Appendix C: Correspondences

- UWMP Notice of Preparation, March 10, 2016
- Growth Projection Letter to Cities and Counties
- UWMP Public Draft Comments

Appendix C: Correspondences

- UWMP Notice of Preparation, March 10, 2016

CALIFORNIA WATER SERVICE
1720 North First Street
San Jose, CA 95112-4598 Tel: (408) 367-8200

March 10, 2016

[Name_F] [Name_L]
[Organization]
[Address]
[City], CA [ZipCode]

Dear [Title] [Name_L]:

California Water Service (Cal Water) is committed to providing safe, reliable, and high-quality water utility service in our Redwood Valley service area. At Cal Water, one of our top priorities is ensuring that our customers have a sustainable supply of water for decades to come.

With that in mind, we wanted to take this opportunity to let you know that we are updating our Urban Water Management Plan (UWMP) for this service area. This UWMP is reviewed and updated every five years pursuant to the Urban Water Management Plan Act, and will be completed by July 1, 2016. Our UWMP is a foundational document that supports our long-term water resource planning to ensure our customers have adequate water supplies to meet current and future demands.

Proposed revisions to our 2010 UWMP will be made available for public review, and we will be holding a public hearing, during which the updates for the 2015 UWMP will be discussed. The draft 2015 UWMP and the date, time and location of the public hearing will be available on our web site in a few weeks at www.calwater.com/conservation/uwmp. A hard copy of the draft UWMP will also be available at our Redwood Valley Customer Center located at 14034 Armstrong Woods Road, Guerneville, CA 95446.

If you have any questions about the UWMP for this service area, please contact Michael Bolzowski, Cal Water Senior Engineer, at (408) 367-8338 or e-mail Planninginfo@calwater.com.

Sincerely,

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Director of Capital Planning & Water Resources

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Appendix C: Correspondences

- Growth Projection Letter to Cities and Counties

Blanusa, Danilo

From: Blanusa, Danilo
Sent: Thursday, September 10, 2015 10:50 AM
To: Lars Ewing (lars.ewing@lakecountyca.gov)
Cc: Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Guidotti, Gay
Subject: Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Redwood Valley District
Attachments: Letter to City Planning Officials - Attachmet - RDV.pdf

Dear Mr. Ewing,

Pursuant to California Water Code, Division 6, Part 2.6, Sections 10610 through 10656, California Water Service is in the process of preparing the required 2015 update of our Urban Water Management Plans. These plans are required to be updated every five (5) years for each of our services areas (Districts). As you know our Redwood Valley District provides water service to the County of Lake.

The purpose of this communication is to solicit your assistance in reviewing and advising us with respect to one of the key elements of the plan, which is the development of a growth forecast for our district. This growth forecast is conducted based on growth in each customer service classification applicable to a particular district, which typically include:

- Single family residential
- Multi-family residential
- Commercial
- Industrial
- Government (City or County parks, median strips, landscaping and schools)
- Dedicated Irrigation (rare)
- Other (temporary construction meters)

The forecasted growth rates are combined with a demand per service factor applicable to each customer class to determine the future water demands for the district. These growth factors are adjustable and we want to review them with you so that we are consistent with anticipated growth that your planning efforts forecast. If adjustments are necessary we can do them now and avoid conflicts and confusion later in this process.

Some specific information regarding our approach to forecasting customer service growth is detailed as follows:

- **Residential** – Typically two residential customer service categories represent the vast majority of the service counts as well as subsequent water sales or demand in our districts. Cal Water considers both single family and multi-family residential services independently as individual classes, but combines them together in order to assess population growth and housing unit growth. While we use historical trends in the establishment for the growth rates for these two customer classes, we also analyze census data for population and housing factors and compare our forecast results for these two parameters with available data from City General Plans, as well as County Economic Forecast data and Regional government association forecasts as a reality or appropriateness check of our results.

- **Commercial & Industrial** – Historical trend is a key influence in this customer class, however where we have seen negative trends in recent years for these categories due to the economic downturn, we typically employ either a zero rate of growth or a small, reasonable positive rate of growth. We have also undertaken during the last ten years some reassessment of customer service classifications that has resulted in reallocation of some customer service accounts between various classes. This reallocation, which included commercial, industrial, multi-family residential and in some cases government services, has made the analysis of growth a bit more difficult.

- **Government** – Growth trends are generally parallel to that of the residential sector, so we verify that our rate of grow is not dramatically out-of-sequence with the overall community.

- **Other** – The use of temporary-assigned construction meters varies considerably from year to year, and can represent considerable water demand. In this case, we select a growth rate that is stable, yet reflects the overall growth of the community.

We have included with this communication a set of tables and graphs (see attachment) that illustrate the parameters that influence the growth forecast as currently set up for this district. These include:

A. The historical and projected service data in both graph and table form
B. The 2000 and 2010 Census data for the districts service area
C. Housing projection chart comparing Cal Water's forecast (always in red) with those from other organizations
D. Population projection chart comparing Cal Water's forecast (always in red) with those from other organizations
E. Table of population and housing values along with multi-family residential unit density and persons per housing unit density that are employed in this forecast effort.

Please note that the 2015 data, which we need to include in our finished forecast, is not yet final, and some minor fluctuation of these values is possible.

Please examine these documents to determine if you concur with our forecasted housing and population numbers. It would be greatly appreciated if you could, by **September 30, 2015**, provide us with an indication of your support or in the case you do not agree with our forecast a reason why and the appropriate rate or growth pattern that we should employ. **If I do not hear back from you by the end of business (EOB) on the above date I will assume that you concur with our forecast.**

If you need a more detailed explanation of these numbers or want to review them with us please feel free to contact me at (408) 367-8340 or by email at tsalzano@calwater.com.

Thank you for your assistance in this effort.

Respectfully,

Thomas A. Salzano

Thomas A. Salzano
Water Resource Planning Supervisor

Danilo Blanusa, P.E.
Senior Engineer
CALIFORNIA WATER SERVICE
408-367-8387

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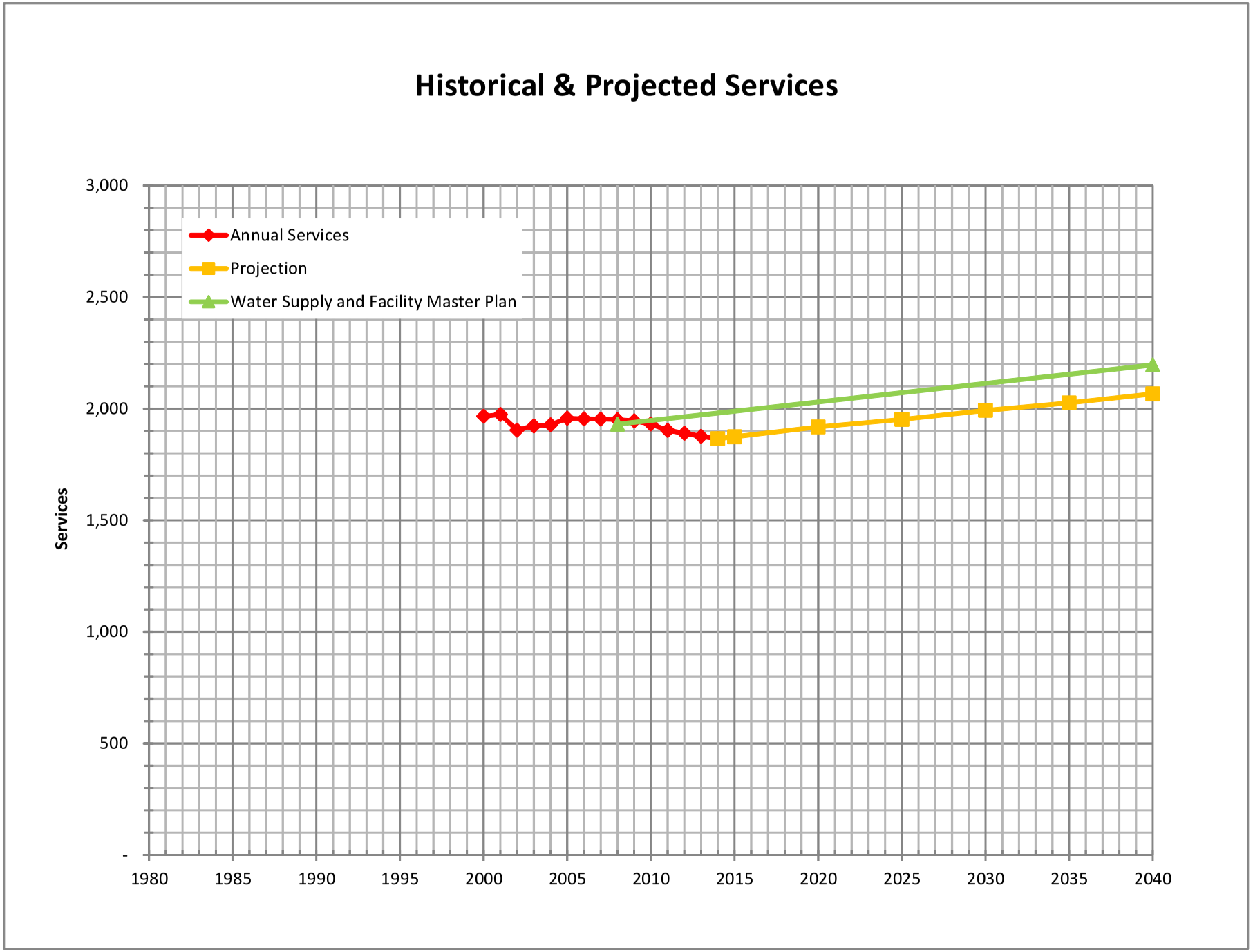
calwater.com


Historical & Projected Services
Annual Services
Projection
Water Supply and Facility Master Plan
Services
3,000
2,500
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1980
1985
1990
1995
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2020
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2030
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2040

California Water Service Company - Redwood Valley District (consolidated)

Worksheet 8

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 2014	2015	2020	2025	2030	2035	2040
SFR		SFR		#DIV/0!	1,867	1,860	1,841	1,784	1,793	1,827	1,860	1,894	1,927	1,961
MFR		MFR		#DIV/0!	18	17	17	16	16	18	18	19	19	20
COM		COM		#DIV/0!	67	65	59	51	51	56	56	60	60	64
IND		IND			0	0	0	0	0	0	0	0	0	0
GOV		GOV		#DIV/0!	14	15	14	14	14	17	18	19	20	21
OTH		OTH			0	0	0	0	0	0	0	0	0	0
TOTAL	Average growth rate 2011-2040			#DIV/0!	1,966	1,957	1,931	1,865	1,874	1,918	1,952	1,992	2,026	2,066

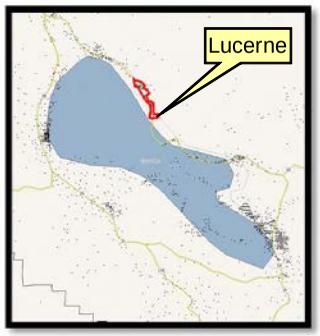
Notes:

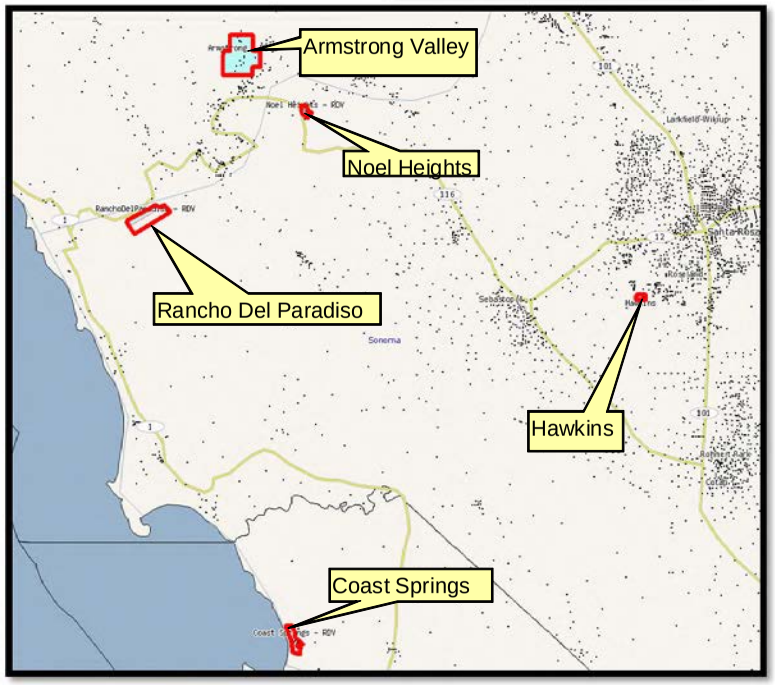
California Water Service Company - Redwood Valley District (consolidated)

Worksheet 12

Water Supply and Demand Analysis and Projections

US Census 2010 Tract Map Summary





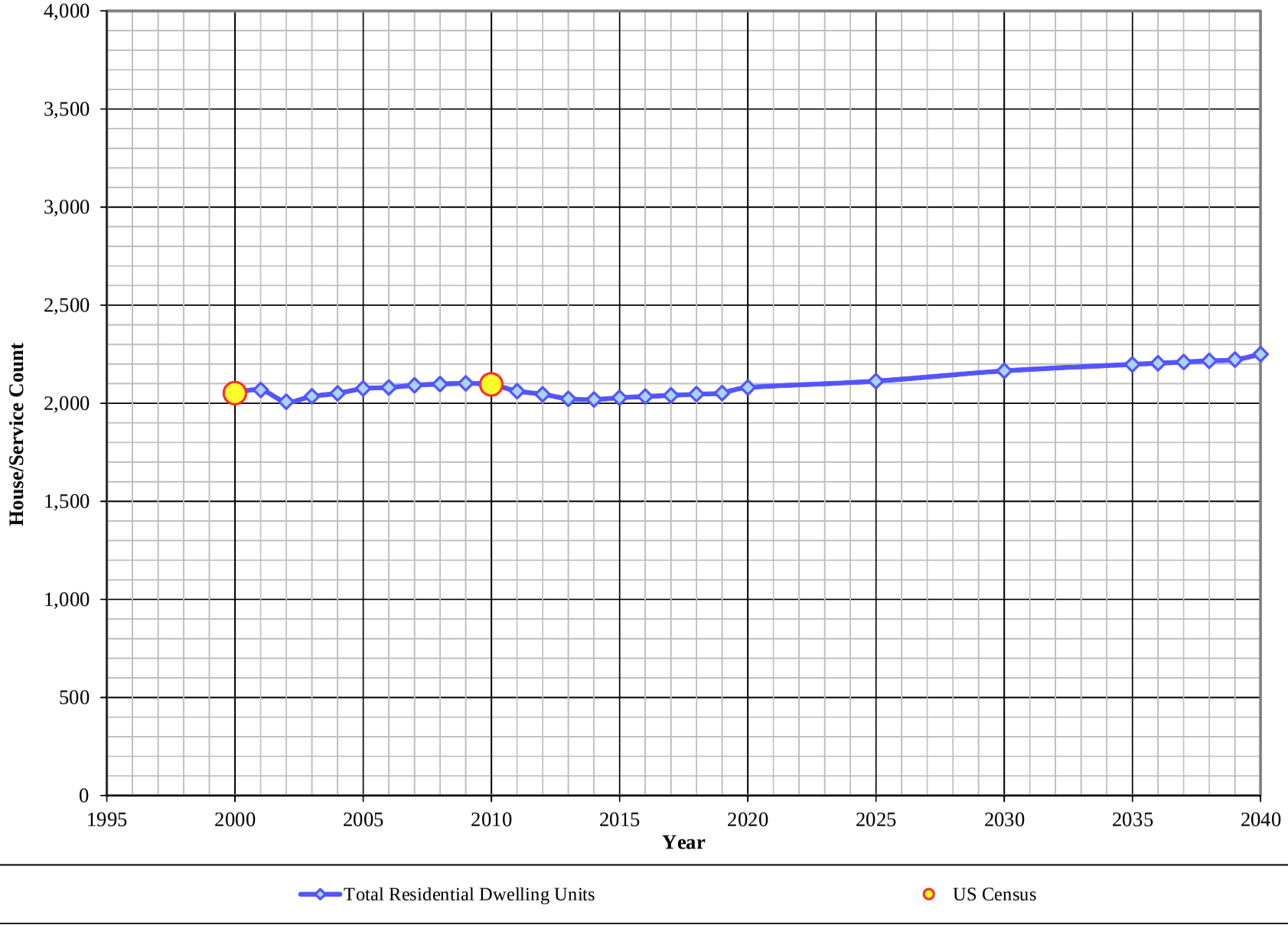
	US Census 2000 Summary				US Census 2010 Summary			
System	Census Blocks	Population	Housing Units (HU)	Density	Census Tract Blocks	Population	Housing Units (HU)	Density
Armstrong Valley	12	374	190	1.97	13	912	556	1.64
Rancho Del Paradiso	1	79	63	1.25	1	61	62	0.98
Noel Heights	1	47	35	1.34	2	40	31	1.29
Coast Springs	8	238	336	0.71	6	60	132	0.45
Hawkins	2	126	47	2.68	4	133	53	2.51
Lucerne	70	2,289	1,385	1.65	74	2,462	1,433	1.72
	94	3,153	2,056	1.53	100	3,668	2,267	1.62

System	Note	Population	Housing Units (HU)	Density		Population	Housing Units (HU)	Density
Armstrong Valley	1	520	264	1.97		424	259	1.64
Rancho Del Paradiso	1	71	57	1.25		59	60	0.98
Noel Heights	1	77	57	1.34		64	50	1.29
Coast Springs	2	186	239	0.78		167	243	0.69
Hawkins	1	134	50	2.68		129	51	2.51
Lucerne	3	2,289	1,385	1.65		2,462	1,433	1.72
		3,277	2,052	1.60		3,305	2,096	1.58

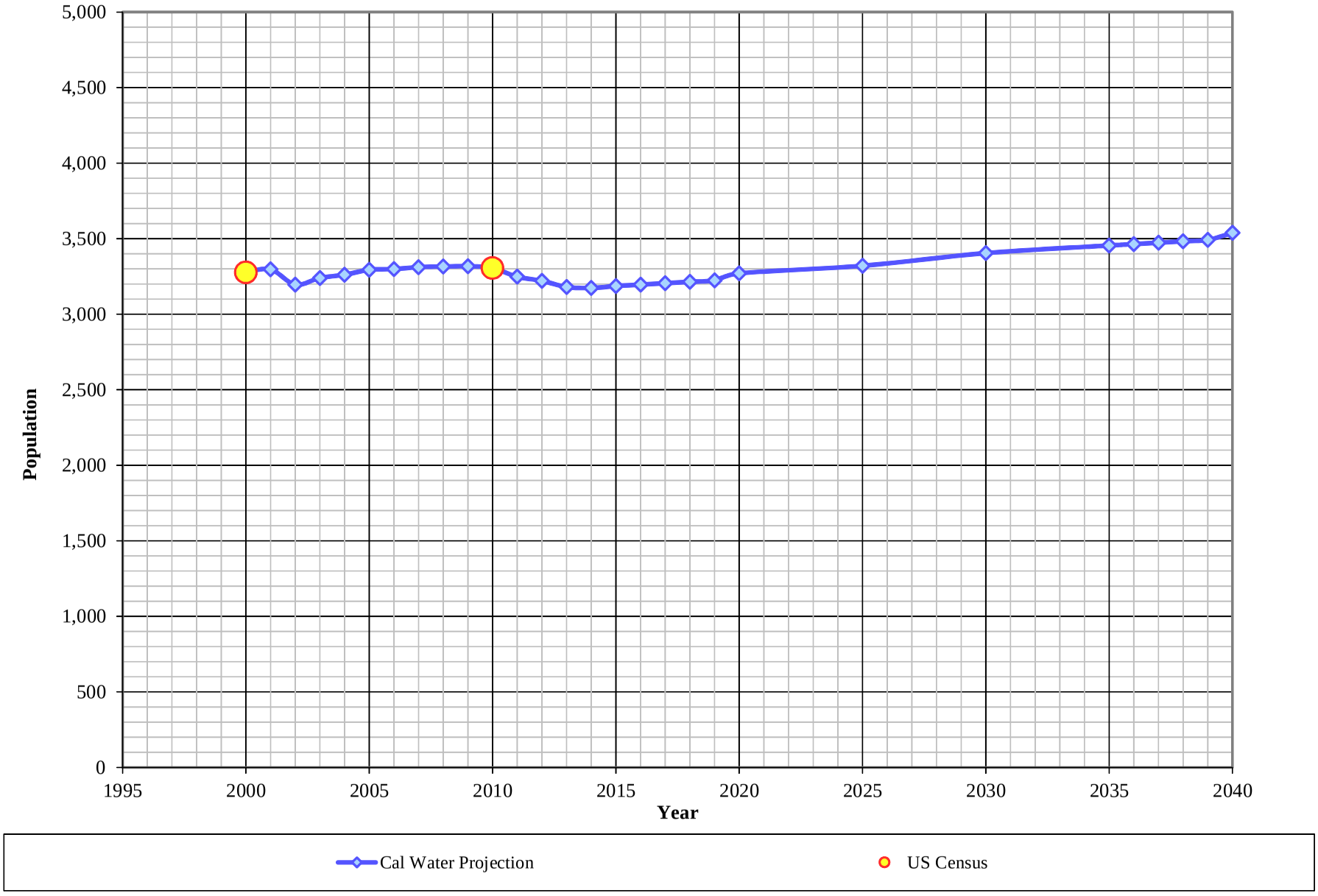
1) US Census density and active service count used to estimate population.
2) CDOF used to estimate population.
3) US Census used.

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 thought part of the block is within the selected objects.

Housing Projections



Population Projections



California Water Service Company - Redwood Valley District (consolidated)

Worksheet 12

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	3,277	2,052	1.597	1,867	18	185	10.3	0
2010	3,305	2,096	1.577	1,841	17	255	15.0	0
	0.9%	2.1%	-1.3%	-1.4%	-5.6%	37.9%	46.0%	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									
	1996									
	1997									
	1998									
	1999									
	2000	1,867	18.0	182	10.1	0	2,052	1.597	3,277	
	2001	1,875	18.0	191	10.6	0	2,068	1.594	3,297	
	2002	1,805	18.0	200	11.1	0	2,008	1.592	3,196	
	2003	1,824	18.0	208	11.6	0	2,035	1.592	3,240	
	2004	1,830	18.0	217	12.1	0	2,051	1.590	3,261	
	2005	1,860	17.1	212	12.4	0	2,075	1.588	3,294	
	2006	1,859	16.9	218	12.9	0	2,080	1.586	3,299	
	2007	1,861	17.0	227	13.4	0	2,092	1.583	3,312	
	2008	1,859	17.0	236	13.9	0	2,097	1.581	3,315	
	2009	1,854	17.0	244	14.3	0	2,101	1.579	3,318	
	2010	1,841	17.0	252	14.8	0	2,096	1.577	3,305	
	2011	1,816	16.7	246	14.8	0	2,062	1.575	3,248	
/\	2012	1,804	16.4	242	14.7	0	2,046	1.574	3,221	/\
|	2013	1,793	15.8	230	14.6	0	2,023	1.572	3,180	|
ACTUAL	2014	1,784	16.1	236	14.6	0	2,019	1.572	3,174	ACTUAL
PROJECTED	2015	1,793	16.1	236	14.6	0	2,028	1.571	3,187	PROJECTED
	2016	1,799	16.1	236	14.6	0	2,034	1.571	3,196	
	2017	1,805	16.1	236	14.6	0	2,040	1.571	3,205	
	2018	1,811	16.1	236	14.6	0	2,046	1.571	3,215	
	2019	1,817	16.1	236	14.6	0	2,052	1.571	3,224	
|	2020	1,827	18.1	254	14.0	0	2,080	1.572	3,270	|
\/	2025	1,860	18.1	254	14.0	0	2,113	1.571	3,321	\/
	2030	1,894	19.1	272	14.2	0	2,165	1.572	3,404	
	2035	1,927	19.1	272	14.2	0	2,198	1.572	3,455	
	2036	1,933	19.1	272	14.2	0	2,204	1.572	3,464	
	2037	1,939	19.1	272	14.2	0	2,210	1.572	3,473	
	2038	1,945	19.1	272	14.2	0	2,216	1.571	3,483	
	2039	1,951	19.1	272	14.2	0	2,222	1.571	3,492	
	2040	1,961	20.1	290	14.4	0	2,250	1.573	3,539	

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

Appendix C: Correspondences

- UWMP Public Draft Comments

Note: There were no comments received on the UWMP Public Draft.