

## **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 Dixon 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](http://www.calwater.com/conservation/uwmp). A hard copy of the draft UWMP will also be available at our Dixon Customer Center located at 201 South First Street, Dixon, CA 95620.

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](mailto:Planninginfo@calwater.com).

Sincerely,

A handwritten signature in black ink that reads "Scott Wagner".

Scott Wagner  
Director of Capital Planning & Water Resources

Council Member Bird  
Council Member  
City of Dixon  
201 South First Street  
Dixon, CA 95620  
sbird\_fordixoncitycouncil@yahoo.com

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Council Member  
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Tedhick@gmail.com

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Mayor  
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Supervisor  
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Ronald Sanford  
General Manager  
Solano County Water Agency  
810 Vaca Valley Parkway, Suite 203  
Vacaville, CA 95688  
rsanford@scwa2.com

## **Appendix C: Correspondences**

- Growth Projection Letter to Cities and Counties

## Blanusa, Danilo

---

**From:** Blanusa, Danilo  
**Sent:** Wednesday, August 19, 2015 4:46 PM  
**To:** 'Joe Leach (jleach@ci.dixon.ca.us)'  
**Cc:** Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Caldwell, Jack E.  
**Subject:** Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Dixon District  
**Attachments:** Letter to City Planning Officials - Attachmet - DIX.pdf

Tracking:	Recipient	Delivery
	'Joe Leach (jleach@ci.dixon.ca.us)'	
	Salzano, Tom	Delivered: 8/19/2015 4:46 PM
	Bolzowski, Michael R.	Delivered: 8/19/2015 4:46 PM
	Keck, Jonathan	Delivered: 8/19/2015 4:46 PM
	Caldwell, Jack E.	Delivered: 8/19/2015 4:46 PM

Dear Mr. Leach,

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 Dixon District provides water service to the City of Dixon.

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 11, 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](mailto:tsalzano@calwater.com).

Thank you for your assistance in this effort.

Respectfully,

*Thomas A. Salzano*

Thomas A. Salzano  
Water Resource Planning Supervisor

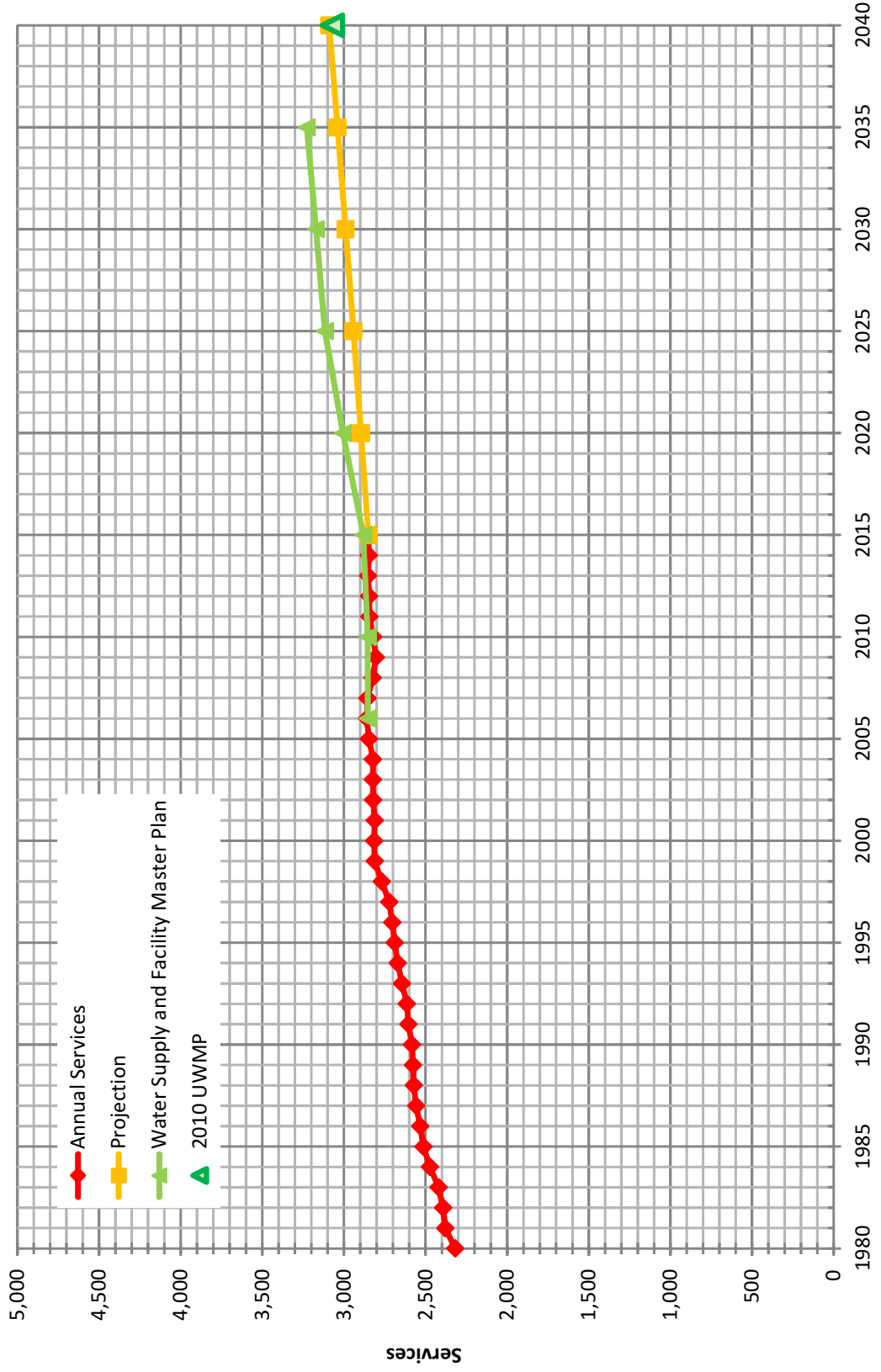
**Danilo Blanusa, P.E.**  
Senior Engineer  
CALIFORNIA WATER SERVICE  
408-367-8387



**Quality. Service. Value.**  
[calwater.com](http://calwater.com)



# Historical & Projected Services



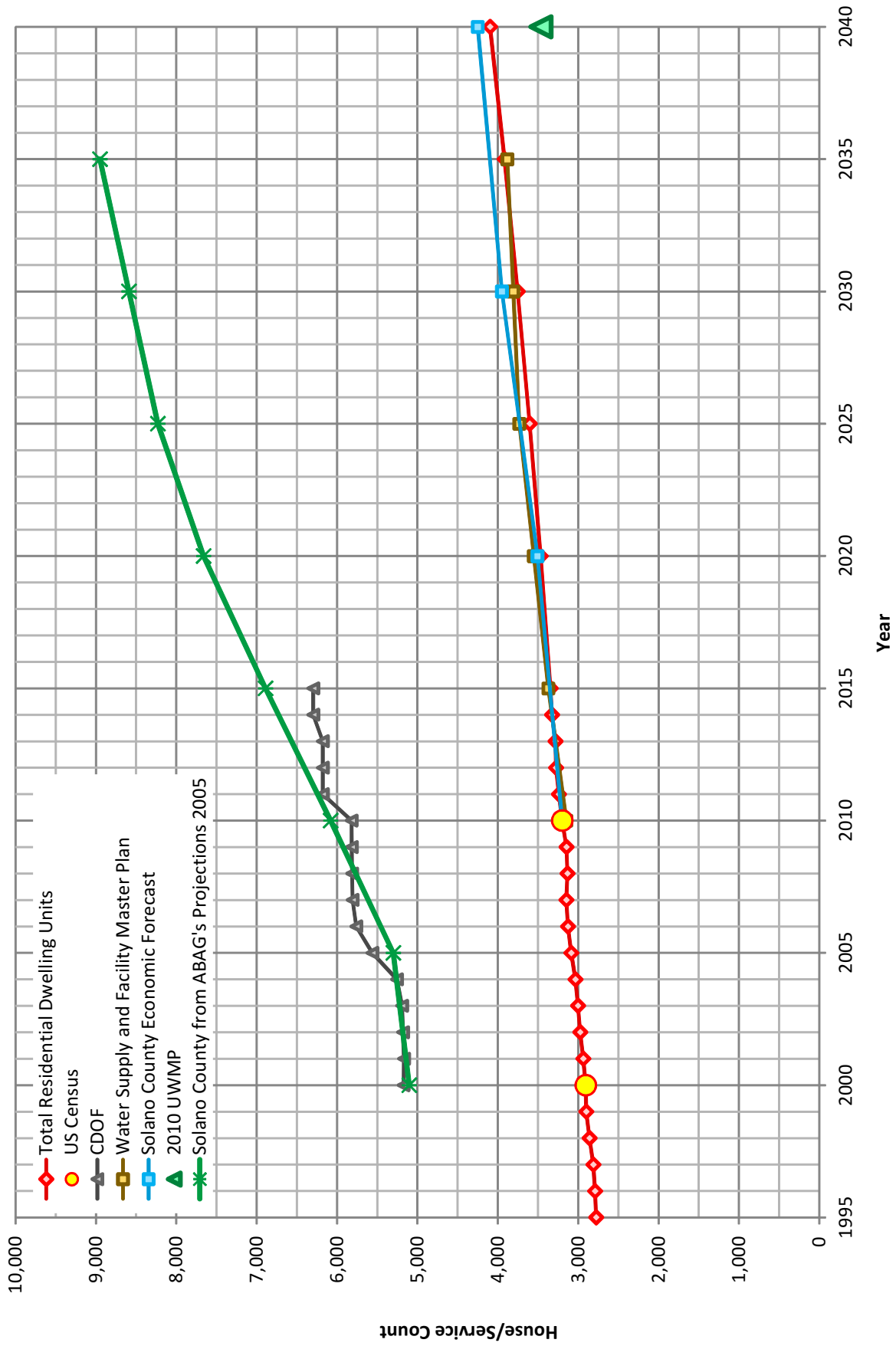
Attachment A (Sheet 2 of 2)

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

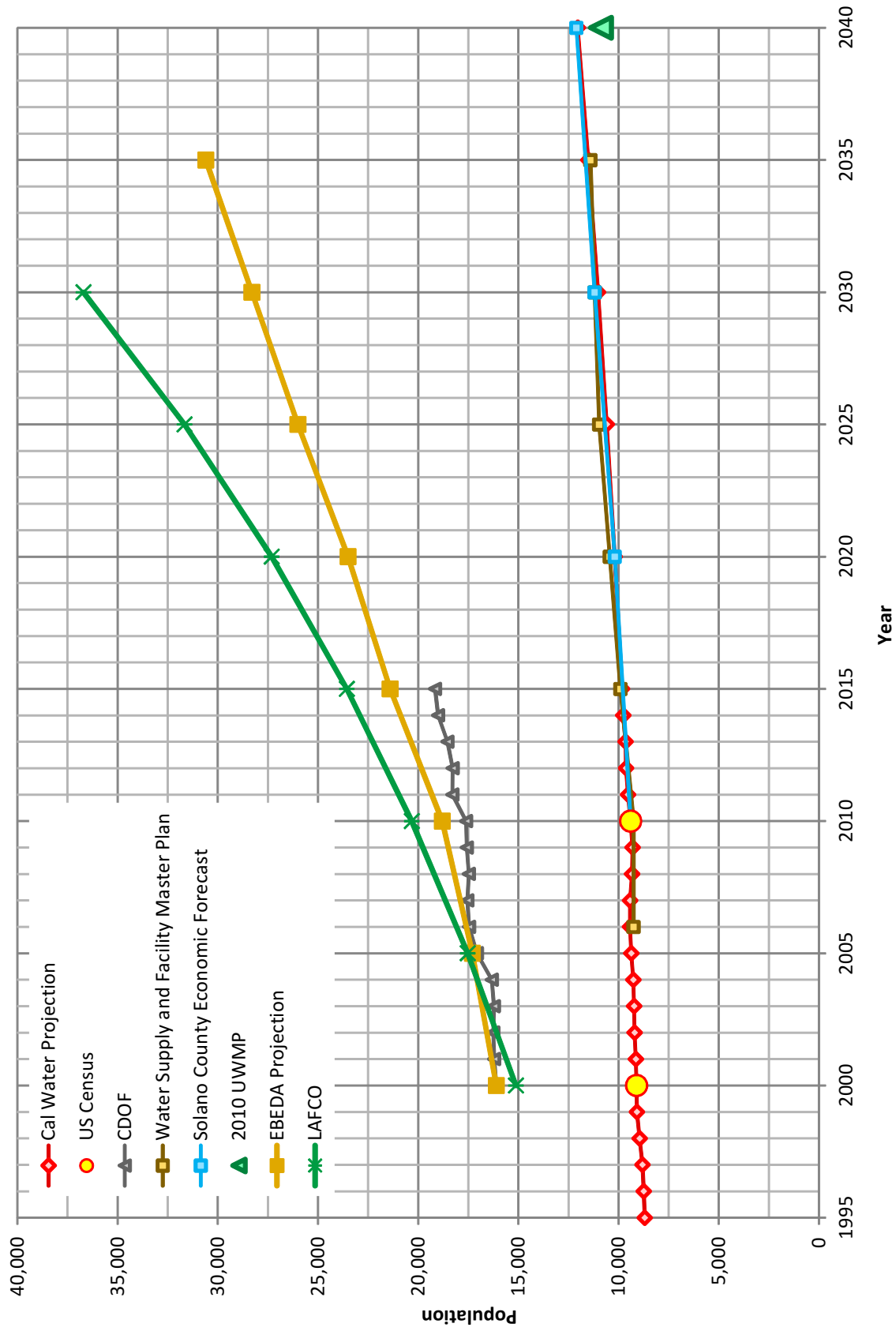
Customer Category	Selected Trend	Growth Rate	Actual Services					Projected Services							
			2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040			
SFR	SFR_E 20 Yr. Avg.	0.26%	2,635	2,657	2,611	2,636	2,636	2,670	2,705	2,740	2,775	2,811			
MFR	MFR_C 10 Yr. Avg.	2.41%	17	17	15	25	25	28	32	36	40	45			
COM	COM_E 20 Yr. Avg.	0.71%	136	137	156	157	157	163	168	175	181	187			
IND	IND_A Zero Growth Rate	0.00%	4	4	3	3	3	3	3	3	3	3			
GOV	GOV_D 15 Yr. Avg.	1.62%	23	24	36	28	28	30	33	35	38	41			
OTH	OTH_A Zero Growth Rate	0.00%	0	3	0	0	0	0	0	0	0	0			
IRR	IRR_A Zero Growth Rate	0.00%	0	5	1	1	1	1	1	1	1	1			
TOTAL	Average growth rate 2011-2040	0.32%	2,815	2,847	2,821	2,849	2,850	2,895	2,942	2,990	3,039	3,090			



# Housing Projections



# Population Projections



## California Water Service Company - Dixon 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 Services (DU)
	Population	Housing Units		Residential Services (DU)	Unit Density	Residential Units (DU)	Unit Density	
2000	9,102	2,906	3.132	2,635	17	271	16.0	0
2010	9,401	3,199	2.939	2,611	15	589	40.4	0
	3.3%	10.1%	-6.2%	-0.9%	-13.8%	117.4%	152.2%	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
	Residential Services (DU)	Unit Density	Services	Residential Units (DU)				
1995	2,505	16.0	17	272	0	2,777	3.132	8,697
1996	2,519	16.0	17	272	0	2,791	3.132	8,742
1997	2,539	16.0	17	272	0	2,811	3.132	8,806
1998	2,587	16.0	17	272	0	2,859	3.132	8,955
1999	2,628	16.0	17	272	0	2,900	3.132	9,084
2000	2,635	16.0	17	271	0	2,906	3.132	9,102
2001	2,634	17.8	17	302	0	2,936	3.113	9,141
2002	2,640	19.7	17	334	0	2,974	3.093	9,201
2003	2,637	21.5	17	366	0	3,003	3.074	9,232
2004	2,636	23.4	17	398	0	3,034	3.055	9,268
2005	2,657	25.3	17	430	0	3,087	3.035	9,370
2006	2,667	27.1	17	461	0	3,128	3.016	9,434
2007	2,654	30.2	16	493	0	3,147	2.997	9,430
2008	2,609	26.9	20	525	0	3,134	2.977	9,332
2009	2,589	26.5	21	557	0	3,146	2.958	9,305
2010	2,611	40.4	15	589	0	3,199	2.939	9,401
2011	2,620	28.2	22	620	0	3,241	2.939	9,523
2012	2,623	28.4	23	652	0	3,275	2.939	9,624
2013	2,632	28.4	23	652	0	3,284	2.939	9,650
2014	2,631	28.4	25	695	0	3,326	2.939	9,774
2015	2,636	28.4	25	709	0	3,345	2.939	9,829
2020	2,670	28.4	28	798	0	3,468	2.939	10,193
2025	2,705	28.4	32	899	0	3,604	2.939	10,591
2030	2,740	28.4	36	1,013	0	3,753	2.939	11,029
2035	2,775	28.4	40	1,141	0	3,917	2.939	11,510
2040	2,811	28.4	45	1,286	0	4,097	2.939	12,040

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ACTUAL  
PROJECTED

Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2012 due to reclassification, after which a constant MFR Unit Density is used.

## Blanusa, Danilo

---

**From:** Blanusa, Danilo  
**Sent:** Monday, August 24, 2015 2:21 PM  
**To:** 'Matt Tuggle (mrtuggle@solanocounty.com)'  
**Cc:** Salzano, Tom; Bolzowski, Michael R.; Keck, Jonathan; Caldwell, Jack E.  
**Subject:** Cal Water Urban Water Management Plan (UWMP) growth forecast for your review - Dixon District  
**Attachments:** Letter to City Planning Officials - Attachmet - DIX.PDF

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	'Matt Tuggle (mrtuggle@solanocounty.com)'	
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	Caldwell, Jack E.	Delivered: 8/24/2015 2:21 PM

Dear Mr. Tuggle,

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Respectfully,

*Thomas A. Salzano*

Thomas A. Salzano  
Water Resource Planning Supervisor

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

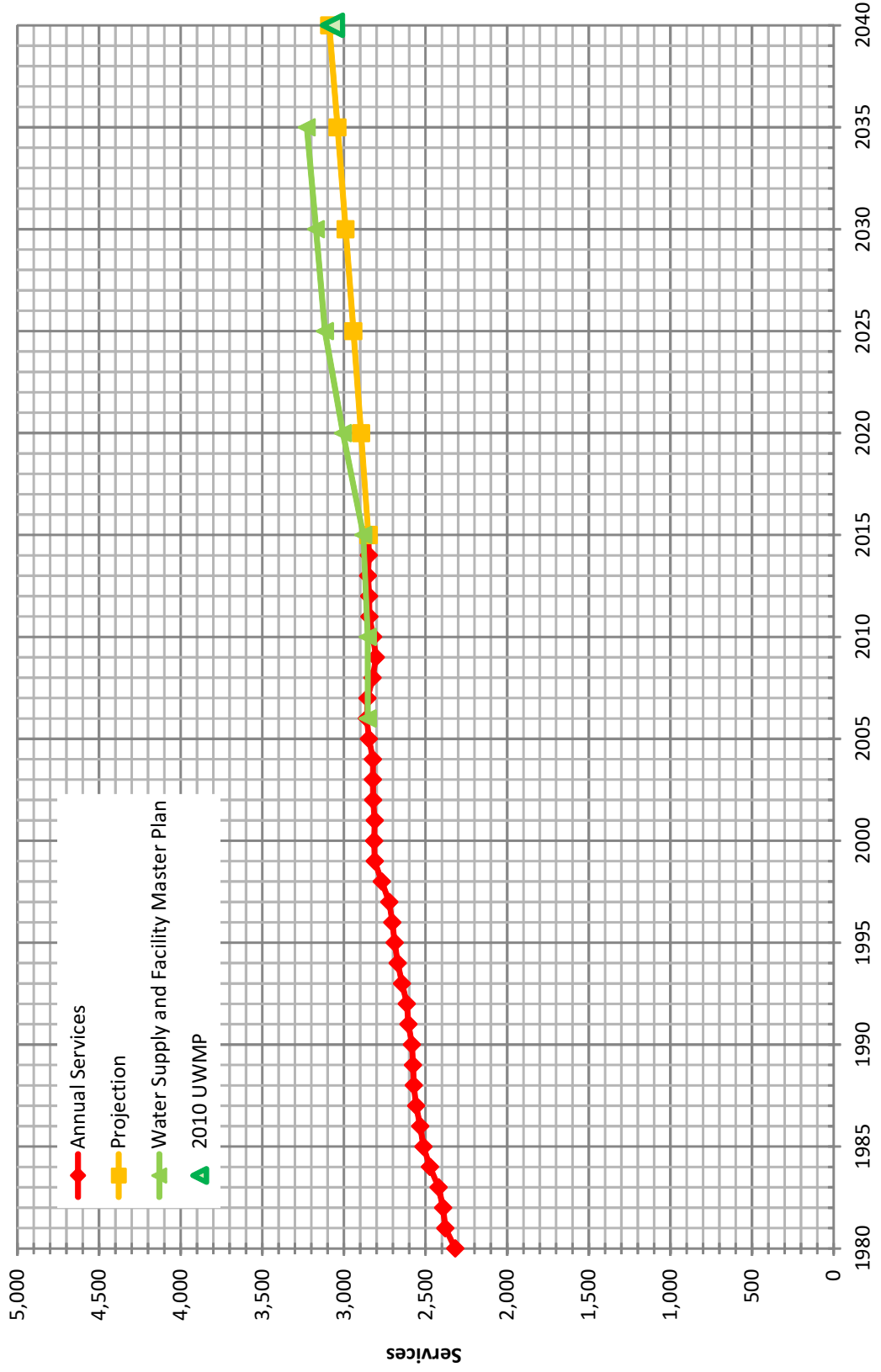




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# Historical & Projected Services

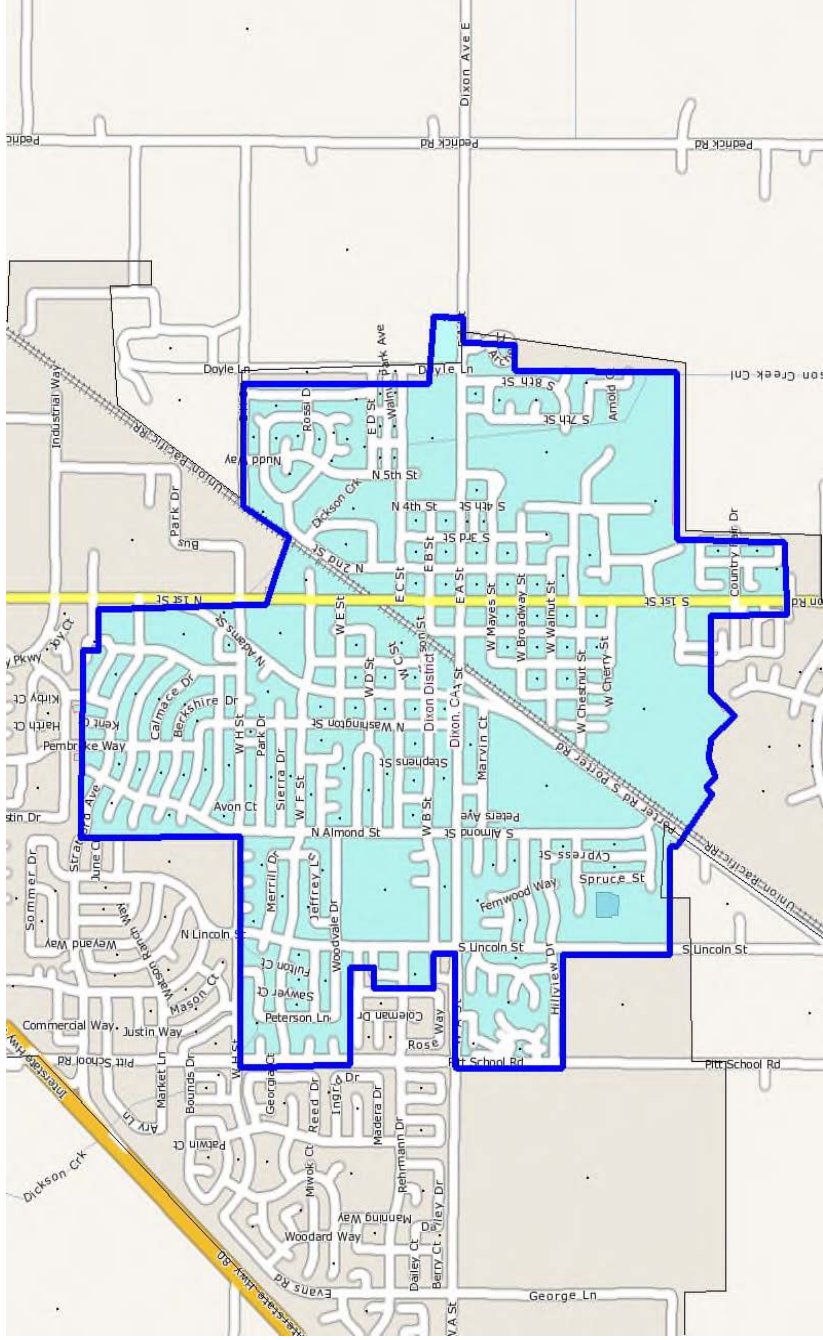


Attachment A (Sheet 2 of 2)

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

Customer Category	Selected Trend	Growth Rate	Actual Services					Base Year	Projected Services						
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IRR	IRR_A Zero Growth Rate	0.00%	0	5	1	1	1	1	1	1	1	1			
TOTAL	Average growth rate 2011-2040	0.32%	2,815	2,847	2,821	2,849	2,849	2,850	2,895	2,942	2,990	3,039	3,090		

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

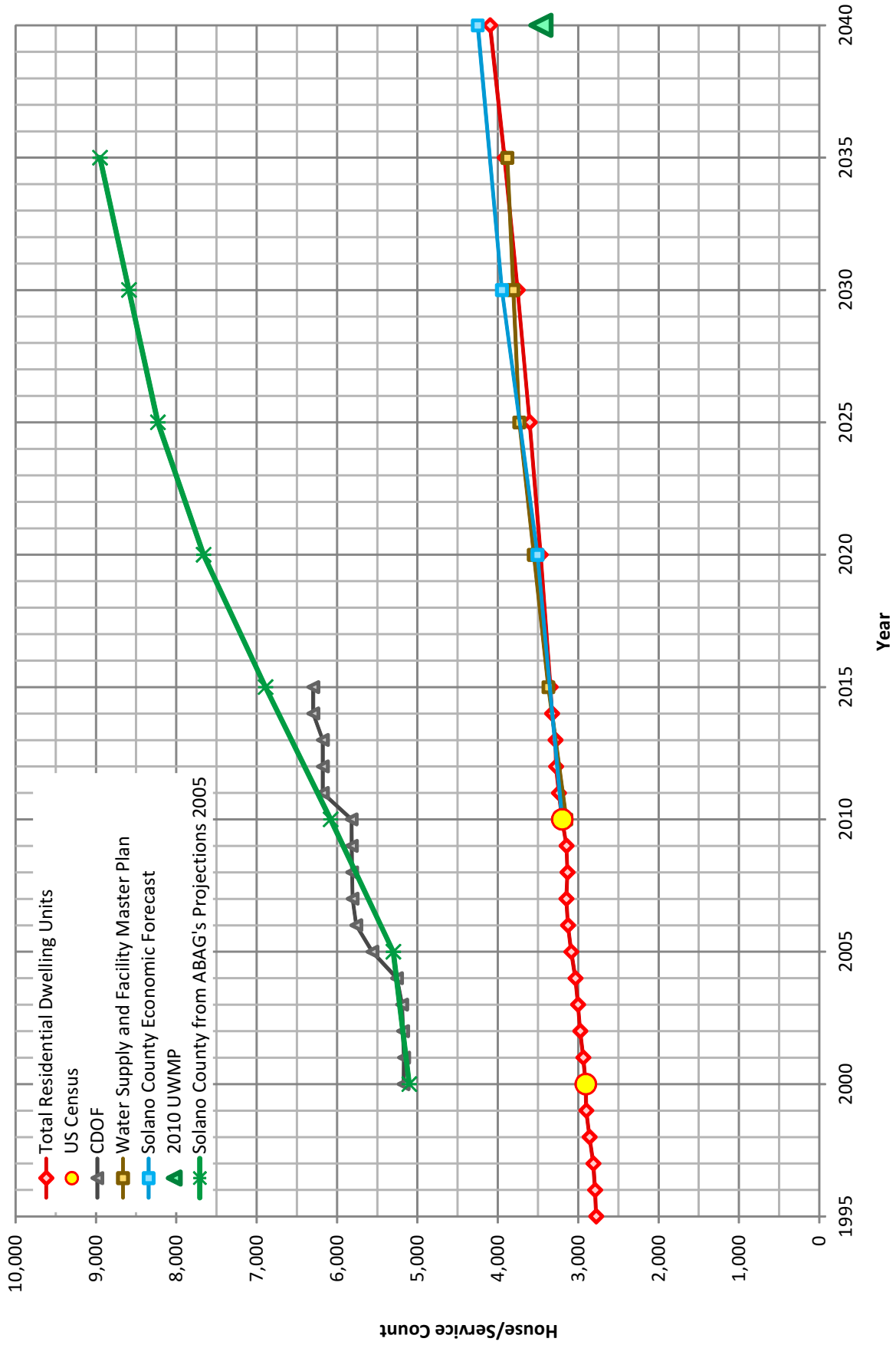


System	US Census 2000 Summary			US Census 2010 Summary			2000-2010 Change		
	Census Tract Blocks	Housing Units (HU)	Density	Census Tract Blocks	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change
Dixon	118	2,906	3.13	141	3,199	2.94	103.3%	110.1%	93.8%
	118	2,906	3.13	141	3,199	2.94	103.3%	110.1%	93.8%

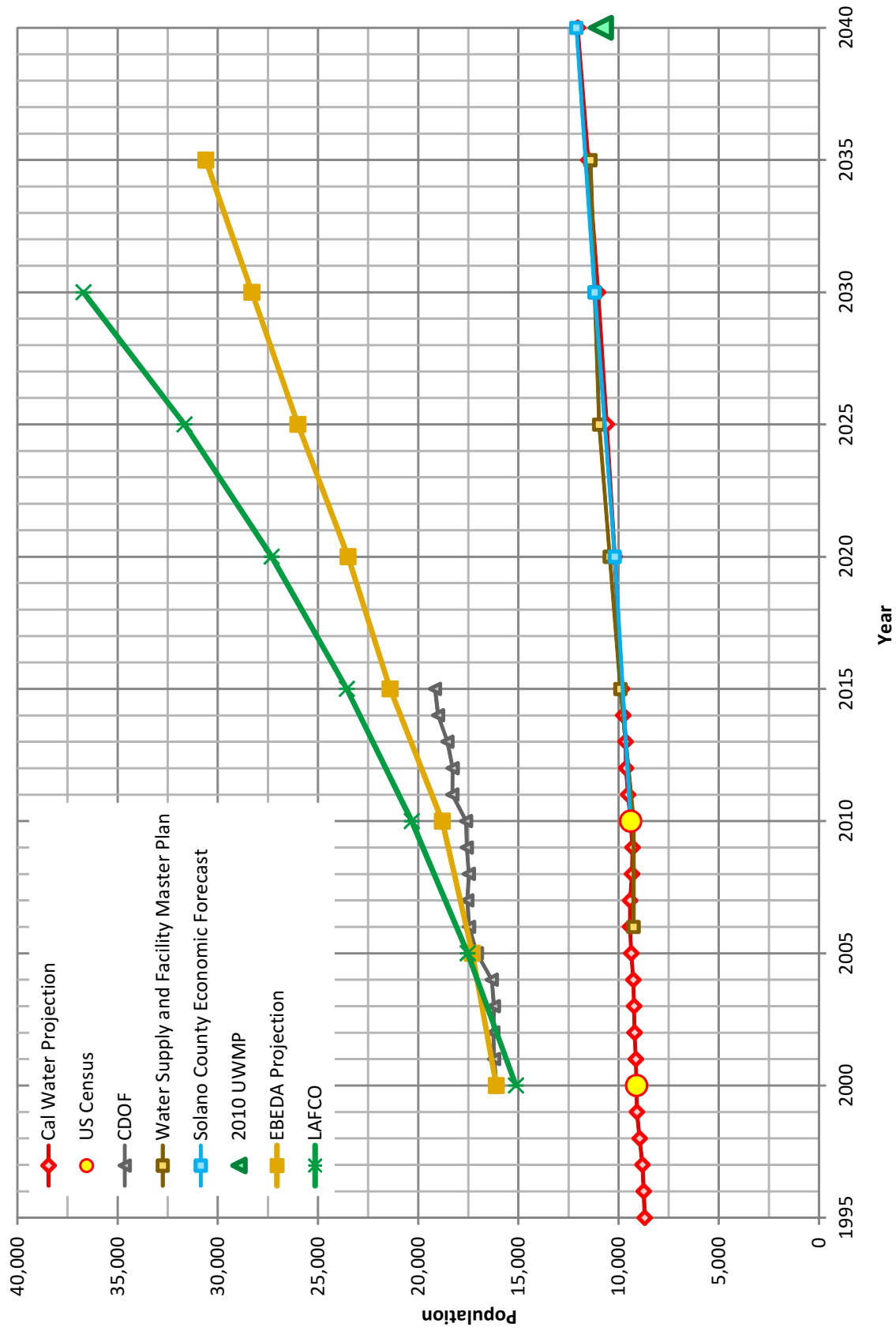
City of Dixon				231	18,364	6.177			2.97
CWS % of City					51.2%	51.8%			

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 - Dixon 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 Services (DU)
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2025	2,705	28.4	32	899	0	3,604	2.939	10,591
2030	2,740	28.4	36	1,013	0	3,753	2.939	11,029
2035	2,775	28.4	40	1,141	0	3,917	2.939	11,510
2040	2,811	28.4	45	1,286	0	4,097	2.939	12,040

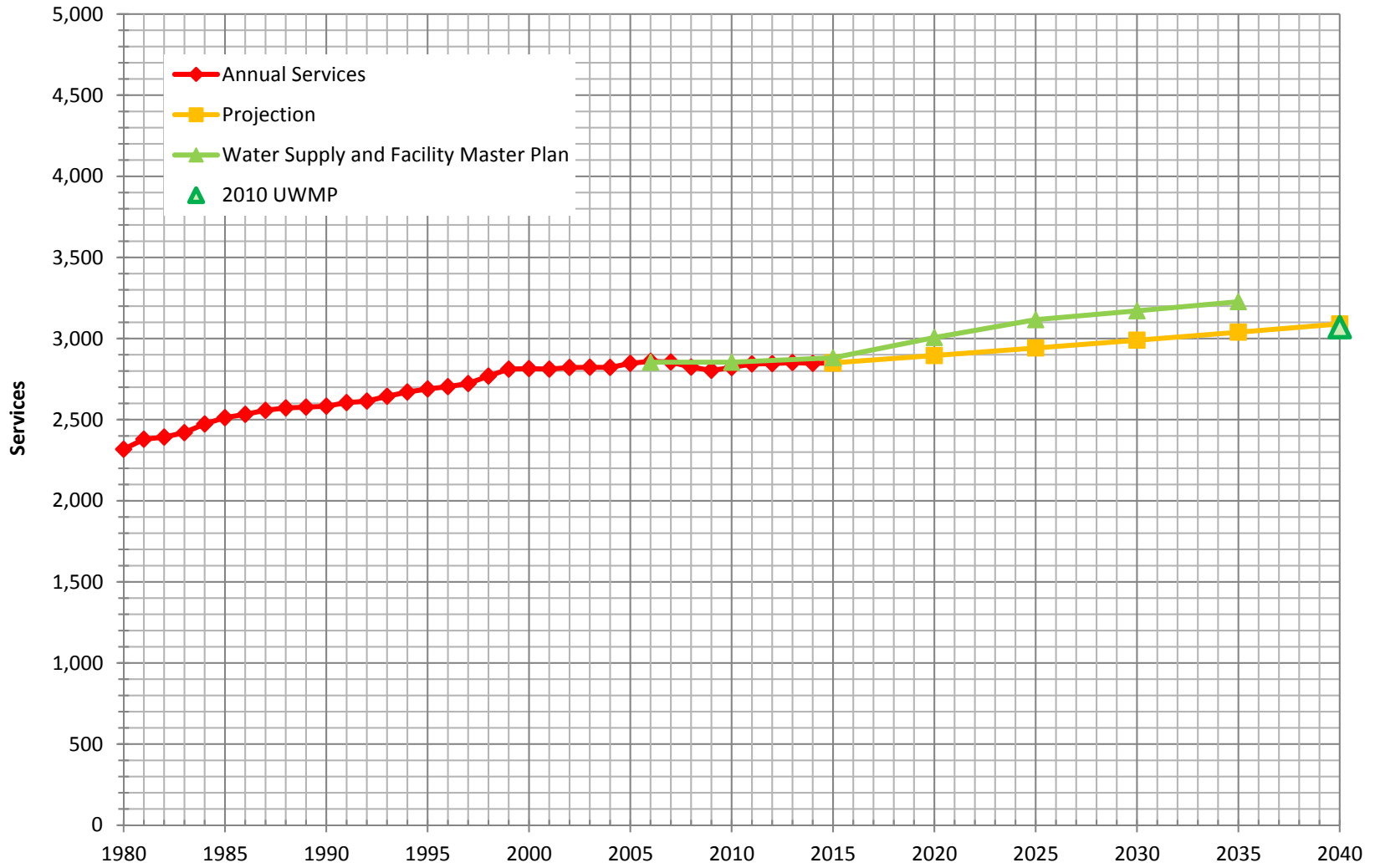
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Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2012 due to reclassification, after which a constant MFR Unit Density is used.

### Historical & Projected Services

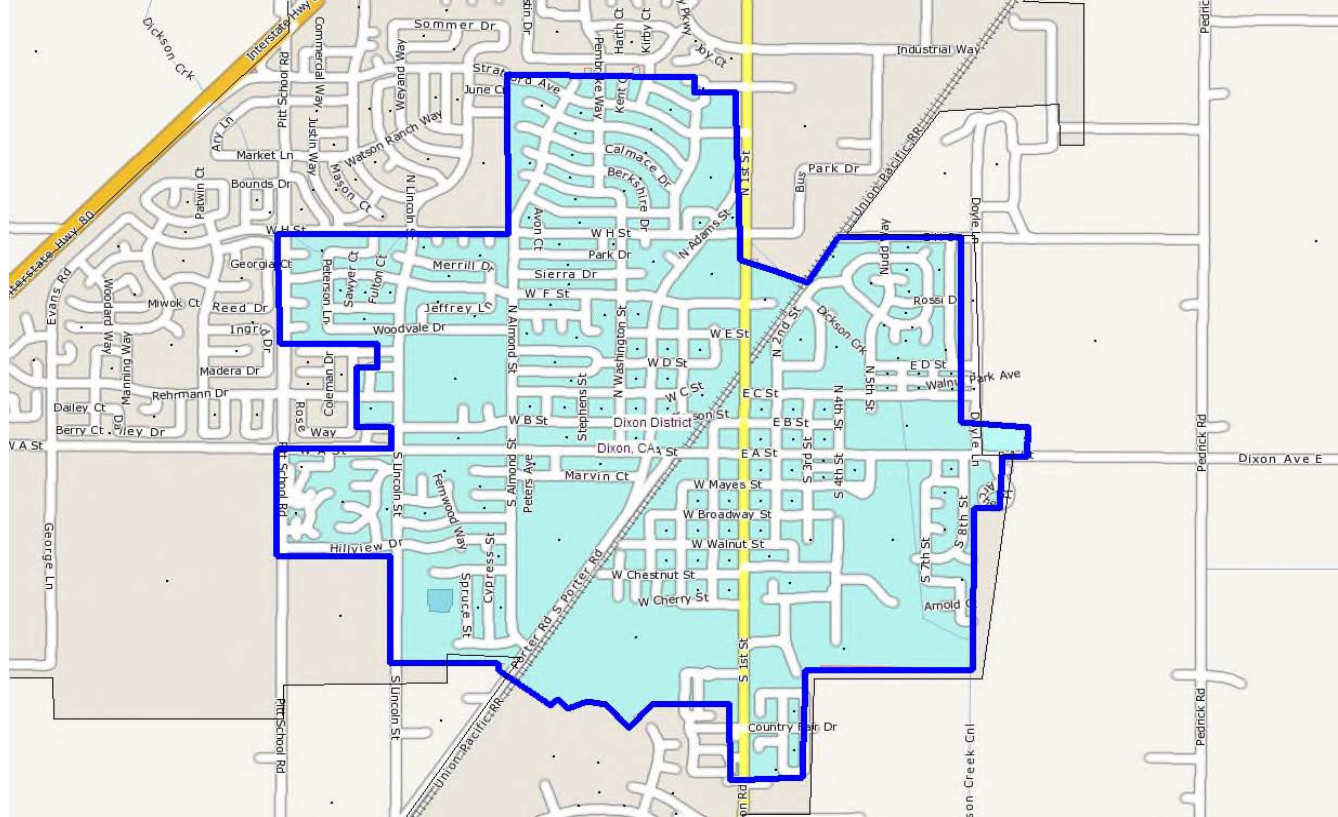




**California Water Service Company - Dixon District  
Water Supply and Demand Analysis and Projections**

Customer Category		Selected Trend	Growth Rate	Actual Services				Projected Services					
				2000	2005	2010	Base Year 2015	2015	2020	2025	2030	2035	2040
SFR	SFR_E	20 Yr. Avg.	0.26%	2,635	2,657	2,611	2,636	2,636	2,670	2,705	2,740	2,775	2,811
MFR	MFR_C	10 Yr. Avg.	2.41%	17	17	15	25	25	28	32	36	40	45
COM	COM_E	20 Yr. Avg.	0.71%	136	137	156	157	157	163	168	175	181	187
IND	IND_A	Zero Growth Rate	0.00%	4	4	3	3	3	3	3	3	3	3
GOV	GOV_D	15 Yr. Avg.	1.62%	23	24	36	28	28	30	33	35	38	41
OTH	OTH_A	Zero Growth Rate	0.00%	0	3	0	0	0	0	0	0	0	0
IRR	IRR_A	Zero Growth Rate	0.00%	0	5	1	1	1	1	1	1	1	1
TOTAL		Average growth rate 2011-2040	0.32%	2,815	2,847	2,821	2,849	2,850	2,895	2,942	2,990	3,039	3,090

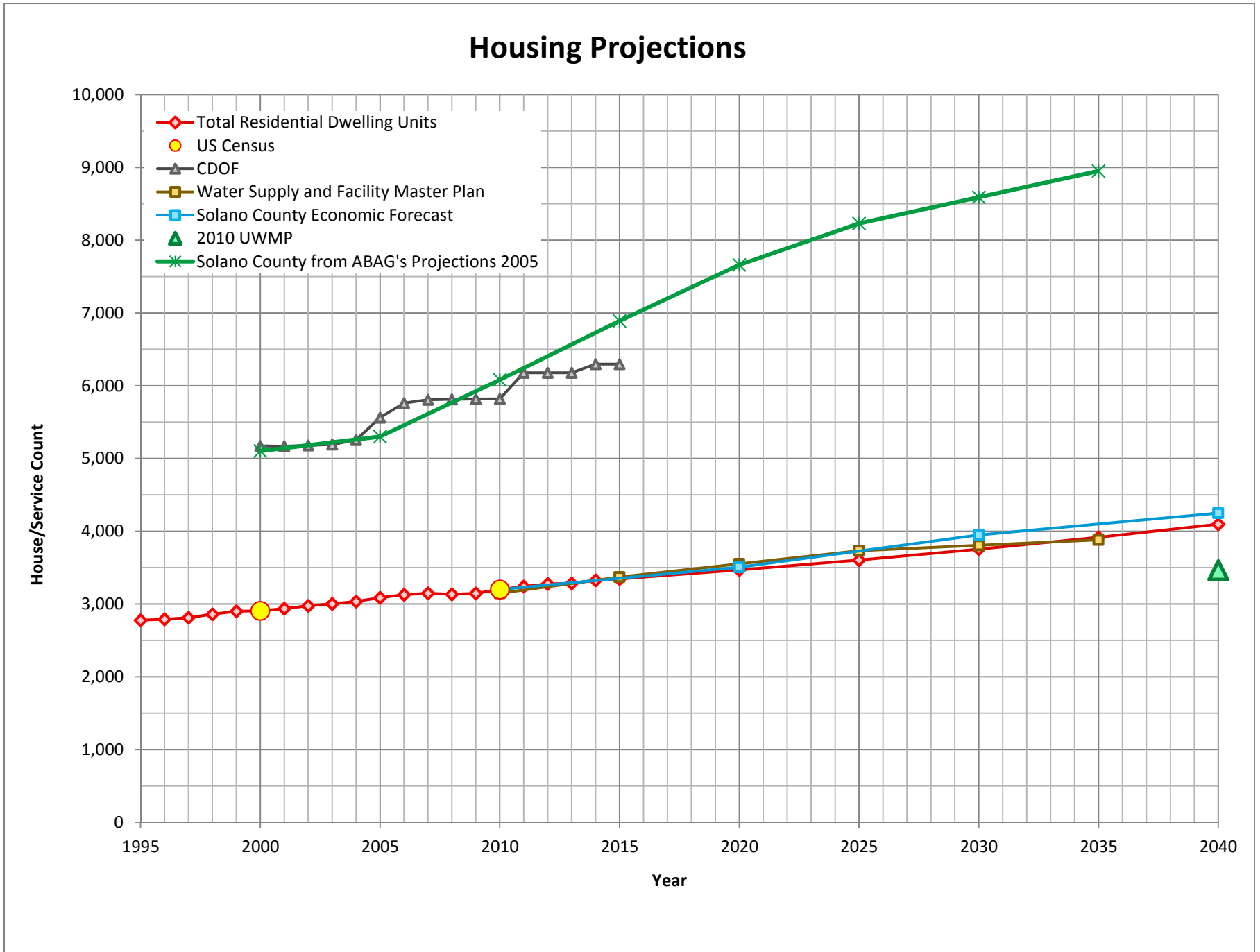
**California Water Service Company - Dixon District**  
**Water Supply and Demand Analysis and Projections**  
**MarPlot Summary**

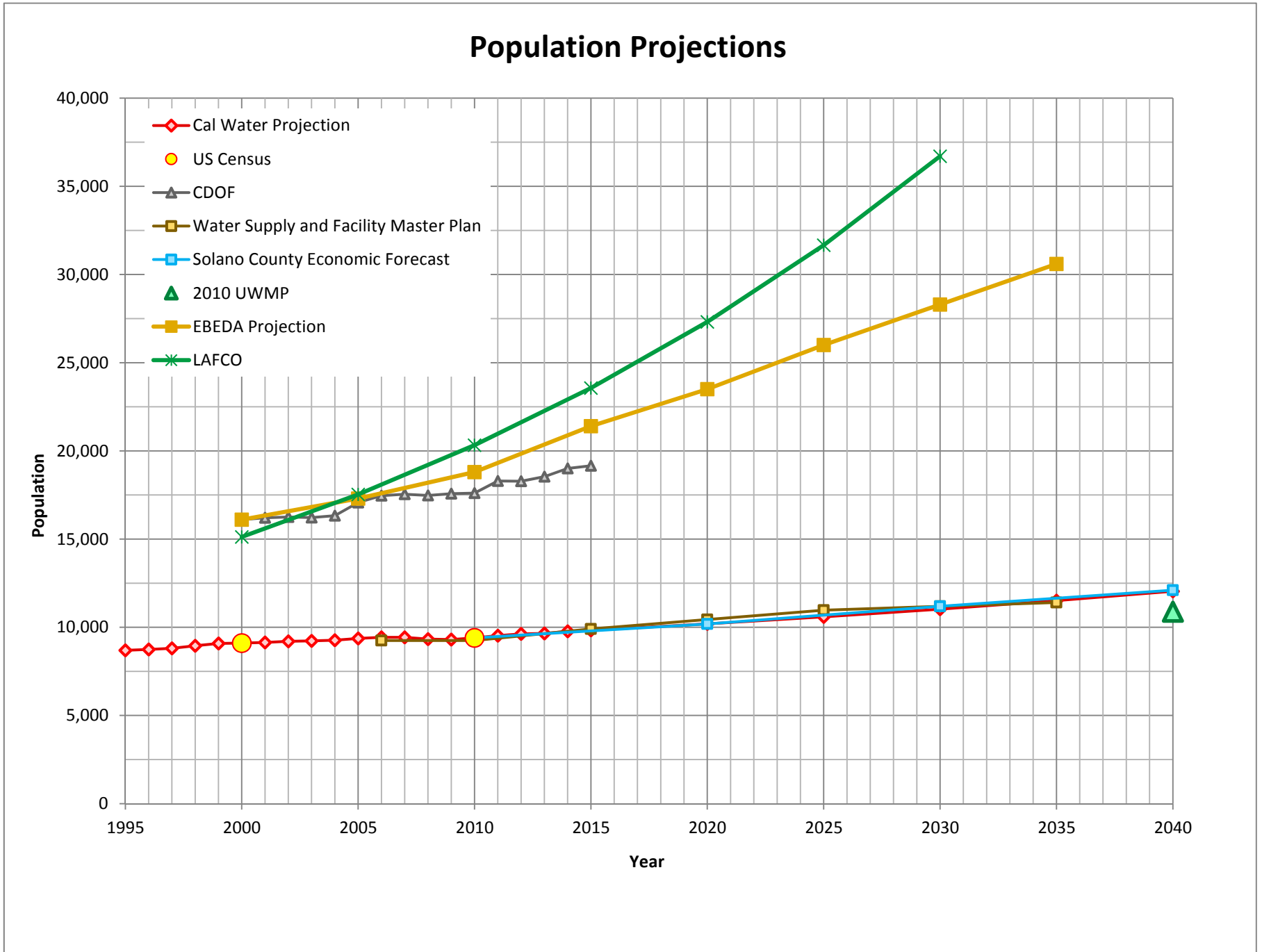


System	US Census 2000 Summary				US Census 2010 Summary				2000-2010 Change		
	Census Tract Blocks	Population	Housing Units (HU)	Density	Census Tract Blocks	Population	Housing Units (HU)	Density	Percentage Population Change	Percentage HU Change	Density Change
Dixon	118	9,102	2,906	3.13	141	9,401	3,199	2.94	103.3%	110.1%	93.8%
	118	9,102	2,906	3.13	141	9,401	3,199	2.94	103.3%	110.1%	93.8%

City of Dixon					231	18,364	6,177	2.97			
CWS % of City						51.2%	51.8%				

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.





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

Year	US Census		Persons per Housing Unit	Single Family Residential	Multi Family Residential			Flat Rate Residential
	Population	Housing Units		Services (DU)	Services	Units (DU)	Unit Density	Services (DU)
2000	9,102	2,906	3.132	2,635	17	271	16.0	0
2010	9,401	3,199	2.939	2,611	15	589	40.4	0
	3.3%	10.1%	-6.2%	-0.9%	-13.8%	117.4%	152.2%	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	2,505	17	272	16.0	0	2,777	3.132	8,697
1996	2,519	17	272	16.0	0	2,791	3.132	8,742
1997	2,539	17	272	16.0	0	2,811	3.132	8,806
1998	2,587	17	272	16.0	0	2,859	3.132	8,955
1999	2,628	17	272	16.0	0	2,900	3.132	9,084
2000	2,635	17	271	16.0	0	2,906	3.132	9,102
2001	2,634	17	302	17.8	0	2,936	3.113	9,141
2002	2,640	17	334	19.7	0	2,974	3.093	9,201
2003	2,637	17	366	21.5	0	3,003	3.074	9,232
2004	2,636	17	398	23.4	0	3,034	3.055	9,268
2005	2,657	17	430	25.3	0	3,087	3.035	9,370
2006	2,667	17	461	27.1	0	3,128	3.016	9,434
2007	2,654	16	493	30.2	0	3,147	2.997	9,430
2008	2,609	20	525	26.9	0	3,134	2.977	9,332
2009	2,589	21	557	26.5	0	3,146	2.958	9,305
2010	2,611	15	589	40.4	0	3,199	2.939	9,401
2011	2,620	22	620	28.2	0	3,241	2.939	9,523
2012	2,623	23	652	28.4	0	3,275	2.939	9,624
2013	2,632	23	652	28.4	0	3,284	2.939	9,650
2014	2,631	25	695	28.4	0	3,326	2.939	9,774
2015	2,636	25	709	28.4	0	3,345	2.939	9,829
2020	2,670	28	798	28.4	0	3,468	2.939	10,193
2025	2,705	32	899	28.4	0	3,604	2.939	10,591
2030	2,740	36	1,013	28.4	0	3,753	2.939	11,029
2035	2,775	40	1,141	28.4	0	3,917	2.939	11,510
2040	2,811	45	1,286	28.4	0	4,097	2.939	12,040

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Notes: linear extrapolation used to estimated MFR-DU from 2000. Estimate extend until 2012 due to reclassification, afterwhich 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.