

## CHAPTER TWO – SERVICE AREA

The City’s existing water facilities, and the recent history of their development, are described in Section 1.2 of Chapter One of this Plan.

### 2.1 Location

The City of Exeter is located in Tulare County approximately 180 miles north of Los Angeles and 240 miles southeast of San Francisco. The City is situated south of the intersection of State Highway 198 and State Highway 65 (see Figure 2.1-1).

### 2.2 Climate

The climate of the Exeter area is characteristic of that of the Southern San Joaquin Valley. The summer climate is hot and dry, while winters are cool and periodically humid. Historical climate records for the City of Exeter provide a hundred year average annual rainfall of 11 inches. For other most recent climatic data, we are referring to National Oceanic and Atmospheric Administration’s (NOAA) weather station data in the city of Lindsay (See Appendix N). This is the closest NOAA weather station to Exeter and should provide similar climatic data. The mean daily maximum temperatures range from a low of approximately 46.0 degrees F in December and January to a high of about 79.4 degrees F in July. Rainfall is generally concentrated during the six months from November to April. The wettest month is March with an average rainfall of 2.57 inches. December and January typically experience heavy fog, mostly nocturnal, caused when moist cool air is trapped in the valley by high pressure systems. In extreme cases, this fog may last continuously for two or three weeks. The fog depth is usually less than 3,000 feet.

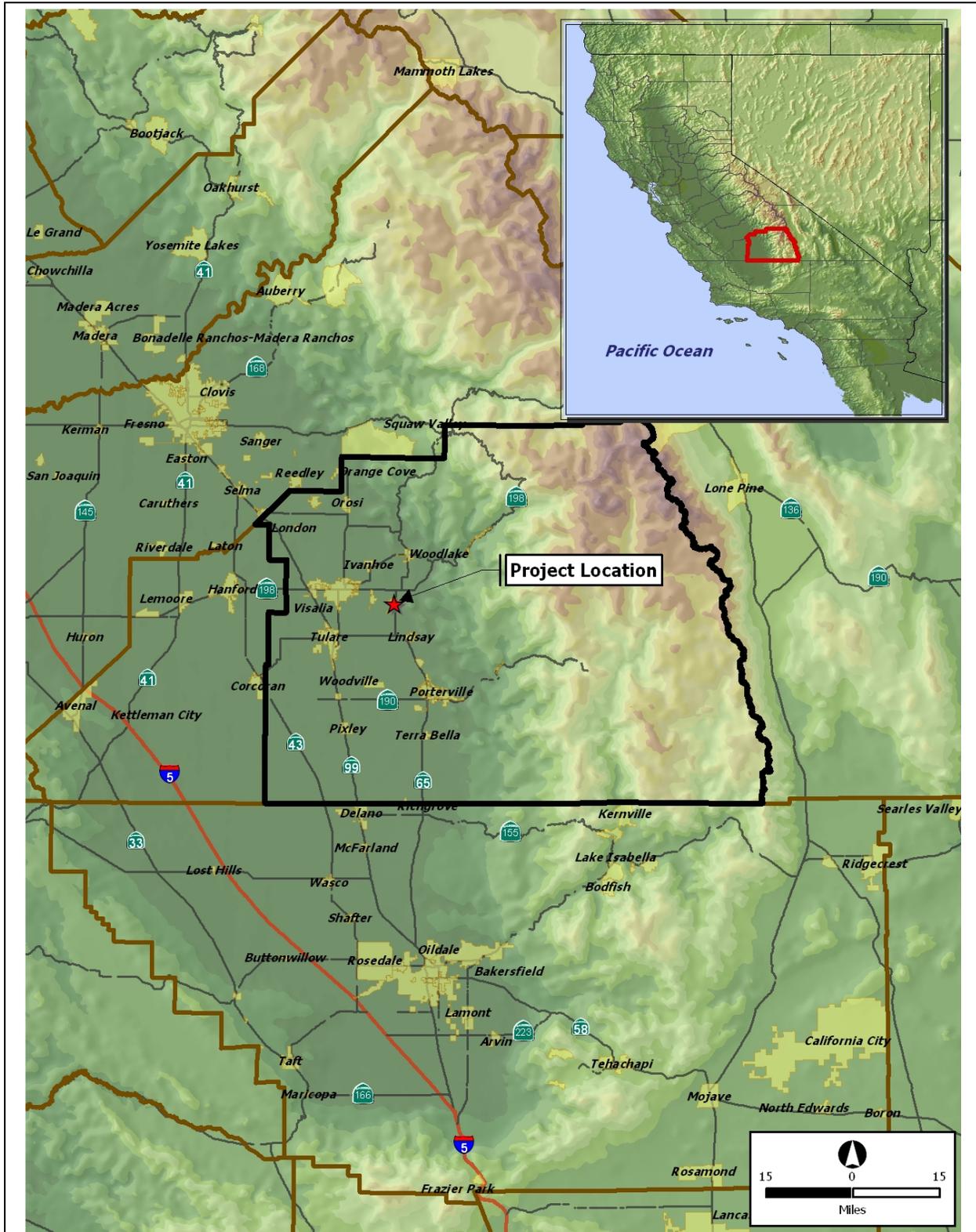
The Valley area is subject to characteristic seasonal air flows. During the summer, air currents from the Pacific Ocean enter the Valley through the San Francisco Bay and Delta region and are forced down the valley. These air movements are primarily to the southeast at velocities of six to ten miles per hour. During the winter, cold air flowing off the surrounding mountains results in currents toward the northwest at velocities ranging from zero to five miles per hour. These airflows result in extensive horizontal mixing of air masses in the Valley. However, vertical dispersion is constrained by temperature inversions, an increase in air temperature in a stable atmospheric layer, which may occur throughout the year. [Checklist #9, §10631(a)]

Climatic data pertinent to system operation and design are summarized as follows:

**Table 2.2-1  
Climate**

	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>June</b>	
Average Precipitation (inches)	2.44	2.25	2.57	0.90	0.41	0.13	
Average Temperature (Fahrenheit)	47.0	51.8	55.8	61.0	67.8	74.6	
	<b>July</b>	<b>Aug</b>	<b>Sept</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Annual</b>
Average Precipitation (inches)	0.00	0.02	0.34	0.66	1.33	1.45	12.51
Average Temperature (Fahrenheit)	79.4	78.0	73.0	64.0	52.7	46.0	62.6

Reference: NOAA, Lindsay weather station, 9.0 miles SE of Exeter, 30 year Averages from 1971-2000



REGIONAL LOCATION

Figure 2.1-1

### **2.3 Land Use**

The Land Use Element of the City's General Plan depicts the Urban Development Boundary Line and the Urban Area Boundary Line for the community. This map is included in Appendix B. In 2005 the City adopted the Southwest Exeter Specific Plan which redefined the Urban Development Boundary Line. A map showing the updates to the General Plan, based on the Southwest Exeter Specific Plan and other growth areas, is included in Appendix C and is referred to as the Growth Constraints Map.

It is evident from the inspection of the Land Use Element from the 2020 General Plan, the 2025 Southwest Specific Plan and other growth areas that:

- a) There are only 60 acres inside the 10-year annexation line.
- b) The developable area within the adopted urban development boundary, approximately 425 acres, can accommodate growth for another ten years.
- c) With limitations still persistent with respect to agricultural preserves, the location of development within the urban area boundary line is difficult to predict.

In view of the above, the Water System Master Plan will be designed to:

- a) Serve future growth to the Southwest within the existing City Limits
- b) Serve future growth to the Northwest within the existing City Limits.
- c) Serve future growth within the "in-fill" area within the existing City Limits.
- d) Serve the City to 2020 and accommodate approximately 12,450 people.

## 2.4 Projected Population

Based on the Southwest Specific Plan and other growth areas in the community, the following numbers were projected by the City in 2005:

Year	Table 2.4-1 City Developed Population Projections		Table 2.4-2 City Developed Population Projections	
	Population (1.88% growth rate)	Population (2.88% growth rate)	Actual Population (US Census Bureau)*	2010 Projections (1.88% growth rate)
2000	9,168	9,168	9,185	-
2001	9,340	9,432	9,278	-
2002	9,516	9,704	9,424	-
2003	9,695	9,983	9,600	-
2004	9,877	10,271	9,681	-
2005	10,063	10,566	9,788	-
2006	10,252	10,871	9,904	-
2007	10,445	11,184	9,873	-
2008	10,641	11,506	9,875	-
2009	10,841	11,837	9,973	-
2010	11,045	12,178	10,334	-
2011	11,253	12,529	-	10,528
2012	11,464	12,890	-	10,726
2013	11,680	13,261	-	10,928
2014	11,899	13,643	-	11,133
2015	12,123	14,036	-	11,343
2016	12,351	14,440	-	11,556
2017	12,583	14,856	-	11,773
2018	12,820	15,284	-	11,994
2019	13,061	15,724	-	12,220
2020	13,306	16,177	-	12,450
2021	13,556	16,643	-	12,684
2022	13,811	17,122	-	12,922
2023	14,071	17,615	-	13,165
2024	14,335	18,123	-	13,413
2025	14,605	18,645	-	13,665
2026	14,879	19,182	-	13,922
2027	15,159	19,734	-	14,183
2028	15,444	20,302	-	14,450
2029	15,734	20,887	-	14,722
2030	16,030	21,489	-	14,988
2035	17,595	24,766	-	16,462
2040	19,312	28,544	-	18,069

\* Reference: US Census Bureau Data based on 2009 Population Estimates Data Set, 04/06/2009, Populations for 2000 & 2010 from U.S. Census Bureau Counts during those respective years.

The population in 2009 was 9,973 showing a slower rate of growth compared to the projected numbers from the 2005 Southwest Specific plan (See Table 2.4-1). In December of 2007, the US economy slid into a recession altering the value of homes and ultimately the projected growth rates of the area. For the 10-year period between the years 2000 and 2009, Exeter's estimated population growth rate has not exceeded a growth rate of 1.88%. Additionally, if you take the actual census populations from 2000 and 2010, you find the average growth rate of 1.18% over the ten year

period. For the purposes of this report and future planning, we conservatively estimate the population growth using the lower previously projected growth rate starting at the census population count from 2010. (See Table 2.4-2) [Checklist #11, §10631(a)]

## 2.5 Service Area Boundaries

The City of Exeter’s water system serves only the incorporated area of the City. The City does not sell water to any other agencies nor to any water users outside the City’s corporate limits. (See Figure 2.5-1) [Checklist #8, §10631(a)]

## 2.6 Service Area Demographics

The City provides water to the residents living and business operating within the City’s corporate limits. A breakdown of the City of Exeter’s demographics is provided below. [Checklist #12, §10631(a)]

### CA - Exeter city

#### Population

Total Population	10,334
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#### Housing Status ( in housing units unless noted )

Total	3,600
Occupied	3,378
Owner-occupied	2,036
Population in owner-occupied ( number of individuals )	6,111
Renter-occupied	1,342
Population in renter-occupied ( number of individuals )	4,150
Households with individuals under 18	1,394
Vacant	222
Vacant: for rent	91
Vacant: for sale	71
Vacant: for seasonal/recreational/occasional use	10

#### Population by Sex/Age

Male	5,020
Female	5,314
Under 18	3,285
18 & over	7,049
20 - 24	720
25 - 34	1,353
35 - 49	1,846
50 - 64	1,642
65 & over	1,188

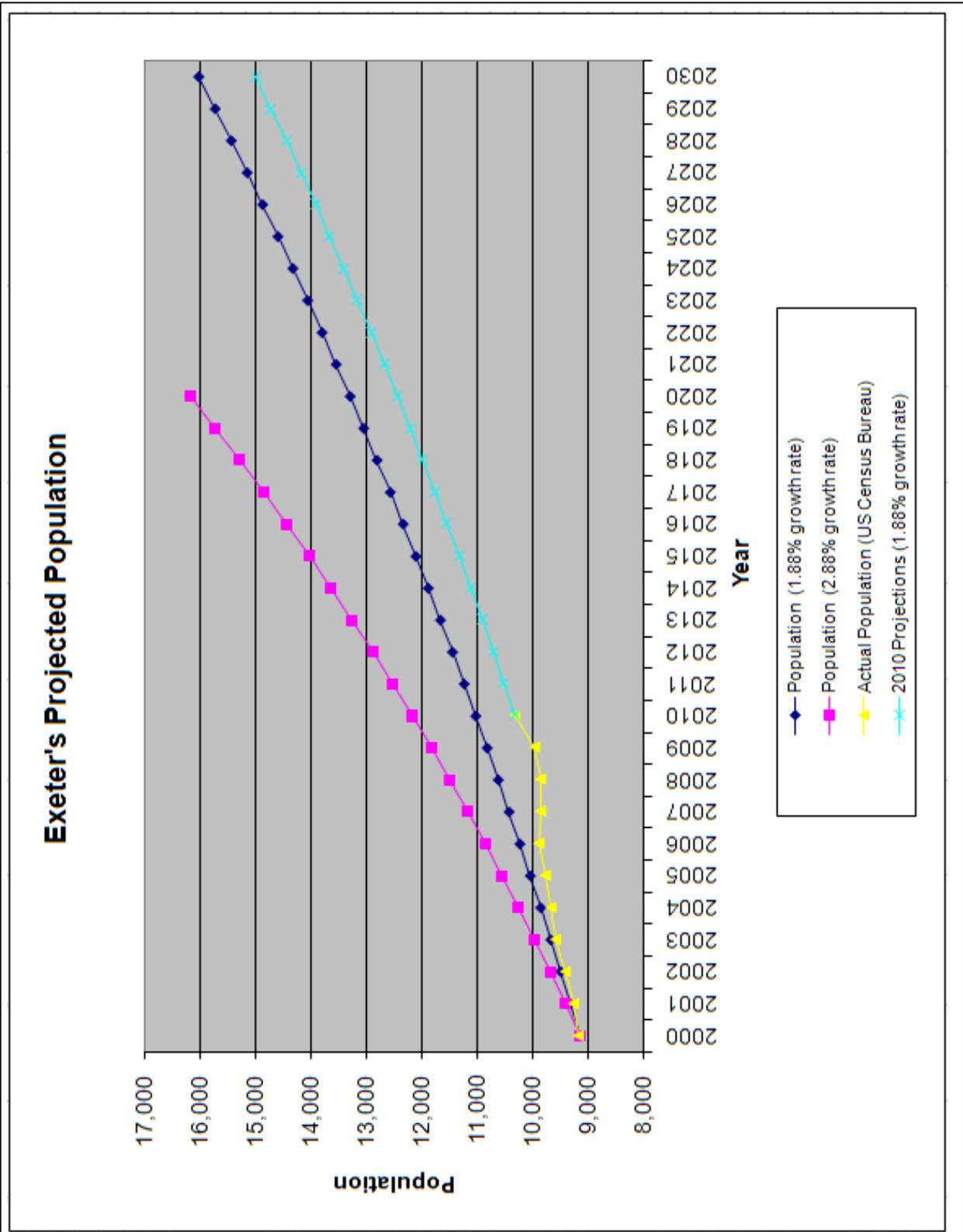
#### Population by Ethnicity

Hispanic or Latino	4,703
Non Hispanic or Latino	5,631

#### Population by Race

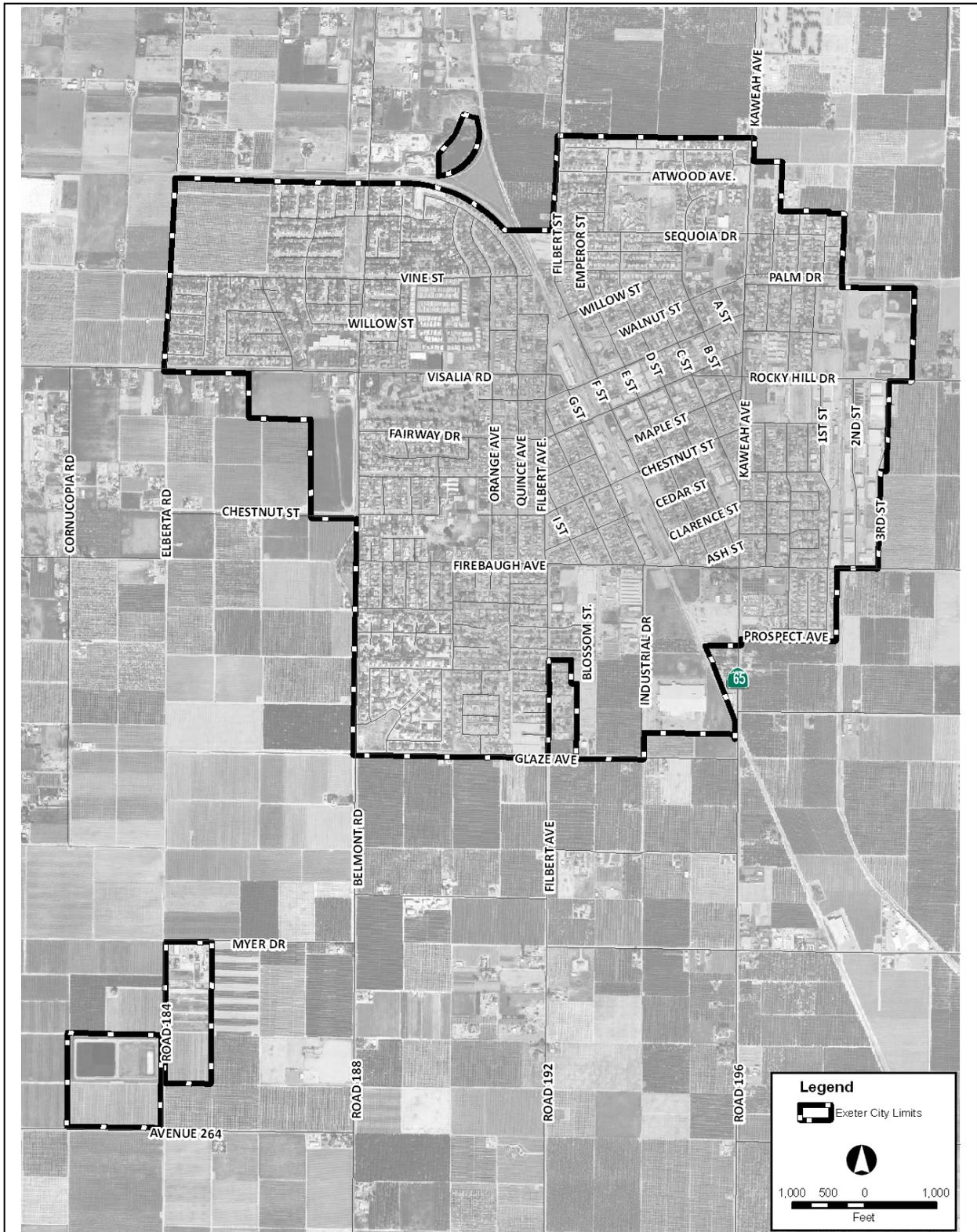
White	7,150
African American	67
Asian	138
AIAN	171
NHPI	8
Other	2,416
Identified by two or more	384

Reference: US Census Bureau 2010 Interactive Population Map. <http://2010.census.gov> (Please note that the federal data appears to have a discrepancy between the total population and the populations listed for owner-occupied and renter-occupied. The data suggests a population of 73 homeless)



POPULATION PROJECTIONS, 2000-2030

Figure 2.4-1



EXETER CITY LIMITS

Figure 2.5-1