

**Socioeconomic Research & Monitoring  
Cordell Bank National Marine Sanctuary**

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Study Area Profile  
1990 to 2010

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April 15, 2013

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National Oceanic and Atmospheric Administration  
U.S. Department of Commerce



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Any errors are the responsibility of the authors.

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## **Introduction**

This report is a product of the West Coast Region Socioeconomic Plan 2013 – 2014. “Study Area Profiles” were given a top priority for all Office of National Marine Sanctuary West Coast Region sites.

Study area profiles provide the basis of analyses to establish the dependencies of local communities/economies on sanctuary resource uses and for assessing how people can adapt to or mitigate policy/management changes that are estimated to impact their levels of use. Profiles include a county or collection of counties where the majority of economic impacts (e.g. sales/output, income and employment) and social impacts take place that are associated with use of sanctuary resources. A standard profile includes information on population, population density, demographics of the study area population (e.g. sex, race/ethnicity, age), poverty rate, unemployment rate, income by place of work/industry, employment by industry, income by place of residence, and per capita income. All of these measurements are available from existing sources and can be easily updated.

The geographic scope i.e. collection of counties that define a study area for a sanctuary is an evolving process. An intimal assessment is done based on past studies of sanctuary resource use and where the economic and social (socioeconomic) impacts were known to take place. In many cases, such as in Cordell Bank National Marine Sanctuary (CBNMS), very little is known. Therefore the “Study Area” for CBNMS is a starting point and will be revised as additional research is conducted and more details become known about the extent of where socioeconomic impacts takes place from all the different uses of resources within the sanctuary. Figure 1 shows a map with all the counties highlighted that currently define the “Study Area” for CBNMS.

## **Population and Key Measurements on Economic Status of the Study Area**

Population is a major driver of any study area. When assessing the conditions of sanctuary resources in ONMS Condition Reports, population is a key driver behind the pressures placed on sanctuary resources, but many in the population are also beneficiaries of the ecosystem services generated from sanctuary resources. Here we present information on the total population by county, population density by county, population growth for the study area and projected population growth for the study area. For some key measures of the economic status of the study area, we also present per capita income, poverty rates, and unemployment rates as key indicators in this section. We compare the study area to the U.S. and California (CA) for status and trends in selected measures (Table 1).





Figure 1. Counties included in the Cordell Bank National Marine Sanctuary Study Area

**Population.** The “Study Area” population covers 11 California counties with a population of over 7.5 million in 2010, which is approximately 19% of California’s total population. The three most populous counties in the study area include Santa Clara with 1.78 million, Alameda with 1.51 million and with Contra Costa 1.05 million (Table 1). Greater detail by county can be found in Appendix Table A.2.

**Population Growth.** For both the 1970 to 1980 and 1980 to 1990 periods, the Study Area’s population grew faster than the U.S., but slower than CA. From 1990 to 2000 and from 2000 to 2010, the Study Area’s population grew slower than both the U.S. and CA (Table 2).

**Projected Population Growth.** The Study Area’s population is projected to grow at slightly higher rates than the 2000 to 2010 period for the period from 2010 to 2040 according to Woods and Poole (2011) (Table 2).

**Population Density.** Population density is an indicator of the extent of pressures that the Study Area’s population might have on sanctuary resources. Population density varies widely across the Study Area counties ranging from a high of 17,169 people per square mile in San Francisco County to a low of 25 people per square mile in Mendocino County (Table 1 and Figure 2).

Table 1. Selected Socioeconomic Measures for Description of the Study Area

County	2010 Population	Population Change (%) 2000-2010	2010 Population Density <sup>1</sup>	2010 Per Capita Income (\$)	2010 Persons Below Poverty (%)	2010 Unemployment Rate (%)
Alameda, CA	1,510,271	4.61	2,044	47,603	10.95	11.3
Contra Costa, CA	1,049,025	10.56	1,465	54,817	8.69	11.1
Marin, CA	252,409	2.07	485	82,498	6.65	8.0
Mendocino, CA	87,841	1.83	25	34,733	16.75	11.3
Napa, CA	136,484	9.82	182	48,765	9.49	9.7
San Francisco, CA	805,235	3.67	17,169	69,351	11.50	9.6
San Mateo, CA	718,451	1.60	1,602	66,629	6.78	8.8
Santa Clara, CA	1,781,642	5.89	1,381	57,433	8.54	11.0
Santa Cruz, CA	262,382	2.65	589	46,586	11.98	12.6
Solano, CA	413,344	4.77	503	36,929	9.96	12.0
Sonoma, CA	483,878	5.51	307	43,274	9.92	10.5
<b>Study Area Total</b>	<b>7,500,962</b>	<b>5.27</b>	<b>691</b>	<b>55,243</b>	<b>9.53</b>	<b>10.6</b>
<b>California</b>	<b>37,253,956</b>	<b>9.99</b>	<b>239</b>	<b>41,893</b>	<b>13.21</b>	<b>12.4</b>
<b>U.S.</b>	<b>308,745,538</b>	<b>9.71</b>	<b>87</b>	<b>39,791</b>	<b>13.25</b>	<b>9.6</b>

1. Number of people per square mile.

Sources: U.S. Department of Commerce, Bureau of the Census and the Bureau of Economic Analysis, Regional Economic Information System

Table 2. Population Growth and Projected Growth

Measurement/Time Period	US	California	Study Area
<b>Population Growth (%)</b>			
1970 to 1980	11.59	18.59	13.15
1980 to 1990	9.81	25.74	16.54
1990 to 2000	13.09	13.82	12.5
2000 to 2010	9.53	9.99	5.27
<b>Population Projections (%)<sup>1</sup></b>			
2010 to 2020	--	--	6.21
2020 to 2030	--	--	5.92
2030 to 2040	--	--	5.47

1. Woods and Poole would not authorize NOAA to report US and California projections.

Sources: U.S. Department of Commerce, Bureau of the Census and Woods and Poole.

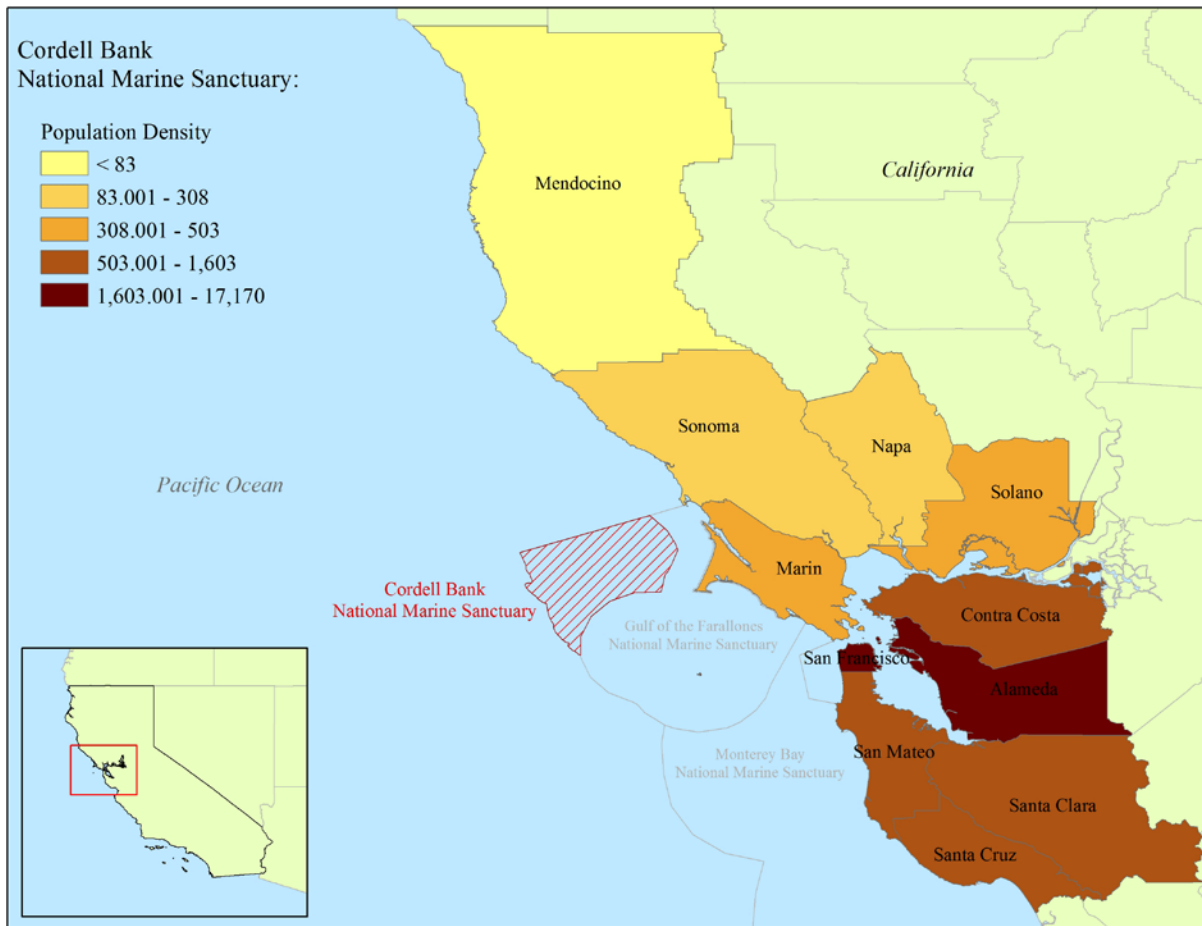


Figure 2. Population Density of the Cordell Bank National Marine Sanctuary Study Area 2010

**Per Capita Income.** Per capita income is an indicator of the health of the economic status of a community. In 2010, per capita income in the Study Area was \$55,243 and ranged from a low of \$34,733 in Mendocino County to a high of \$82,498 in Marin County. In 2010, per capita income in the Study Area exceeded that of both the U.S. and CA (Table 1). Real per capita income grew faster in the Study Area relative to the U.S. and CA for the period 1990-2000, but declined in both periods from 2000 to 2010, while it increased in both the U.S. and CA for the 2000-2005 period and increased slightly in the U.S. for the 2005-2010 period and declined in CA slightly slower than the Study Area (Table 3 and Figure 3). Greater detail by county can be found in Appendix Table A.2.

Table 3. Unemployment Rates and Per Capita Personal Income

Measurement/Year	US	California	Study Area
<b>Unemployment Rate (%)</b>			
1990	5.6	5.8	4.0
2000	4.0	4.9	3.5
2005	5.1	5.4	5.0
2010	9.6	12.4	10.6
<b>Per Capita Income</b>			
1990	\$19,354	\$21,380	\$25,455
2000	\$30,319	\$33,404	\$48,318
2005	\$35,452	\$38,731	\$51,546
2010	\$39,791	\$41,893	\$55,243
<b>Per Capita Income (2013\$)</b>			
1990	\$34,100	\$37,669	\$44,848
2000	\$40,545	\$44,671	\$64,615
2005	\$41,802	\$45,668	\$60,779
2010	\$42,022	\$44,241	\$58,340

Sources: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System and U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index

Real per capita income grew faster in the Study Area relative to the U.S. and CA for the period 1990-2000, but declined in both periods from 2000 to 2010, while it increased in both the U.S. and CA for the 2000-2005 period and increased slightly in the U.S. for the 2005-2010 period and declined in CA slightly slower than the Study Area.

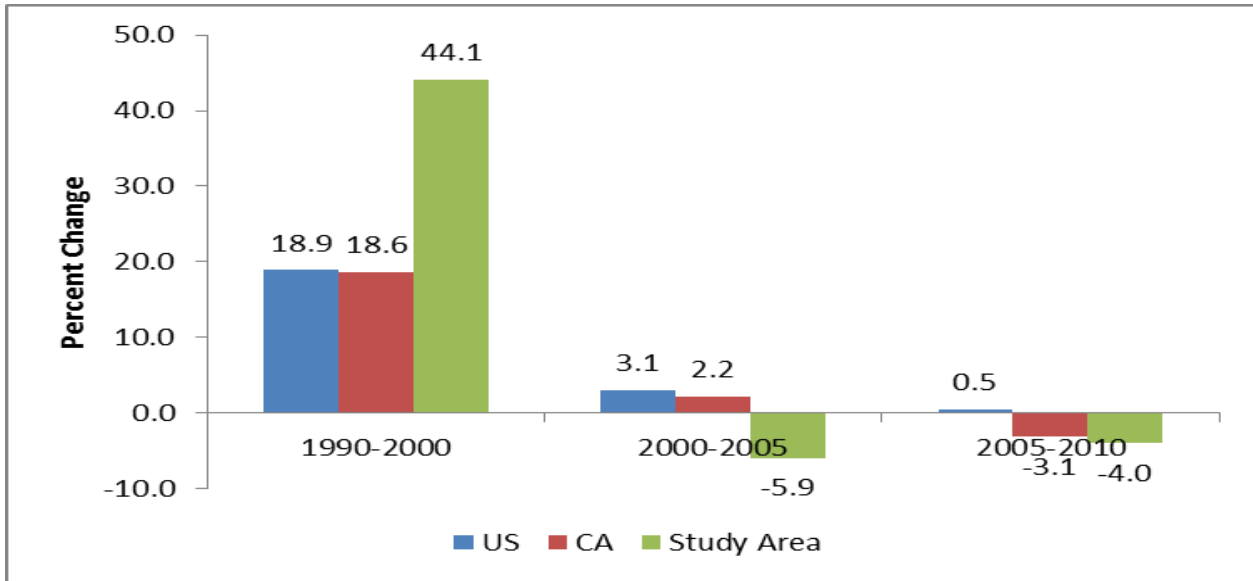


Figure 3. Changes in Real Per Capita Income in the Study Area versus the U.S. and CA

**Unemployment Rates.** Another indicator of the economic health of the Study Area is the unemployment rate. In 2010, the unemployment rate was 10.6% in the Study Area and ranged from a low of 8.0% in Marin County to a high of 12.6% in Santa Cruz County. In 2010, the Study Area's unemployment rate was higher than the U.S., but lower than that for CA (Table 1). Unemployment rates were lower in the Study Area than in the U.S. and CA for the time periods 1990 to 2005, but were higher than the U.S. and lower than in CA in 2010 (Table 3 and Figure 4).. Greater detail by county can be found in Appendix Table A.4.

Unemployment rates were lower in the Study Area than in the U.S. and CA for the time periods 1990 to 2005, but were higher than the U.S. and lower than in CA in 2010.

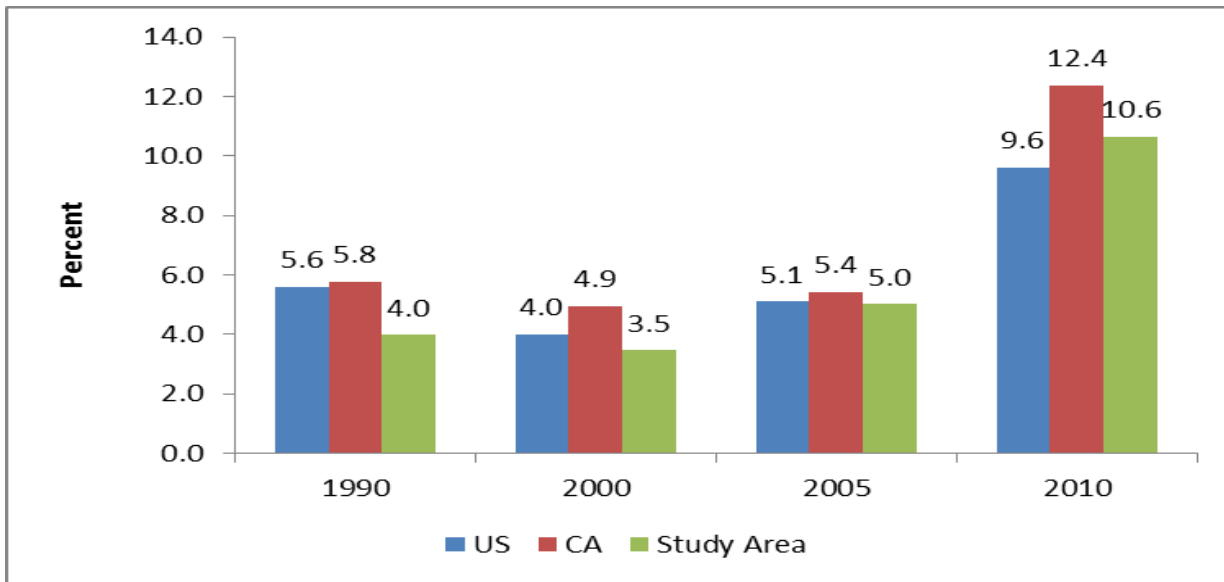


Figure 4. Unemployment Rates in the Study Area versus the U.S. and CA, 1990 to 2010

## Demographic Profiles

For demographic profiles, gender, race/ethnicity and age were chosen as the most important population characteristics. Race and Ethnicity are treated separately in the Census of the U.S. Racial categories include “White”, “Black or African American”, “Asian”, “Alaskan Native or Native American”, “Native Hawaiian or Other Pacific Islander”, and “Multiple Races”. We reduced the categories reported here by combining “Alaskan Native or Native American”, “Native Hawaiian or Other Pacific Islander”, and “Multiple Races” into the “Other” category for race. Hispanic represents ethnicity and in the Census is recorded separately from race with any race being eligible for being Hispanic. In the Census, Hispanic is Hispanic, Latino or of Spanish Origin. Greater detail by county can be found in Appendix Table A.1.

**Gender:** Gender distribution has been relatively constant in the Study Area from 1990 to 2010. The proportions of males and females are not significantly different between the Study Area and CA, but slightly lower for females than in the U.S (Figure 5).

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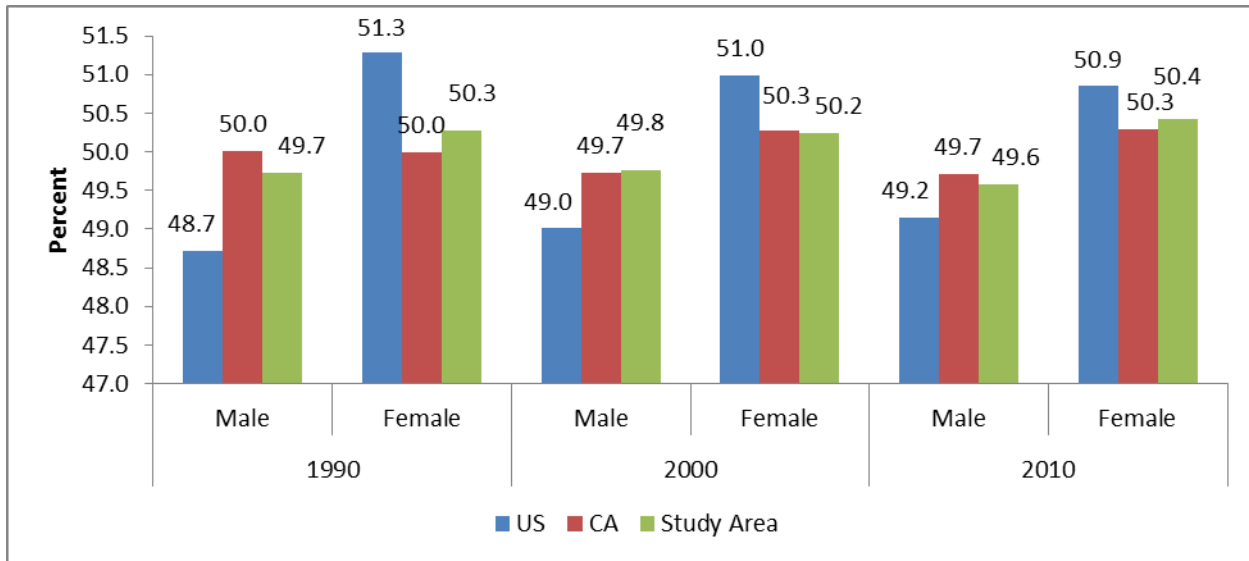


Figure 5. Gender Distributions in the Study Area versus the U.S. and CA, 1990, 2000 and 2010

**Race/Ethnicity.** In 2010, the “white” population of the Study Area was significantly lower than the U.S. or CA. the “Black or African American” population was much lower than in the U.S. but not significantly different from CA. The “Asian” population was significantly higher in the Study Area than in either the U.S. or CA. The “Hispanic” population in the Study Area was higher than that of the U.S., but significantly lower than in CA (Figure 6). The “White” and “Black or African American” population has declined from 1990 to 2010 in the Study Area, while “Asians” and “Others” have increased. The “Hispanic” population steadily increased from 1990 to 2010 (Figure 7).

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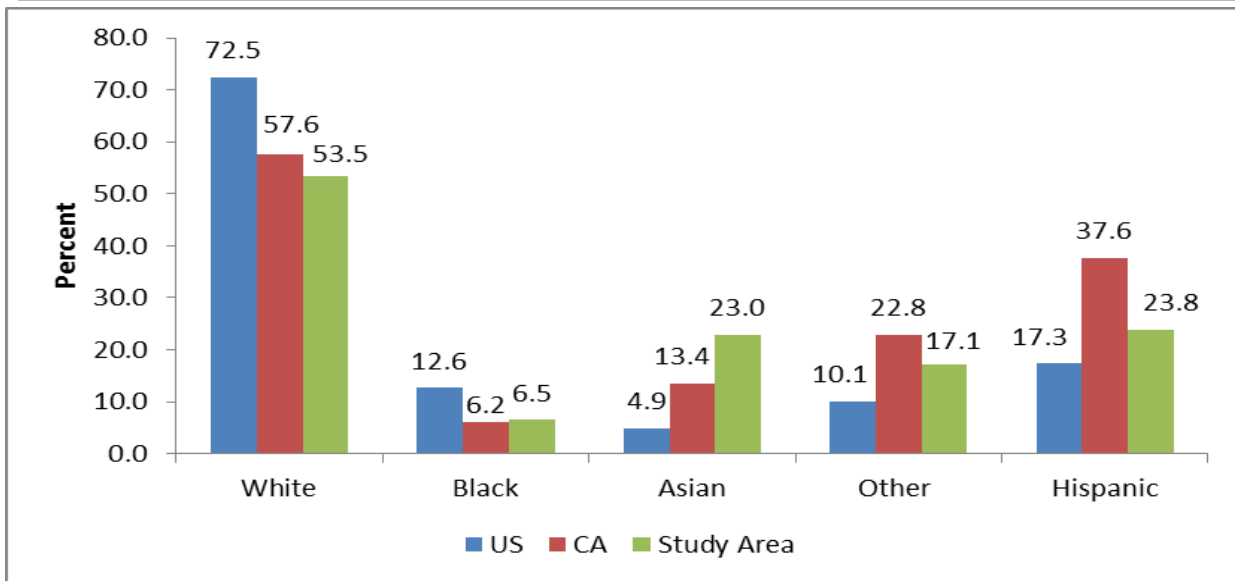


Figure 6. Race/Ethnicity in the Study Area versus the U.S. and CA, 2010



The “White” and “Black or African American” population has declined from 1990 to 2010 in the Study Area, while “Asians” and “Others” have increased. The “Hispanic” population steadily increased from 1990 to 2010.

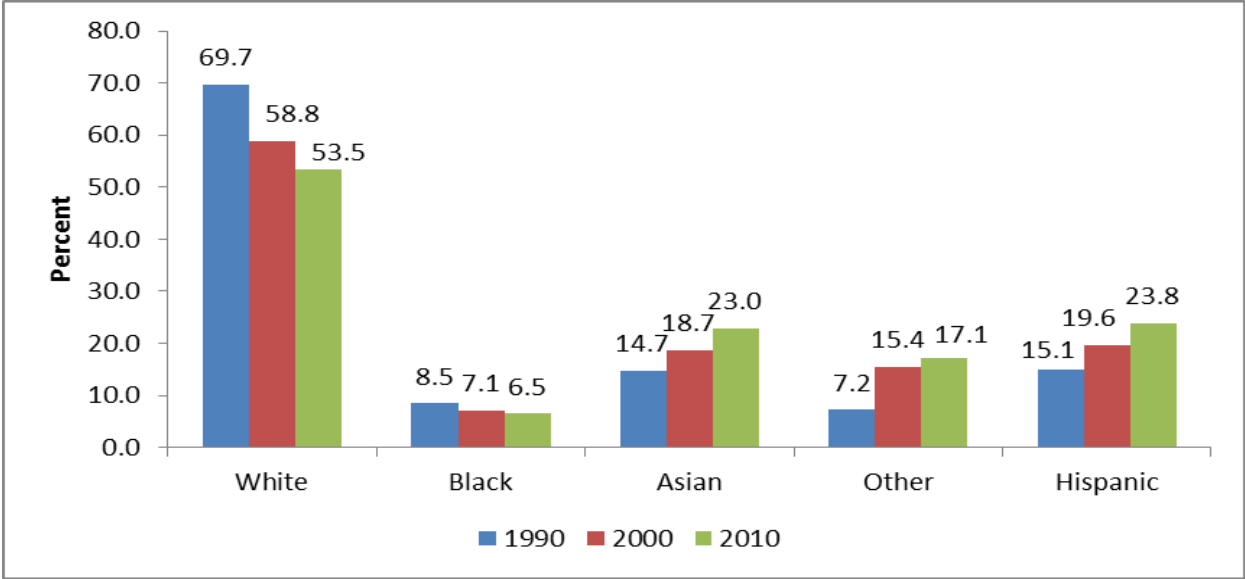


Figure 7. Race/Ethnicity in the Study Area, 1990, 2000, and 2010

**Age.** In 2010, the age distribution of the population of the Study Area was not significantly different from either the U.S. or CA (Figure 8). The proportion of the population ages 20 to 44 declined in the Study Area from 1990 to 2010, while it increased for those ages 45 and over (Figure 9).

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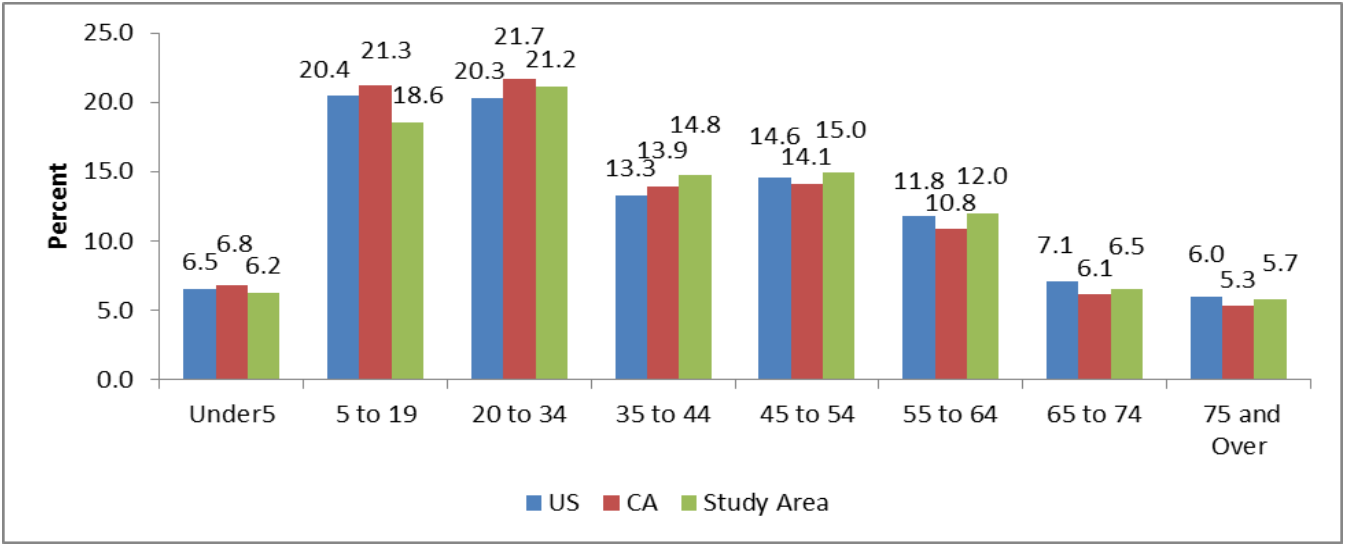


Figure 8. Age Distributions in the Study Area versus the U.S. and CA, 2010

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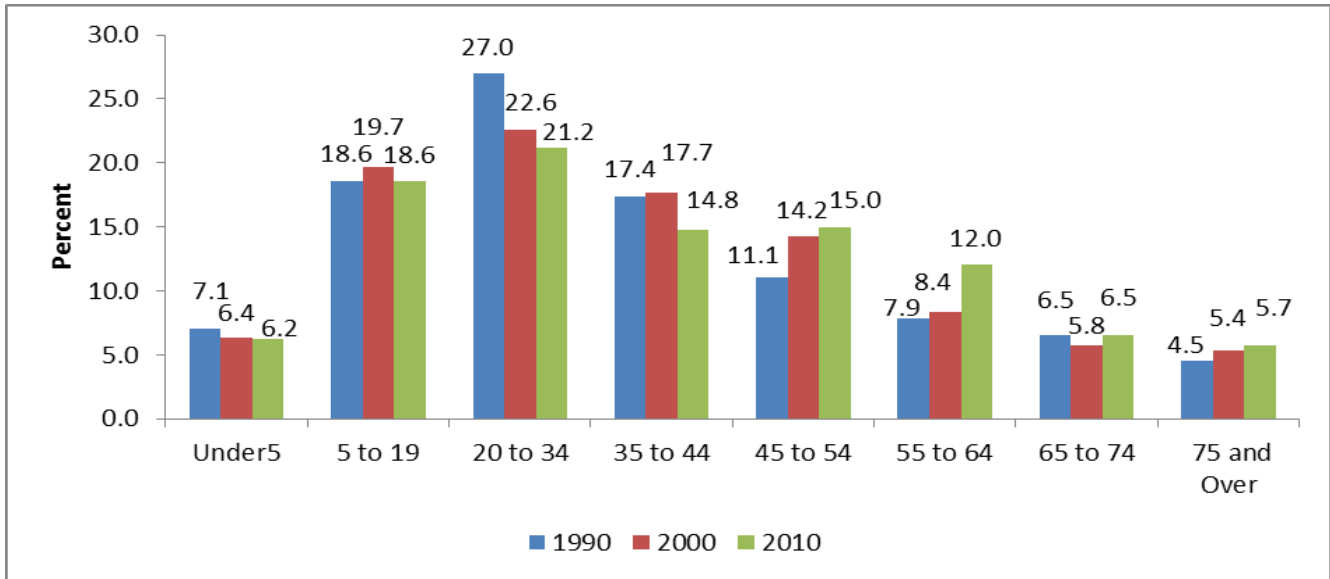


Figure 9. Age Distribution in the Study Area, 1990, 2000, and 2010

## Economic Profile

In the previous section, we addressed a couple of key indicators of the health of the economy using per capita income, poverty rates and unemployment rates. Here we look at the total personal income both generated within the Study Area (income by place of work) and what is received by residents of the Study Area (income by place of residence). The U.S. Department of Commerce, Bureau of Economic Analysis maintains the national income accounts on both these bases. People that live in a given area often receive income not derived by work in the area where they live. Many people commute to work to places of work outside the county where they live. People receive interest, dividends and capital gains from investments. Retirees receive pensions and social security payments. The unemployed receive unemployment compensation. Income-by-Place-of-Work as a percent of Income-by-Place-of-Residence is usually a good indicator of an area having a significant retirement community. Sources of income not tied to the

status of the status of work in the local economy can provide more resilience to an economy making it less subject to ups and downs of local work.

The labor force and total employment and their growth rates are good indicators of a healthy or stagnant economy and the opportunities for employment. These are important elements in assessing whether people can adapt to changes in resource management/policy decisions that may displace them from resource use.

We also look at Proprietors' income and employment and the proportion of the Study Area's income and employment accounted for by proprietors of businesses. This is usually a good indicator of small businesses which are often those connected to resource use in the sanctuary (e.g. commercial fishing operations and recreation and tourist related businesses).

We also look at personal income and employment by industry sector. This is important for economic impact analyses of resource management/policy decisions. When we are able to map the spending in the local economy related to resource use in the sanctuary to economic sectors, we can then use input-output models such as the IMPLAN model to estimate the multiplier impacts on the local economy and assess the proportion of the local economy affected.

There are some problems with obtaining complete information by economic sector for any county since there are rules that don't allow the government to publish data on a sector in a county if there are less than 10 firms in the county. The data gets reported as "D" meaning "Non-disclosure". For Study Area totals, the totals for a sector are reported here as "NA" or not available if at least one county in the Study Area has, within a given sector, less than 10 firms in that sector. It may be possible to get Study Area totals for the sector on special request from the U.S. Department of Commerce, Bureau of Economic Analysis if there are more than 10 firms in the sector throughout the Study Area.

**Labor Force.** In 2010, there was close to 3.9 million people in the labor force of the Study Area or about 21% of the entire labor force of California. The labor force grew faster than the state of California's over the 1990-2000 period, but declined in the 2000-2010 period, while California's labor force continued to grow (Table 4 and Figure 10). Greater detail by county is in Appendix Table A.4.

Table 4. Labor Force and Labor Force Growth

Year	California	Study Area
1990	15,168,531	3,479,985
2000	16,857,578	3,929,491
2010	18,316,411	3,869,656
Labor Force Growth (%)		
1990-2000	11.1	12.9
2000-2010	8.7	-1.5

Source: U.S. Department of Labor, Bureau of Labor Statistics

The labor force grew faster than the state of California’s over the 1990-2000 period, but declined in the 2000-2010 period, while California’s labor force continued to grow.

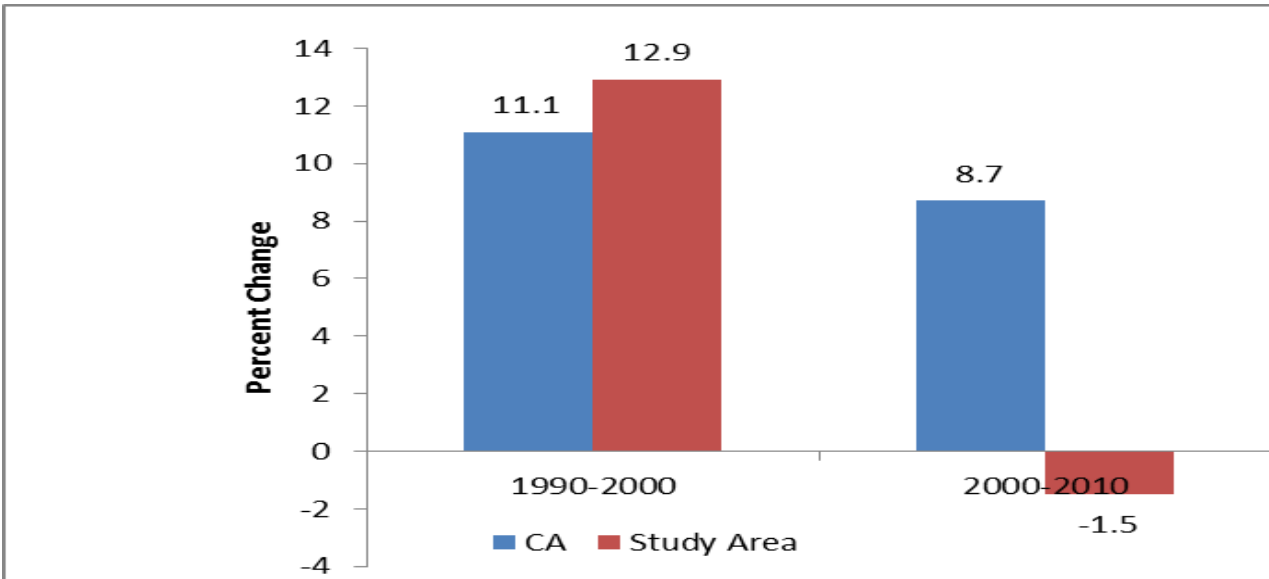


Figure 10. Labor Force Growth 1990-200 and 2000-2010 in CA versus the Study Area

**Personal Income.** The U.S. Department of Commerce, Bureau of Economic Analysis (BEA) maintains two concepts of personal income in their Regional Economic Information System. Income is reported by “place or work” and by “place of residence”. Income by “place of work” is where the income generated by work in the geographic area of study, and is reported by economic sector (e.g. farm, manufacturing, retail, wholesale, etc.). Income by “place of residence” is reported by where the income is received. It is the total amount of income received by those who live in the study area. It includes income from investments, pensions, social security payments and other transfer payments. In addition, it includes income earned in areas from work outside the Study Area. This would include the income earned in a county where one works which is outside the Study Area. The amount of income earned by people who live outside the Study Area is subtracted as they take their incomes home to areas outside the Study Area. This information comes from the “Census of Inter-county Commuters” and BEA uses it to form what is called the “residence adjustment” which can be either positive or negative depending on whether people living in the Study Area and working outside the Study Area are earning more or less than people living outside the Study Area and working inside the Study Area. Economists often refer to this as the “Bedroom Community Effect”. In using the IMPLAN input-output model to estimate the economic impacts of activity in the Study Area and important first step is defining the study area of impact. Since IMPLAN assumes that all those who work in the study area live in the study area and thus spend most of their income there, defining the study area such that the “bedroom community effect” is small makes estimates more accurate. Income by “place-of-work” as a percent of “total income by place-of-residence” serves as an indicator of two key aspects of a Study Area’s economy: whether it is an economy with a significant “bedroom community” and/or there is a large retirement community. When the percent of income by place of work is low relative to income by place of residence (below 100%, Table 4), economists then look to the “resident adjustment” and the amount of transfer payments in pensions and social security payments to further describe the nature of the local economy.

In 2010, income by place of work as a percent of income by place of residence was 79% and ranged from a low of 47.5% in Marin County and a high of 111.5% in San Francisco County. All counties in the Study Area have incomes by place of work lower than income by place of residence, except for San Francisco County. Santa Clara County is close to the same with income by place of work as 99.2% of income by place of residence (Table 5). Income by place of work as a percent of income by place of residence was higher in the Study Area than in CA over the 2000 to 2010 time period and declined in both the Study Area and CA over this period (Table 6 and Figure 11)..

Table 5. Personal Income by Place of Residence and by Place of Work, 2010

County	Income by Place of Residence (\$000)	Income by Place of Work (\$000)	Work as Percent of Residence
Alameda	\$72,024,822	\$55,762,084	77.4
Contra Costa	\$57,700,398	\$29,351,680	50.9
Marin, CA	\$20,854,466	\$9,895,696	47.5
Mendocino	\$3,049,993	\$1,644,157	53.9
Napa	\$6,672,968	\$4,522,236	67.8
San Francisco	\$55,850,894	\$62,256,151	111.5
San Mateo	\$47,946,507	\$35,037,442	73.1
Santa Clara	\$102,589,854	\$101,805,095	99.2
Santa Cruz	\$12,246,607	\$6,276,809	51.3
Solano	\$15,293,223	\$9,080,662	59.4
Sonoma	\$20,975,353	\$12,387,049	59.1
<b>Study Area Total</b>	<b>\$415,205,085</b>	<b>\$328,019,061</b>	<b>79.0</b>

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System

Table 6. Personal Income by Place of Residence and Place of Work

Year/Area	Income by Place of Residence (\$Millions)	Income by Place of Work (\$Millions)	Work as Percent of Residence
<b>2000</b>			
Study Area	\$345,235	\$293,458	85.0
California	\$1,135,342	\$895,920	78.9
<b>2005</b>			
Study Area	\$368,917	\$300,653	81.5
California	\$1,387,661	\$1,093,320	78.8
<b>2010</b>			
Study Area	\$415,205	\$328,019	79.0
California	\$1,564,209	\$1,156,546	73.9

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System

Income by place of work as a percent of income by place of residence was higher in the Study Area than in CA over the 2000 to 2010 time period and declined in both the Study Area and CA over this period.

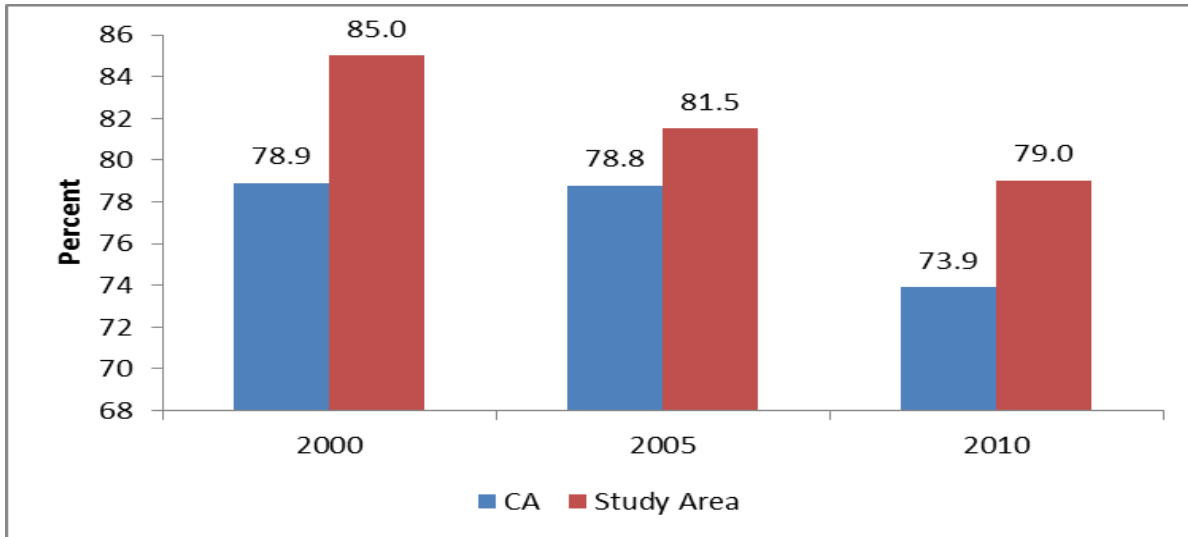


Figure 11. Income by Place of Work as a Percent of Income by Place of Residence in the Study Area versus CA 2000, 2005, and 2010

**Employment.** In 2010, almost 4.5 million people were employed in the Study Area or about 22.8% of all employment in California (Table 7). Total employment in the Study Area grew faster than in California during the 1990-2000 period, but declined in the 2000-2010 period, while it continued to grow in California (Figure 12). Greater detail by county can be found in Appendix Table A.3.

Table 7. Total Employment: 1990, 2000 and 2010

County	1990	2000	2010
Alameda	754,274	893,811	854,126
Contra Costa	397,329	473,865	470,495
Marin	148,302	177,080	177,066
Mendocino	42,314	49,369	46,884
Napa	59,343	83,453	88,421
San Francisco	702,360	759,212	719,646
San Mateo	397,001	500,077	460,901
Santa Clara	1,037,076	1,273,226	1,111,764
Santa Cruz	125,068	148,385	138,386
Solano	136,860	159,329	168,062
Sonoma	204,435	271,800	261,631
<b>Study Area Total</b>	<b>4,004,362</b>	<b>4,789,607</b>	<b>4,497,382</b>
<b>California</b>	<b>16,834,516</b>	<b>19,466,162</b>	<b>19,732,278</b>

Source: U.S. Department of Commerce, Bureau of Economic Analysis  
Regional Economic Information System

Total employment in the Study Area grew faster than in CA during the 1990-2000 period, but declined in the 2000-2010 period, while it continued to grow in CA.

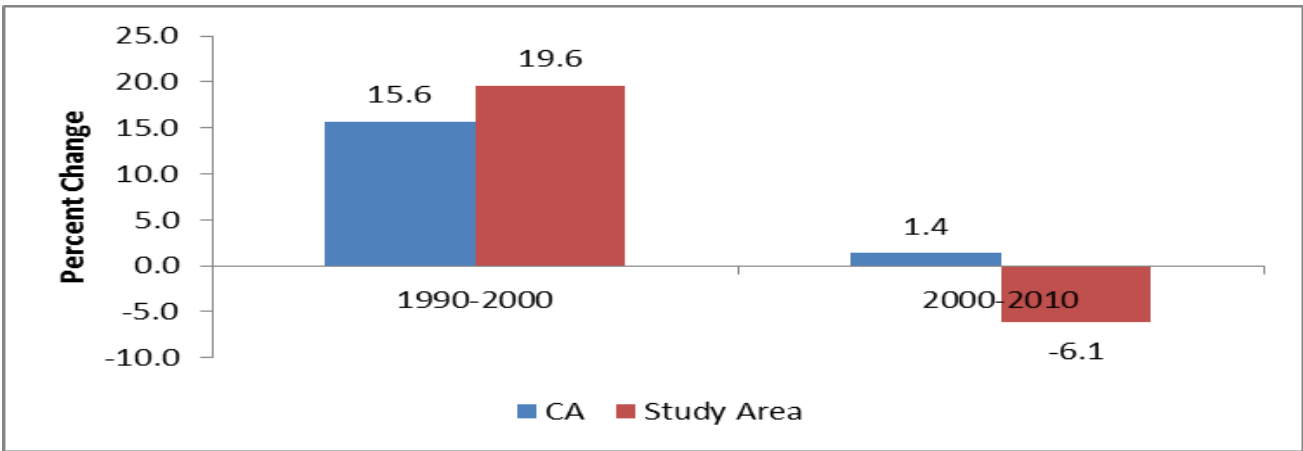


Figure 12. Total Employment in the Study Area versus CA 1990-2000 and 2000-2010



**Proprietor's Income and Employment.** When analyzing the potential impacts of sanctuary management strategies and regulations, it is a requirement under the Regulatory Flexibility Act to analyze the potential impacts on small entities, which are primarily small businesses. Usually almost all businesses related to either the commercial fishing industry or the recreation-tourist industry is small businesses. Good indicators of the extent of small businesses in the Study Area are the extent of proprietor's income and employment.

In 2010, there were 1,074 proprietors employed in the Study Area making up 12.9% of total employment in the Study Area. The proprietors earned a little more than \$35 million in that year, which was 10.7% of the income earned by place of work in the Study Area (Table 8). The Study Area had a lower proportion of its employment and income from proprietors than the State of California over the 1990 to 2010 period (Figures 13 and 14). Greater detail by county can be found in Appendix Table A.2.

Table 8. Proprietor's Income and Employment

Year/Area	Proprietor's Income (\$000)	%	Proprietor's Employment	%
<b>1990</b>				
Study Area	11,951,896	4.1	675	8.7
California	52,279,739	5.8	2,853	16.9
<b>2000</b>				
Study Area	36,172,129	12.0	889	10.7
California	136,625,067	12.5	3,844	19.7
<b>2010</b>				
Study Area	35,006,230	10.7	1,074	12.9
California	146,825,576	12.7	4,685	23.7

Source: U.S. Department of Commerce, Bureau of Economic Analysis,  
Regional Economic Information System

The Study Area had a lower proportion of its employment from proprietors than the State of CA during the 1990 to 2010 period.

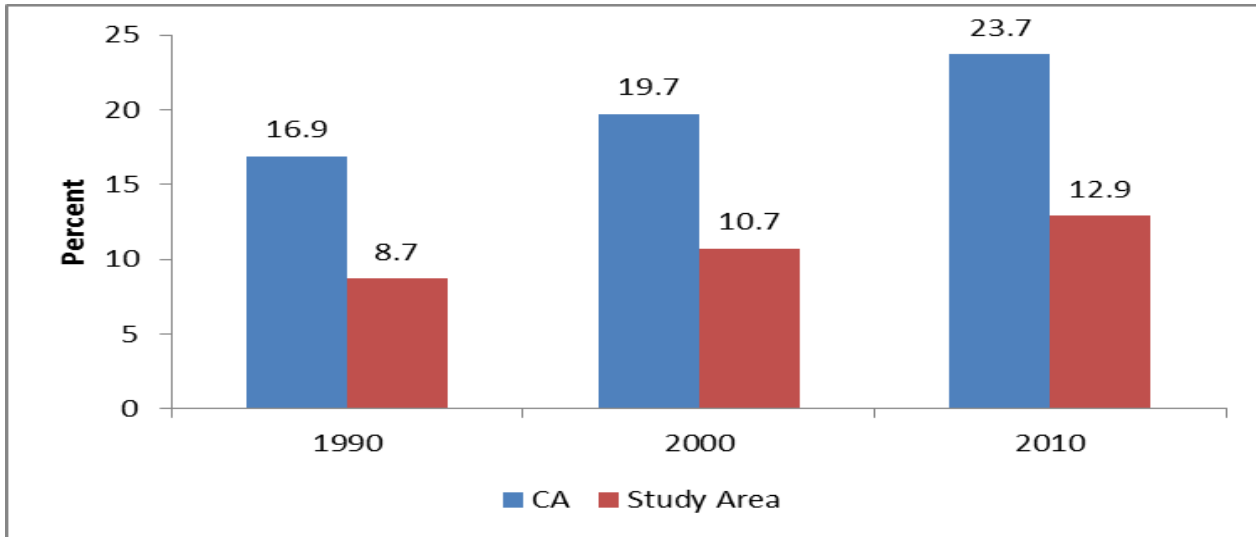


Figure 13. Proprietor's Employment as a percent of total employment in the Study Area versus CA 1990, 2000, and 2010

The Study Area had a lower proportion of its income from proprietors than the State of CA during the 1990 to 2010 period.

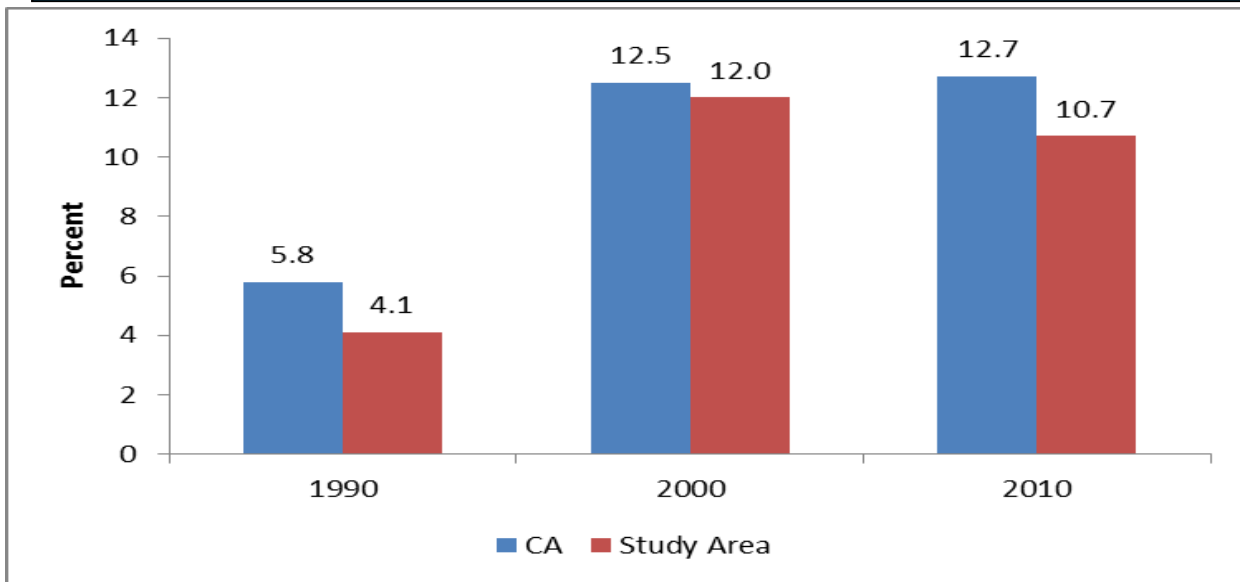


Figure 14. Proprietor's Income as a percent of total income in the Study Area versus CA 1990, 2000, and 2010

***Personal Income and Employment by Industry Sector.*** The U.S. Department of Commerce, Bureau of Economic Analysis (BEA) in its Regional Economic Information System reports income and employment for different geographic areas by industry or economic sector using the North American Industry Classification System (NAICS) industry classification codes. The NAICS codes identify different sectors of the economy using codes up to four digits. The higher the number within a sector the more specific the industry. For example, “retail trade” is the 700 series. So at the 700 level, all retail trade is included. Code 701 is “motor vehicle and parts dealers” and 702 is “Furniture and home furnishing stores”. For the counties in our Study Area, we only report at the highest level i.e. for each series only the “00” level of detail. Even here, for some counties within the Study Area, the information is classified as “D” for non-disclosure meaning the numbers cannot be reported because there are less than 10 firms in that industry of economic sector in the county. So when we add up across counties for the Study Area, if one county within the Study Area has less than 10 firms in a sector, the whole Study Area will be coded “D” for non-disclosure. If the entire Study Area has less than 10 firms in a given industry or economic sector, it is possible to request a special run by BEA for the Study Area totals. We have not done that here.

***Personal Income by Industry.*** In 2010, the Study Area had a higher proportion of its personal income generated in the “Professional, scientific, and technical services”, “Finance and insurance”, “Information services” and “Manufacturing” sectors than California with a lower proportion from “Government and government enterprises”.

***Employment by Industry.*** In 2010, the Study Area had a higher proportion of its employment generated in the “Professional, scientific, and technical services”, “Finance and insurance”, “Information services” and “Manufacturing” sectors than CA with a lower proportion from “Government and government enterprises”.

Greater detail by county can be found in appendix tables A.2 and A.3.

In 2010, the Study Area had a higher proportion of its personal income generated in the “Professional, scientific, and technical services”, “Finance and insurance”, “Information services” and “Manufacturing” sectors than CA with a lower proportion from “Government and government enterprises”.

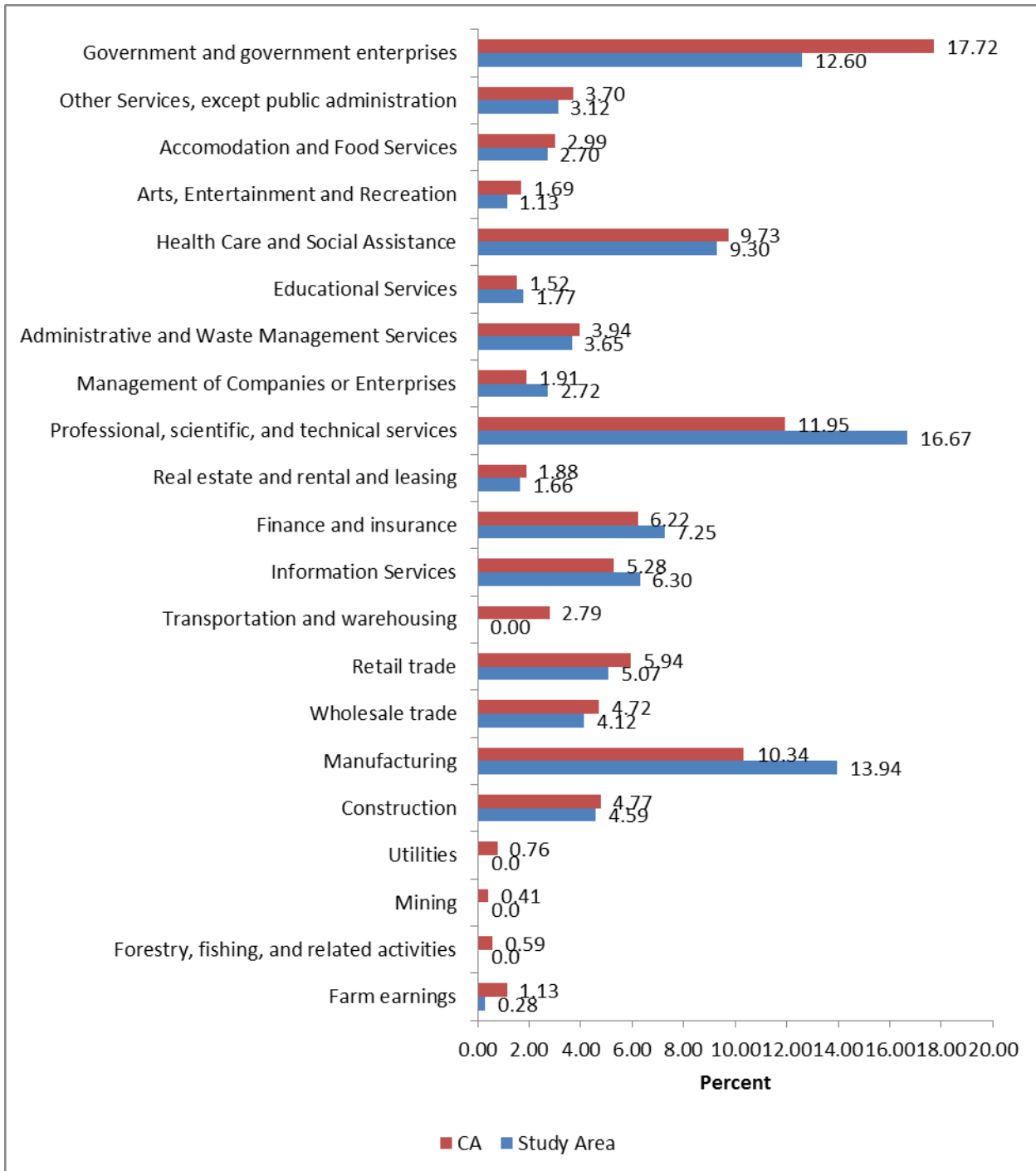


Figure 15. Percent of Personal Income by Industry for the Study Area versus CA 2010

In 2010, the Study Area had a higher proportion of its employment generated in the “Professional, scientific, and technical services”, “Finance and insurance”, “Information services” and “Manufacturing” sectors than CA with a lower proportion from “Government and government enterprises”.

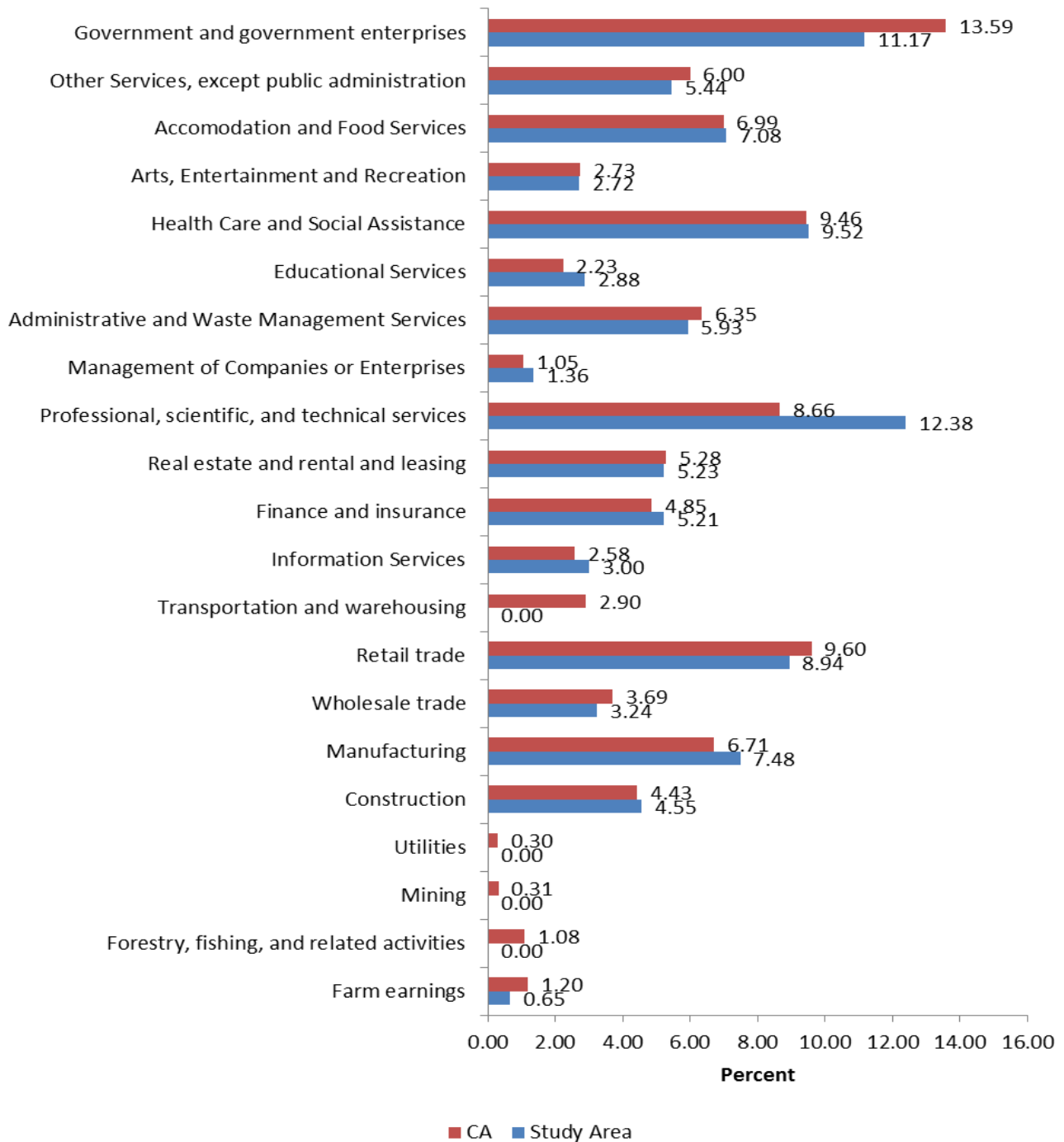


Figure 16. Percent of Employment by Industry for the Study Area versus CA 2010

## **Future Updates**

ONMS Socioeconomics Staff at HQ is working with the National Ocean Services Special Projects Office to develop the capability to update all the information presented here with one-stop shopping on-line for all National Marine Sanctuaries. ONMS Socioeconomics at HQ has set-up a Microsoft Access database and query system to develop all the tables that appear in this report and is in the process of developing and testing a guide so that an intern or other staff member at a site could update the information in this report. The guide is expected to be completed in the summer of 2013.

Usually, the information by county available from the Bureau of the Census or the Bureau of Economic Analysis is 18 to 24 months behind the current date (2011 data will be available for most counties in June 2013).

ONMS Socioeconomic Staff at HQ will also provide all the final tables and figures in Excel files so updating final table and figure formats are more easily produced. These will be sent out to each site on CD-ROM.

As mentioned in the introduction to this report, the definition of the Study Area for any sanctuary can change based on further learning. For Cordell Bank, we don't currently have any detailed studies indicating the details of where the socioeconomic impacts take place from uses of resources in Cordell Bank. The current Study Area is based on our best guess of the counties likely impacted and this could change as more detailed studies are conducted on resource use from the sanctuary.

## References

U.S. Department of Commerce, Bureau of the Census. <http://www.census.gov>

U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System. <http://www.bea.gov/regional/downloadzip.cfm>

U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index. <http://data.bls.gov/cgi-bin/surveymost>

U.S. Department of Labor, Bureau of Labor Statistics, Unemployment. <http://www.bls.gov/data/#unemployment>

Woods and Poole. 2011. Woods and Poole Economics, Inc. Washington DC. <http://www.woodsandpoole.com>

## **Appendix Tables**



Table A.1. Demographic Profiles

**United States**

<b>Gender</b>	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
Male	121,172,320	48.72	137,916,186	49.01	153,566,497	49.15
Female	127,537,452	51.28	143,505,719	50.99	158,904,830	50.85
<b>Ethnicity</b>						
White	199,826,969	80.35	211,353,725	75.10	226,378,365	72.45
Black	29,930,516	12.03	34,361,740	12.21	39,390,817	12.61
Asian	7,226,986	2.91	10,550,602	3.75	15,221,466	4.87
Hispanic	21,900,090	8.81	35,238,481	12.52	54,166,049	17.33
<b>Age</b>						
Under5	18,264,099	7.23	19,046,753	6.67	20,426,118	6.54
5 to 19	52,932,201	20.96	61,137,533	21.40	63,859,028	20.44
20 to 34	62,112,505	24.59	58,603,337	20.52	63,403,129	20.29
35 to 44	37,619,802	14.90	45,905,470	16.07	41,554,134	13.30
45 to 54	25,465,997	10.08	37,578,610	13.16	45,494,523	14.56
55 to 64	21,120,840	8.36	24,171,231	8.46	36,924,413	11.82
65 to 74	18,219,002	7.21	18,501,149	6.48	22,025,091	7.05
75 and Over	12,976,861	5.14	16,477,823	5.77	18,784,891	6.01

**State - California**

<b>Gender</b>	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
Male	14,881,551	50.01	16,843,062	49.73	18,517,830	49.71
Female	14,878,470	49.99	17,028,586	50.27	18,736,126	50.29
<b>Ethnicity</b>						
White	20555653	69.07	20122959	59.41	21453934	57.59
Black	2198766	7.39	2219190	6.55	2299072	6.17
Asian	2847835	9.57	3796833	11.21	5005393	13.44
Hispanic	7557550	25.39	10969132	32.38	14013719	37.62
<b>Age</b>						
Under5	2,376,474	7.99	2,455,019	7.25	2,531,333	6.79
5 to 19	6,247,297	20.99	7,745,964	22.87	7,920,709	21.26
20 to 34	8,180,044	27.49	7,540,533	22.26	8,083,826	21.70
35 to 44	4,646,815	15.61	5,643,068	16.66	5,182,710	13.91
45 to 54	2,955,981	9.93	4,312,838	12.73	5,252,371	14.10
55 to 64	2,231,551	7.50	2,587,432	7.64	4,036,493	10.84
65 to 74	1,865,417	6.27	1,897,726	5.60	2,275,336	6.11
75 and Over	1,256,442	4.22	1,689,068	4.99	1,971,178	5.29

**Study Area - Cordell Bank**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	3,149,565	49.73	3,545,939	49.76	3,718,804	49.58
Female	3,184,091	50.27	3,579,688	50.24	3,782,158	50.42
<b>Ethnicity</b>						
White	4,413,423	69.68	4,192,929	58.84	4,013,249	53.50
Black	536,037	8.46	504,058	7.07	484,749	6.46
Asian	928,780	14.66	1,333,014	18.71	1,721,800	22.95
Hispanic	952,961	15.05	1,398,507	19.63	1,785,397	23.80
<b>Age</b>						
Under5	447,090	7.06	452,979	6.36	468,203	6.24
5 to 19	1,178,967	18.61	1,402,172	19.68	1,391,133	18.55
20 to 34	1,708,035	26.97	1,608,435	22.57	1,586,638	21.15
35 to 44	1,099,958	17.37	1,259,535	17.68	1,108,990	14.78
45 to 54	701,306	11.07	1,014,166	14.23	1,123,475	14.98
55 to 64	497,443	7.85	594,962	8.35	901,643	12.02
65 to 74	413,018	6.52	410,521	5.76	490,688	6.54
75 and Over	287,839	4.54	382,857	5.37	430,192	5.74

**County**

**Mendocino, CA (06045)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	39,960	49.74	42,846	49.67	43,983	50.07
Female	40,385	50.26	43,419	50.33	43,858	49.93
<b>Ethnicity</b>						
White	72,248	89.92	69,650	80.74	67,218	76.52
Black	560	0.70	594	0.69	622	0.71
Asian	754	0.94	923	1.07	1,569	1.79
Hispanic	7,891	9.82	14,001	16.23	19,505	22.20
<b>Age</b>						
Under5	5,670	7.06	5,190	6.02	5,347	6.09
5 to 19	18,187	22.64	19,270	22.34	16,262	18.51
20 to 34	15,556	19.36	14,249	16.52	15,578	17.73
35 to 44	14,575	18.14	12,609	14.62	10,268	11.69
45 to 54	8,683	10.81	14,478	16.78	12,476	14.20
55 to 64	6,807	8.47	8,779	10.18	14,417	16.41
65 to 74	6,431	8.00	5,991	6.94	7,556	8.60
75 and Over	4,436	5.52	5,699	6.61	5,937	6.76

**Study Area (continued)**

**Napa, CA (06055)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	54,794	49.47	62,075	49.95	68,159	49.94
Female	55,971	50.53	62,204	50.05	68,325	50.06
<b>Ethnicity</b>						
White	98,650	89.06	98,981	79.64	97,525	71.46
Black	1,065	0.96	1,625	1.31	2,668	1.95
Asian	3,726	3.36	4,259	3.43	9,595	7.03
Hispanic	15,686	14.16	29,348	23.61	44,010	32.25
<b>Age</b>						
Under5	7,416	6.70	7,484	6.02	8,131	5.96
5 to 19	21,244	19.18	25,974	20.90	27,089	19.85
20 to 34	24,048	21.71	22,393	18.02	25,044	18.35
35 to 44	17,631	15.92	19,292	15.52	17,851	13.08
45 to 54	12,401	11.20	18,500	14.89	19,932	14.60
55 to 64	9,734	8.79	11,630	9.36	17,843	13.07
65 to 74	10,086	9.11	8,796	7.08	10,522	7.71
75 and Over	8,205	7.41	10,210	8.22	10,072	7.38

**San Francisco, CA (06075)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	362,170	50.03	395,011	50.86	408,462	50.73
Female	361,789	49.97	381,722	49.14	396,773	49.27
<b>Ethnicity</b>						
White	388,341	53.64	385,325	49.61	390,387	48.48
Black	78,931	10.90	59,060	7.60	48,870	6.07
Asian	211,000	29.15	243,519	31.35	271,274	33.69
Hispanic	96,640	13.35	109,565	14.11	121,774	15.12
<b>Age</b>						
Under5	35,270	4.87	31,083	4.00	35,203	4.37
5 to 19	96,173	13.28	95,508	12.30	89,367	11.10
20 to 34	217,020	29.98	235,080	30.27	228,738	28.41
35 to 44	130,413	18.01	137,553	17.71	133,682	16.60
45 to 54	77,747	10.74	105,999	13.65	111,807	13.89
55 to 64	62,073	8.57	64,552	8.31	96,596	12.00
65 to 74	57,577	7.95	54,729	7.05	54,322	6.75
75 and Over	47,686	6.59	52,229	6.72	55,520	6.89

Study Area (Continued)

**San Mateo, CA (06081)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	321,109	49.43	348,750	49.32	353,168	49.16
Female	328,514	50.57	358,411	50.68	365,283	50.84
<b>Ethnicity</b>						
White	467,853	72.02	419,423	59.31	383,535	53.38
Black	34,580	5.32	24,395	3.45	20,436	2.84
Asian	109,309	16.83	150,695	21.31	188,435	26.23
Hispanic	113,090	17.41	154,392	21.83	182,502	25.40
<b>Age</b>						
Under5	43,947	6.77	44,652	6.31	46,360	6.45
5 to 19	112,926	17.38	132,473	18.73	128,441	17.88
20 to 34	168,058	25.87	150,858	21.33	139,432	19.41
35 to 44	110,792	17.05	126,476	17.89	108,100	15.05
45 to 54	75,511	11.62	102,082	14.44	110,669	15.40
55 to 64	58,081	8.94	62,380	8.82	89,187	12.41
65 to 74	47,830	7.36	45,367	6.42	49,985	6.96
75 and Over	32,478	5.00	42,873	6.06	46,277	6.44

**Santa Clara, CA (06085)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	758,605	50.66	851,490	50.61	893,851	50.17
Female	738,972	49.34	831,095	49.39	887,791	49.83
<b>Ethnicity</b>						
White	1,035,029	69.11	902,150	53.62	836,616	46.96
Black	55,365	3.70	45,076	2.68	46,428	2.61
Asian	261,574	17.47	435,994	25.91	577,584	32.42
Hispanic	307,113	20.51	404,012	24.01	479,210	26.90
<b>Age</b>						
Under5	111,127	7.42	118,517	7.04	124,464	6.99
5 to 19	291,694	19.48	340,591	20.24	350,042	19.65
20 to 34	441,705	29.49	408,656	24.29	382,683	21.48
35 to 44	245,120	16.37	304,263	18.08	278,369	15.62
45 to 54	165,976	11.08	216,891	12.89	263,594	14.80
55 to 64	113,109	7.55	134,404	7.99	185,546	10.41
65 to 74	78,708	5.26	87,624	5.21	106,521	5.98
75 and Over	50,138	3.35	71,639	4.26	90,423	5.08

**Study Area (Continued)****Santa Cruz, CA (06087)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	114,043	49.64	127,470	49.87	130,913	49.89
Female	115,691	50.36	128,132	50.13	131,469	50.11
<b>Ethnicity</b>						
White	193,204	84.10	191,983	75.11	190,208	72.49
Black	2,289	1.00	2,751	1.08	2,766	1.05
Asian	8,747	3.81	8,812	3.45	11,461	4.37
Hispanic	45,827	19.95	68,572	26.83	84,092	32.05
<b>Age</b>						
Under5	16,334	7.11	15,369	6.01	15,045	5.73
5 to 19	46,078	20.06	54,272	21.23	52,252	19.91
20 to 34	59,770	26.02	57,510	22.50	58,140	22.16
35 to 44	43,195	18.80	43,016	16.83	33,075	12.61
45 to 54	23,018	10.02	40,626	15.89	38,777	14.78
55 to 64	15,249	6.64	19,501	7.63	35,935	13.70
65 to 74	14,210	6.19	12,267	4.80	15,874	6.05
75 and Over	11,880	5.17	13,041	5.10	13,284	5.06

**Solano, CA (06095)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	174,367	51.22	198,851	50.40	206,195	49.88
Female	166,054	48.78	195,691	49.60	207,149	50.12
<b>Ethnicity</b>						
White	227,212	66.74	222,096	56.29	210,751	50.99
Black	46,063	13.53	57,017	14.45	60,750	14.70
Asian	43,463	12.77	53,088	13.46	64,037	15.49
Hispanic	43,890	12.89	69,606	17.64	99,356	24.04
<b>Age</b>						
Under5	29,652	8.71	28,240	7.16	26,852	6.50
5 to 19	77,281	22.70	94,324	23.91	86,370	20.90
20 to 34	90,883	26.70	80,353	20.37	83,675	20.24
35 to 44	58,296	17.12	69,910	17.72	54,423	13.17
45 to 54	33,801	9.93	54,777	13.88	63,950	15.47
55 to 64	22,629	6.65	29,567	7.49	51,227	12.39
65 to 74	17,834	5.24	20,545	5.21	25,997	6.29
75 and Over	10,045	2.95	16,826	4.26	20,850	5.04

**Study Area (Continued)****Sonoma, CA (06097)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	190,292	49.02	225,797	49.23	237,902	49.17
Female	197,930	50.98	232,817	50.77	245,976	50.83
<b>Ethnicity</b>						
White	351,983	90.67	373,593	81.46	371,412	76.76
Black	5,554	1.43	6,486	1.41	7,610	1.57
Asian	10,881	2.80	14,820	3.23	19,899	4.11
Hispanic	39,537	10.18	79,624	17.36	120,430	24.89
<b>Age</b>						
Under5	28,367	7.31	27,034	5.89	28,199	5.83
5 to 19	77,092	19.86	97,027	21.16	92,285	19.07
20 to 34	89,637	23.09	85,672	18.68	93,365	19.30
35 to 44	71,926	18.53	77,184	16.83	60,603	12.52
45 to 54	40,278	10.37	73,849	16.10	73,518	15.19
55 to 64	28,574	7.36	40,330	8.79	68,544	14.17
65 to 74	29,699	7.65	27,443	5.98	35,544	7.35
75 and Over	22,649	5.83	30,075	6.56	31,820	6.58

**Alameda, CA (06001)**

	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
<b>Gender</b>						
Male	627,791	49.08	708,934	49.10	740,573	49.04
Female	651,391	50.92	734,807	50.90	769,698	50.96
<b>Ethnicity</b>						
White	762,557	59.61	702,440	48.65	649,122	42.98
Black	229,316	17.93	212,442	14.71	190,451	12.61
Asian	193,282	15.11	302,995	20.99	407,362	26.97
Hispanic	176,017	13.76	273,887	18.97	339,889	22.51
<b>Age</b>						
Under5	95,466	7.46	97,075	6.72	97,652	6.47
5 to 19	242,612	18.97	293,619	20.34	286,010	18.94
20 to 34	356,690	27.88	337,517	23.38	335,253	22.20
35 to 44	219,465	17.16	255,758	17.71	227,491	15.06
45 to 54	135,583	10.60	200,081	13.86	222,617	14.74
55 to 64	94,081	7.35	112,028	7.76	173,502	11.49
65 to 74	79,662	6.23	76,240	5.28	90,437	5.99
75 and Over	55,623	4.35	71,423	4.95	77,309	5.12

**Study Area (Continued)**  
**Contra Costa, CA**  
**(06013)**

<b>Gender</b>	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
Male	392,282	48.81	462,369	48.73	511,526	48.76
Female	411,450	51.19	486,447	51.27	537,499	51.24
<b>Ethnicity</b>						
White	611,700	76.11	619,576	65.30	614,512	58.58
Black	74,316	9.25	87,444	9.22	97,161	9.26
Asian	76,854	9.56	106,589	11.23	156,314	14.90
Hispanic	90,266	11.23	168,059	17.71	255,560	24.36
<b>Age</b>						
Under5	60,232	7.49	65,054	6.86	67,018	6.39
5 to 19	161,156	20.05	208,308	21.95	220,495	21.02
20 to 34	192,477	23.95	174,691	18.41	189,586	18.07
35 to 44	141,620	17.62	168,408	17.75	148,650	14.17
45 to 54	94,859	11.80	141,430	14.91	164,080	15.64
55 to 64	65,929	8.20	84,021	8.86	128,758	12.27
65 to 74	53,809	6.69	54,782	5.77	70,719	6.74
75 and Over	33,650	4.19	52,122	5.49	59,719	5.69

**Marin, CA (06041)**

<b>Gender</b>	1990		2000		2010	
	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>	<i>Total</i>	<i>Percent</i>
Male	114,152	49.61	122,346	49.47	124,072	49.16
Female	115,944	50.39	124,943	50.53	128,337	50.84
<b>Ethnicity</b>						
White	204,646	88.94	207,712	84.00	201,963	80.01
Black	7,998	3.48	7,168	2.90	6,987	2.77
Asian	9,190	3.99	11,320	4.58	14,270	5.65
Hispanic	17,004	7.39	27,441	11.10	39,069	15.48
<b>Age</b>						
Under5	13,609	5.91	13,281	5.37	13,932	5.52
5 to 19	34,524	15.00	40,806	16.50	42,520	16.85
20 to 34	52,191	22.68	41,456	16.76	35,144	13.92
35 to 44	46,925	20.39	45,066	18.22	36,478	14.45
45 to 54	33,449	14.54	45,453	18.38	42,055	16.66
55 to 64	21,177	9.20	27,770	11.23	40,088	15.88
65 to 74	17,172	7.46	16,737	6.77	23,211	9.20
75 and Over	11,049	4.80	16,720	6.76	18,981	7.52

Source: U.S. Department of Commerce, Bureau of the Census.

Table A.2 Personal Income by Industry for the US, CA and the Study Area by County 2010

	10	20	30		70	71	72	81	82	90
<b>County</b>	Personal income by Place of Residence	Population (persons) 2/	Per capita personal income (dollars)	Personal Income by Place of Work	Proprietors' income 6/	Farm proprietors' income	Nonfarm proprietors' income	Farm earnings	Nonfarm earnings	Private nonfarm earnings
Alameda	\$72,024,822	\$1,513,043	\$47,603	\$55,762,084	\$4,802,483	\$2,004	\$4,800,479	\$26,522	\$55,735,562	\$46,483,688
Contra Costa	\$57,700,398	\$1,052,605	\$54,817	\$29,351,680	\$4,283,595	\$23,919	\$4,259,676	\$38,209	\$29,313,471	\$25,635,477
Los Angeles	\$403,144,483	\$9,826,773	\$41,025	\$317,660,189	\$45,597,603	(\$18,138)	\$45,615,741	\$143,219	\$317,516,970	\$270,977,486
Marin	\$20,854,466	\$252,789	\$82,498	\$9,895,696	\$2,260,451	\$3,160	\$2,257,291	\$15,862	\$9,879,834	\$8,697,696
Mendocino	\$3,049,993	\$87,812	\$34,733	\$1,644,157	\$290,052	(\$16,619)	\$306,671	\$10,471	\$1,633,686	\$1,231,018
Monterey	\$16,677,674	\$416,366	\$40,055	\$11,640,804	\$1,882,623	\$416,471	\$1,466,152	\$1,041,553	\$10,599,251	\$7,431,905
Napa	\$6,672,968	\$136,840	\$48,765	\$4,522,236	\$539,480	(\$2,456)	\$541,936	\$104,030	\$4,418,206	\$3,683,617
Orange	\$147,138,449	\$3,017,598	\$48,760	\$110,971,524	\$15,460,796	(\$23,806)	\$15,484,602	\$54,950	\$110,916,574	\$99,333,176
San Benito	\$1,882,370	\$55,520	\$33,904	\$842,883	\$126,070	\$12,676	\$113,394	\$38,201	\$804,682	\$609,709
San Francisco	\$55,850,894	\$805,340	\$69,351	\$62,256,151	\$8,610,112	\$0	\$8,610,112	\$0	\$62,256,151	\$52,405,014
San Luis Obispo	\$10,436,017	\$270,112	\$38,636	\$6,346,739	\$1,018,309	\$44,713	\$973,596	\$108,427	\$6,238,312	\$4,861,242
San Mateo	\$47,946,507	\$719,604	\$66,629	\$35,037,442	\$4,076,376	(\$900)	\$4,077,276	\$61,139	\$34,976,303	\$32,289,319
Santa Barbara	\$18,309,874	\$424,630	\$43,120	\$12,507,607	\$1,752,523	\$137,571	\$1,614,952	\$448,698	\$12,058,909	\$9,340,149
Santa Clara	\$102,589,854	\$1,786,267	\$57,433	\$101,805,095	\$6,448,469	\$11,628	\$6,436,841	\$107,198	\$101,697,897	\$93,778,049
Santa Cruz	\$12,246,607	\$262,880	\$46,586	\$6,276,809	\$1,165,956	\$85,003	\$1,080,953	\$347,663	\$5,929,146	\$4,715,663
Solano	\$15,293,223	\$414,125	\$36,929	\$9,080,662	\$652,664	\$44,968	\$607,696	\$81,274	\$8,999,388	\$6,422,106
Sonoma	\$20,975,353	\$484,712	\$43,274	\$12,387,049	\$1,876,592	(\$6,242)	\$1,882,834	\$127,899	\$12,259,150	\$10,413,449
Ventura	\$36,506,222	\$825,445	\$44,226	\$22,313,520	\$2,516,083	\$247,125	\$2,268,958	\$760,955	\$21,552,565	\$17,548,652
<b>Study Areas</b>										
Cordell Bank	\$415,205,085	\$7,516,017	\$55,243	\$328,019,061	\$35,006,230	\$144,465	\$34,861,765	\$920,267	\$327,098,794	\$285,755,096
Gulf of the Farallones	\$415,205,085	\$7,516,017	\$55,243	\$328,019,061	\$35,006,230	\$144,465	\$34,861,765	\$920,267	\$327,098,794	\$285,755,096
Monterey Bay	\$420,175,800	\$7,685,491	\$54,671	\$332,818,281	\$35,866,588	\$641,186	\$35,225,402	\$1,970,078	\$330,848,203	\$287,013,485
Channel Islands	\$605,099,028	\$14,094,446	\$42,932	\$481,440,383	\$68,227,937	\$803,936	\$67,424,001	\$2,557,802	\$478,882,581	\$409,492,610
CALIFORNIA	\$1,564,209,194	\$37,338,198	\$41,893	\$1,156,546,040	\$146,825,576	\$6,668,225	\$140,157,351	\$13,088,799	\$1,143,457,241	\$938,549,377
UNITED STATES	\$12,308,496,000	\$309,330,219	\$39,791		\$1,109,795,000	\$50,739,000	\$1,059,056,000	\$75,843,000	\$8,982,530,000	\$7,337,528,000



Table A.2. Personal Income by Industry for the US, CA, and the Study Area by County, 2010 (Continued)

	100	200	300	400	500	600	700	800	900	1000
County	Forestry, fishing, and related activities	Mining	Utilities	Construction	Manufacturing	Wholesale trade	Retail trade	Transportation and warehousing	Information	Finance and insurance
Alameda	\$17,467	\$24,127	(D)	\$3,205,644	\$6,375,405	\$3,361,835	\$3,067,002	(D)	\$2,037,829	\$1,571,537
Contra Costa	(D)	(D)	\$410,016	\$2,021,851	\$3,319,759	\$856,377	\$1,838,904	\$930,048	\$1,075,262	\$2,711,789
Los Angeles	\$86,105	\$1,523,533	\$1,629,314	\$10,574,483	\$29,730,628	\$17,211,979	\$18,007,628	\$11,076,370	\$29,899,130	\$20,640,829
Marin	(D)	(D)	(D)	\$635,256	\$142,580	\$283,179	\$741,076	(D)	\$237,548	\$1,065,144
Mendocino	\$53,964	\$1,820	\$21,102	\$118,113	\$133,842	\$41,994	\$189,765	\$31,616	\$19,752	\$49,529
Monterey	\$1,199,709	\$28,378	\$70,215	\$425,574	\$374,362	\$600,082	\$673,340	\$249,481	\$154,132	\$300,494
Napa	\$115,412	\$7,245	\$23,800	\$274,590	\$877,543	\$165,079	\$253,323	\$96,544	\$55,372	\$182,495
Orange	\$48,312	\$132,974	\$695,312	\$7,017,374	\$13,408,512	\$8,565,069	\$7,009,997	\$2,105,648	\$2,787,384	\$10,422,096
San Benito	(D)	(D)	(D)	\$59,091	\$169,959	\$25,993	\$96,873	(D)	\$3,892	\$21,452
San Francisco	\$8,421	\$28,921	(D)	\$1,710,093	\$884,312	\$1,252,259	\$2,437,381	(D)	\$2,964,134	\$10,706,189
San Luis Obispo	\$74,396	\$58,880	(D)	\$514,280	\$390,179	\$191,643	\$536,771	(D)	\$97,860	\$206,821
San Mateo	\$15,279	\$8,417	\$211,205	\$1,625,894	\$4,105,671	\$1,366,844	\$1,802,139	\$1,826,295	\$2,787,475	\$3,414,435
Santa Barbara	\$236,533	\$143,946	\$33,914	\$668,035	\$1,027,216	\$355,058	\$804,523	\$186,214	\$376,202	\$461,051
Santa Clara	\$53,019	\$26,418	\$470,677	\$3,269,550	\$26,784,119	\$4,968,732	\$4,265,534	\$688,149	\$11,056,581	\$3,076,231
Santa Cruz	(D)	(D)	\$25,907	\$528,514	\$407,913	\$309,149	\$488,559	\$82,566	\$77,137	\$203,809
Solano	\$18,232	\$19,361	\$83,368	\$692,113	\$1,027,485	\$335,160	\$632,528	\$235,812	\$103,509	\$296,631
Sonoma	\$79,799	\$11,124	\$109,588	\$986,890	\$1,654,930	\$573,735	\$924,144	\$245,840	\$245,759	\$516,422
Ventura	\$292,758	\$262,288	\$137,253	\$1,002,574	\$3,512,108	\$1,242,866	\$1,467,709	\$302,654	\$527,114	\$1,725,533
<b>Study Areas</b>										
<b>Cordell Bank</b>	#VALUE!	#VALUE!	#VALUE!	\$15,068,508	\$45,713,559	\$13,514,343	\$16,640,355	#VALUE!	\$20,660,358	\$23,794,211
Gulf of the Farallones	#VALUE!	#VALUE!	#VALUE!	\$15,068,508	\$45,713,559	\$13,514,343	\$16,640,355	#VALUE!	\$20,660,358	\$23,794,211
Monterey Bay	#VALUE!	#VALUE!	#VALUE!	\$14,962,450	\$44,859,287	\$13,716,332	\$16,833,430	#VALUE!	\$20,650,731	\$23,757,027
Channel Islands	\$1,937,813	\$2,149,999	#VALUE!	\$20,202,320	\$48,443,005	\$28,166,697	\$28,499,968	#VALUE!	\$33,841,822	\$33,756,824
CALIFORNIA	\$6,871,774	\$4,693,094	\$8,812,715	\$55,140,819	\$119,620,654	\$54,538,312	\$68,697,780	\$32,225,363	\$61,112,181	\$71,940,068
UNITED STATES	\$27,373,000	\$97,662,000	\$75,574,000	\$489,548,000	\$895,864,000	\$454,320,000	\$549,657,000	\$298,642,000	\$294,804,000	\$679,992,000

Table A.2. Personal Income by Industry for the US, CA, and the Study Area by County, 2010 (Continued)

	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
<b>County</b>	Real estate and rental and leasing	Professional, scientific, and technical services	Management of companies and enterprises	Administrative and waste management services	Educational services	Health care and social assistance	Arts, entertainment, and recreation	Accommodation and food services	Other services, except public administration	Government and government enterprises
Alameda	\$730,465	\$7,965,378	\$2,281,542	\$1,880,189	\$734,329	\$7,010,174	\$833,882	\$1,244,119	\$1,927,319	\$9,251,874
Contra Costa	\$600,068	\$3,234,052	\$590,813	\$1,050,479	\$348,328	\$4,125,208	\$231,647	\$695,743	\$1,165,836	\$3,677,994
Los Angeles	\$6,464,124	\$37,158,153	\$5,637,224	\$12,267,406	\$6,467,430	\$30,846,052	\$10,299,145	\$9,132,693	\$12,325,260	\$46,539,484
Marin	\$291,916	\$1,946,123	\$268,200	\$430,634	\$215,532	\$1,214,442	\$218,956	\$315,978	\$541,938	\$1,182,138
Mendocino	\$21,533	\$86,829	\$15,201	\$45,329	\$8,882	\$211,556	\$10,665	\$78,359	\$91,167	\$402,668
Monterey	\$132,884	\$588,125	\$128,888	\$265,749	\$115,013	\$902,796	\$215,976	\$584,226	\$422,481	\$3,167,346
Napa	\$60,772	\$244,968	\$51,360	\$172,691	\$68,516	\$519,891	\$31,096	\$304,431	\$178,489	\$734,589
Orange	\$3,490,193	\$13,758,067	\$2,359,473	\$6,828,892	\$1,275,026	\$9,849,811	\$1,893,500	\$3,855,666	\$3,829,870	\$11,583,398
San Benito	\$7,639	(D)	(D)	\$21,255	\$2,630	\$42,871	\$7,029	\$20,399	\$43,205	\$194,973
San Francisco	\$1,439,662	\$14,134,713	\$2,965,064	\$2,555,223	\$1,019,751	\$3,425,342	\$1,084,025	\$2,615,193	\$1,773,859	\$9,851,137
San Luis Obispo	\$110,123	\$475,232	\$40,895	\$220,031	\$25,408	\$751,543	\$51,303	\$331,991	\$318,403	\$1,377,070
San Mateo	\$640,585	\$6,842,981	\$742,319	\$1,482,425	\$325,862	\$2,673,745	\$266,476	\$933,829	\$1,217,443	\$2,686,984
Santa Barbara	\$208,959	\$1,335,801	\$258,629	\$553,944	\$154,663	\$1,347,086	\$132,669	\$536,980	\$518,726	\$2,718,760
Santa Clara	\$1,270,992	\$18,126,928	\$1,513,376	\$3,382,487	\$2,816,478	\$7,397,983	\$746,789	\$1,774,810	\$2,089,196	\$7,919,848
Santa Cruz	\$83,003	\$471,400	\$231,470	\$255,231	\$81,610	\$815,323	\$75,906	\$224,592	\$307,115	\$1,213,483
Solano	\$87,861	\$324,074	\$126,085	\$296,795	\$86,665	\$1,420,027	\$64,437	\$232,693	\$339,270	\$2,577,282
Sonoma	\$221,647	\$1,297,410	\$152,528	\$421,860	\$105,043	\$1,701,290	\$134,639	\$444,095	\$586,706	\$1,845,701
Ventura	\$314,736	\$1,730,757	\$273,146	\$920,111	\$234,003	\$1,962,695	\$190,066	\$623,400	\$826,881	\$4,003,913
<b>Study Areas</b>										
<b>Cordell Bank</b>	\$5,448,504	\$54,674,856	\$8,937,958	\$11,973,343	\$5,810,996	\$30,514,981	\$3,698,518	\$8,863,842	\$10,218,338	\$41,343,698
Gulf of the Farallones	\$5,448,504	\$54,674,856	\$8,937,958	\$11,973,343	\$5,810,996	\$30,514,981	\$3,698,518	\$8,863,842	\$10,218,338	\$41,343,698
Monterey Bay	\$5,455,970	#VALUE!	#VALUE!	\$12,013,189	\$5,840,122	\$30,299,345	\$3,827,522	\$9,278,004	\$10,324,554	\$43,834,718
Channel Islands	\$10,721,019	\$55,046,135	\$8,698,255	\$21,056,133	\$8,271,543	\$45,659,983	\$12,782,659	\$15,064,956	\$18,241,621	\$69,389,971
CALIFORNIA	\$21,774,611	\$138,238,602	\$22,143,442	\$45,519,865	\$17,631,021	\$112,563,613	\$19,573,843	\$34,629,416	\$42,822,204	\$204,907,864
UNITED STATES	\$162,589,000	\$879,332,000	\$216,577,000	\$348,184,000	\$147,868,000	\$1,013,681,000	\$100,520,000	\$271,451,000	\$333,890,000	\$1,645,002,000

Table A.3. Total Full and Part-time Employment by Industry and County, 2010

County	Total employment	Wage and salary employment	Proprietors employment	Farm proprietors employment	Nonfarm proprietors employment 2/	Farm employment	Nonfarm employment	Private nonfarm employment	Forestry, fishing, and related activities
Alameda	854,126	666,342	187,784	436	187,348	975	853,151	742,392	477
Contra Costa	470,495	333,906	136,589	534	136,055	923	469,572	420,174	D
Los Angeles	5,414,763	4,058,638	1,356,125	1,425	1,354,700	5,722	5,409,041	4,806,853	2,866
Marin	177,066	110,886	66,180	206	65,974	517	176,549	161,042	D
Mendocino	46,884	30,577	16,307	975	15,332	1,952	44,932	37,769	1,414
Monterey	221,952	178,694	43,258	893	42,365	15,973	205,979	168,631	30,450
Napa	88,421	67,300	21,121	1,220	19,901	3,485	84,936	74,493	2,635
Orange	1,870,491	1,446,198	424,293	245	424,048	2,470	1,868,021	1,711,850	1,495
San Benito	20,464	14,501	5,963	526	5,437	1,125	19,339	16,546	D
San Francisco	719,646	569,027	150,619	0	150,619	0	719,646	615,309	240
San Luis Obispo	147,720	105,058	42,662	2,315	40,347	3,929	143,791	122,652	2,523
San Mateo	460,901	338,723	122,178	261	121,917	1,758	459,143	426,579	475
Santa Barbara	246,968	188,996	57,972	1,209	56,763	10,763	236,205	197,713	7,442
Santa Clara	1,111,764	888,756	223,008	882	222,126	3,148	1,108,616	1,016,114	1,525
Santa Cruz	138,386	97,375	41,011	539	40,472	8,463	129,923	111,175	D
Solano	168,062	135,422	32,640	762	31,878	1,645	166,417	133,768	566
Sonoma	261,631	185,221	76,410	2,849	73,561	6,287	255,344	227,018	2,489
Ventura	416,794	318,108	98,686	1,916	96,770	16,191	400,603	351,105	8,008
<b>Study Areas</b>									
Cordell Bank	4,497,382	3,423,535	1,073,847	8,664	1,065,183	12.3	22.9	23.6	4.6
Gulf of the Farallones	4,497,382	3,423,535	1,073,847	8,664	1,065,183	12.3	22.9	23.6	4.6
Monterey Bay	4,579,003	3,505,990	1,073,013	8,574	1,064,439	17.7	23.3	23.8	18.2
Channel Islands	8,318,688	6,295,692	2,022,996	8,003	2,014,993	23.2	42.4	43.8	24.7
California	19,732,278	15,047,583	4,684,695	67,841	4,616,854	8.9	11.4	11.5	25.3
United States	173,626,700	136,108,000	37,518,700	1,892,000	35,626,700	2,657,000	170,969,700	146,290,700	846,400

Table A.3. Total Full and Part-time Employment by Industry and County, 2010 (Continued)

County	Mining	Utilities	Construction	Manufacturing	Wholesale trade	Retail trade	Transportation and warehousing	Information	Finance and insurance
Alameda	1,121	D	42,245	64,640	40,921	74,865	D	18,482	29,165
Contra Costa	D	2,388	26,965	20,259	10,466	51,025	9,312	11,821	36,614
Los Angeles	13,925	12,246	182,175	401,814	250,683	491,974	190,763	234,127	264,874
Marin	D	D	9,465	3,067	3,778	16,933	D	3,372	12,938
Mendocino	353	162	3,070	2,797	923	5,798	808	493	1,436
Monterey	548	505	7,483	6,206	6,230	19,580	4,120	2,246	5,948
Napa	198	216	4,204	11,128	2,142	7,597	1,724	865	2,913
Orange	4,979	4,198	92,978	160,635	95,136	176,443	31,673	31,291	126,837
San Benito	D	D	1,372	2,714	482	2,647	D	130	722
San Francisco	1,117	D	21,858	10,863	13,600	48,717	D	23,608	58,662
San Luis Obispo	699	D	9,162	5,913	3,525	16,983	D	1,751	5,633
San Mateo	857	1,269	20,123	28,570	14,428	41,125	27,822	20,031	28,681
Santa Barbara	1,684	357	11,360	12,678	5,202	22,667	3,650	4,497	8,078
Santa Clara	1,703	1,563	44,117	156,688	41,143	93,825	15,893	48,888	42,932
Santa Cruz	D	186	6,767	6,517	4,575	14,610	1,873	1,536	4,566
Solano	430	535	9,991	9,612	5,115	20,331	4,897	2,021	6,041
Sonoma	736	719	15,939	22,407	8,581	27,389	4,640	3,724	10,502
Ventura	2,253	1,160	18,822	33,987	15,565	44,537	6,089	6,990	27,533
<b>Study Areas</b>									
Cordell Bank	#VALUE!	#VALUE!	204,744	336,548	145,672	402,215	#VALUE!	134,841	234,450
Gulf of the Farallones	#VALUE!	#VALUE!	204,744	336,548	145,672	402,215	#VALUE!	134,841	234,450
Monterey Bay	#VALUE!	#VALUE!	203,752	326,177	146,405	408,238	#VALUE!	134,751	234,815
Channel Islands	24,088	#VALUE!	321,980	621,233	376,341	772,184	#VALUE!	280,902	438,903
California	60,398	59,397	874,486	1,323,830	727,270	1,893,393	572,625	509,556	957,558
United States	1,269,000	582,200	8,863,700	12,107,900	6,045,000	17,702,600	5,519,200	3,229,600	9,224,400

Table A.3. Total Full and Part-time Employment by Industry and County, 2010 (Continued)

County	Real estate and rental and leasing	Professional, scientific, and technical services	Management of companies and enterprises	Administrative and waste management services	Educational services	Health care and social assistance	Arts, entertainment, and recreation	Accommodation and food services
Alameda	37,270	96,527	16,057	48,358	23,140	95,692	23,431	51,393
Contra Costa	31,586	46,180	5,601	29,106	11,112	53,363	12,661	29,134
Los Angeles	294,586	446,724	59,006	357,253	144,757	533,211	200,838	352,302
Marin	12,938	26,741	2,133	10,818	5,768	18,452	7,739	11,188
Mendocino	2,182	2,787	223	2,064	518	4,678	1,131	4,089
Monterey	8,721	11,208	1,488	8,665	3,644	15,530	4,569	19,727
Napa	3,839	4,771	1,096	5,370	1,879	8,042	1,672	9,368
Orange	127,973	179,825	23,918	155,680	37,128	160,955	54,155	144,039
San Benito	1,098	D	D	899	227	1,094	444	1,023
San Francisco	33,223	114,721	15,610	44,514	23,852	52,823	26,593	71,401
San Luis Obispo	9,056	10,655	594	8,129	1,627	13,744	3,674	14,856
San Mateo	27,480	63,982	4,878	29,447	9,603	37,375	10,929	32,238
Santa Barbara	12,371	21,064	2,011	14,848	4,536	22,929	6,606	20,891
Santa Clara	57,608	157,553	10,037	65,859	42,668	94,867	21,628	68,316
Santa Cruz	7,587	11,105	1,921	6,977	3,861	14,789	4,869	10,127
Solano	7,171	7,335	1,630	10,448	2,584	20,619	3,813	11,778
Sonoma	14,483	24,899	1,916	13,794	4,458	27,671	7,843	19,386
Ventura	21,248	30,969	2,909	26,275	7,809	35,782	10,120	28,020
<b>Study Areas</b>								
Cordell Bank	235,367	556,601	61,102	266,755	129,443	428,371	122,309	318,418
Gulf of the Farallones	235,367	556,601	61,102	266,755	129,443	428,371	122,309	318,418
Monterey Bay	237,577	#VALUE!	#VALUE!	268,590	129,965	426,390	122,022	330,549
Channel Islands	473,955	700,445	89,926	570,850	199,501	782,151	279,962	579,835
California	1,042,363	1,708,556	207,426	1,253,780	440,359	1,866,022	538,884	1,379,286
United States	7,739,000	11,800,800	2,014,400	10,447,200	4,088,900	19,096,900	3,787,400	12,058,300

Table A.3. Total Full and Part-time Employment by Industry and County, 2010 (Continued)

County	Other services, except public administration	Government and government enterprises	Federal, civilian	Military	State and local	State government	Local government
Alameda	46,587	110,759	10,600	3,846	96,313	30,134	66,179
Contra Costa	29,463	49,398	5,221	1,716	42,461	507	41,954
Los Angeles	372,729	602,188	52,583	18,366	531,239	79,512	451,727
Marin	12,712	15,507	916	642	13,949	2,182	11,767
Mendocino	2,843	7,163	333	175	6,655	405	6,250
Monterey	11,763	37,348	5,835	5,964	25,549	4,791	20,758
Napa	4,834	10,443	426	221	9,796	3,548	6,248
Orange	102,512	156,171	12,619	5,604	137,948	25,619	112,329
San Benito	1,175	2,793	160	90	2,543	D	D
San Francisco	39,203	104,337	15,361	1,697	87,279	43,659	43,620
San Luis Obispo	10,049	21,139	676	472	19,991	9,263	10,728
San Mateo	27,266	32,564	4,064	1,327	27,173	506	26,667
Santa Barbara	14,842	38,492	4,138	3,413	30,941	D	D
Santa Clara	49,301	92,502	10,663	3,248	78,591	6,617	71,974
Santa Cruz	8,259	18,748	548	425	17,775	6,274	11,501
Solano	8,851	32,649	4,686	7,378	20,585	4,928	15,657
Sonoma	15,442	28,326	1,796	1,463	25,067	4,575	20,492
Ventura	23,029	49,498	7,823	6,374	35,301	2,007	33,294
<b>Study Areas</b>							
Cordell Bank	244,761	502,396	54,614	22,138	425,644	103,335	322,309
Gulf of the Farallones	244,761	502,396	54,614	22,138	425,644	103,335	322,309
Monterey Bay	249,463	528,187	59,156	27,026	442,005	#VALUE!	#VALUE!
Channel Islands	534,924	904,836	83,674	40,193	780,969	#VALUE!	#VALUE!
California	1,183,534	2,682,167	269,087	223,945	2,189,135	495,004	1,694,131
United States	9,867,800	24,679,000	3,038,000	2,101,000	19,540,000	5,292,000	14,248,000

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System

Table A.4. Unemployment Rates and Labor Force by County, 1990, 2000, 2005, and 2010

County	Unemployment Rates				Labor Force			
	1990	2000	2005	2010	1990	2000	2005	2010
Alameda	4.1	3.6	5.1	11.3	677,657	769,061	735,682	761,264
Contra Costa	4.0	3.5	4.9	11.1	435,475	500,940	510,842	523,315
Los Angeles	5.8	5.4	5.4	12.6	4,523,712	4,677,326	4,771,417	4,910,534
Marin	2.5	2.8	3.9	8.0	131,938	141,809	129,333	133,128
Mendocino	7.6	5.6	5.8	11.3	38,764	43,576	43,926	43,307
Monterey	9.7	7.4	7.3	12.7	172,807	203,188	206,975	220,933
Napa	4.1	3.6	4.4	9.7	56,443	66,625	71,460	75,734
Orange	3.5	3.5	3.8	9.5	1,353,596	1,481,143	1,588,827	1,591,042
San Benito	12.2	6.0	8.1	17.2	20,956	27,450	24,550	26,044
San Francisco	3.8	3.4	5.0	9.6	409,538	472,759	414,134	456,589
San Luis Obispo	4.6	4.0	4.3	9.9	99,815	122,463	131,725	138,182
San Mateo	2.6	2.9	4.3	8.8	370,361	398,171	360,972	374,909
Santa Barbara	4.9	4.4	4.4	9.4	192,637	202,387	213,600	222,380
Santa Clara	4.0	3.1	5.3	11.0	852,762	940,731	816,954	880,803
Santa Cruz	7.2	5.1	6.3	12.6	135,745	148,350	143,273	149,934
Solano	4.8	4.6	5.4	12.0	164,957	194,209	208,894	214,620
Sonoma	3.9	3.4	4.5	10.5	206,345	253,260	253,887	256,053
Ventura	5.8	4.5	4.8	10.8	366,756	392,665	416,751	434,750
<b>Study Areas</b>								
Cordell Bank	4.0	3.5	5.0	10.6	3,479,985	3,929,491	3,689,357	3,869,656
Gulf of the Farallones	4.0	3.5	5.0	10.6	3,479,985	3,929,491	3,689,357	3,869,656
Monterey Bay	4.3	3.7	5.2	10.8	3,528,454	3,985,756	3,754,794	3,955,455
Channel Islands	5.4	5.0	5.0	11.7	6,709,323	7,079,172	7,329,295	7,517,821
California	5.8	4.9	5.4	12.4	15,168,531	16,857,578	17,544,763	18,316,411
United States	5.6	4.0	5.1	9.6				

Source: U.S. Department of Labor, Bureau of Labor Statistics.