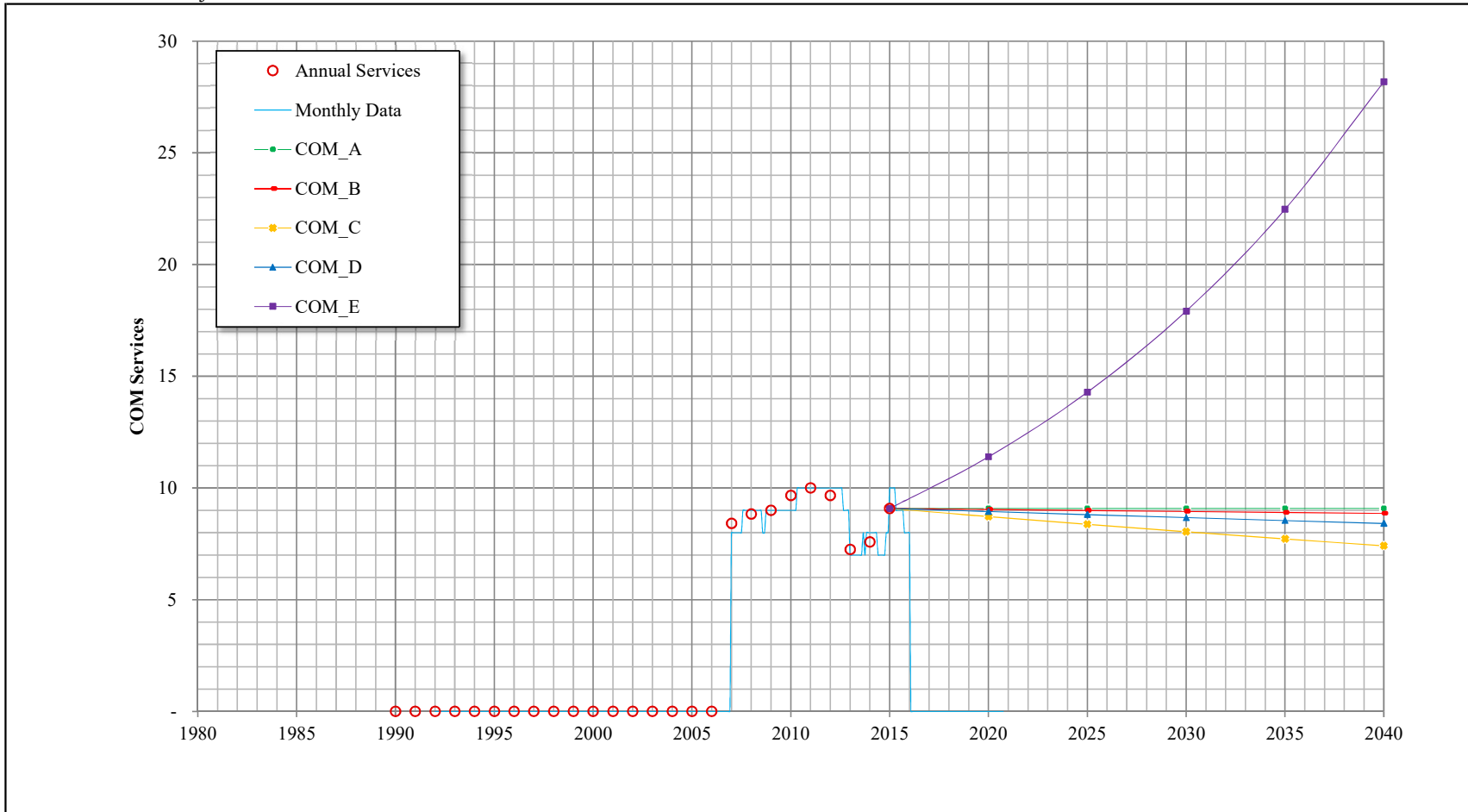


Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
SFR			859	926	951	909	909	909	909	909	909	909
	SFR_A	Zero Growth Rate				909	909	909	909	909	909	909
	SFR_B	5 Yr Avg.				909	909	869	832	795	761	728
	SFR_C	10 Yr Avg.				909	909	901	893	885	877	869
	SFR_D	15 Yr Avg.				909	909	927	945	963	982	1,001
	> SFR_E	20 Yr Avg.				909	909	923	937	951	965	980

California Water Service Company - Kern River Valley District (East Region)

Water Supply and Demand Analysis and Projections

COM Historical & Projected Services

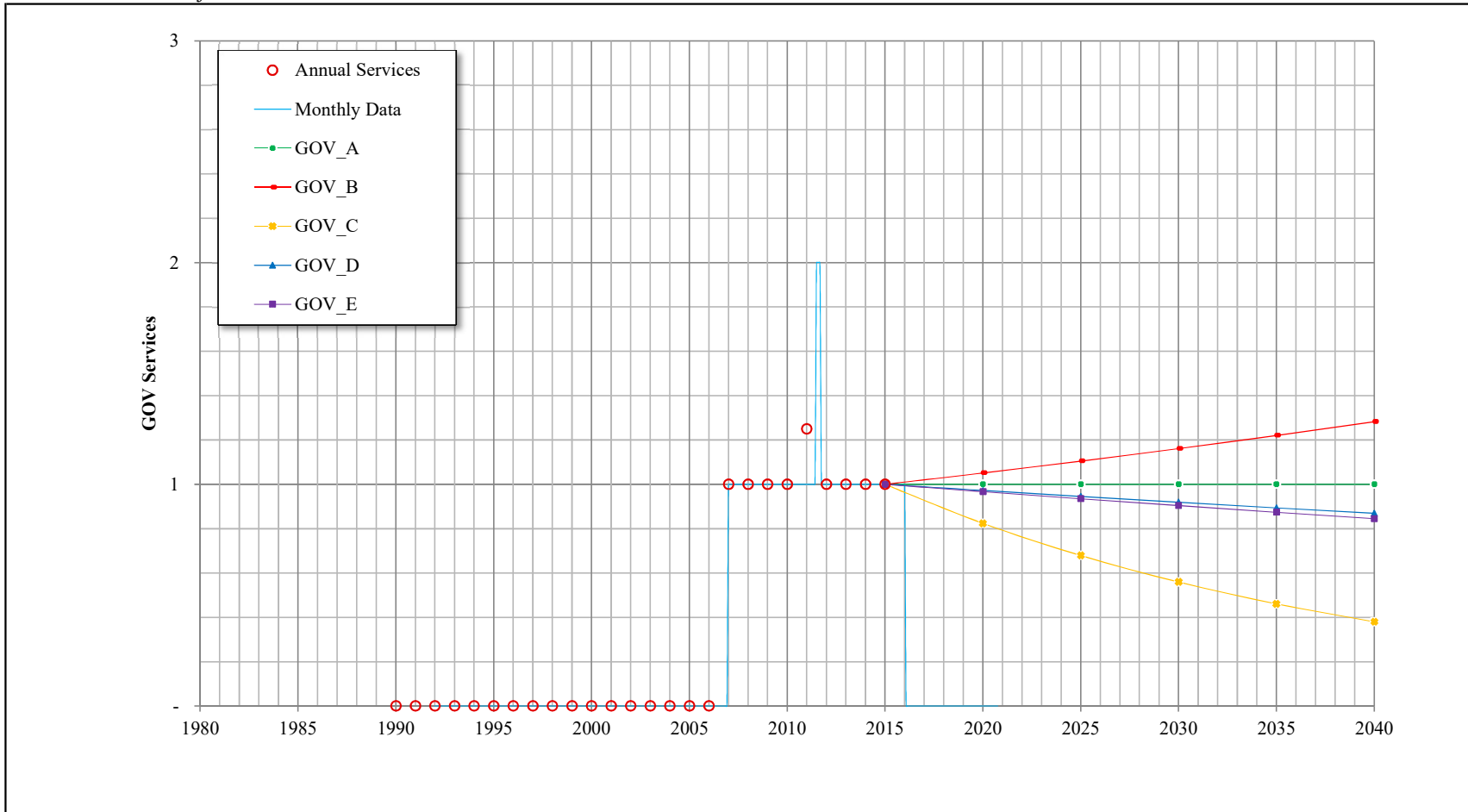


Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
COM	COM_A	Zero Growth Rate	0	0	10	9	9	9	9	9	9	9
	COM_B	5 Yr Avg.				9	9	9	9	9	9	9
>	COM_C	10 Yr Avg.				9	9	9	8	8	8	7
	COM_D	15 Yr Avg.				9	9	9	9	9	9	8
	COM_E	20 Yr Avg.				9	9	11	14	18	22	28

California Water Service Company - Kern River Valley District (East Region)

Water Supply and Demand Analysis and Projections

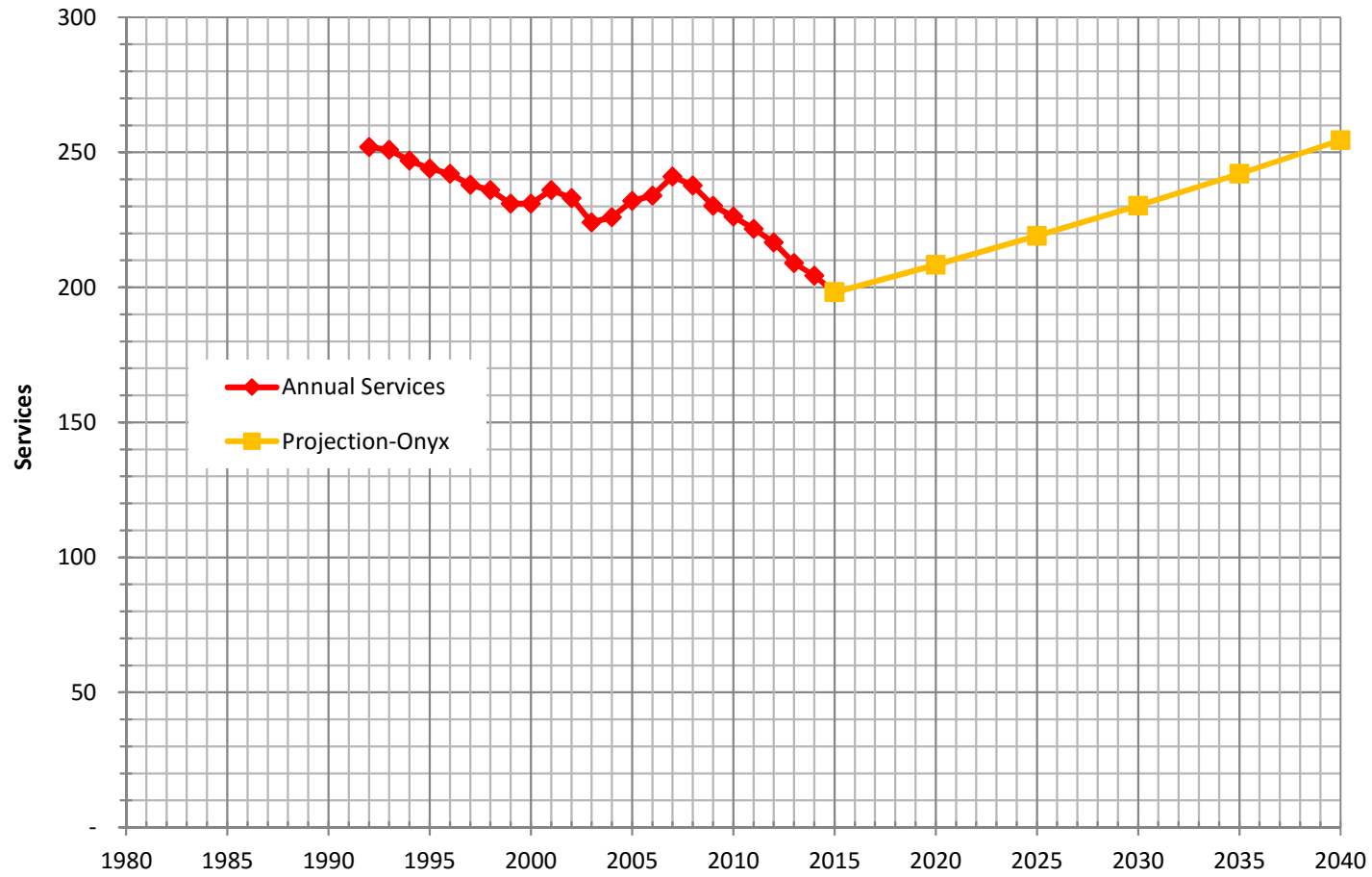
GOV Historical & Projected Services



Customer Category	Trend	Growth Rate	Actual				Projected					
			2000	2005	2010	Base Year 2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040
GOV			0	0	1	1	1.0	1.0	1.0	1.0	1.0	1.0
	GOV_A	Zero Growth Rate				1.0	1.0	1.0	1.0	1.0	1.0	1.0
	GOV_B	5 Yr Avg.				1.0	1.0	1.1	1.1	1.2	1.2	1.3
	GOV_C	10 Yr Avg.				1.0	1.0	0.8	0.7	0.6	0.5	0.4
	GOV_D	15 Yr Avg.				1.0	1.0	1.0	0.9	0.9	0.9	0.9
	> GOV_E	20 Yr Avg.				1.0	1.0	1.0	0.9	0.9	0.9	0.8

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Historical & Projected Services (Onyx)



California Water Service Company - Kern River Valley District (Onyx)
Water Supply and Demand Analysis and Projections
Actual & Projected Annual Average Services

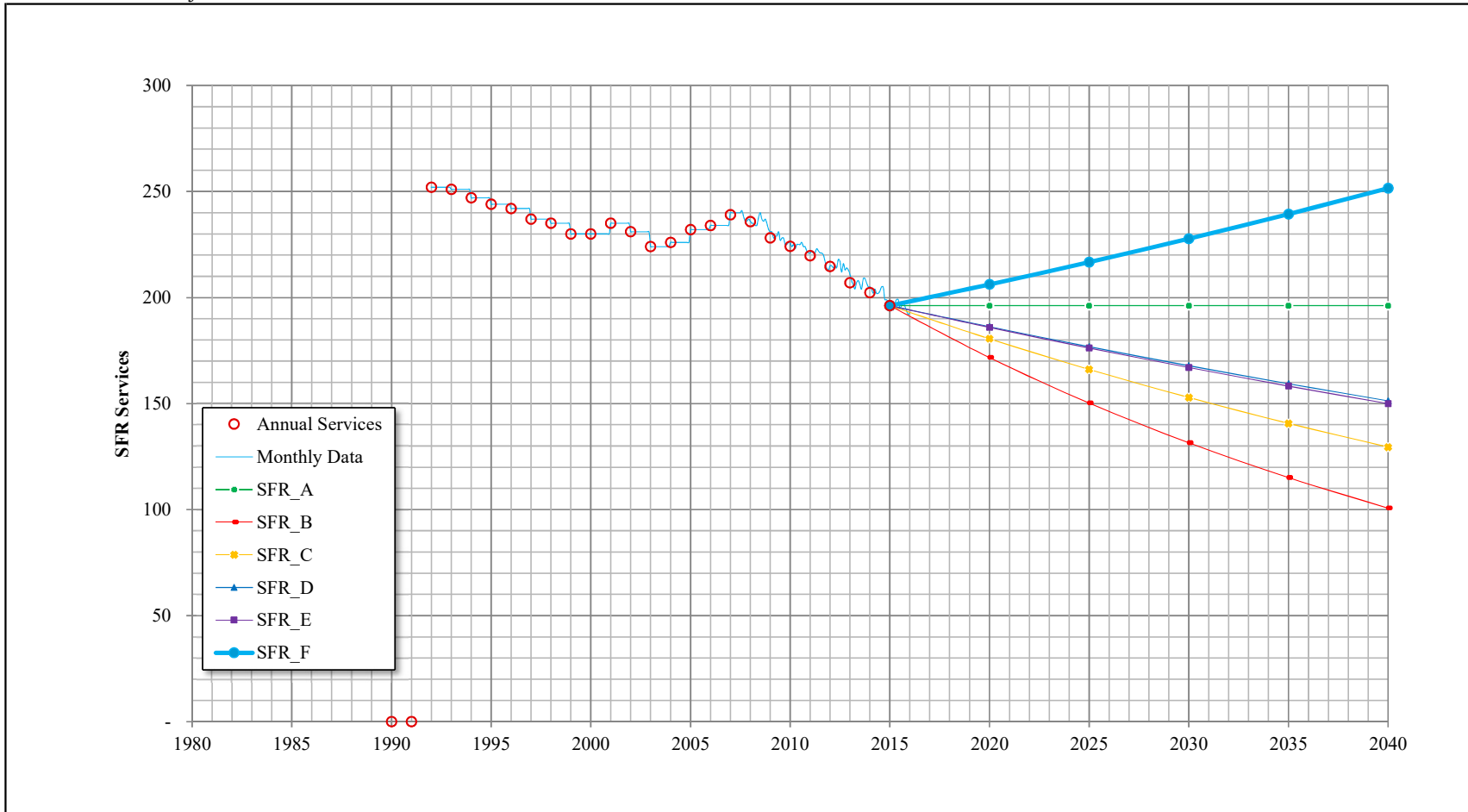
Customer Category	Selected Trend		Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_F	User	1.00%	230	232	224	196	196	206	217	228	239	252
MFR			0.00%	0	0	0	0	0	0	0	0	0	0
COM			0.00%	0	0	0	0	0	0	0	0	0	0
IND			0.00%	0	0	0	0	0	0	0	0	0	0
GOV	GOV_F	User	1.50%	0	0	2	2	2	2	2	3	3	3
OTH			0.00%	0	0	0	0	0	0	0	0	0	0
TOTAL	Average growth rate 2011-2040		1.01%	230	232	226	198	198	208	219	230	242	254

	Increase in Service from Base Year to 2040
SFR	55
MFR	0
COM	0
IND	0
GOV	1
OTH	0
TOTAL	56

California Water Service Company - Kern River Valley District (Onyx)

Water Supply and Demand Analysis and Projections

SFR Historical & Projected Services

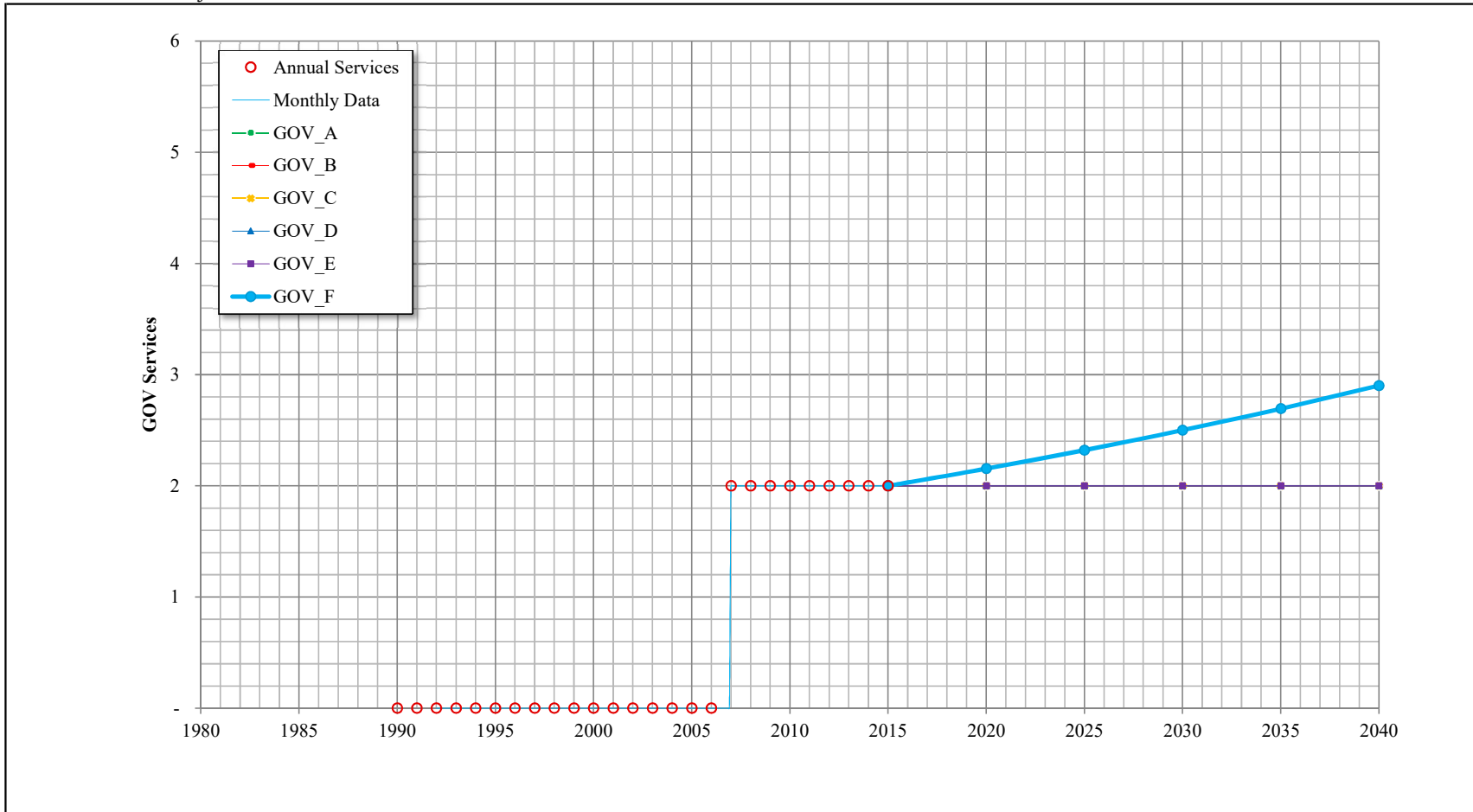


Customer Category	Trend	Growth Rate	Actual			Base Year 2015	Projected							
			2000	2005	2010		Services 2015	Services 2020	Services 2025	Services 2030	Services 2035	Services 2040		
SFR			230	232	224	196								
	SFR_A	Zero Growth Rate				196	196	196	196	196	196	196	196	196
	SFR_B	5 Yr Avg.				196	196	172	150	131	115	101		
	SFR_C	10 Yr Avg.				196	196	181	166	153	141	129		
	SFR_D	15 Yr Avg.				196	196	186	177	168	159	151		
	SFR_E	20 Yr Avg.				196	196	186	176	167	158	150		
	> SFR_F	User				196	196	206	217	228	239	252		

California Water Service Company - Kern River Valley District (Onyx)

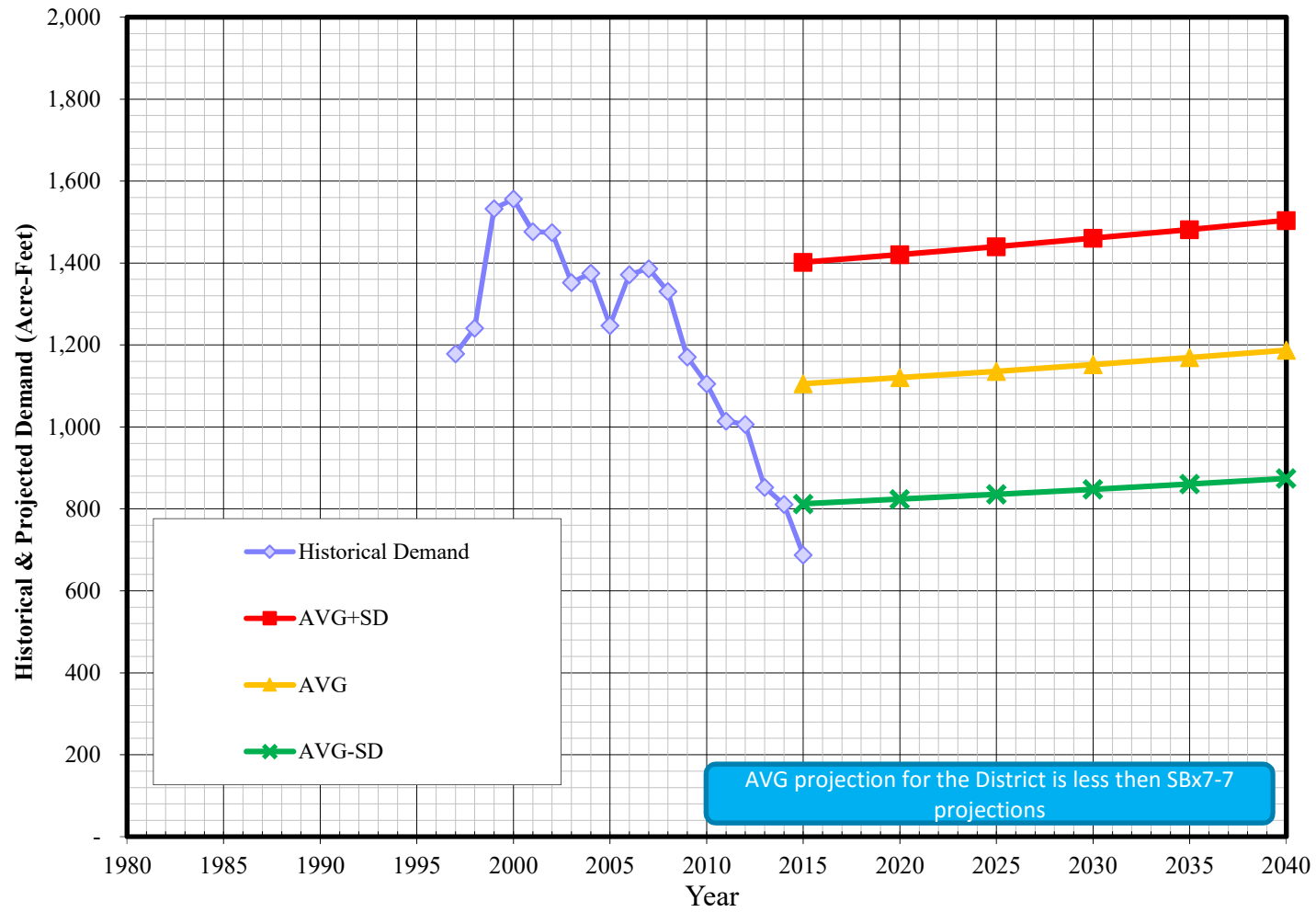
Water Supply and Demand Analysis and Projections

GOV Historical & Projected Services



Customer Category	Trend	Growth Rate	Actual			Base Year	Projected					
			2000	2005	2010		2015	Services 2015	Services 2020	Services 2025	Services 2030	Services 2035
GOV			0	0	2	2	2.0	2.0	2.0	2.0	2.0	2.0
	GOV_A	Zero Growth Rate				2.0	2.0	2.0	2.0	2.0	2.0	2.0
	GOV_B	5 Yr Avg.				2.0	2.0	2.0	2.0	2.0	2.0	2.0
	GOV_C	10 Yr Avg.				2.0	2.0	2.0	2.0	2.0	2.0	2.0
	GOV_D	15 Yr Avg.				2.0	2.0	2.0	2.0	2.0	2.0	2.0
	GOV_E	20 Yr Avg.				2.0	2.0	2.0	2.0	2.0	2.0	2.0
	> GOV_F	User				2.0	2.0	2.2	2.3	2.5	2.7	2.9

Historical & Projected Demand (KRV) (Consolidated)

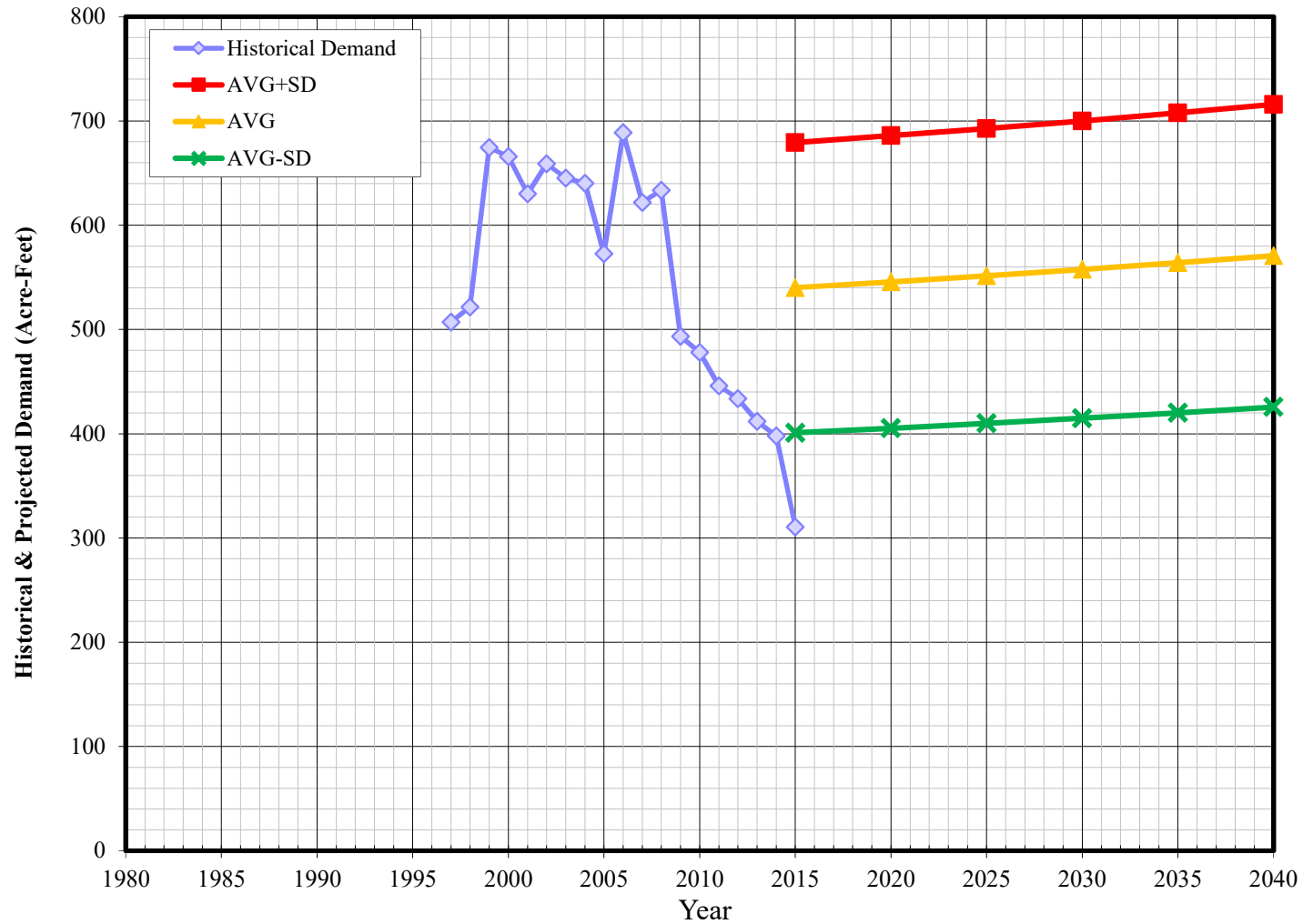


California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Actual & Projected Demand in Acre-Feet

Worksheet 9

Customer Category	Actual Demand (AFY)								Projected Demand (AFY)					
	1980	1985	1990	1995	2000	2005	2010	2015	2015	2020	2025	2030	2035	2040
SFR				909	1,218	1,002	792	510	987	996	1,005	1,015	1,024	1,034
									827	834	842	850	858	866
									667	673	679	685	691	698
MFR				20	23	18	12	4	21	22	23	23	24	25
									15	15	16	16	17	18
									8	9	9	9	10	10
COM				52	48	75	51	50	73	77	83	88	95	101
									63	68	72	77	83	89
									55	58	62	67	72	77
IND				0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0
									0	0	0	0	0	0
GOV				30	38	27	23	13	63	65	66	68	70	72
									54	56	57	59	60	62
									46	47	48	50	51	52
OTH				1	1	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0
									0	0	0	0	0	0
UAWF				0	211	125	225	111	258	261	263	266	269	272
									146	147	148	150	151	153
									36	37	37	37	37	38
TOTAL (AFY)				1,012	1,538	1,247	1,103	688	1,402	1,421	1,440	1,461	1,482	1,504
									1,105	1,120	1,136	1,152	1,169	1,187
									812	824	836	848	861	874
TOTAL (MGD)				0.903	1.373	1.114	0.984	0.614	1.251	1.268	1.286	1.304	1.323	1.343
									0.987	1.000	1.014	1.029	1.044	1.060
									0.725	0.735	0.746	0.757	0.769	0.781

Historical & Projected Demand (Northwest)

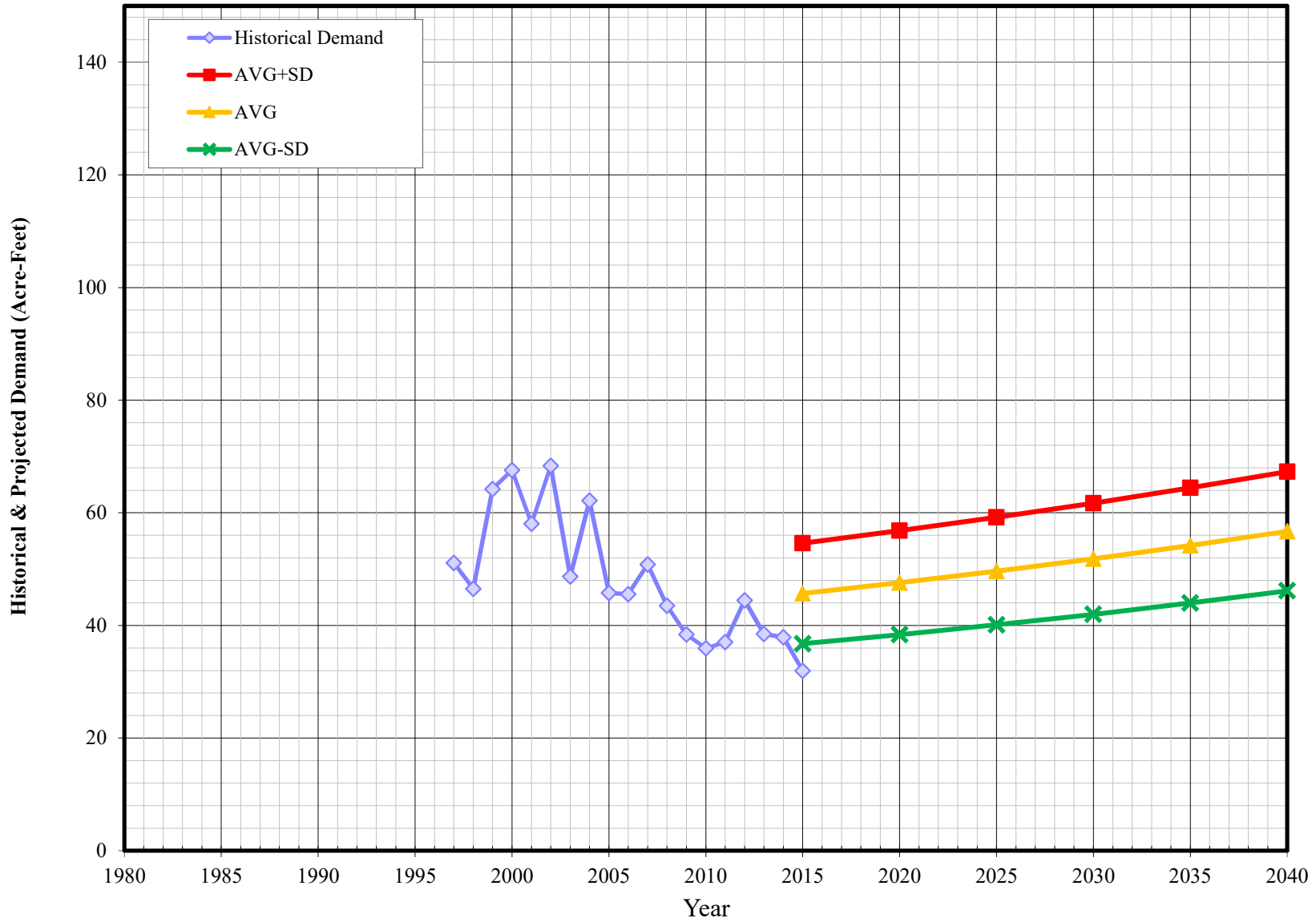


California Water Service Company - Kern River Valley District (Northwest)
Water Supply and Demand Analysis and Projections
Actual & Projected Demand in Acre-Feet

Worksheet 9

Customer Category	Actual Demand (AFY)								Projected Demand (AFY)					
	1980	1985	1990	1995	2000	2005	2010	2015	2015	2020	2025	2030	2035	2040
SFR				412	500	479	347	232	460	460	460	460	460	460
									380	380	380	380	380	380
									300	300	300	300	300	300
MFR				20	23	18	12	4	21	22	23	23	24	25
									15	15	16	16	17	18
									8	9	9	9	10	10
COM				52	48	72	49	46	65	69	74	78	84	89
									56	60	64	68	73	78
									48	51	55	58	62	66
IND				0	0	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0
									0	0	0	0	0	0
GOV				22	29	19	17	10	54	56	57	58	59	61
									48	49	50	52	53	54
									42	43	44	45	46	47
OTH				15	18	0	0	0	0	0	0	0	0	0
									0	0	0	0	0	0
									0	0	0	0	0	0
UAWF				-520	47	-16	51	18	79	79	80	80	80	81
									41	41	41	41	41	41
									2	2	2	2	2	2
TOTAL (AFY)				-1	665	572	475	311	679	686	693	700	708	716
									540	546	551	557	564	571
									401	405	410	415	420	426
TOTAL (MGD)				-0.001	0.594	0.511	0.424	0.277	0.606	0.612	0.618	0.625	0.632	0.639
									0.482	0.487	0.492	0.498	0.503	0.509
									0.358	0.362	0.366	0.370	0.375	0.380

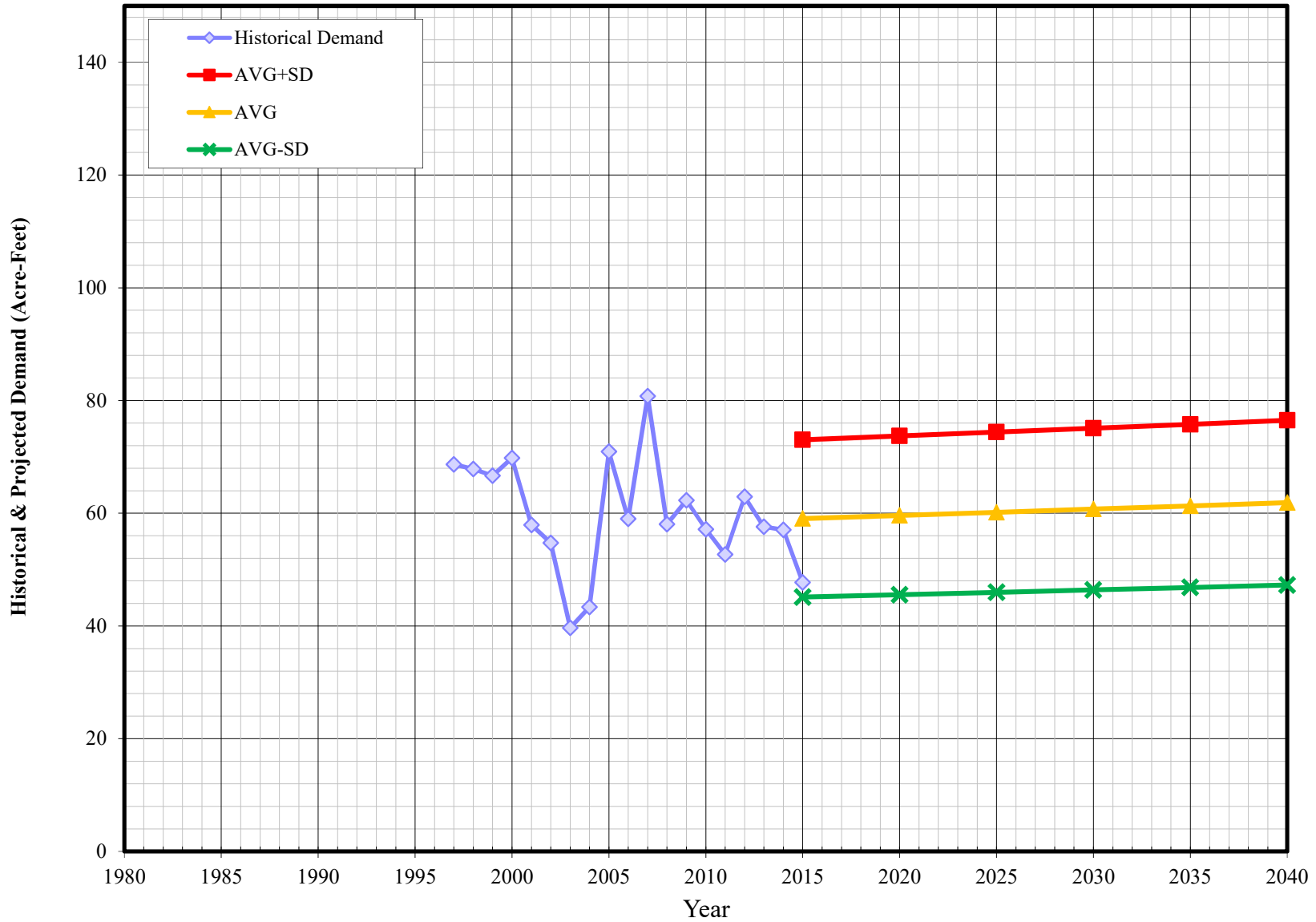
Historical & Projected Demand (Lakeland)



California Water Service Company - Kern River Valley District (Lakeland)
Water Supply and Demand Analysis and Projections
Actual & Projected Demand in Acre-Feet

Customer Category	Actual Demand (AFY)								Projected Demand (AFY)					
	1980	1985	1990	1995	2000	2005	2010	2015	2015	2020	2025	2030	2035	2040
SFR				54	73	41	32	26	39	41	42	43	44	46
									35	36	37	38	39	41
									30	31	32	33	34	35
MFR														
COM				0	0	0	0	3	6	6	7	8	9	10
									5	6	7	8	9	10
									5	6	6	7	8	9
IND														
GOV														
OTH														
UAWF				-54	-5	5	4	4	10	10	10	11	11	11
									6	6	6	6	6	6
									1	1	1	2	2	2
TOTAL (AFY)				0	68	46	36	32	55	57	59	62	64	67
									46	48	50	52	54	57
									37	38	40	42	44	46
TOTAL (MGD)				0.000	0.060	0.041	0.032	0.029	0.049	0.051	0.053	0.055	0.058	0.060
									0.041	0.042	0.044	0.046	0.048	0.051
									0.033	0.034	0.036	0.037	0.039	0.041

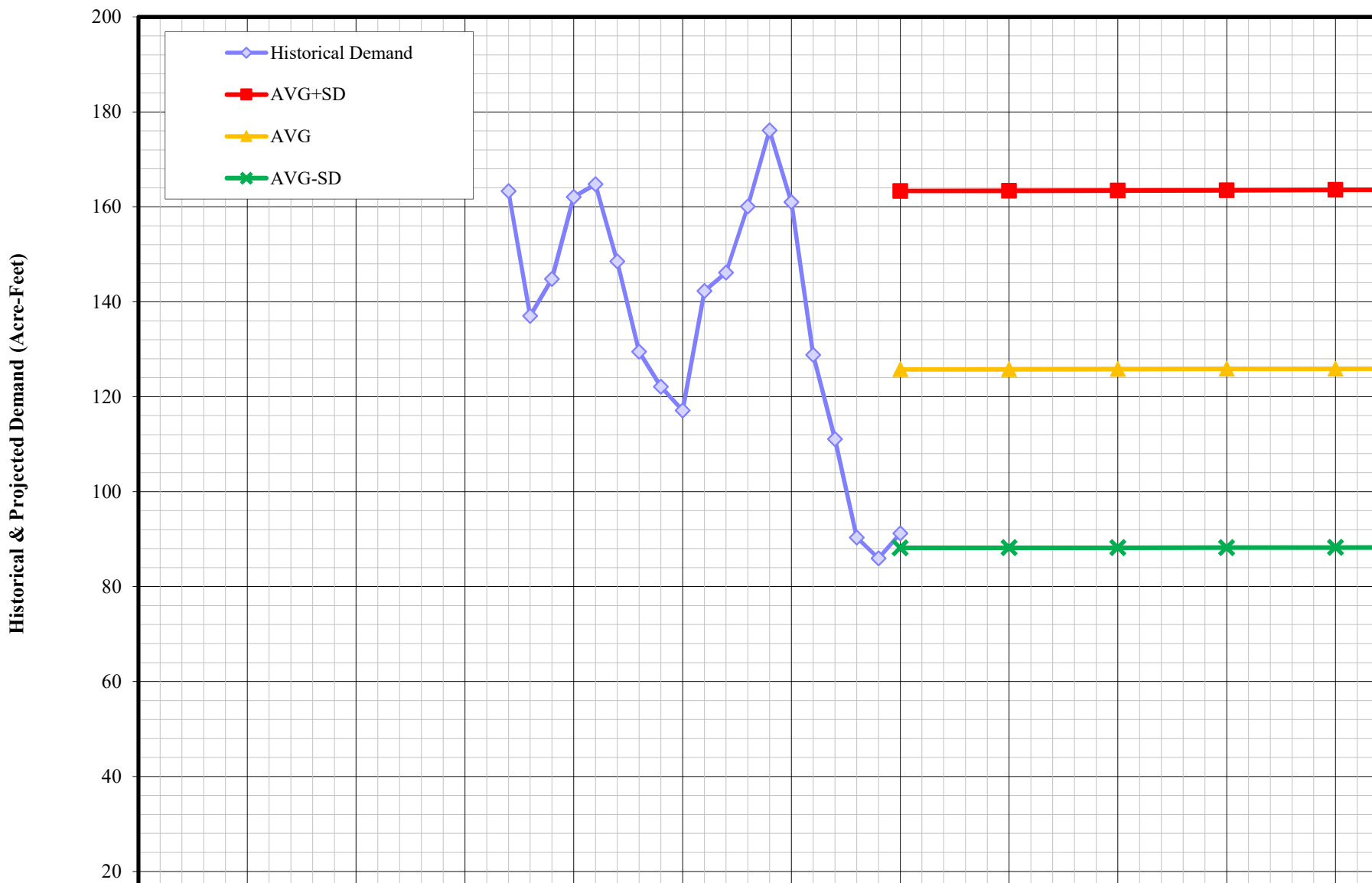
Historical & Projected Demand (Upper Bodfish)



California Water Service Company - Kern River Valley District (Upper Bodfish)
Water Supply and Demand Analysis and Projections
Actual & Projected Demand in Acre-Feet

Customer Category	Actual Demand (AFY)								Projected Demand (AFY)					
	1980	1985	1990	1995	2000	2005	2010	2015	2015	2020	2025	2030	2035	2040
SFR				51	56	48	41	27	49	49	50	50	51	51
									42	43	43	44	44	44
									36	36	37	37	37	38
MFR														
COM														
IND														
GOV														
OTH														
UAWF				-51	14	23	16	21	24	24	25	25	25	25
									17	17	17	17	17	17
									9	9	9	9	10	10
TOTAL (AFY)				0	70	71	57	48	73	74	74	75	76	76
									59	60	60	61	61	62
									45	46	46	46	47	47
TOTAL (MGD)				0.000	0.062	0.063	0.051	0.043	0.065	0.066	0.066	0.067	0.068	0.068
									0.053	0.053	0.054	0.054	0.055	0.055
									0.040	0.041	0.041	0.041	0.042	0.042

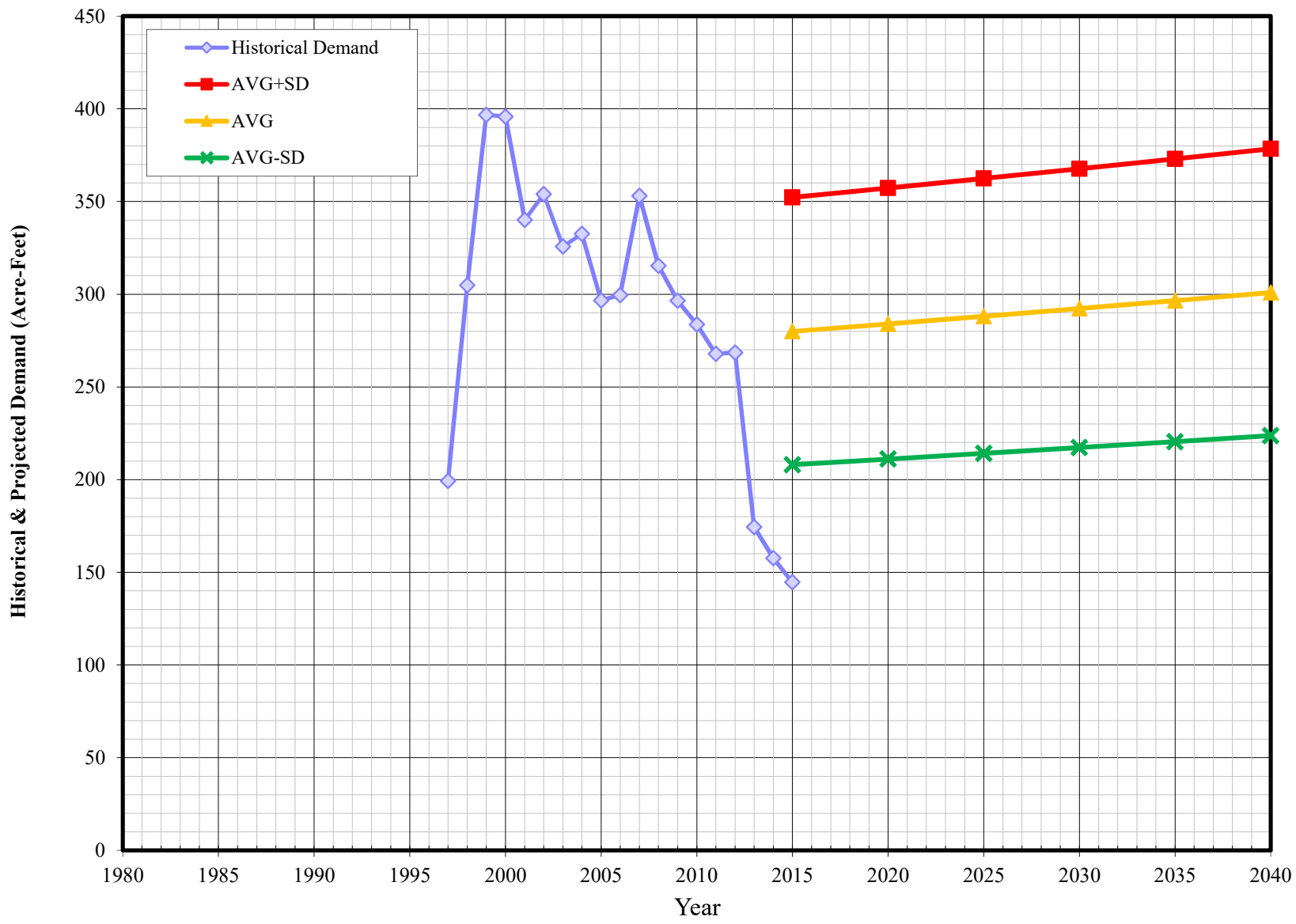
Historical & Projected Demand (Lower Bodfish)



California Water Service Company - Kern River Valley District (Lower Bodfish)
Water Supply and Demand Analysis and Projections
Actual & Projected Demand in Acre-Feet

Customer Category	Actual Demand (AFY)								Projected Demand (AFY)					
	1980	1985	1990	1995	2000	2005	2010	2015	2015	2020	2025	2030	2035	2040
SFR				112	124	107	83	56	99	99	99	99	99	99
									86	86	86	86	86	86
									74	74	74	74	74	74
MFR														
COM							0	0	0.30	0.30	0.30	0.30	0.30	0.30
									0.17	0.17	0.17	0.17	0.17	0.17
									0.03	0.03	0.03	0.03	0.03	0.03
IND														
GOV				0.0	0.0	0.0	0.3	0.1	0.23	0.26	0.29	0.33	0.37	0.42
									0.16	0.18	0.20	0.23	0.26	0.29
									0.08	0.10	0.11	0.12	0.14	0.16
OTH														
UAWF				-112	38	10	77	35	64	64	64	64	64	64
									39	39	39	39	39	39
									14	15	15	15	15	15
TOTAL (AFY)				0	162	117	161	91	163	163	163	163	164	164
									126	126	126	126	126	126
									88	88	88	88	88	88
TOTAL (MGD)				0.000	0.145	0.105	0.144	0.081	0.146	0.146	0.146	0.146	0.146	0.146
									0.112	0.112	0.112	0.112	0.112	0.112
									0.079	0.079	0.079	0.079	0.079	0.079

Historical & Projected Demand (East Region)

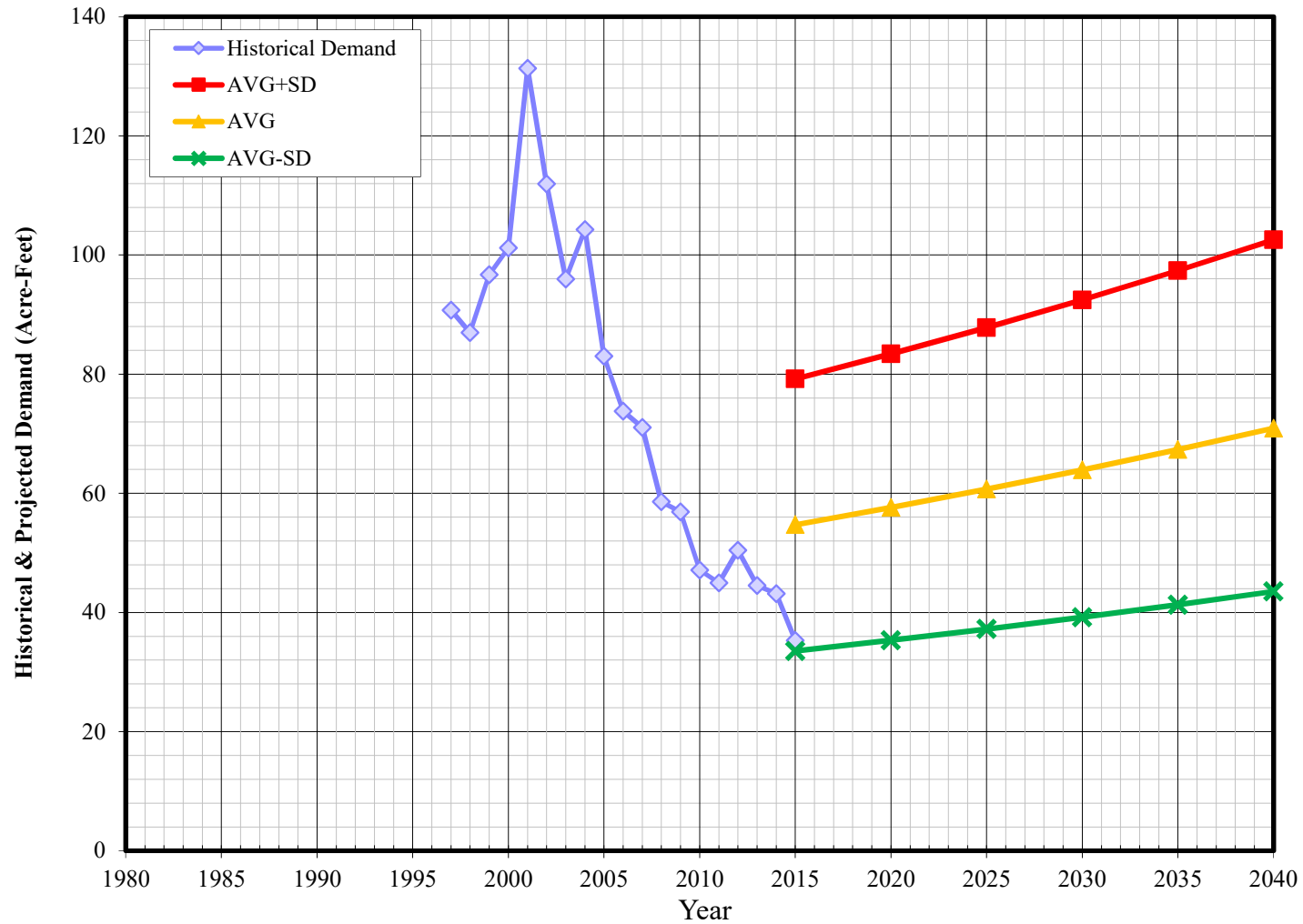


California Water Service Company - Kern River Valley District (East Region)
Water Supply and Demand Analysis and Projections
Actual & Projected Demand in Acre-Feet

Worksheet 9

Customer Category	Actual Demand (AFY)								Projected Demand (AFY)					
	1980	1985	1990	1995	2000	2005	2010	2015	2015	2020	2025	2030	2035	2040
SFR				151	331	268	222	204	281	286	290	294	299	303
									239	243	246	250	254	258
									197	200	203	206	209	212
MFR														
COM				0.0	0.0	2.2	1.5	0.9	1.88	1.81	1.74	1.67	1.60	1.54
									1.50	1.44	1.38	1.33	1.28	1.23
									1.50	1.44	1.38	1.33	1.28	1.23
IND														
GOV				0.0	0.0	1.0	1.2	1.7	2.70	2.62	2.53	2.44	2.36	2.29
									1.70	1.64	1.59	1.53	1.48	1.43
									0.69	0.67	0.65	0.63	0.60	0.58
OTH														
UAWF				-151	64	26	59	62	66	67	68	69	70	71
									38	38	39	39	40	41
									9	9	9	9	10	10
TOTAL (AFY)				0	396	297	284	269	352	357	362	368	373	378
									280	284	288	292	297	301
									208	211	214	217	220	224
TOTAL (MGD)				0.000	0.353	0.265	0.253	0.240	0.314	0.319	0.324	0.328	0.333	0.338
									0.250	0.254	0.257	0.261	0.265	0.269
									0.186	0.188	0.191	0.194	0.197	0.200

Historical & Projected Demand (Onyx)

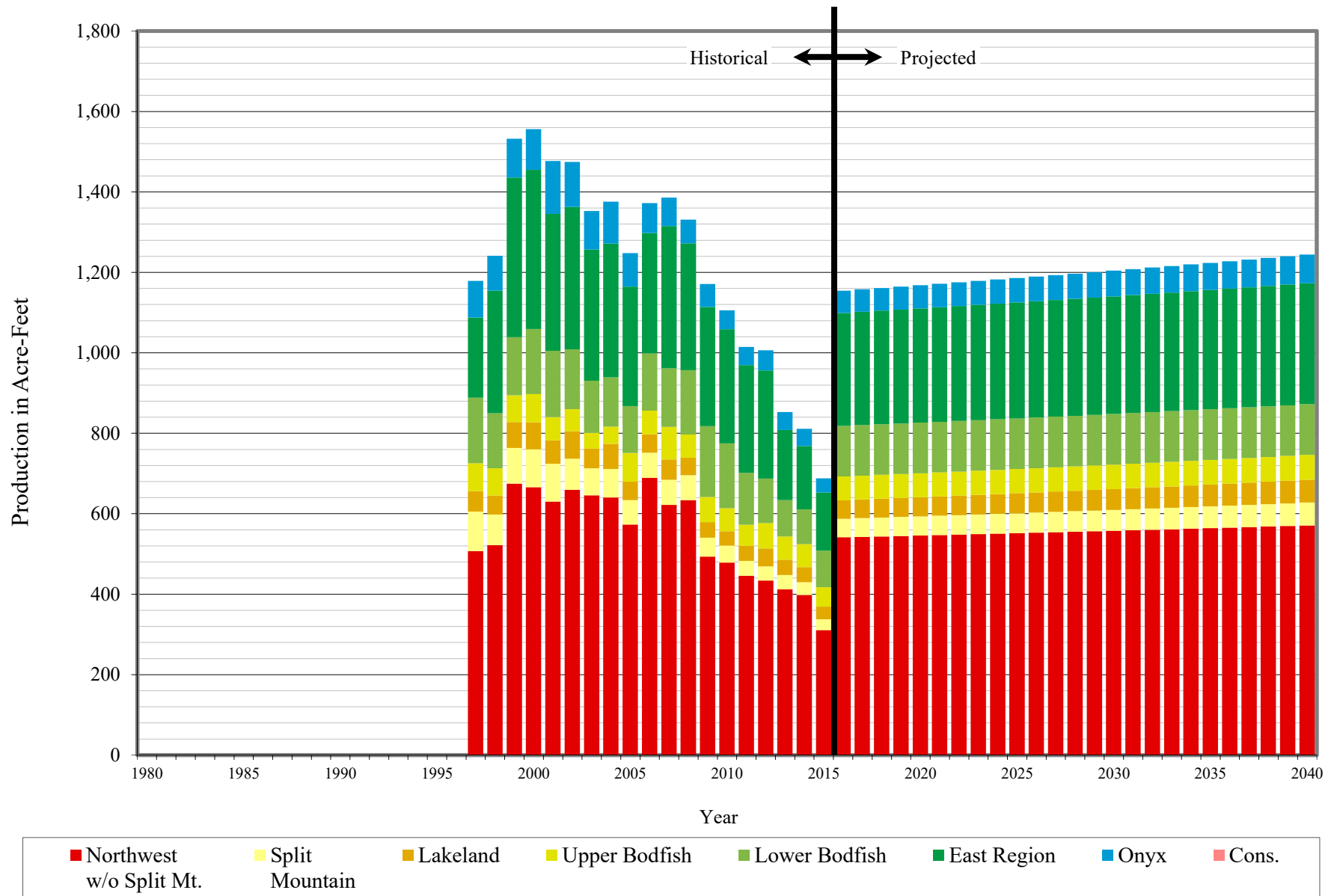


California Water Service Company - Kern River Valley District (Onyx)
Water Supply and Demand Analysis and Projections
Actual & Projected Demand in Acre-Feet

Worksheet 9

Customer Category	Actual Demand (AFY)								Projected Demand (AFY)					
	1980	1985	1990	1995	2000	2005	2010	2015	2015	2020	2025	2030	2035	2040
SFR				84	83	59	45	27	59	62	65	68	72	75
									45	47	49	52	54	57
									30	32	34	35	37	39
MFR														
COM														
IND														
GOV				8.7	8.3	7.0	4.3	1.8	5.69	6.12	6.60	7.11	7.66	8.25
									4.38	4.72	5.08	5.48	5.90	6.35
									3.07	3.31	3.57	3.84	4.14	4.46
OTH														
UAWF				-93	9	17	-2	6	15	16	16	17	18	19
									6	6	6	7	7	7
									0	0	0	0	0	0
TOTAL (AFY)				0	100	83	47	35	79	83	88	92	97	103
									55	58	61	64	67	71
									34	35	37	39	41	44
TOTAL (MGD)				0.000	0.090	0.074	0.042	0.031	0.071	0.074	0.078	0.083	0.087	0.092
									0.049	0.051	0.054	0.057	0.060	0.063
									0.030	0.032	0.033	0.035	0.037	0.039

Historical and Projected Distribution of Demand by Source



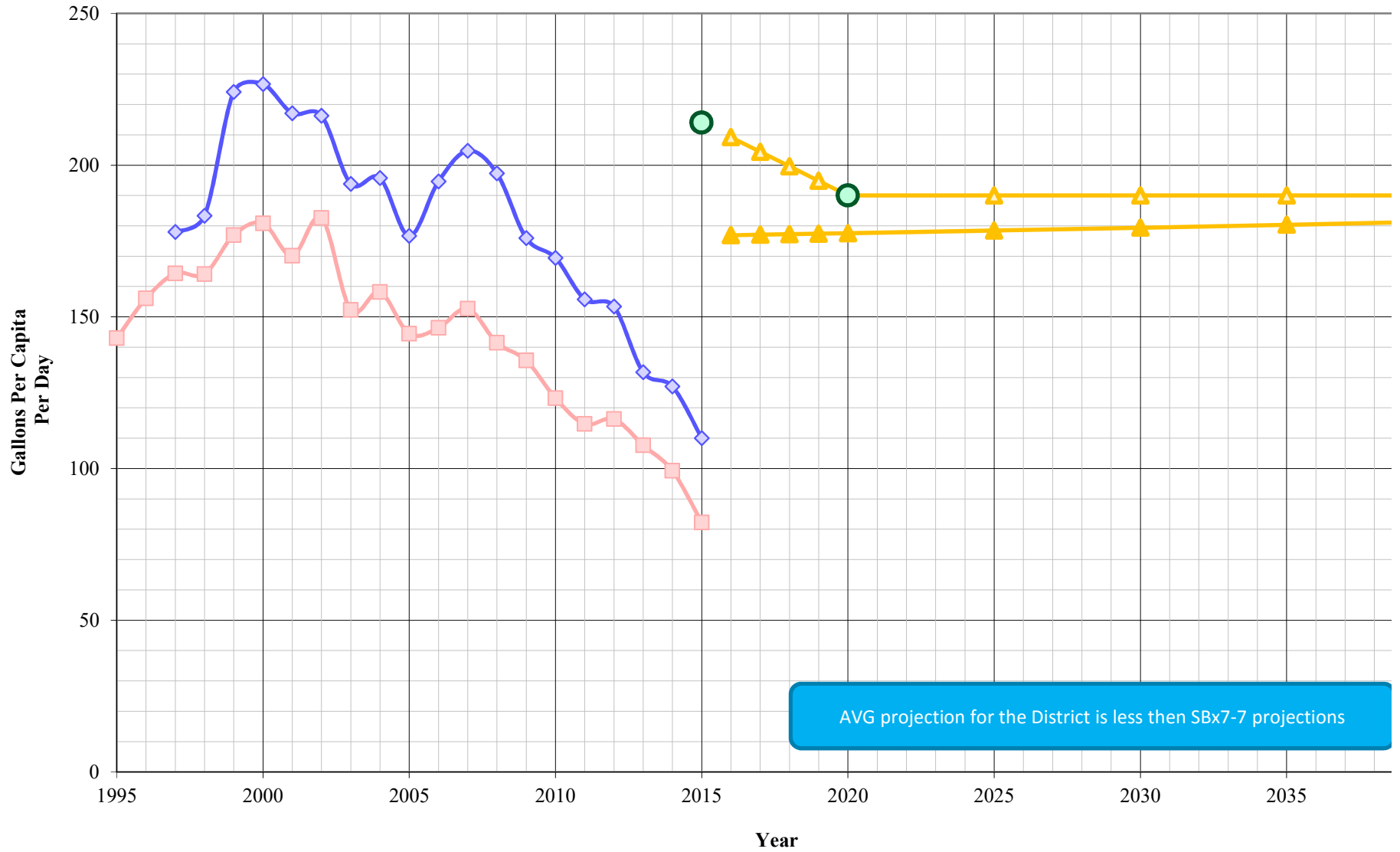
California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Historical and Projected Distribution of Demand by Source

Worksheet 10

Year	Northwest w/o Split Mt. AFY	Split Mountain AFY	Lakeland AFY	Upper Bodfish AFY	Lower Bodfish AFY	East Region AFY	Onyx AFY	Cons. AFY	District Total AFY
1980	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-
1986	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-
1990	-	-	-	-	-	-	-	-	-
1991	-	-	-	-	-	-	-	-	-
1992	-	-	-	-	-	-	-	-	-
1993	-	-	-	-	-	-	-	-	-
1994	-	-	-	-	-	-	-	-	-
1995	-	-	-	-	-	-	-	-	-
1996	-	-	-	-	-	-	-	-	-
1997	507	98	51	69	163	199	91	-	1,178
1998	521	77	47	68	137	305	87	-	1,241
1999	675	89	64	67	145	397	97	-	1,532
2000	666	94	68	70	162	396	101	-	1,556
2001	630	94	58	58	165	340	131	-	1,476
2002	659	78	68	55	149	354	112	-	1,474
2003	645	67	49	40	129	326	96	-	1,352
2004	640	71	62	43	122	333	104	-	1,375
2005	573	61	46	71	117	297	83	-	1,247
2006	689	63	46	59	142	300	74	-	1,372
2007	622	62	51	81	146	353	71	-	1,386
2008	634	62	43	58	160	315	59	-	1,331
2009	493	47	38	62	176	297	57	-	1,171
2010	478	42	36	57	161	284	47	-	1,105

Year	Northwest w/o Split Mt. AFY	Split Mountain AFY	Lakeland AFY	Upper Bodfish AFY	Lower Bodfish AFY	East Region AFY	Onyx AFY	Cons. AFY	District Total AFY
2011	446	37	37	53	129	268	45	0	1014
2012	434	35	44	63	111	269	50	0	1006
2013	412	35	38	58	90	174	45	0	852
2014	398	31	38	57	86	158	43	0	811
2015	311	27	32	48	91	145	35	0	688
2016	541	46	46	59	126	281	55	0	1108
2017	542	46	46	59	126	282	56	0	1111
2018	543	47	47	59	126	282	56	0	1114
2019	544	47	47	60	126	283	57	0	1117
2020	546	48	48	60	126	284	58	0	1120
2021	547	48	48	60	126	285	58	0	1123
2022	548	48	48	60	126	286	59	0	1126
2023	549	49	49	60	126	286	59	0	1130
2024	550	49	49	60	126	287	60	0	1133
2025	551	50	50	60	126	288	61	0	1136
2026	553	50	50	60	126	289	61	0	1139
2027	554	51	51	60	126	290	62	0	1142
2028	555	51	51	61	126	291	63	0	1146
2029	556	51	51	61	126	291	63	0	1149
2030	557	52	52	61	126	292	64	0	1152
2031	559	52	52	61	126	293	65	0	1156
2032	560	53	53	61	126	294	65	0	1159
2033	561	53	53	61	126	295	66	0	1162
2034	563	54	54	61	126	296	67	0	1166
2035	564	54	54	61	126	297	67	0	1169
2036	565	55	55	61	126	297	68	0	1173
2037	567	55	55	62	126	298	69	0	1176
2038	568	56	56	62	126	299	69	0	1180
2039	569	56	56	62	126	300	70	0	1183
2040	571	57	57	62	126	301	71	0	1187

Per Capita Consumption (KRV)

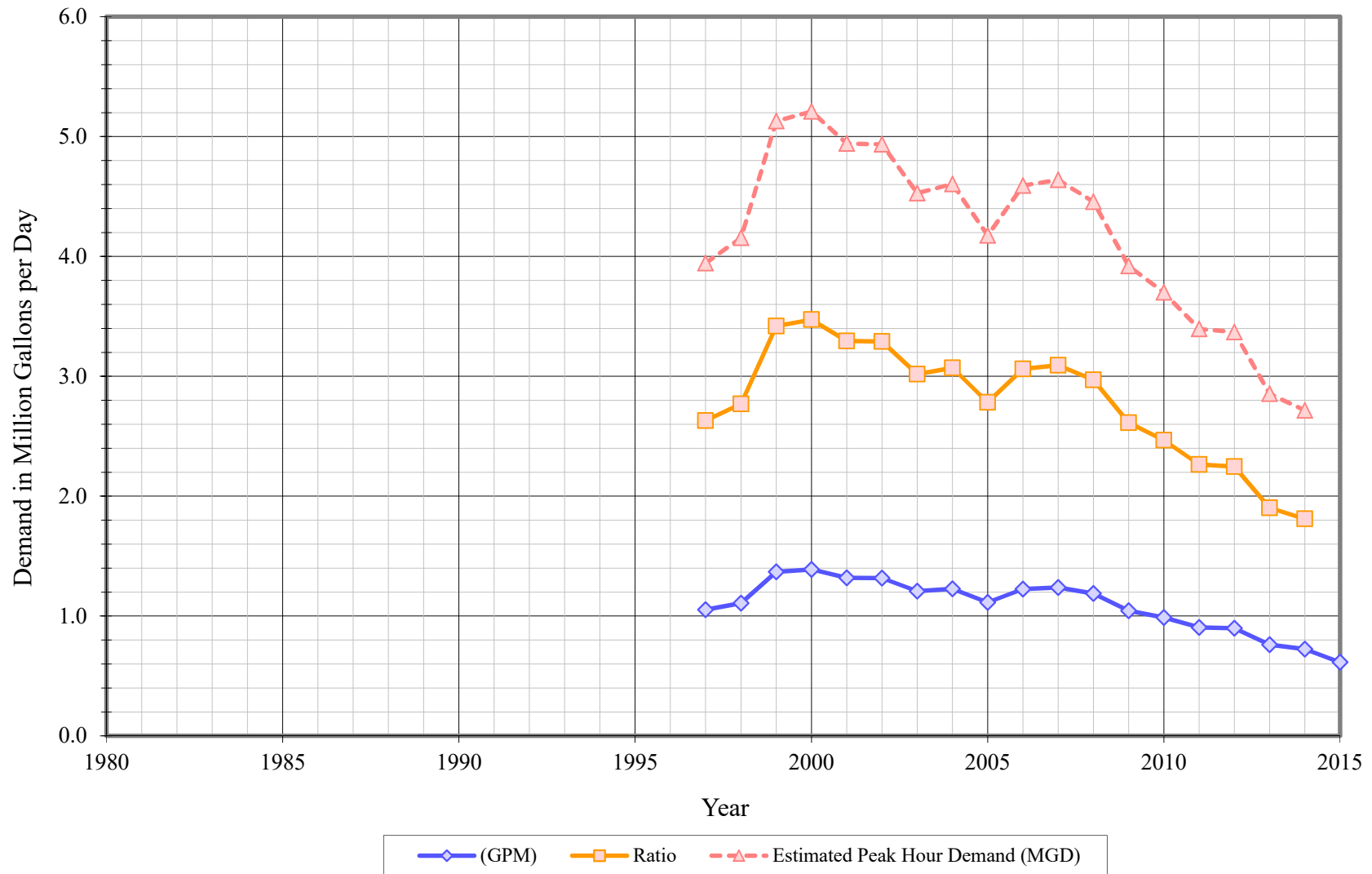


California Water Service Company - Kern River Valley District Worksheet 15
Water Supply and Demand Analysis and Projections
Per Capita Water Demand Calculation

Year	POP	Historical				Projected			
		Gross Demand		Residential Only		Avg Demand		Avg Demand w/ Cons	
		Usage (AFY)	Per Capita (GPCPD)	Usage (AFY)	Per Capita (GPCPD)	Demand (AFY)	Per Capita (GPCPD)	Demand (AFY)	Per Capita (GPCPD)
1995	5,802			929	143				
1996	5,810			1,015	156				
1997	5,911	1,178	178	1,088	164				
1998	6,045	1,241	183	1,111	164				
1999	6,103	1,532	224	1,210	177				
2000	6,127	1,556	227	1,241	181				
2001	6,071	1,476	217	1,157	170				
2002	6,086	1,474	216	1,245	183				
2003	6,228	1,352	194	1,062	152				
2004	6,274	1,375	196	1,112	158				
2005	6,303	1,247	177	1,020	144				
2006	6,292	1,372	195	1,031	146				
2007	6,043	1,386	205	1,034	153				
2008	6,023	1,331	197	954	141				
2009	5,939	1,171	176	902	136				
2010	5,825	1,105	169	804	123				
2011	5,812	1,014	156	747	115				
2012	5,857	1,006	153	763	116				
2013	5,776	852	132	697	108				
2014	5,700	811	127	634	99				
2015	5,583	688	110	514	82				
2016	5,593					1,108	177	1,311	209
2017	5,603					1,111	177	1,283	204
2018	5,613					1,114	177	1,255	200
2019	5,622					1,117	177	1,227	195
2020	5,632					1,120	178	1,199	190
2025	5,682					1,136	178	1,209	190
2030	5,734					1,152	179	1,220	190
2035	5,787					1,169	180	1,232	190
2040	5,842					1,187	181	1,243	190

<i>SBx7-7 Targets</i>	
2015	214
2020	190

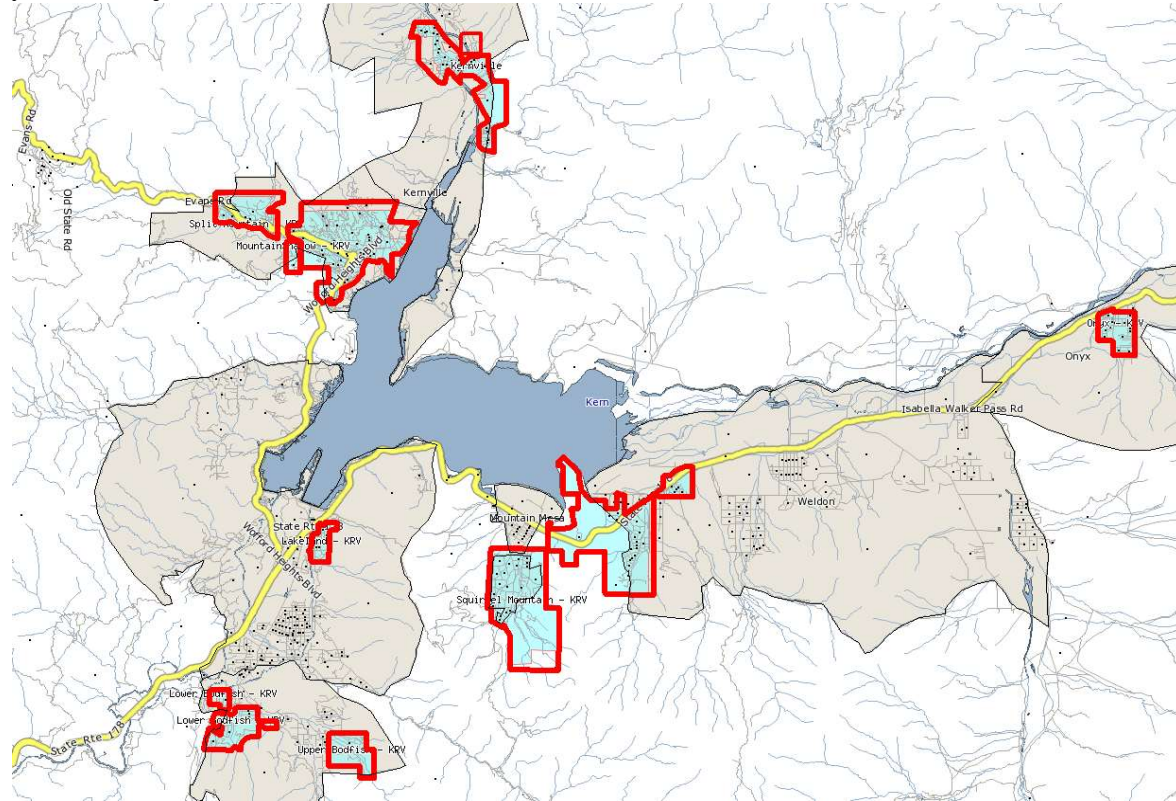
Average Day, Maximum Day, Peak Demand



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

Year	Historical Annual Demand		Average Day Demand		Maximum Day Demand		MDD ADD Ratio	Estimated Peak Hour Demand		PHD MDD Ratio	PHD ADD Ratio	Measured Peak Hour Demand		PHD MDD Ratio
	(AFY)	(MGY)	(MGD)	Per Service (GPD)	(MGD)	Per Service (GPD)		(MGD)	(GPM)			(MGD)	(GPM)	
1980														
1981														
1982														
1983														
1984														
1985														
1986														
1987														
1988														
1989														
1990														
1991														
1992														
1993														
1994														
1995														
1996														
1997	1,178	384	1.05	267	2.63	666	2.50	3.95	2,740	1.50	3.75			
1998	1,241	404	1.11	274	2.77	685	2.50	4.16	2,886	1.50	3.75			
1999	1,532	499	1.37	335	3.42	838	2.50	5.13	3,562	1.50	3.75			
2000	1,556	507	1.39	339	3.47	848	2.50	5.21	3,617	1.50	3.75			
2001	1,476	481	1.32	322	3.30	806	2.50	4.94	3,433	1.50	3.75			
2002	1,474	480	1.32	318	3.29	795	2.50	4.94	3,428	1.50	3.75			
2003	1,352	441	1.21	283	3.02	707	2.50	4.53	3,144	1.50	3.75			
2004	1,375	448	1.23	283	3.07	708	2.50	4.60	3,198	1.50	3.75			
2005	1,247	406	1.11	254	2.78	635	2.50	4.18	2,900	1.50	3.75			
2006	1,372	447	1.22	278	3.06	694	2.50	4.59	3,189	1.50	3.75			
2007	1,386	452	1.24	288	3.09	720	2.50	4.64	3,222	1.50	3.75			
2008	1,331	434	1.19	276	2.97	690	2.50	4.46	3,094	1.50	3.75			
2009	1,171	381	1.05	245	2.61	612	2.50	3.92	2,722	1.50	3.75			
2010	1,105	360	0.99	233	2.47	583	2.50	3.70	2,570	1.50	3.75			
2011	1,014	330	0.91	214	2.26	536	2.50	3.40	2,358	1.50	3.75			
2012	1,006	328	0.90	211	2.25	528	2.50	3.37	2,340	1.50	3.75			
2013	852	278	0.76	182	1.90	454	2.50	2.85	1,982	1.50	3.75			
2014	811	264	0.72	175	1.81	438	2.50	2.72	1,886	1.50	3.75			
2015	688	224	0.61	151										
10 year Average			0.96	225	2.52	589	2.50	3.78	2,626	1.50	3.75			
5 year Average			0.78	187	2.14	508	2.50	3.21	2,227	1.50	3.75			

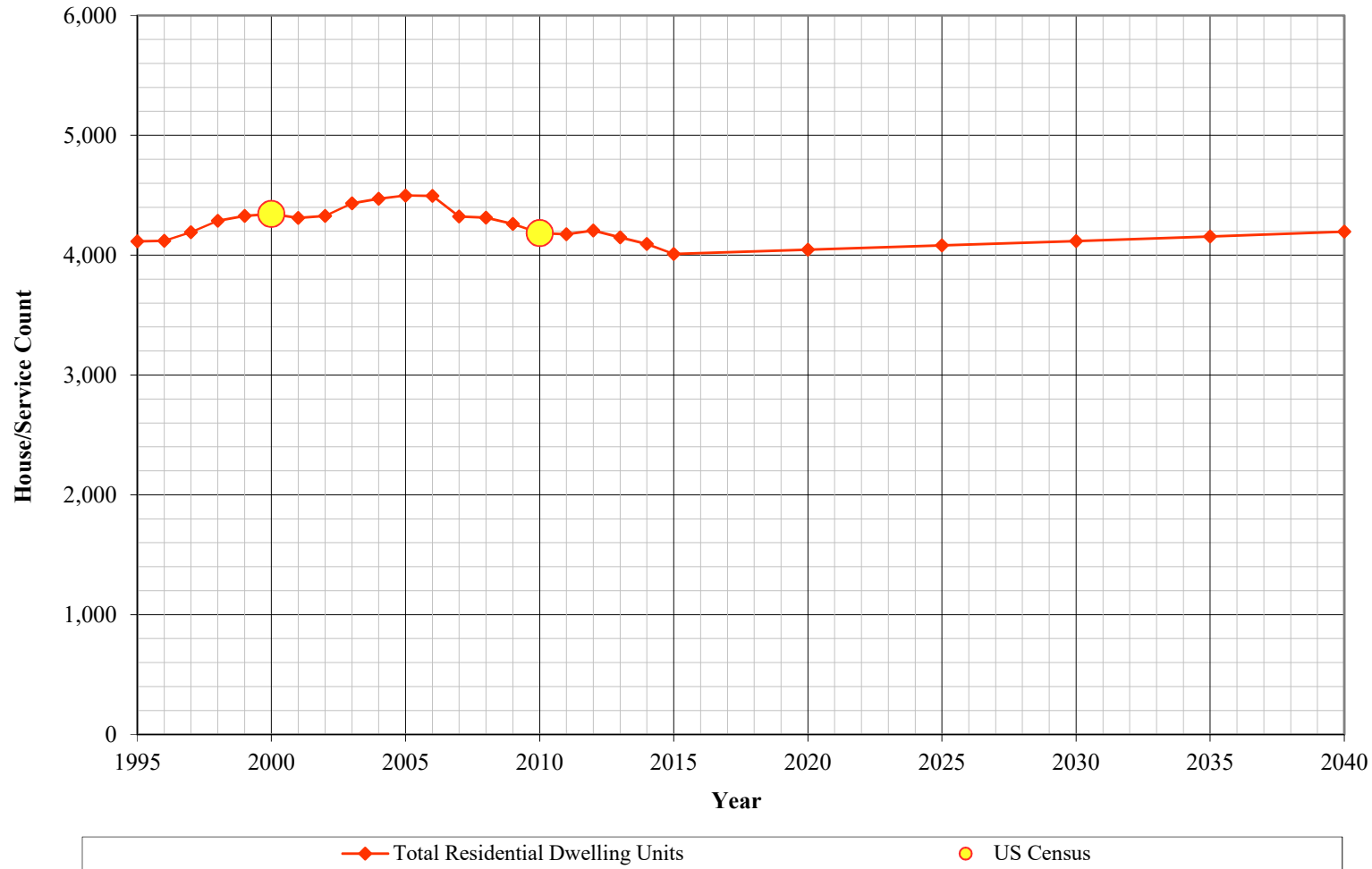
California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
 US Census 2010 Tract Map Summary



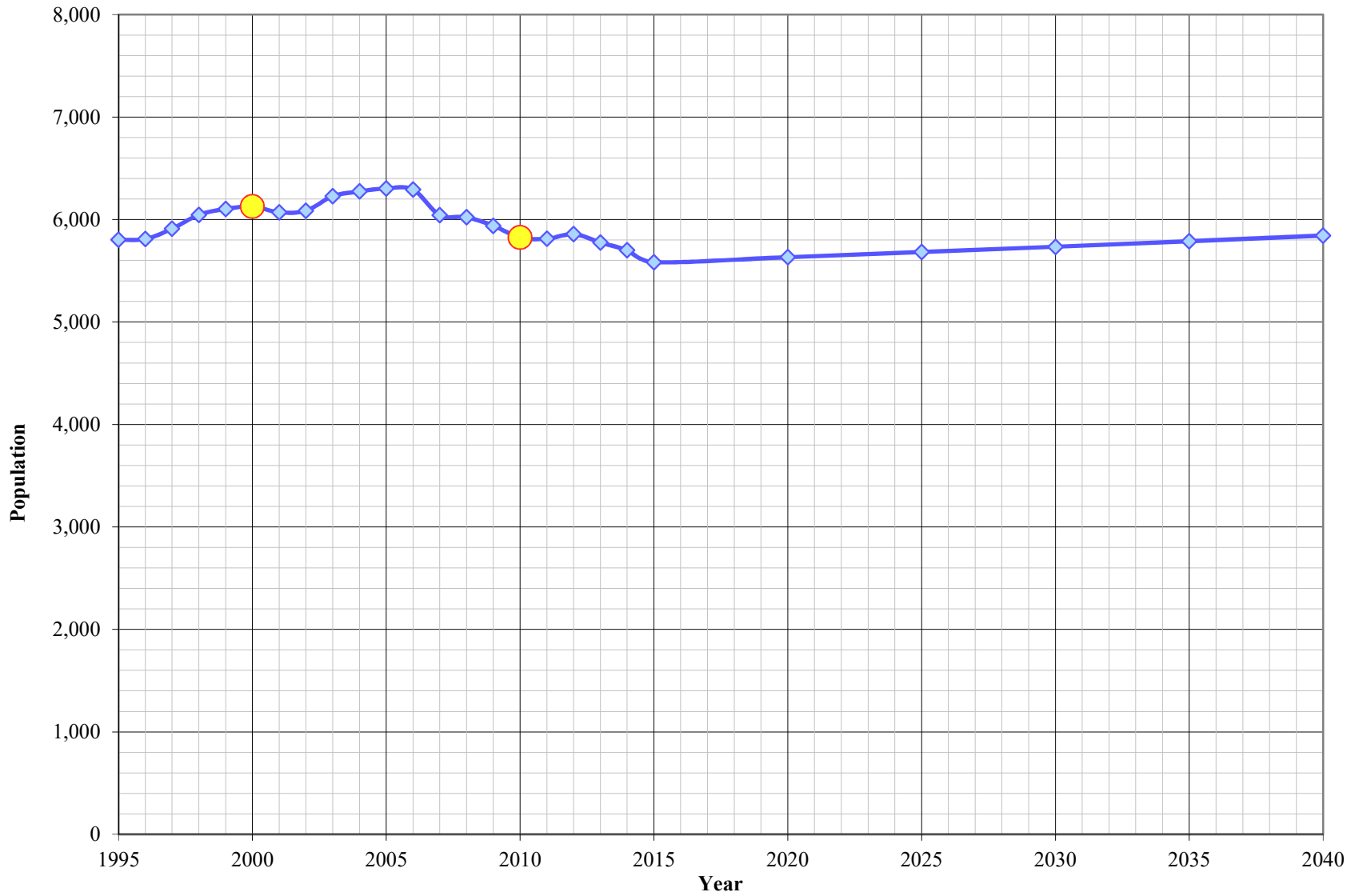
System	US Census 2000 Summary				US Census 2010 Summary				2000-2010 Change		
	Census Blocks	Population	Housing Units (HU)	Density	Census Tract Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change
Arden	61	1,772	1,540	1.15	61	1,856	1,633	1.14	4.7%	6.0%	-1.2%
Kernville	34	1,120	796	1.41	38	769	564	1.36	-31.3%	-29.1%	-3.1%
Mountain Shadows	1	22	10	2.20	1	-	1	-	-100.0%	-90.0%	-100.0%
James Water	-	-	-	-	1	19	9	2.11			
Ponderosa Pine	6	127	94	1.35	-	-	-	-			
Split Mountain	15	153	136	1.13	13	219	190	1.15	43.1%	39.7%	2.5%
Lakeland	11	257	195	1.32	11	294	204	1.44	14.4%	4.6%	9.3%
Upper Bodfish	4	340	203	1.67	5	441	268	1.65	29.7%	32.0%	-1.8%
Lower Bodfish	17	647	409	1.58	12	404	251	1.61	-37.6%	-38.6%	1.7%
Juniper Hills	1	10	5	2.00	-	-	-	-			
Southlake	36	754	480	1.57	33	769	451	1.71	2.0%	-6.0%	8.5%
Squirrel Mountain	33	570	274	2.08	23	735	406	1.81	28.9%	48.2%	-13.0%
Onyx	20	355	203	1.75	25	319	206	1.55	-10.1%	1.5%	-11.4%
	239	6,127	4,345	1.41	223	5,825	4,183	1.39	-4.9%	-3.7%	-1.2%

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

Housing Projections



Population Projections



California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections
Population Estimate

Year	US Census		Persons per Housing Unit	Single Family Residential	Multi Family Residential			Flat Rate Residential
	Population	Housing Units		Services (DU)	Services	Residential Units (DU)	Unit Density	Services (DU)
2000	6,127	4,345	1,410	3,995	8	350	43.7	0
2010	5,825	4,183	1,393	4,089	7	94	13.4	0
	-4.9%	-3.7%	-1.2%	2.3%	-12.5%	-73.1%	-69.3%	0.0%

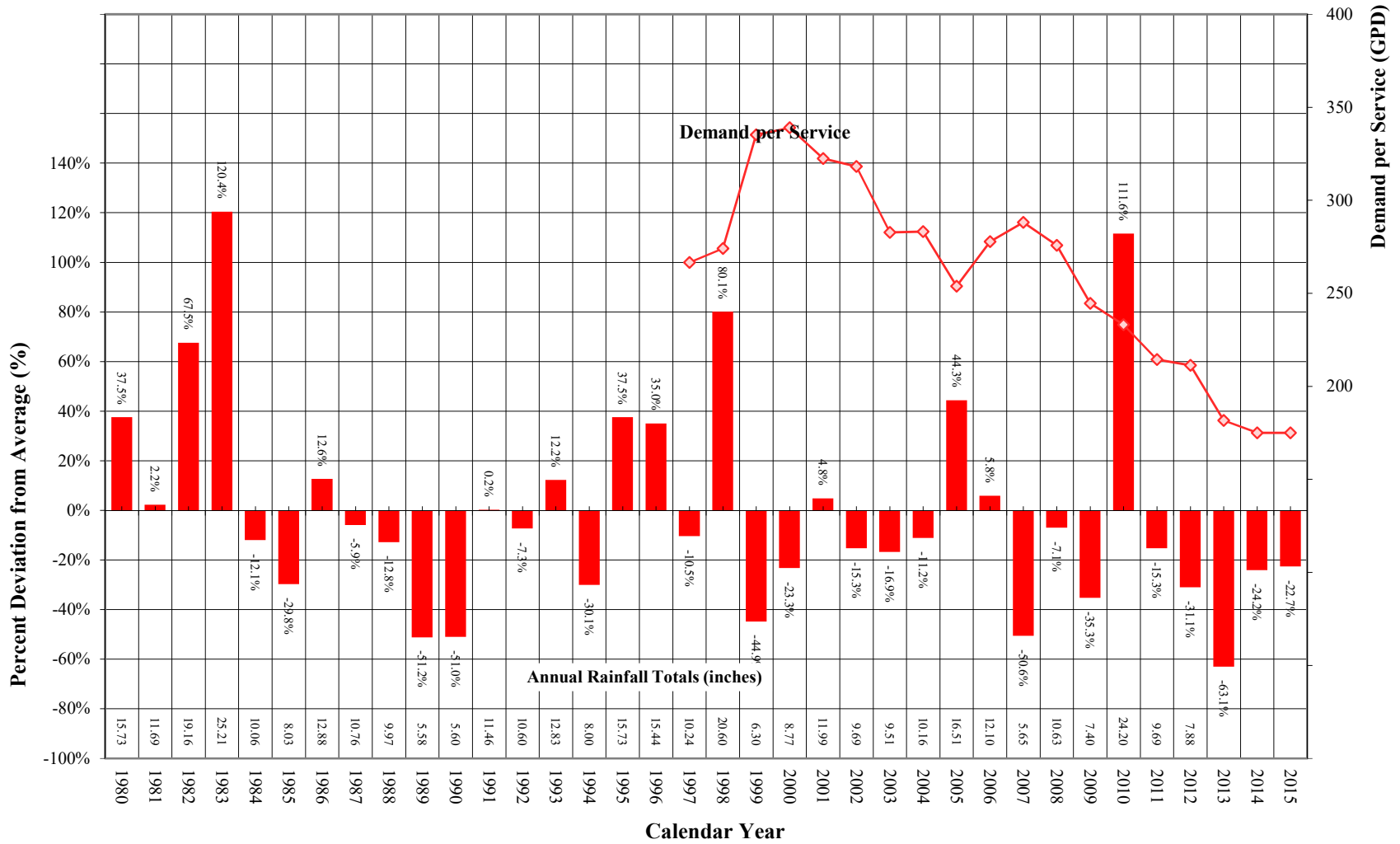
Year	Single Family Residential Services (DU)	Multi Family Residential			Flat Rate Residential Services (DU)	Total Residential Dwelling Units	Persons per Housing Unit	Estimated District Population
		Services	Residential Units (DU)	Unit Density				
1995	3,809	7	306	43.7		4,115	1.410	5,802
1996	3,814	7	306	43.7		4,120	1.410	5,810
1997	3,842	8	350	43.7		4,192	1.410	5,911
1998	3,937	8	350	43.7		4,287	1.410	6,045
1999	3,978	8	350	43.7		4,328	1.410	6,103
2000	3,995	8	350	43.7		4,345	1.410	6,127
2001	3,986	8	324	40.5		4,311	1.408	6,071
2002	4,028	8	299	37.3		4,327	1.407	6,086
2003	4,160	5	273	54.6		4,433	1.405	6,228
2004	4,224	5	247	49.5		4,471	1.403	6,274
2005	4,276	5	222	44.4		4,498	1.401	6,303
2006	4,299	5	196	39.3		4,495	1.400	6,292
2007	4,152	7	171	24.4		4,323	1.398	6,043
2008	4,155	7	145	20.7	14	4,314	1.396	6,023
2009	4,126	7	120	17.1	14	4,259	1.394	5,939
2010	4,089	7	80	11.4	14	4,183	1.393	5,825
2011	4,080	7	80	11.4	14	4,174	1.393	5,812
2012	4,112	7	80	11.4	14	4,206	1.393	5,857
2013	4,054	7	80	11.4	14	4,148	1.393	5,776
2014	4,002	7	80	11.4	11	4,093	1.393	5,700
2015	3,929	7	80	11.4	0	4,010	1.393	5,583
2020	3,961	7	83	11.4		4,045	1.393	5,632
2025	3,994	8	86	11.4		4,081	1.393	5,682
2030	4,028	8	90	11.4		4,118	1.393	5,734
2035	4,063	8	93	11.4		4,156	1.393	5,787
2040	4,099	8	97	11.4		4,195	1.393	5,842

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Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2010 due to reclassification, afterwards a constant MFR Unit Density is used.

Comparison of Annual Rainfall to Historical Average



**California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections**

Temperature & Rainfall History

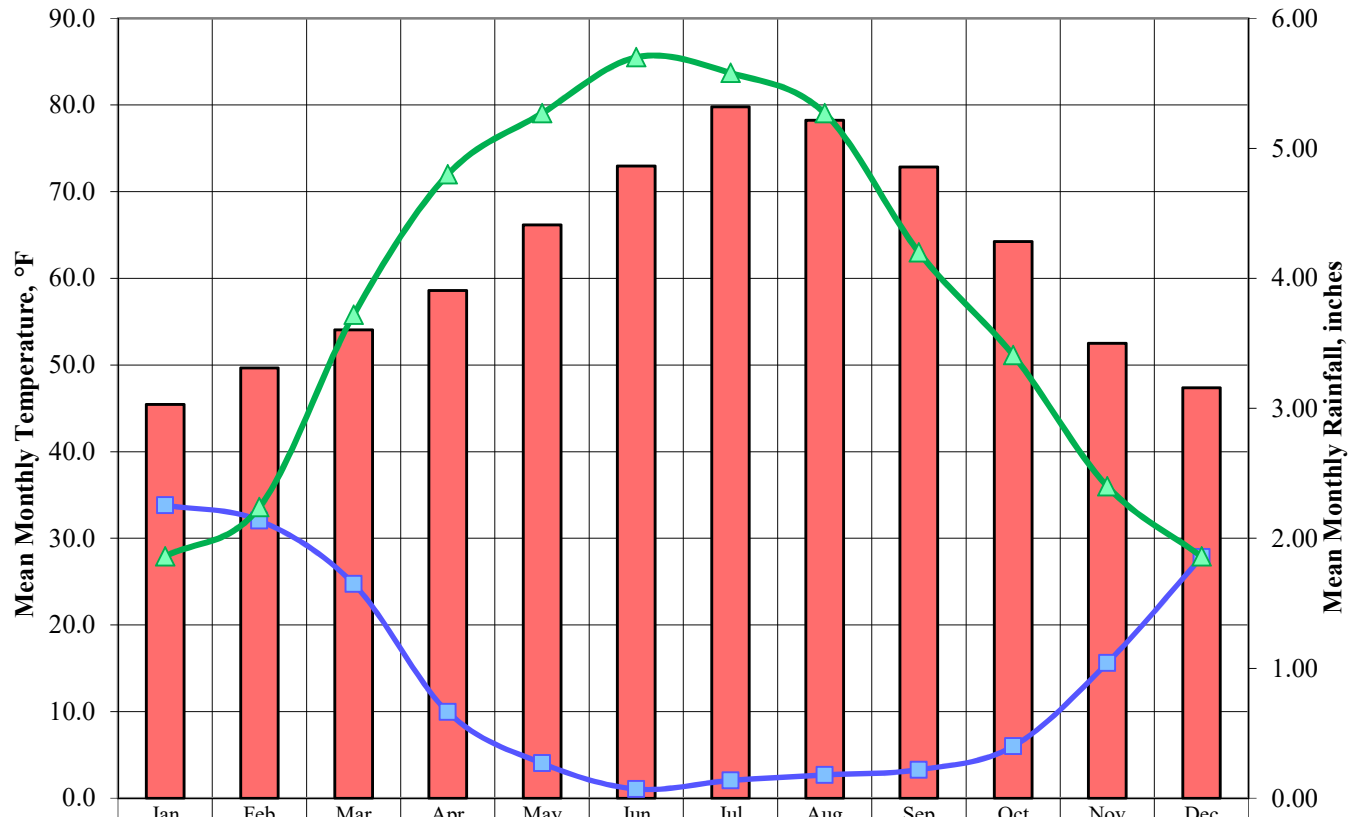
Year	Precipitation		Temperature			Demand per Service (gpd)	Percent of Average Demand
	Annual (in)	Percent Variation	Tmax (°F)	Tmin (°F)	Mean (°F)		
1980	15.73	37.5%	96.60	35.40	66.0		
1981	11.69	2.2%	99.10	35.50	67.3		
1982	19.16	67.5%	95.50	30.80	63.2		
1983	25.21	120.4%	92.80	34.00	63.4		
1984	10.06	-12.1%	97.40	33.50	65.5		
1985	8.03	-29.8%	98.00	32.10	65.1		
1986	12.88	12.6%	98.60	33.50	66.1		
1987	10.76	-5.9%	96.70	30.20	63.5		
1988	9.97	-12.8%	100.00	33.40	66.7		
1989	5.58	-51.2%	98.10	30.50	64.3		
1990	5.60	-51.0%	98.40	27.10	62.8		
1991	11.46	0.2%	97.50	31.90	64.7		
1992	10.60	-7.3%	98.30	31.40	64.9		
1993	12.83	12.2%	95.20	33.50	64.4		
1994	8.00	-30.1%	99.40	32.30	65.9		
1995	15.73	37.5%	96.70	36.20	66.5		
1996	15.44	35.0%	99.00	35.00	67.0		
1997	10.24	-10.5%	95.80	31.10	63.5	267	2.3%
1998	20.60	80.1%	98.60	28.80	63.7	274	5.2%
1999	6.30	-44.9%	94.90	32.20	63.6	335	28.6%
2000	8.77	-23.3%	97.70	33.20	65.5	339	30.1%
2001	11.99	4.8%	99.40	32.00	65.7	322	23.7%
2002	9.69	-15.3%	100.50	30.90	65.7	318	22.1%
2003	9.51	-16.9%	100.70	34.50	67.6	283	8.5%
2004	10.16	-11.2%	98.90	31.70	65.3	283	8.7%
2005	16.51	44.3%	101.30	36.30	68.8	254	-2.6%
2006	12.10	5.8%	100.10	32.60	66.4	278	6.6%
2007	5.65	-50.6%	97.80	28.30	63.1	288	10.5%
2008	10.63	-7.1%	98.30	33.00	65.7	276	5.8%
2009	7.40	-35.3%	99.20	34.70	67.0	245	-6.1%
2010	24.20	111.6%	97.10	37.50	67.3	233	-10.6%
2011	9.69	-15.3%	96.80	29.30	63.1	214	-17.7%
2012	7.88	-31.1%	101.00	33.70	67.4	211	-18.9%
2013	4.22	-63.1%	99.60	30.40	65.0	182	-30.3%
2014	8.67	-24.2%	99.80	34.20	67.0	175	-32.9%
2015	8.84	-22.7%	98	31.1	64.6	175	-32.9%
2016							
2017							
2018							
2019							
2020							




Precipitation (1895 - present)						Monthly Average Eto
	Mean	High	Year	Low	Year	
	in.	in.	-	in.	-	
Jan	2.25	12.78	1916	0.00	1948	1.86
Feb	2.14	10.63	1998	0.04	1910	2.24
Mar	1.65	6.98	1991	0.00	1956	3.72
Apr	0.66	3.15	1967	0.00	1909	4.80
May	0.27	1.61	1906	0.00	1897	5.27
Jun	0.07	0.68	1993	0.00	1910	5.70
Jul	0.14	2.04	1896	0.00	1957	5.58
Aug	0.18	1.83	1961	0.00	1957	5.27
Sep	0.22	3.39	1976	0.00	1899	4.20
Oct	0.40	2.32	2004	0.00	1903	3.41
Nov	1.04	4.87	1900	0.00	1904	2.40
Dec	1.86	11.75	2010	0.00	1930	1.86
Annual	10.88	25.95	1909	3.28	1947	46.31

Temperature (1895 - present)			
	Tmax	Tmin	Mean
	°F	°F	°F
Jan	67.7	23.2	45.5
Feb	71.6	27.7	49.7
Mar	76.3	31.8	54.1
Apr	79.8	37.4	58.6
May	88.4	43.9	66.2
Jun	96.1	49.8	73.0
Jul	103.6	56.0	79.8
Aug	101.1	55.4	78.3
Sep	96.4	49.3	72.9
Oct	88.3	40.2	64.3
Nov	73.6	31.4	52.5
Dec	67.7	27.0	47.4
Annual	103.6	23.2	63.4

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

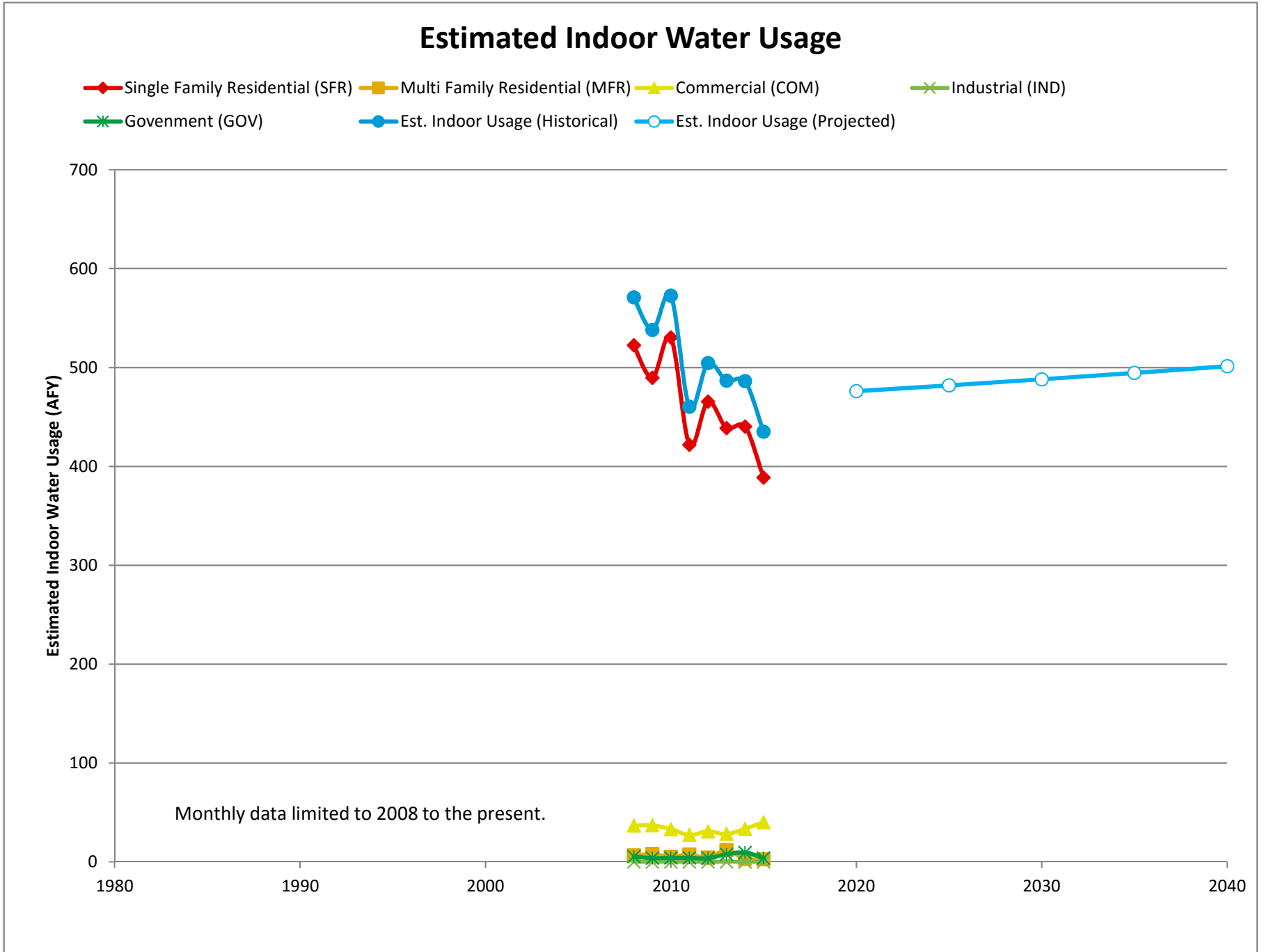
Average Monthly Temperature, Rainfall, and Monthly Eto



 Avg. Temp	45.5	49.7	54.1	58.6	66.2	73.0	79.8	78.3	72.9	64.3	52.5	47.4
 Avg. Rainfall	2.25	2.14	1.65	0.66	0.27	0.07	0.14	0.18	0.22	0.40	1.04	1.86
 Monthly Average Eto	1.86	2.24	3.72	4.80	5.27	5.70	5.58	5.27	4.20	3.41	2.40	1.86

**California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections**

Groundwater Production Facilities



California Water Service Company - Kern River Valley District
Water Supply and Demand Analysis and Projections

Estimated Indoor/Outdoor Water Usage

Year	Single Family Residential (SFR)							Multi Family Residential (MFR)				Commercial (COM)					
	SFR Jan Usage	Metered SFR Indoor Use (Annualized 90% of January Total)		Indoor Flat Rate Usage (AFY)	Total SFR Indoor Usage			MFR Jan Usage	MFR Indoor Use (Annualized 90% of January Total)			COM Jan Usage	COM Indoor Use (Annualized 90% of January Total)				
		JAN (CCF)	AFY		AF/Serv	AFY	GPD/Serv		%	(CCF)	AFY		GPD/Serv	%	(CCF)	AFY	GPD/Serv
1980																	
1981																	
1982																	
1983																	
1984																	
1985																	
1986																	
1987																	
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2007																	
2008	21,070	522	0.126	0	522	112	56%	260	6	822	50%	1,475	37	289	57%		
2009	19,743	489	0.119	0	489	106	55%	314	8	993	63%	1,486	37	306	63%		
2010	21,389	530	0.130	0	530	116	67%	208	5	658	44%	1,337	33	278	65%		
2011	17,013	422	0.103	0	422	92	57%	301	7	952	71%	1,093	27	232	57%		
2012	18,775	465	0.113	0	465	101	62%	168	4	531	53%	1,245	31	273	57%		
2013	17,694	439	0.108	0	439	97	64%	480	12	1,518	166%	1,139	28	257	53%		
2014	17,753	440	0.110	0	440	98	70%	118	3	373	50%	1,353	34	296	69%		
2015	15,671	389		0	389			106	3			1,614	40				
2016					428	97			7	843			31	264			
2017					428	97			7	843			31	264			
2018					429	97			7	843			32	264			
2019					430	97			7	843			32	264			
2020					431	97			7	843			32	264			
2025					434	97			7	843			34	264			
2030					438	97			7	843			36	264			
2035					442	97			8	843			38	264			
2040					446	97			8	843			41	264			

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

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