

The Cost of Smoking in California

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Highlights

- The economic burden of smoking in California in 2009 amounted to \$18.1 billion.
- The cost of smoking in California was \$487 per Californian and \$4,603 per smoker.
- The cost of smoking per resident varies among counties, from \$374 in Orange County to \$1,002 in Lake County.
- While there are fewer smokers in California than there were a decade ago, 3.9 million Californians still smoke. Included are nearly 3.8 million adults and 146,000 adolescents.
- More adult males than females smoke in California – 2.4 million or 17.2 percent of adult men compared to 1.4 million or 10.1 percent of adult women. Adolescent males smoke at higher rates than adolescent females – 5.8 percent vs. 3.2 percent.
- A majority of adult current smokers in California are light smokers, who smoke some days or fewer than 10 cigarettes per day. This includes 59.7% of male and 61.0% of female current smokers. Only 17.7% and 11.3% of adult current male and female smokers respectively are heavy smokers, smoking a pack a day or more (20+ cigarettes).
- The cost of smoking for men is greater than that for women – \$11.7 billion compared to \$6.4 billion. Direct costs and indirect lost productivity costs due to illness are 35% and 46% greater for men respectively, while indirect costs of lost productivity from premature death are more than 3 times greater for men than for women.
- Direct healthcare costs of smoking account for 54.4 percent of the total cost of smoking in California – \$9.8 billion. Lost productivity due to illness comprises 7.9 percent of the total, or \$1.4 billion, and lost productivity from premature death comprises the remaining 37.6 percent, or \$6.8 billion.
- Expenditures for hospital care of current and former smokers amount to \$4.3 billion, or 43.9 percent of total healthcare costs attributable to smoking; ambulatory care services amount to \$2.1 billion or 20.9 percent; nursing home care amounts to \$1.5 billion or 15.4 percent; prescription drugs amount to \$1.1 billion; and home health care amounts to \$794 million.
- Almost 15% of deaths in California in 2009 are attributed to smoking, for a total of 34,363 deaths. This represents \$6.8 billion in lost productivity and 587,000 years of potential life lost, or 17.1 years lost per death.
- Men account for 59.8% of deaths attributed to smoking, 60.3% of years of potential life lost, and 76.0% of the value of lost productivity.
- Total costs of smoking increased by 15% compared to the costs in 1999 – from \$15.8 billion to \$18.1 billion. However, real costs which adjust for inflation actually decreased by 22% between 1999 and 2009.

Background: Economic Aspects of Smoking

Introduction

The health hazards of smoking have been known and documented for many years, beginning with the 1964 landmark report of the Surgeon General of the United States (U.S. Department of Health, Education, and Welfare (US DHEW), 1964). Smoking prevalence in the United States and in California has declined substantially. In 2009, 20.6 percent of the adult population 18 years of age and over in the U.S. smoked cigarettes (Dube et al., 2010) down from 42.4 percent in 1965 (Centers for Disease Control and Prevention (CDC), 2014a). In California, 13.1 percent of adults smoked in 2009, down from 24.9 percent in 1984 (California Department of Public Health (CDPH), 2010). In California there is a considerable difference in smoking behaviors among counties, with 2008 adult smoking prevalence ranging from 7.3 percent in Marin County to 22.8 percent in Tehama County (Al-Delaimy et al., 2010).

Cigarette smoking is known to be the leading cause of preventable death in the United States and in California, accounting for one out of five deaths. It leads to substantial health costs and lost productivity from illness and premature death (Max, Rice, Sung, Zhang, & Miller, 2004; Max, Sung, Tucker, & Stark, 2010; Max, Sung, Tucker, & Stark, 2011; Max, 2001a; Miller, Zhang, Novotny, Rice, & Max, 1998a; Miller, Zhang, Rice, & Max, 1998b; Zhang, Miller, Max, & Rice, 1999b). In addition to the impact of smoking on active smokers, nonsmokers who are exposed to secondhand smoke (SHS) also suffer ill health effects and increased mortality. These negative health impacts have been recently documented in several substantial reports which summarize the literature linking SHS exposure to respiratory effects in children, and adult effects on cancer, cardiovascular disease, and respiratory disease (Obergh, Jaakkola, Woodward, Peruga, & Pruss-Ustun, 2011; U.S. Department of Health and Human Services (US DHHS), 2006; California Environmental Protection Agency (CA EPA), 2005; US DHHS, 2014). In addition to health effects, SHS exposure results in premature death and excess healthcare costs (Max, Sung, & Shi, 2012; Max, Sung, & Shi, 2014).

Smoking prevalence has been falling in California over the years. In 2010, 11.9 percent of the state's adults smoked, down from 13.1 percent in 2009, reaching the federal Healthy People 2020 target of reducing the adult smoking prevalence rate to 12 percent (CDPH, 2011). In addition, there has been a decline in cigarettes smoked per day among those who still smoke, with the average number of cigarettes smoked per day among daily smokers falling from 19.3 in 1992 to 14.5 in 2008 (Al-Delaimy et al., 2010). There has also been a shift from daily to nondaily smoking: nondaily smokers represented 14.8 percent of California smokers in 1992 and increased to 28.1 percent in 2008 (Al-Delaimy et al., 2010). Studies report that even occasional smoking still has a negative impact on health and is not a safe alternative for daily smoking. (Luoto, Uutela, & Pushka, 2000).

Previous Estimates of the Cost of Smoking for California

Several cost of smoking studies have been conducted for the state, including some studies for the U.S. which disaggregate findings by state.

- The early studies relied on epidemiologic approaches in which mortality or health care utilization was used to determine the proportion of healthcare expenditures attributable to smoking (Office of Technology Assessment, 1985; Rice, Hodgson, Sinsheimer, Browner, & Kopstein, 1986; Kaplan & Wright, 1988; US DHHS, 1990; Rice & Max, 1992). Estimates for direct and indirect costs in California ranged from \$5.8 billion in 1985 (US DHHS, 1990) to \$7.6 billion in 1989 (Rice & Max, 1992). Healthcare and mortality costs were \$13.7 billion in California for 2002 (Max et al., 2010).
- Leonard Miller and colleagues estimated state-by-state totals of total medical expenditures (Miller et al., 1998b), Medicaid costs (Miller et al., 1998a), and Medicare costs (Zhang et al., 1999b) attributed to cigarette smoking for 1993. These studies used an econometric national model that described the relationship between smoking and medical expenditures controlling for sociodemographic, economic, and behavioral factors. Total smoking-attributable medical expenditures in 1993 for California amounted to \$8.7 billion.
- Vincent Miller and colleagues (Miller, Ernst, & Collin, 1999) also employed an econometric model to estimate the medical care costs of smoking by state. Smoking-attributable medical expenditures in 1993 for California amounted to \$5.4 billion. The CDC (2014a) updated these estimates and found that smoking-attributable medical expenditures in 2004 for California amounted to \$9.6 billion.
- Max and colleagues (Max, Rice, Zhang, & Miller, 2002; Max et al., 2004) updated their earlier estimates of county-level costs using an econometric modeling approach. The total cost of smoking in the state was found to total \$15.8 billion for 1999, including \$8.6 billion for direct costs, \$1.5 billion for the lost productivity of those living with tobacco-related illnesses, and \$5.7 billion for lost productivity from smoking-caused premature death. They have extended the models to look at African Americans (Max et al., 2010) and Hispanics (Max et al., 2011) in California, and the impact of tobacco control expenditures on healthcare expenditures in the state (Max, Sung, & Lightwood, 2013). Max and colleagues have also developed a dynamic model of the impact of smoking behavior on mortality, morbidity, health status and healthcare expenditures in California over time that evaluates the economic impact of the California Tobacco Control Program (Miller, Max, Sung, Rice, & Zaretsky, 2010).
- Estimates of SHS exposure (Max et al., 2012; National Cancer Institute (NCI), 1999) and resulting economic burden in California have been reported in recent studies. Max and colleagues (Max et al., 2014) estimated that healthcare costs for Californian nonsmokers exposed to SHS at home totaled \$241 million in 2009, with the largest proportion of costs attributable to ischemic heart disease among adults. The value of SHS-attributable lost productivity from premature mortality amounted to \$119 million.

Contributions of this report

This report is the third report in a series on California smoking-attributable costs, following reports done for 1989 (Rice & Max, 1992) and 1999 (Max et al., 2002). The estimates presented here build upon our previous studies:

- The models are based on the most recently available data, which reflect a number of changes that have occurred in California over the last decade, including
 - shifts in the racial/ethnic population mix, particularly an increase in California's Hispanic population
 - changes in smoking behavior, particularly an increase in nondaily smokers (compared to daily smokers) and a decrease in cigarettes smoked per day among daily smokers
- The estimates are 10 years more current than the previous county estimates, and allow for comparisons to the cost of smoking over the last 2 decades
- The direct cost of smoking models now incorporate intensity of smoking among current smokers (light, moderate, heavy, and daily/nondaily smokers)

Methods

This report contains estimates of the economic impact of the health effects of smoking using three measures.

- **Direct costs** include expenditures for **hospital care, ambulatory care, prescription drugs, home health care, and nursing home services**. Direct costs of smoking are estimated for smokers aged 18 and older.
- **Indirect costs of lost productivity from illness represent the value of time lost from work and household production that are attributed to smoking**. Indirect costs of lost productivity from illness are estimated for smokers aged 18 and older.
- **Indirect mortality costs from premature death attributed to smoking are estimated as the present value of lost earnings, including both paid employment and household production that are lost over the expected remaining lifetime as a result of smoking**. Indirect mortality costs of smoking are estimated for adults aged 35 and older because the negative effects of smoking on mortality usually show up after many years of smoking with one exception. **We count deaths from perinatal illnesses due to in utero exposure to maternal smoking for children under age 1. We also include deaths from 3 causes related to SHS exposure among adults – lung cancer, ischemic heart disease, and asthma.**

The study uses a prevalence-based, annual cost approach, in which the annual cost is estimated for all smoking-related illness, death, or healthcare expenditures regardless of when a person first became ill. Estimation of the three measures of economic burden of smoking relies on a common conceptual approach. In each case, a smoking-attributable fraction (SAF) is estimated and then applied to the total measure of interest to obtain the smoking-attributable measure for each county. For example, the SAF for hospitalization expenditures represents the proportion of hospitalization expenditures that are attributable to smoking. This SAF is multiplied by the total hospitalization expenditures to obtain smoking-attributable hospital expenditures.

18 California Regions. Smoking prevalence is estimated for 18 regions in the state rather than for each of the 58 counties, due to the small data samples in many of the individual counties. The 18 regions consist of the 10 largest counties (Los Angeles, San Diego, Orange, Santa Clara, San Bernardino, Alameda, Riverside, Sacramento, Contra Costa, San Francisco) plus eight regions comprised of groups of the other 48 counties (see page 47 for details of what counties are in each of the these eight regions). County groupings consist of those with similar characteristics that are mostly contiguous. The SAF is computed by region rather than by individual county to obtain a large enough sample for statistical validity (Gilpin et al., 2001), and then applied to county-specific data for each individual county within a region.

Smoking-Related Diseases

The direct costs of smoking are estimated using an econometric modeling approach which predicts each individual's total annual healthcare costs for all diseases instead of selective smoking-related diseases. Using this excess cost approach, costs are predicted for smokers and for never smokers, controlling for other ways in which they may differ from each other. The difference is the cost attributed to smoking. Similarly, indirect costs of lost productivity from illness that are attributed to smoking are also estimated using an econometric model for all diseases. Therefore, neither the calculation of the smoking-attributable direct costs, nor the indirect costs of lost productivity from illness for smokers, are limited to certain diseases.

For smoking-attributable mortality, we use the 19 smoking-related underlying causes of death identified as causally linked to cigarette smoking based on the Cancer Prevention Study II (CPS-II) for the period 1982–1988 (US DHHS, 2014, Table 12.1; CDC, 2014b). We also include 3 additional adult diseases – hypertension, respiratory tuberculosis (TB), and asthma – based on the CPS-II for the period 1982–1986 (Shultz, Novotny, & Rice, 1991; US DHHS, 1989), as well as 4 perinatal diseases for children under age 1 (CDC, 2014b). The smoking-attributable diseases included are shown in Table 3 on page 38. For SHS-related mortality, we include 3 SHS-associated causes of death for adults which were identified as causally linked to secondhand exposure by the California Environmental Protection Agency (2005) or the Surgeon General (US DHHS, 2006).

Data Sources

A number of datasets were analyzed in this study, including three California data sources and two national surveys.

California Health Interview Survey (CHIS). The CHIS includes information about individual's smoking history, SHS exposure, other risk behaviors, and demographic and socioeconomic characteristics. The 2009 CHIS contained 47,614 adults which comprise a representative sample of California's race/ethnic population. Data from 2007 and 2009 were pooled to obtain an adequate sample size for adolescents (n=7,017). Information from the CHIS was input into the estimated national models of cost of smoking to compute the predicted smoking-attributable healthcare expenditures and the predicted smoking-attributable lost productivity from illness for Californians. It was also used for the estimation of county-level smoking prevalence by age and gender.

California Mortality File. This data file is a compilation of all death certificates in the state. The underlying cause of death is coded using ICD-10 codes. The data file for 2009 was used as the source of deaths from smoking-related diseases. It contained death certificates for 231,764 Californians for 2009.

California Patient Discharge and Hospital Financial Data. These datasets are released by the California Office of Statewide Health Planning and Development (OSHPD). The Patient Discharge dataset contains discharge abstracts for all acute care hospitals licensed by the state. Each hospital in the state is required to submit semiannual data for every

patient discharged from the facility, including demographic data, diagnostic information, procedure codes, and total charges with expected principal source of payments. The Hospital Financial dataset contains each hospital's total annual charges and costs, and we use it to convert the charges reported in the Patient Discharge data into costs. The 2009 datasets were used to estimate county-level hospital expenditures.

Medical Expenditure Panel Survey (MEPS). The MEPS is a nationally representative survey containing detailed information on each individual's healthcare utilization, expenditures, sources of payment, and the associated ICD-9 diagnostic codes for each type of healthcare services used for the U.S. civilian noninstitutionalized population. It also contains information about individual's health insurance coverage, health status, medical conditions, and demographic and socioeconomic characteristics. The MEPS survey uses the National Health Interview Survey (NHIS - described below) as its sampling frame. Each year a new MEPS panel is established drawing randomly from the previous year's NHIS households and this panel is followed for a two-year period (Agency for Healthcare Research and Quality, 2011). Thus, each year's MEPS data contain two panels which are linked to the previous two years' NHIS data (Agency for Health Care Policy and Research, 1997). While the MEPS does not include questions about individual's smoking history, the NHIS does contain individual smoking history and other risk behaviors for adults aged 18 years and older. Therefore, we linked the MEPS data to the NHIS Sample Adult file to estimate the national models of smoking-attributable healthcare expenditures. To increase the sample size for the smoking-attributable healthcare cost analysis, we pooled the linked MEPS-NHIS data from 2004-2009. The final sample contains nearly 60,000 adults. The sample size by race/ethnicity and year is shown in Table A below.

| Table A. Unweighted sample sizes for the MEPS dataset by year and linkage to the NHIS files | | | | | | | |
|--|--------|--------|--------|--------|--------|--------|-----------|
| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2004-2009 |
| Adult Cases, MEPS | 34,403 | 33,961 | 34,145 | 30,964 | 33,066 | 36,855 | 203,394 |
| Linked Cases, MEPS-NHIS | 10,384 | 10,267 | 10,221 | 9,167 | 9,359 | 10,090 | 59,488 |
| Race/Ethnicity: | | | | | | | |
| Non-Hisp. Whites | 6,203 | 6,015 | 5,977 | 5,368 | 4,885 | 5,174 | 33,622 |
| Hispanics | 2,026 | 1,970 | 1,879 | 1,627 | 1,909 | 2,080 | 11,491 |
| Non-Hisp. Blacks | 1,567 | 1,679 | 1,782 | 1,597 | 1,862 | 2,051 | 10,538 |
| Non-Hisp. Asians | 343 | 355 | 345 | 380 | 495 | 571 | 2,489 |
| Non-Hisp. Others | 245 | 248 | 238 | 195 | 208 | 214 | 1,348 |

National Health Interview Survey (NHIS). The NHIS is a nationally representative cross-sectional face-to-face household interview survey conducted annually by the National Center for Health Statistics. Approximately 100,000 people in 40,000 households are surveyed each year. One adult from each household is randomly selected to participate in

the Sample Adult survey. Data collected include sociodemographic information, employment status, smoking status, limitation of activity including the number of days missed from work due to illness or injury and days spent in bed due to illness or injury, health status, use of healthcare services, and acute and chronic conditions. The 2002-2008 NHIS data were linked to the 2004-2009 MEPS data to obtain smoking status for the MEPS sample as described above. The 2009 NHIS Sample Adult was used to estimate smoking-attributable work loss days for working people and bed disability days for those who are not in the labor force but mainly keeping house. It contains 27,731 adults.

Smoking-Attributable Fraction (SAF)

The SAF is the proportion of illness, death, lost productivity, or healthcare cost that can be attributed to smoking. In order to estimate the SAF, two types of data are necessary: relative risk and smoking prevalence.

Relative risk. Relative risk (RR) is the ratio of the rates of illness or death in the exposed population to the rates in the unexposed population. Thus the relative risk for current and former smokers is:

$$RR_c = r_c/r_n \quad \text{and} \quad RR_f = r_f/r_n \quad (\text{Eq.1})$$

- where r_c = rate of illness or death for current smokers
- r_f = rate of illness or death for former smokers
- r_n = rate of illness or death for never smokers
- RR_c = relative risk for current smokers relative to never smokers
- RR_f = relative risk for former smokers relative to never smokers

Smoking prevalence. Smoking prevalence is the percentage of smokers in California. Smoking prevalence is shown in Table 18 and is estimated from the 2009 CHIS data. Californians are categorized as current, former, or never smokers. Prevalence of current, former, and never smoking is estimated for the 18 regions of California, by gender and by age group (adolescents aged 12-17, and adults aged 18 and older). An adolescent is considered a current smoker if he or she has ever smoked cigarettes, and smoked cigarettes for at least one day in the past 30 days. He or she is categorized as a former smoker if he or she indicates that they have ever smoked cigarettes, but did not smoke at all in the past 30 days. A never smoker is someone who reports never having smoked cigarettes in his or her lifetime. For adults, a current smoker is someone who reports smoking at least 100 cigarettes in their lifetime and who smokes everyday or some days at the time of the survey. A former smoker is someone who has smoked 100 cigarettes in their lifetime but did not smoke at the time of the survey. A never smoker is someone who has not smoked 100 cigarettes during their lifetime. Adult current smokers are further categorized by smoking intensity as light (smoked fewer than 10 cigarettes per day or smoked some days), moderate (smoked 10-19 cigarettes per day), and heavy (smoked 20 or more cigarettes per day) smokers.

Calculating the SAF. Once the relative risk and smoking prevalence have been determined, the smoking-attributable fraction can be calculated. For example, the SAF for

mortality is estimated using an adaptation of the standard epidemiological formula for attributable risk (Lilienfeld & Stolley, 1994):

$$\text{SAF} = \frac{[(p_n + p_c(\text{RR}_c) + p_f(\text{RR}_f)) - 1]}{[(p_n + p_c(\text{RR}_c) + p_f(\text{RR}_f))]} = \frac{p_c(\text{RR}_c - 1) + p_f(\text{RR}_f - 1)}{[(p_n + p_c(\text{RR}_c) + p_f(\text{RR}_f))]} \quad (\text{Eq. 2})$$

where p_n = percentage of never smokers in the region
 p_c = percentage of current smokers in the region
 p_f = percentage of former smokers in the region
 RR_c = relative risk of death for current smokers compared to never smokers
 RR_f = relative risk of death for former smokers compared to never smokers

Direct Cost

Direct costs include the personal healthcare expenditures for five types of services: hospitalizations, ambulatory care, prescription drugs, home health care, and nursing home care. Hospitalizations include room and board and inpatient physician services. Ambulatory care includes office-based medical provider visits, outpatient visits, and emergency department visits. Prescriptions include prescription drugs, glasses, and other medical nondurables.

Direct costs of smoking are the excess healthcare expenditures for smokers compared to never smokers. We estimated the direct costs of smoking using an econometric modeling approach developed and refined over many years (Bartlett, Miller, Rice & Max, 1994; Miller et al., 1998a and 1998b; Zhang et al., 1999b; Max et al., 2002; Max et al., 2010; Max et al., 2011). After modeling healthcare expenditures as a function of smoking status/intensity and other covariates, we used the estimated parameters to generate two sets of predicted healthcare expenditures for each smoker: one for a factual case, and one for a counterfactual case – that is for someone who has all the same characteristics as the smoker except that they are assumed to be a never smoker. The difference between the factual and the counterfactual predictions among all smokers is the excess cost of smoking. This excess cost divided by total predicted healthcare expenditures for all individuals (including smokers and never smokers) is the smoking-attributable fraction. This SAF was calculated for each of the 18 regions and was then applied to the county-level total healthcare expenditures by type of healthcare services to obtain smoking-attributable healthcare expenditures for each of the 58 counties. The models for the direct costs of smoking were estimated separately for each of six subgroups stratified by age (18-34, 35-64, 65+) and gender (female, male).

SAF for hospitalization, ambulatory care, prescription drugs, and home health costs.

In the econometric model for hospital care, ambulatory care, prescription drugs, and home health care, a series of equations predict how smoking status and smoking intensity affects healthcare expenditures, as described briefly below. Smoking status and intensity for four groups of smokers (current light, current moderate, current heavy, and former smokers) are

compared with never smokers (the reference group) in the model. More details about the model specification are shown in the Technical Appendix 1.

- The disease model predicts the probability of having a smoking-related disease as a function of smoking status/intensity, sociodemographics (age, race/ethnicity, region, education, and marital status), and risk behaviors (obesity, and binge drinking).
- The health status model predicts the probability of poor health as a function of smoking status/intensity, sociodemographics, risk behaviors, and the predicted probability of having a smoking-related disease.
- For each type of healthcare expenditures, a two-part model (Duan, Manning, Morris, & Newhouse, 1983) is used. In the first-part equation, the probability of having positive expenditures is estimated as a function of smoking status/intensity, sociodemographics, risk behaviors, family poverty status, health insurance coverage, and the predicted probability of poor health. In the second-part equation, the logarithmic level of expenditure for those with positive expenditures is estimated as a function of the same independent variables as specified in the first-part equation.

These models were estimated with national data from the linked 2004-2009 MEPS-NHIS, because data on smoking behavior and healthcare expenditures are not available in any dataset for California. After the national models were estimated, we applied the estimated parameters to the 2009 CHIS data to calculate the SAF for each type of healthcare expenditure. The SAF can be decomposed into two components: one for current smokers, and one for former smokers as specified below:

$$SAF = SAF_c + SAF_f \quad (\text{Eq. 3})$$

$$SAF_c = \frac{\sum_{c=1}^{Ncl} (EXP_{cl} - EXP_{cl \rightarrow n}) + \sum_{c=1}^{Ncm} (EXP_{cm} - EXP_{cm \rightarrow n}) + \sum_{c=1}^{Nch} (EXP_{ch} - EXP_{ch \rightarrow n})}{\sum_{n=1}^{Nn} (EXP_n) + \sum_{c=1}^{Ncl} (EXP_{cl}) + \sum_{c=1}^{Ncm} (EXP_{cm}) + \sum_{c=1}^{Nch} (EXP_{ch}) + \sum_{f=1}^{Nf} (EXP_f)} \quad (\text{Eq. 4})$$

$$SAF_f = \frac{\sum_{f=1}^{Nf} (EXP_f - EXP_{f \rightarrow n})}{\sum_{n=1}^{Nn} (EXP_n) + \sum_{c=1}^{Ncl} (EXP_{cl}) + \sum_{c=1}^{Ncm} (EXP_{cm}) + \sum_{c=1}^{Nch} (EXP_{ch}) + \sum_{f=1}^{Nf} (EXP_f)} \quad (\text{Eq. 5})$$

Where SAF_c = smoking-attributable fraction for all current smokers including current light, moderate, and heavy smokers

SAF_f = smoking-attributable fraction for former smokers

EXP_n = predicted expenditures for a never smoker n

EXP_{cl} , EXP_{cm} , EXP_{ch} = predicted expenditures for a current light smoker cl, current moderate smoker cm, or current heavy smoker ch

EXP_f = predicted expenditures for a former smoker f

$EXP_{cl \rightarrow n}$, $EXP_{cm \rightarrow n}$, $EXP_{ch \rightarrow n}$ = predicted expenditures for a hypothetical “nonsmoking current” light smoker cl, moderate smoker cm, or heavy smoker ch who has the identical characteristics of a current smoker except that he/she is assumed to be a never smoker

$EXP_{f \rightarrow n}$ = predicted expenditures for a hypothetical “nonsmoking former smoker” f who has the identical characteristics of a former smoker except that he/she is assumed to be a never smoker

N_n = total number of never smokers

N_{cl} , N_{cm} , N_{cm} = total number of current light smokers, current moderate smokers, or current heavy smokers

N_f = total number of former smokers

The SAF Equations (3–5) can be rewritten in terms of the relative risk (RR) and smoking prevalence by first replacing each summation by the product of its mean value and its sample size, then normalizing each sample size with total population (i.e., sum of never smokers, current smokers, and former smokers), and lastly normalizing each mean value by the mean predicted expenditure for never smokers. Therefore, the SAF equations can be transformed into:

$$SAF_c = \frac{(P_{cl})(RR_{cl} - RR_{cl \rightarrow n}) + (P_{cm})(RR_{cm} - RR_{cm \rightarrow n}) + (P_{ch})(RR_{ch} - RR_{ch \rightarrow n})}{(P_n) + (P_{cl})(RR_{cl}) + (P_{cm})(RR_{cm}) + (P_{ch})(RR_{ch}) + (P_f)(RR_f)} \quad (\text{Eq. 6})$$

$$SAF_f = \frac{(P_f)(RR_f - RR_{f \rightarrow n})}{(P_n) + (P_{cl})(RR_{cl}) + (P_{cm})(RR_{cm}) + (P_{ch})(RR_{ch}) + (P_f)(RR_f)} \quad (\text{Eq. 7})$$

where P_n = prevalence of never smokers ($=N_n / \text{total population}$)

P_{cl} , P_{cm} , P_{ch} = prevalence of current light, current moderate, or current heavy smokers ($=N_{ch} / \text{total population}$)

P_f = prevalence of former smokers ($=N_f / \text{total population}$)

RR_{cl} , RR_{cm} , RR_{ch} = relative risk of healthcare expenditures for current light, moderate, or heavy smokers compared to never smokers

RR_f = relative risk of healthcare expenditures for former smokers compared to never smokers

$RR_{cl \rightarrow n}$, $RR_{cm \rightarrow n}$, $RR_{ch \rightarrow n}$ = relative risk of healthcare expenditures for a hypothetical “nonsmoking current” light, moderate, or heavy smoker compared to never smokers

$RR_{f \rightarrow n}$ = relative risk of expenditures for healthcare expenditures for hypothetical “nonsmoking former smokers” compared to never smokers

The RR measures described in Equations (6–7) were estimated for each age and gender subgroup by applying the estimated parameters from the national models to the 2009 CHIS data. Thus, once the prevalence rates for current light, current moderate, current heavy, former, and never smokers for each region are determined, the SAFs for each region are determined.

SAF for nursing home cost. Smoking-attributable nursing home expenditures were estimated following the conceptual model developed by Zhang (1999a). This model considers two ways in which smoking influences nursing home expenditures. Patients may be admitted to a nursing because they, themselves, suffer from smoking-related illnesses (the disability effect) or they may be forced to move to a nursing home when their caregiver dies from a smoking-related illness and there is no one to care for them (the mortality effect). Both of these effects combine to cause an increase in nursing home expenditures that is attributed to smoking. The RRs estimated by Zhang were used along with smoking prevalence estimated from the 2009 CHIS for each region to determine the SAF for nursing home care for each region, using Equation (2) above.

Estimation of county-level healthcare expenditures. County-level expenditures were estimated in several steps. For ambulatory care, prescription drugs, and home health care (separately), a national model to predict the annual expenditures was estimated using data from the 2009 MEPS for adults aged 18 and older. These prediction models controlled for age, gender, race/ethnicity, region, education, marital status, and family poverty status. The estimated parameters were then applied to the 2009 CHIS adult data to predict the expenditures for each adult for each type of health care services. These predictions were aggregated by age (18-34, 35-64, 65+) and gender for each region and averaged to obtain per person annual expenditures for each subgroup for each region. Per person expenditures by region were then multiplied by the 2009 county-level resident population for the corresponding subgroup aged 18 and older to derive the total healthcare expenditures for each county. The estimates of these expenditures reflect the actual age distribution of Californians, who are relatively younger than the U.S. population.

Hospitalization expenditures were estimated using the 2009 California OSHPD Patient Discharge data. First, the charge for each hospitalization from the Patient Discharge data was converted to cost using hospital-specific cost-to-charge ratios obtained from the 2009 OSHPD Hospital Financial data. Then, the costs of the hospitalization were aggregated by age (18-34, 35-64, 65+) and gender for each county to derive the total hospital expenditures for each county.

Per person nursing home expenditures by region for males and females aged 55 and older were derived from our previous Report (Max et al., 2002). The per person expenditures were applied to the 2009 county-level resident population for males and females aged 55 and older to derive the unadjusted total nursing home expenditures for each county.

For each of five types of healthcare services, an adjustment was made so that the sum of California expenditures across all counties equals the state expenditure estimates as published by the Centers for Medicare and Medicaid Services (CMS, 2011)

Estimation of smoking-attributable direct costs. Smoking-attributable healthcare expenditures for each county were estimated separately for males and females for each of the five types of health care services by multiplying the appropriate SAF by the corresponding predicted county-level health care expenditure. For example, the SAF for ambulatory care for males aged 35-64 in Los Angeles County is .0748. Total ambulatory

care expenditures for males aged 35-64 for Los Angeles County in 2009 is \$3,720 million after adjustment to the CMS-reported levels. Thus, the estimated smoking-attributable ambulatory care expenditures for males aged 35-64 in Los Angeles County are \$278 million (.0748 x \$3,720 million).

Lost Productivity Due to Illness

People with smoking-related diseases miss days of work and are unable to perform their usual activities due to illness. The resulting lost productivity includes days lost from work for people who are working, and bed-disability days for those who are not in the labor force but are keeping house. While those who are working undoubtedly lose some days in addition to the reported work loss days, these days are not included to avoid double-counting of days. In order to estimate the number of smoking-attributable work loss days or bed-disability days, the SAF was calculated, the total number of days lost determined, and the two were multiplied to obtain smoking-attributable days lost. The resulting smoking-attributable days lost were then valued using mean daily earnings and an imputed value for household production.

SAF for lost productivity due to illness. A two-part model (Duan et al., 1983) is used to predict how smoking status affects the number of work-loss days or bed-disability days. In the first-part equation, the probability of having positive days is estimated as a function of smoking status, demographics (age, gender, race/ethnicity, region, education, and marital status), and risk behaviors (obesity, and binge drinking). In the second-part equation, the logarithmic level of days for those with positive days is estimated as a function of the same independent variables as specified in the first-part equation. In the model, smoking status is classified as current smokers and former smokers to compare with never smokers (reference group). More details about the model specification are shown in the Technical Appendix 2.

These models were estimated for adults aged 18 and older using national data from the 2009 NHIS, because data on smoking status and work-loss days or bed-disability days are not available in any dataset for California. Due to small sample sizes, we combined males and females into one set of models. After the national models were estimated, we applied the estimated parameters to the 2009 CHIS data to calculate the California-specific SAF for work-loss days or bed-disability days.

Similar to Equations (6–7) above, the SAFs for work loss days or bed-disability days can be specified as:

$$SAF_c = \frac{(P_c)(RR_c - RR_{c \rightarrow n})}{(P_n) + (P_c)(RR_c) + (P_f)(RR_f)} \quad (\text{Eq. 8})$$

$$SAF_f = \frac{(P_f)(RR_f - RR_{f \rightarrow n})}{(P_n) + (P_c)(RR_c) + (P_f)(RR_f)} \quad (\text{Eq. 9})$$

where P_n = prevalence of never smokers
 P_c = prevalence of current smokers
 P_f = prevalence of former smokers
 RR_c, RR_f = relative risk of work-loss days or bed-disability days for current or former smokers compared to never smokers
 $RR_{c \rightarrow n}, RR_{f \rightarrow n}$ = relative risk of work-loss days or bed-disability days for hypothetical “nonsmoking current smokers” or “nonsmoking former smokers” relative to never smokers

All the RR measures described in Equations (8–9) were estimated by applying the estimated parameters from the national models to the 2009 CHIS data. Applying the RR estimates to the smoking prevalence rates for each region using Equations (8) and (9), the SAF of days for each region is determined.

Estimation of county-level work loss days and bed-disability days. County level days were estimated in three steps. First, the average annual work loss days per U.S. working adult was estimated for each of the eight subgroups stratified by gender and age (18-34, 35-54, 55-64, 65+), using the 2009 NHIS data. Similarly, the average annual bed-disability days per adult who was not in the labor force but was keeping house was estimated for each of the eight subgroups. Second, the labor force participation rates and the proportion of California adults who were not in the labor force but whose main activity was keeping house were estimated for each subgroup for each of the 18 regions in California using the 2009 CHIS data. Third, these region-specific labor force participation rates or housekeeping rates were multiplied by the average days per person and the resident population in each California county for each subgroup to derive the total county-level days lost from work and bed-disability days.

Estimation of the value of smoking-attributable lost productivity from illness. The SAFs for days lost were applied to the total number of days lost to obtain smoking-attributable days of lost productivity. For those working in the labor market, work loss days were valued using mean daily earnings estimated from the 2009 CHIS data and an imputed value for housekeeping services for each subgroup. Labor market earnings include an adjustment for fringe benefits. Household work was valued based on time-motion studies of housekeepers in which the number of hours in each activity is calculated on a task-by-task basis. In this study, the methodology developed by Douglass, Kenney, and Miller (1990) was used to derive the imputed value for housekeeping services. For those not in the labor force but engaged in housekeeping, a mean daily imputed value for housekeeping services was applied to smoking-attributable bed days.

Lost Productivity Due to Premature Death

Three measures of the losses associated with premature death from smoking or SHS-related diseases are calculated: deaths attributed to smoking, years of potential life lost (YPLL), and the value of smoking-attributable productivity.

For SHS exposure, we report only the number of deaths at the state level. The numbers of deaths at the county level are small and hence may not be reliable. However, the estimates for the entire state are useful. We previously estimated the SHS-attributable deaths, YPLL, value of lost productivity, and the SHS-attributable healthcare costs (Max et al., 2014).

Deaths attributed to smoking and SHS exposure. For each of the 22 smoking-related causes of death shown in Table 3, the SAF was first calculated by gender among adults aged 35 and older in California according to Equation (2). Then, the region-specific SAFs were applied to the corresponding number of deaths to determine the number of smoking -attributable deaths for each county. The total numbers of deaths by gender for each cause of death in each county were obtained from the 2009 California Mortality file.

In addition to deaths of smokers, nonsmokers including former and never smokers may die of causes that result from their exposure to SHS (NCI, 1999; US DHHS, 2006; CA EPA, 2005). Based on our previous research on the costs of SHS exposure (Max et al., 2014), we included 7 SHS-associated causes of death (4 perinatal and 3 adult causes) as shown in Table B below. The SHS-attributable fractions for these causes of death were calculated by gender and age group (Max et al., 2014) using the RR's published in the California Environmental Protection Agency report (2005) and the Surgeon General report (US DHHS, 2006) for the adult conditions and the RRs reported in the Maternal and Child Health Smoking-Attributable Mortality, Morbidity, and Economic Cost (CDC, 2014c) for the perinatal conditions, and SHS exposure rates estimated from the 2009 CHIS data (Max et al., 2014). The RRs by SHS-associated cause of death are shown in Table B. The SAFs for SHS exposure were calculated for each cause of death and age group in California and applied to the corresponding total deaths among nonsmokers. While deaths are not reported by smoking status in the 2009 California Mortality file, it is possible to determine nonsmoker deaths following the approach used by three recent studies (Gan, Smith, Hammond, & Hu, 2007; Oberg et al., 2011; Max et al., 2014). This approach involves subtracting the excess number of deaths attributable to smoking in current smokers from the total number of deaths for the diseases of interest. It is then assumed that the other deaths are distributed among current smokers and nonsmokers according to their proportions in the population.

| Table B. Relative risk of secondhand smoke-associated death by cause of death and age | | | |
|--|------------|---------------|-------------------------------|
| Cause of death | Age | Source | Relative Risk (95% CI) |
| Short Gestation, Low Birth Weight | <1 | CDC, 2014c | 1.83 (*) |
| Sudden Infant Death Syndrome | <1 | CDC, 2014c | 2.29 (*) |
| Respiratory Distress Syndrome | <1 | CDC, 2014c | 1.3 (*) |
| Respiratory Conditions of Newborn | <1 | CDC, 2014c | 1.41 (*) |
| Lung Cancer | 18+ | CA EPA, 2005 | 1.29 (1.04-1.60) |
| Ischemic Heart Disease | 18+ | US DHHS, 2006 | 1.25 (1.12-1.40) |
| Asthma | 18+ | CA EPA, 2005 | 1.97 (1.19-3.25) |
| *95% Confidence intervals not available. | | | |

Years of Potential Life Lost (YPLL). When Californians die of a smoking -related disease, the years they would have lived had they not smoked or been exposed to SHS are lost. The number of YPLL is defined as the average number of years of life remaining at the age of death, which is obtained from the most recently available life tables for California (California Department of Health Services (CA DHS), 2007). Smoking-attributable YPLL is calculated by multiplying smoking -attributable deaths (by gender and five-year age group) by the number of YPLL. Thus:

$$\text{Smoking-attributable YPLL} = (\text{smoking-attributable deaths}) \times \text{YPLL} \quad (\text{Eq. 10})$$

Estimation of the value of smoking-attributable lost productivity from premature death. The value of lost productivity from lives lost due to smoking is estimated using the human capital approach, which estimates a person's expected lifetime labor market earnings, and/or the imputed value for a person's lifetime household production. The present discounted value of lifetime earnings (PVLE) for a person of gender g and age y is calculated as:

$$\text{PVLE} = \sum_{n=y}^{85} P_{y,g}(n) [Y_g(n) E_g(n) + Y_g^h(n) E_g^h(n)] * (1+p)^{n-y} / (1+r)^{n-y} \quad (\text{Eq. 11})$$

where $P_{y,g}(n)$ = probability that a person of gender g and age y will survive to age n

n = the age of the person in the future

y = the age of the person at present

g = the gender of the person

$Y_g(n)$ = mean annual labor market earnings of an employed person of gender g and age n

$E_g(n)$ = proportion of the population of gender g and age n who are employed in the labor market

$Y_g^h(n)$ = mean annual imputed value of household production for a person of gender g and age n

$E_g^h(n)$ = proportion of the population of gender g and age n who are keeping house

p = annual growth rate in labor productivity

r = real discount rate

PVLE was calculated using a computer program maintained at the University of California at San Francisco (Max, Rice, Michel, & Sung, 2001b). The calculation considers labor market earnings, an imputed value for housekeeping, and the probability that a person will be in the labor market or keeping house for each age group. California specific data on probabilities of survival by gender and age was used (CA DHS, 2007). Mean earnings for Californians was obtained by adjusting U.S. mean earnings by the ratio of California to U.S. mean earnings. Annual mean earnings by age and gender were also adjusted for wage supplements such as employer contributions for social security, health insurance, and private pensions. Cross-sectional profiles of mean earnings by age (five-year age group from age 0 to age 85 or above) and gender are used to estimate lifetime earnings, assuming

that the future pattern of earnings will follow the current pattern. The proportion of males and females of each age group who were employed (or who were keeping house) was estimated from the 2009 NHIS data. A discount rate of 3% was used to convert all dollars to their present value equivalent in 2009 dollars (Gold, Siegel, Russell, & Weinstein, 1996). Resulting estimates of the PVLE by gender and age are shown in Table C below.

| Table C. Present value of lifetime earnings* by age and gender: California, 2009 | | |
|---|--------------|---------------|
| Age | Male | Female |
| Under 1 | \$ 1,238,291 | \$ 1,028,452 |
| 1-4 | 1,302,533 | 1,081,490 |
| 5-9 | 1,423,872 | 1,182,057 |
| 10-14 | 1,571,498 | 1,304,514 |
| 15-19 | 1,723,278 | 1,424,459 |
| 20-24 | 1,822,258 | 1,484,814 |
| 25-29 | 1,822,271 | 1,446,227 |
| 30-34 | 1,737,540 | 1,340,674 |
| 35-39 | 1,578,400 | 1,195,395 |
| 40-44 | 1,358,864 | 1,022,484 |
| 45-49 | 1,114,273 | 831,885 |
| 50-54 | 851,414 | 624,429 |
| 55-59 | 582,479 | 420,838 |
| 60-64 | 349,326 | 239,831 |
| 65-69 | 185,646 | 109,747 |
| 70-74 | 84,956 | 45,038 |
| 75-79 | 30,578 | 18,782 |
| 80-84 | 14,149 | 8,609 |
| 85 and older | 2,449 | 1,729 |
| *Discounted at 3 percent. Assumed annual growth in productivity of 1 percent. | | |

The cost to society of smoking-related mortality is calculated as the product of the number of smoking-related deaths and the PVLE for each death.

Comparison with Previous Cost Estimates

This study updates our previous estimates of the economic costs of smoking in California by county for 1989 (Rice & Max 1992) and 1999 (Max et al., 2002). This section compares the cost estimates for the present study with our 1999 estimates. The 1999 report (Max et al., 2002) contains a comparison of the 1989 and 1999 estimates. Summary estimates are shown in Table D.

There are several reasons why costs would be expected to differ over the last decade. Total costs would increase due to inflation and population growth, and direct costs would reflect an increase in healthcare costs as well. In fact, personal healthcare expenditures nearly doubled between 1999 and 2009 (CMS, 2011) and part of the reason for this increase is due to the increasing Consumer Price Index for medical care by 50% during this period (US BLS, 2014a). Costs also reflect any changes in smoking prevalence during the same period. Indirect losses in productivity due to illness and premature death are sensitive to wage rates, and compensation per hour increased by 45% during this period (US BLS, 2014b). The differences in cost estimates between 1999 and 2009 are described next, followed by a discussion of the reasons for these differences.

The 2009 estimate for total economic cost of smoking is 15% higher than the 1999 estimate, \$18.1 billion compared to \$15.8 billion in current dollars, as shown in Table D below. The distribution of total costs by type of cost was very similar for 1999 and 2009. Direct costs accounted for 54% of total costs in 1999 and 2009. Indirect productivity losses due to illness and premature death accounted for 46% of total costs in 1999 and 2009.

Direct Costs. The total direct cost of smoking in 2009 is 15% higher than the estimate for 1999. This is well below the increase in both personal healthcare expenditures and the increase in the medical care component of the Consumer Price Index. Thus, in real terms, the healthcare cost of smoking in CA decreased over the decade from 1999 to 2009.

However, the changes among the cost categories range from almost no change for ambulatory care services to 813% higher for home health. These differences result from two factors. First, although the growth rate for overall personal health care expenditures in California was 97% during this 10-year period, there is a wide variation in growth rates by type of healthcare service, ranging from the highest growth rate of 353% for home health care, to 136% for prescription drugs, 95% for nursing home care, 110% for hospital care, and 66% for ambulatory care (CMS, 2011). Second, the smoking-attributable fraction (SAF) estimates for 2009 in general were smaller than the SAF estimates for 1999 for all types of healthcare expenditures except home health care, reflecting declining smoking prevalence rates. In 1999, the SAF estimates were .05, .10, .12, .04, and .23 for ambulatory care, prescription drugs, hospital care, home health care, and nursing home care, respectively. In 2009, the corresponding SAFs were .03, .04, .06, .09, and .14 for ambulatory care, prescription drugs, hospital care, home health care, and nursing home care, respectively. Therefore, the SAF for home health care almost doubled during the 10-year period, while the SAFs for other health services were approximately cut in half.

| Type of Cost | Amount (in millions) | | Percent Change 1999-2009 |
|---|----------------------|----------|--------------------------|
| | 1999 | 2009 | |
| Total Cost | \$15,760 | \$18,058 | 15 |
| Direct Healthcare Costs | 8,565 | 9,830 | 15 |
| Hospital | 4,017 | 4,311 | 7 |
| Ambulatory Care | 2,060 | 2,058 | 0 |
| Nursing Homes | 1,267 | 1,517 | 20 |
| Prescriptions | 1,133 | 1,150 | 2 |
| Home Health | 87 | 794 | 813 |
| Indirect Costs from Lost Productivity | 7,195 | 8,228 | 14 |
| Illness | 1,512 | 1,431 | -5 |
| Premature Death | 5,683 | 6,797 | 20 |
| Note: All costs are in actual dollars (e.g. 1999 costs are in 1999 dollars) | | | |

Indirect Productivity Losses Due to Illness. The smoking-attributable productivity losses due to illness decreased slightly by 5% between 1999 and 2009, mainly driven by declining smoking prevalence.

Indirect Productivity Losses Due to Premature Deaths. The increase in the value of productivity losses due to premature death between 1999 and 2009 was 20%, well below the increase in hourly compensation of 45% during this period. In 1999, the number of smoking-related deaths was estimated at 43,137; the number in 2009 was 34,362, a 20% decrease. The same method for calculating losses for this cost category was used for both sets of estimates. The mean years of life lost per death rose from 12.4 years in 1999 to 17.1 years in 2009. Lifetime earnings were discounted at 3% in both 1999 and 2009 but the value of lost productivity from premature death increased from \$131,741 in 1999 to \$197,800 in 2009 because of the increase in PVLE during the period, resulting from higher earnings and longer life expectancy.

Comparison of the cost estimates in real value. We adjusted the nominal values for 1999 into 2009 dollars using the increase in the Consumer Price Index for medical care to adjust healthcare costs (US BLS, 2014a) and the Index of Hourly Compensation in the Business Sector for indirect productivity losses (US BLS, 2014b). By doing this, the real value of the 1999 total cost of smoking expressed in 2009 constant dollars is estimated to be \$23.3 billion. Therefore, while the nominal cost of smoking in California increased by 15% during 1999-2009, the real costs of smoking after taking inflation into account actually decreased by 22% during this period.

Findings: The Cost of Smoking in California in 2009

What is the total cost of smoking in California?

- \$18.1 billion, including the direct healthcare costs and indirect costs from lost productivity due to illness and premature death

What is the cost of smoking for each Californian?

- \$487

How much does smoking cost per smoker?

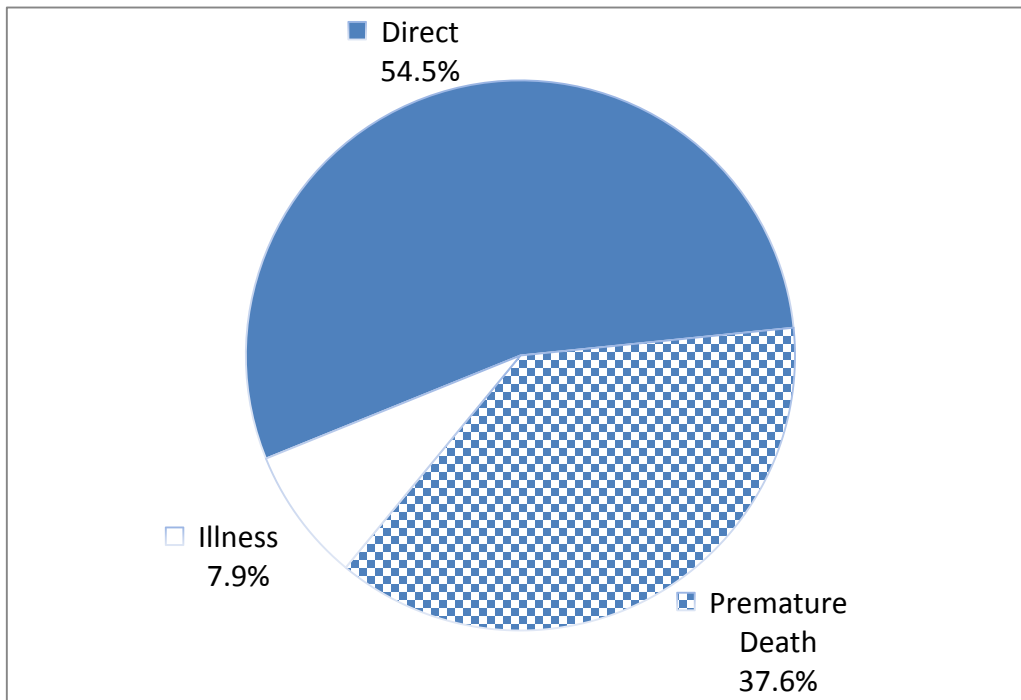
- \$4,603 including \$2,505 in direct healthcare costs and \$2,097 in indirect costs from lost productivity from illness and premature death

How are the healthcare costs of smoking incurred?

- The healthcare costs for smoking total over \$9.8 billion. This represents 54.5% of the total cost of smoking. Hospital care accounts for the largest proportion of these costs (44%). The costs by type of healthcare services are:
 - \$4.3 billion for hospital care
 - \$2.1 billion for ambulatory care
 - \$1.5 billion for nursing home care
 - \$1.1 billion for prescriptions
 - \$794 million for home health care

What are the indirect costs of smoking?

- Indirect costs represent lost productivity due to illness and premature death from smoking-related diseases.
- Lost productivity from smoking-related illness accounts for 7.9% of the cost of smoking and lost productivity from premature death accounted for an additional 37.6% of the cost.



How many people in California smoke cigarettes?

- 3.9 million Californians smoke:
 - Adults age 18 and over – 3.8 million persons or 13.6% of adults
 - Men – 2.4 million men (17.2%)
 - Women – 1.4 million women (10.1%)
 - Adolescents age 12 to 17 – 146,000 persons or 4.5 percent of adolescents
 - Boys – 95,000 boys (5.8%)
 - Girls – 51,000 girls (3.2%)

What are the patterns of smoking intensity among adult current smokers in California?

- A majority of adult current smokers in California are light smokers, who smoke some days or fewer than 10 cigarettes per day. This includes 59.7% of male and 61.0% of female current smokers.
- Only 17.7% and 11.3% of adult current male and female smokers respectively are heavy smokers, smoking a pack a day or more (20+ cigarettes).

How do smoking rates in California compare to those in the U.S. for 2009?

- Californians smoke less.

| | Adults | Adolescents |
|---------------|---------------|--------------------|
| California | 13.6% | 4.5% |
| United States | 20.6% | 8.9% |

How do smoking rates in 2009 compare to those in 1999 in California?

- Smoking rates in 2009 are lower.

| | Adults | | Adolescents | |
|------|---------------|---------------|--------------------|---------------|
| | Male | Female | Male | Female |
| 1999 | 22.1% | 15.3% | 7.7% | 7.4% |
| 2009 | 17.2% | 10.1% | 5.8% | 3.2% |

How do California's smoking costs compare to cigarette sales tax revenues?

- Smoking cost \$18.1 billion in 2009 and state cigarette excise tax revenues generated \$863 million in 2009.
- Smoking cost \$21 for every dollar of cigarette tax revenue generated.

What is the cost of smoking per pack in California?

- The healthcare costs of smoking are \$9.23 per pack.
- The indirect costs from smoking-caused productivity losses are an additional \$8.23 per pack.

How do costs for men and women compare?

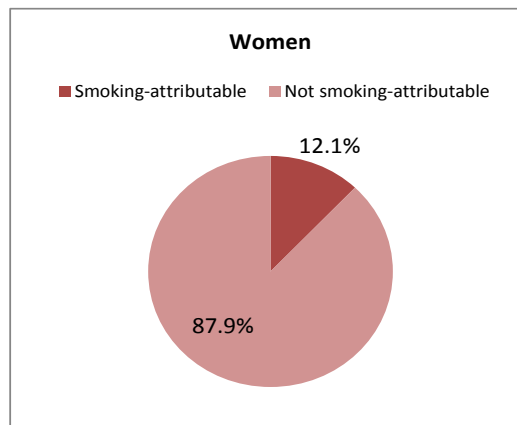
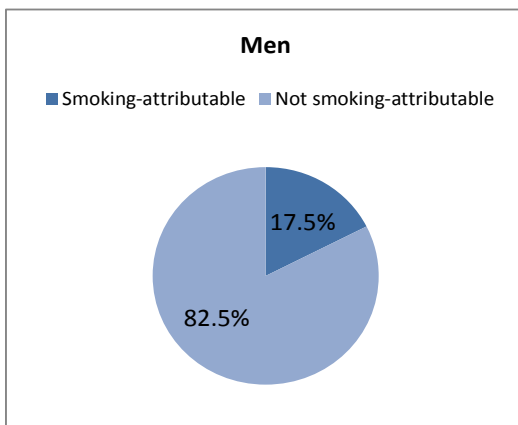
- The total cost of smoking for men is 82.1% higher than that for women. However, the difference between men and women varies by type of costs:
 - The healthcare cost of smoking is 34.7% higher for men than women
 - Lost productivity from illness is 45.6% higher for men than women
 - Lost productivity from premature death is 216.8% higher for men than women

How many deaths in Californian are attributed to smoking?

- 34,363 deaths in 2009

What proportion of deaths in California is attributed to smoking?

- 14.8 percent of all deaths are attributed to smoking in 2009.
- The proportion of deaths attributed to smoking is greater for men (17.5%) than for women (12.1%).
- Smoking-attributable deaths for males (20,565) are more than those for females (13,799).

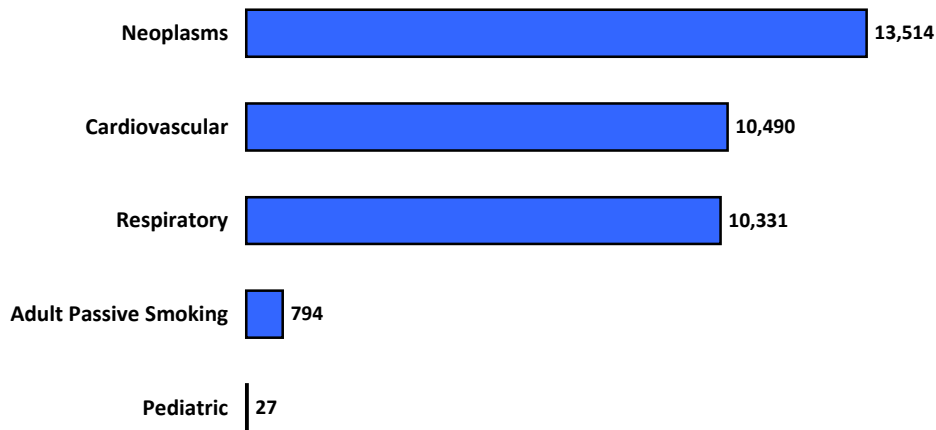


How do smoking-attributable deaths compare to deaths from other causes in California?

- Smoking accounts for more deaths (34,363) than deaths from many other causes:
 - 17 times the deaths from AIDS
 - 5 times the deaths from diabetes
 - 5 times the deaths from influenza and pneumonia
 - 3 times the deaths from unintentional injuries
 - 3 times the deaths from Alzheimer's disease

What do California smokers and SHS-exposed nonsmokers die of?

- The leading cause of smoking-attributable death is cancer (13,514 deaths), followed by cardiovascular disease (10,490 deaths), respiratory diseases (10,331 deaths), and pediatric disease (27 deaths).
- Similar to the U.S., cancer has now surpassed cardiovascular disease as the leading cause of smoking-attributable death.
- In addition, SHS exposure caused 794 adult deaths including 81 dying from lung cancer, 700 from IHD, and 13 from asthma.



How much productivity is lost due to premature deaths attributed to smoking?

- The smoking-attributable productivity losses per premature death averages \$198,000 and 17.1 years of potential life lost.

| | Total | Male | Female |
|-------------------------------------|--------------|-------------|---------------|
| Value of life lost (billions) | \$6.8 | \$ 5.2 | \$1.6 |
| Loss per death | \$198,000 | \$251,000 | \$118,000 |
| Years of potential life lost (YPLL) | 587,000 | 354,000 | 233,000 |
| YPLL per death | 17.1 | 17.2 | 16.9 |

How do the costs of smoking vary across the counties in California?

- Per resident losses range from \$374 in Orange County to \$1,002 in Lake County.
- Total smoking-related costs varied from \$0.33 million in Alpine County to \$4.4 billion in Los Angeles County.

How do the deaths and costs attributed to smoking in California in 2009 compare to those in 1999?

- The number of smoking-attributable deaths decreased from 43,137 deaths in 1999 to 34,363 deaths in 2009, a reduction by 20%.
- The nominal value of total cost of smoking increased by 15% from \$15.8 billion in 1999 to \$18.1 billion in 2009.
- After taking inflation into account, the total cost of smoking in the 2009 actually decreased by 22% compared to the value of total cost of smoking in 1999.

Conclusion

The economic burden of smoking is high in California, amounting to \$18.1 billion in 2009. However, there is evidence that the state's tobacco control efforts are having a positive impact, resulting in fewer smoking-attributable deaths, reduced real costs of smoking, and lower smoking prevalence rates. The wide variation in costs of smoking across the counties suggests that there are many geographic areas of the state that would benefit from targeted efforts aimed at reducing smoking.

California Tables

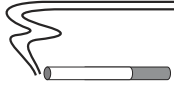


Table 1

Cost of Smoking by Type of Cost and Gender, California, 2009

| Type of Cost & Gender | Amount (thousands) | Percent Distribution | Per Resident | Per Smoker |
|----------------------------|-----------------------|-------------------------|-----------------|---------------|
| Total | \$18,058,012 | 100.0 | \$487 | \$4,603 |
| Direct Cost | 9,830,115 | 54.4 | 265 | 2,505 |
| Hospital | 4,310,875 | 23.9 | 116 | 1,099 |
| Ambulatory* | 2,058,077 | 11.4 | 56 | 525 |
| Nursing home care | 1,517,363 | 8.4 | 41 | 387 |
| Prescriptions | 1,149,527 | 6.4 | 31 | 293 |
| Home Health | 794,273 | 4.4 | 21 | 202 |
| Indirect Lost Productivity | 8,227,898 | 45.6 | 222 | 2,097 |
| Illness | 1,430,618 | 7.9 | 39 | 365 |
| Premature Death** | 6,797,280 | 37.6 | 183 | 1,732 |
| Men, Total | 11,657,133 | 100.0 | 632 | 4,760 |
| Direct Cost | 5,642,380 | 48.4 | 306 | 2,304 |
| Hospital | 2,754,518 | 23.6 | 149 | 1,125 |
| Ambulatory* | 986,548 | 8.5 | 53 | 403 |
| Nursing home care | 862,695 | 7.4 | 47 | 352 |
| Prescriptions | 583,343 | 5.0 | 32 | 238 |
| Home Health | 455,277 | 3.9 | 25 | 186 |
| Indirect Lost Productivity | 6,014,753 | 51.6 | 326 | 2,456 |
| Illness | 848,214 | 7.3 | 46 | 346 |
| Premature Death** | 5,166,538 | 44.3 | 280 | 2,110 |
| Women, Total | 6,400,879 | 100.0 | 344 | 4,340 |
| Direct Cost | 4,187,734 | 65.4 | 225 | 2,840 |
| Hospital | 1,556,356 | 24.3 | 84 | 1,055 |
| Ambulatory* | 1,071,529 | 16.7 | 58 | 727 |
| Nursing home care | 654,668 | 10.2 | 35 | 444 |
| Prescriptions | 566,185 | 8.8 | 30 | 384 |
| Home Health | 338,996 | 5.3 | 18 | 230 |
| Indirect Lost Productivity | 2,213,145 | 34.6 | 119 | 1,501 |
| Illness | 582,404 | 9.1 | 31 | 395 |
| Premature Death** | 1,630,741 | 25.5 | 88 | 1,106 |

Note: Numbers may not add to total due to rounding.

* Includes Physician and other Professional Services

** Discounted at 3 percent

Table 2

Smoking Prevalence by Gender, Age, and Smoking Status, California, 2009

| | Currently Smoke | | Formerly Smoked | | Never Smoked | |
|-----------|-----------------|------|-----------------|------|--------------|------|
| | Number | % | Number | % | Number | % |
| Total | 3,923,433 | 12.7 | 6,748,739 | 21.8 | 20,327,558 | 65.6 |
| Male | 2,448,736 | 16.0 | 3,878,930 | 25.3 | 9,012,707 | 58.8 |
| Female | 1,474,697 | 9.4 | 2,869,809 | 18.3 | 11,314,851 | 72.3 |
| Age 12-17 | 146,033 | 4.5 | 327,026 | 10.1 | 2,757,338 | 85.4 |
| Male | 95,246 | 5.8 | 178,456 | 10.8 | 1,381,906 | 83.5 |
| Female | 50,787 | 3.2 | 148,570 | 9.4 | 1,375,431 | 87.3 |
| Age 18+ | 3,777,400 | 13.6 | 6,421,713 | 23.1 | 17,570,221 | 63.3 |
| Male | 2,353,490 | 17.2 | 3,700,474 | 27.0 | 7,630,801 | 55.8 |
| Female | 1,423,910 | 10.1 | 2,721,239 | 19.3 | 9,939,420 | 70.6 |

Source: Prevalence rates: CHIS 2009; Population: US Bureau of the Census

Table 3

Relative Risk for Current and Former Smokers by Cause of Death and Gender, California,

| Cause of Death | ICD-10 Code | Men | | Women | |
|-----------------------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| | | Currently Smoke | Formerly Smoked | Currently Smoke | Formerly Smoked |
| Neoplasms | | | | | |
| Lip, oral cavity, pharynx | C00–C14 | 10.89 | 3.40 | 5.08 | 2.29 |
| Esophagus | C15 | 6.76 | 4.46 | 7.75 | 2.79 |
| Stomach | C16 | 1.96 | 1.47 | 1.36 | 1.32 |
| Pancreas | C25 | 2.31 | 1.15 | 2.25 | 1.55 |
| Larynx | C32 | 14.60 | 6.34 | 13.02 | 5.16 |
| Trachea, lung, bronchus | C33–C34 | 23.26 | 8.70 | 12.69 | 4.53 |
| Cervix, uterus | C53 | | | 1.59 | 1.14 |
| Urinary bladder | C67 | 3.27 | 2.09 | 2.22 | 1.89 |
| Kidney, other urinary | C64–C65 | 2.72 | 1.73 | 1.29 | 1.05 |
| Acute Myeloid Leukemia | C92.0 | 1.86 | 1.33 | 1.13 | 1.38 |
| Cardiovascular disease | | | | | |
| Hypertension | I10-I15 | 1.85 | 1.32 | 1.69 | 1.16 |
| Ischemic Heart Disease (IHD) | I20–I25 | | | | |
| 35-64 years | | 2.80 | 1.64 | 3.08 | 1.32 |
| 65 years plus | | 1.51 | 1.21 | 1.60 | 1.20 |
| Other heart disease | I00–I09, I26–I51 | 1.78 | 1.22 | 1.49 | 1.14 |
| Cerebrovascular disease | I60–I69 | | | | |
| 35-64 years | | 3.27 | 1.04 | 4.00 | 1.30 |
| 65 years plus | | 1.63 | 1.04 | 1.49 | 1.03 |
| Atherosclerosis | I70 | 2.44 | 1.33 | 1.83 | 1.00 |
| Aortic aneurysm | I71 | 6.21 | 3.07 | 7.07 | 2.07 |
| Other arterial diseases | I72–I78 | 2.07 | 1.01 | 2.17 | 1.12 |
| Respiratory Diseases | | | | | |
| Respiratory TB | A16-A19 | 1.99 | 1.56 | 2.18 | 1.38 |
| Pneumonia, influenza | J10–J18 | 1.75 | 1.36 | 2.17 | 1.10 |
| Bronchitis, emphysema | J40–J42, J43 | 17.10 | 15.64 | 12.04 | 11.77 |
| Asthma | J45-J46 | 1.99 | 1.56 | 2.18 | 1.38 |
| Chronic airways obstruction | J44 | 10.58 | 6.80 | 13.08 | 6.78 |
| Pediatric Diseases | | | | | |
| Short gestation, low birth weight | P07 | 1.83 | 1.83 | 1.83 | 1.83 |
| Sudden infant death syndrome | R95 | 2.29 | 2.29 | 2.29 | 2.29 |
| Respiratory distress syndrome | P22 | 1.30 | 1.30 | 1.30 | 1.30 |
| Respiratory conditions of newborn | P23-P28 | 1.41 | 1.41 | 1.41 | 1.41 |

Note: Among adults aged 35 years and older, except for pediatric conditions (aged <1)

Source: Centers for Disease Control and Prevention, 2014b; 2014c

Table 4

Total Deaths and Deaths Attributed to Smoking by Cause of Death, California, 2009

| Cause of Death | Deaths | Attributed to Smoking | |
|---|---------|-----------------------|---------|
| | | Number | Percent |
| All Causes | 231,764 | 34,363 * | 14.8 |
| Neoplasms | | | |
| Lip, oral cavity, pharynx | 875 | 521 | 59.5 |
| Esophagus | 1,251 | 790 | 63.2 |
| Stomach | 1,499 | 263 | 17.6 |
| Pancreas | 3,668 | 732 | 20.0 |
| Larynx | 309 | 239 | 77.4 |
| Trachea, lung, bronchus | 13,058 | 9,992 | 76.5 |
| Cervix, uterus | 439 | 34 | 7.8 |
| Urinary bladder | 1,325 | 487 | 36.8 |
| Kidney, other urinary | 1,250 | 286 | 22.9 |
| Acute Myeloid Leukemia | 1,219 | 170 | 13.9 |
| Cardiovascular disease | | | |
| Hypertension | 7,888 | 1,076 | 13.6 |
| Ischemic heart disease | | | |
| 0-34 years | 92 | 0 | 0.0 |
| 35-64 years | 6,970 | 2,135 | 30.6 |
| 65 years plus | 33,296 | 3,819 | 11.5 |
| Other heart disease | 14,109 | 1,615 | 11.4 |
| Cerebrovascular disease | | | |
| 0-34 years | 142 | 0 | 0.0 |
| 35-64 years | 1,993 | 561 | 28.2 |
| 65 years plus | 11,275 | 581 | 5.2 |
| Atherosclerosis | 806 | 115 | 14.3 |
| Aortic aneurysm | 925 | 496 | 53.6 |
| Other arterial diseases | 704 | 92 | 13.0 |
| Respiratory Diseases | | | |
| Respiratory TB | 94 | 19 | 20.6 |
| Pneumonia, influenza | 6,350 | 936 | 14.7 |
| Bronchitis, emphysema | 1,018 | 841 | 82.7 |
| Asthma | 415 | 68 | 16.4 |
| Chronic airways obstruction | 11,355 | 8,467 | 74.6 |
| Pediatric Diseases | | | |
| Short gestation, low birth weight | 349 | 13 | 3.8 |
| Sudden infant death syndrome | 186 | 11 | 6.0 |
| Respiratory distress syndrome | 57 | 1 | 1.3 |
| Respiratory conditions of newborn | 93 | 2 | 2.0 |
| Passive Smoking--Lung Cancer | 13,058 | 81 | 0.6 |
| Passive Smoking--Ischemic Heart Disease | 40,358 | 700 | 1.7 |
| Passive Smoking - Asthma | 415 | 13 | 3.3 |
| All Other Causes | 108,754 | | |

Note: Numbers may not add to total due to rounding.

*Excludes passive smoking-attributable deaths

Table 5

Male: Total Deaths and Deaths Attributed to Smoking by Cause of Death, California, 2009

| Cause of Death | Deaths | Attributed to Smoking | |
|---|---------|-----------------------|---------|
| | | Number | Percent |
| All Causes | 117,832 | 20,565 * | 17.5 |
| Neoplasms | | | |
| Lip, oral cavity, pharynx | 589 | 406 | 68.9 |
| Esophagus | 953 | 637 | 66.8 |
| Stomach | 879 | 205 | 23.3 |
| Pancreas | 1,807 | 360 | 19.9 |
| Larynx | 246 | 196 | 79.6 |
| Trachea, lung, bronchus | 6,983 | 5,972 | 85.5 |
| Cervix, uterus | | | |
| Urinary bladder | 936 | 390 | 41.7 |
| Kidney, other urinary | 804 | 268 | 33.4 |
| Acute Myeloid Leukemia | 680 | 123 | 18.1 |
| Cardiovascular disease | | | |
| Hypertension | 3,514 | 665 | 18.9 |
| Ischemic heart disease | | | |
| 0-34 years | 74 | | |
| 35-64 years | 5,311 | 1,757 | 33.1 |
| 65 years plus | 16,516 | 2,235 | 13.5 |
| Other heart disease | 6,611 | 1,044 | 15.8 |
| Cerebrovascular disease | | | |
| 0-34 years | 79 | | |
| 35-64 years | 1,105 | 314 | 28.4 |
| 65 years plus | 4,429 | 311 | 7.0 |
| Atherosclerosis | 328 | 80 | 24.3 |
| Aortic aneurysm | 575 | 338 | 58.9 |
| Other arterial diseases | 318 | 45 | 14.1 |
| Respiratory Diseases | | | |
| Respiratory TB | 64 | 15 | 23.1 |
| Pneumonia, influenza | 3,091 | 565 | 18.3 |
| Bronchitis, emphysema | 533 | 466 | 87.5 |
| Asthma | 142 | 26 | 18.5 |
| Chronic airways obstruction | 5,332 | 4,131 | 77.5 |
| Pediatric Diseases | | | |
| Short gestation, low birth weight | 206 | 8 | 3.7 |
| Sudden infant death syndrome | 107 | 6 | 5.9 |
| Respiratory distress syndrome | 38 | 0 | 1.3 |
| Respiratory conditions of newborn | 56 | 1 | 2.0 |
| Passive Smoking--Lung Cancer | 6,983 | 44 | 0.6 |
| Passive Smoking--Ischemic Heart Disease | 21,901 | 368 | 1.7 |
| Passive Smoking - Asthma | 142 | 5 | 3.7 |
| All Other Causes | 55,526 | | |

Note: Numbers may not add to total due to rounding.

*Excludes passive smoking-attributable deaths

Table 6

Female: Total Deaths and Deaths Attributed to Smoking by Cause of Death, California, 200

| Cause of Death | Deaths | Attributed to Smoking | |
|---|---------|-----------------------|---------|
| | | Number | Percent |
| All Causes | 113,932 | 13,799 * | 12.1 |
| Neoplasms | | | |
| Lip, oral cavity, pharynx | 286 | 115 | 40.2 |
| Esophagus | 298 | 153 | 51.4 |
| Stomach | 620 | 59 | 9.5 |
| Pancreas | 1,861 | 372 | 20.0 |
| Larynx | 63 | 43 | 69.0 |
| Trachea, lung, bronchus | 6,075 | 4,020 | 66.2 |
| Cervix, uterus | 439 | 34 | 7.8 |
| Urinary bladder | 389 | 97 | 24.8 |
| Kidney, other urinary | 446 | 17 | 3.9 |
| Acute Myeloid Leukemia | 539 | 47 | 8.7 |
| Cardiovascular disease | | | |
| Hypertension | 4,374 | 411 | 9.4 |
| Ischemic heart disease | | | |
| 0-34 years | 18 | | |
| 35-64 years | 1,659 | 378 | 22.8 |
| 65 years plus | 16,780 | 1,584 | 9.4 |
| Other heart disease | 7,498 | 571 | 7.6 |
| Cerebrovascular disease | | | |
| 0-34 years | 63 | | |
| 35-64 years | 888 | 248 | 27.9 |
| 65 years plus | 6,846 | 270 | 3.9 |
| Atherosclerosis | 478 | 35 | 7.4 |
| Aortic aneurysm | 350 | 157 | 45.0 |
| Other arterial diseases | 386 | 47 | 12.1 |
| Respiratory Diseases | | | |
| Respiratory TB | 30 | 5 | 15.2 |
| Pneumonia, influenza | 3,259 | 371 | 11.4 |
| Bronchitis, emphysema | 485 | 375 | 77.4 |
| Asthma | 273 | 42 | 15.4 |
| Chronic airways obstruction | 6,023 | 4,336 | 72.0 |
| Pediatric Diseases | | | |
| Short gestation, low birth weight | 143 | 6 | 3.9 |
| Sudden infant death syndrome | 79 | 5 | 6.2 |
| Respiratory distress syndrome | 19 | 0 | 1.4 |
| Respiratory conditions of newborn | 37 | 1 | 2.0 |
| Passive Smoking--Lung Cancer | 6,075 | 37 | 0.6 |
| Passive Smoking--Ischemic Heart Disease | 18,457 | 332 | 1.8 |
| Passive Smoking - Asthma | 273 | 8 | 3.1 |
| All Other Causes | 53,228 | | |

Note: Numbers may not add to total due to rounding.

*Excludes passive smoking-attributable deaths 41

Table 7

Deaths, Years of Potential Life Lost, and Productivity Losses Attributed to Smoking, California, 2009

| Cause of Death | Number of Deaths | Years of Potential Life Lost * | | Productivity Losses ** | |
|-----------------------------------|------------------|--------------------------------|-----------|------------------------|-------------------|
| | | Number | Per Death | Amount (\$1,000) | Per Death (\$) |
| All Active Smoking-Related Causes | 34,363 | 586,815 | 17.1 | 6,797,280 | 197,807 |
| Neoplasms | | | | | |
| Lip, oral cavity, pharynx | 521 | 10,955 | 21.0 | 188,506 | 361,841 |
| Esophagus | 790 | 15,269 | 19.3 | 229,985 | 291,029 |
| Stomach | 263 | 5,202 | 19.7 | 84,265 | 319,794 |
| Pancreas | 732 | 13,868 | 18.9 | 166,591 | 227,469 |
| Larynx | 239 | 4,563 | 19.1 | 66,564 | 278,288 |
| Trachea, lung, bronchus | 9,992 | 178,745 | 17.9 | 1,898,596 | 190,009 |
| Cervix, uterus | 34 | 1,035 | 30.4 | 18,289 | 537,356 |
| Urinary bladder | 487 | 7,107 | 14.6 | 63,738 | 130,872 |
| Kidney, other urinary | 286 | 5,630 | 19.7 | 92,091 | 322,319 |
| Acute Myeloid Leukemia | 170 | 3,248 | 19.1 | 47,502 | 279,537 |
| Cardiovascular disease | | | | | |
| Hypertension | 1,076 | 18,082 | 16.8 | 257,174 | 239,009 |
| Ischemic heart disease | | | | | |
| 35-64 years | 2,135 | 63,719 | 29.8 | 1,545,337 | 723,714 |
| 65 years plus | 3,819 | 45,186 | 11.8 | 133,242 | 34,893 |
| Other heart disease | 1,615 | 24,244 | 15.0 | 289,799 | 179,455 |
| Cerebrovascular disease | | | | | |
| 35-64 years | 561 | 17,998 | 32.1 | 416,750 | 742,605 |
| 65 years plus | 581 | 6,829 | 11.8 | 18,525 | 31,882 |
| Atherosclerosis | 115 | 1,444 | 12.6 | 9,763 | 84,856 |
| Aortic aneurysm | 496 | 8,547 | 17.2 | 117,840 | 237,693 |
| Other arterial diseases | 92 | 1,328 | 14.5 | 10,479 | 114,281 |
| Respiratory Diseases | | | | | |
| Respiratory TB | 19 | 367 | 19.0 | 5,992 | 310,154 |
| Pneumonia, influenza | 936 | 13,911 | 14.9 | 154,015 | 164,558 |
| Bronchitis, emphysema | 841 | 12,771 | 15.2 | 99,303 | 118,017 |
| Asthma | 68 | 1,482 | 21.7 | 24,933 | 365,618 |
| Chronic airways obstruction | 8,467 | 123,089 | 14.5 | 822,806 | 97,182 |
| Pediatric Diseases | | | | | |
| Short gestation, low birth weight | 13 | 1,068 | 81.4 | 17,135 | 1,305,551 |
| Sudden infant death syndrome | 11 | 913 | 81.4 | 14,585 | 1,301,475 |
| Respiratory distress syndrome | 1 | 61 | 81.0 | 993 | 1,322,478 |
| Respiratory conditions of newborn | 2 | 154 | 81.3 | 2,485 | 1,311,322 |

Note: Numbers may not add to total due to rounding.

* Based on life expectancy at death.

** Discounted at 3 percent

Table 8

Male: Deaths, Years of Potential Life Lost, and Productivity Losses Attributed to Smoking, California, 2009

| Cause of Death | Number of Deaths | Years of Potential Life Lost * | | Productivity Losses ** | |
|-----------------------------------|------------------|--------------------------------|-----------|------------------------|-------------------|
| | | Number | Per Death | Amount `(\$1,000) | Per Death (\$) |
| All Active Smoking-Related Causes | 20,565 | 353,752 | 17.2 | 5,166,538 | 251,235 |
| Neoplasms | | | | | |
| Lip, oral cavity, pharynx | 406 | 8,673 | 21.4 | 166,822 | 411,024 |
| Esophagus | 637 | 12,409 | 19.5 | 205,563 | 322,694 |
| Stomach | 205 | 3,964 | 19.4 | 69,304 | 338,509 |
| Pancreas | 360 | 6,808 | 18.9 | 108,253 | 300,647 |
| Larynx | 196 | 3,699 | 18.9 | 59,156 | 302,224 |
| Trachea, lung, bronchus | 5,972 | 102,771 | 17.2 | 1,322,274 | 221,401 |
| Cervix, uterus | | | | | |
| Urinary bladder | 390 | 5,599 | 14.3 | 54,830 | 140,410 |
| Kidney, other urinary | 268 | 5,289 | 19.7 | 89,049 | 331,785 |
| Acute Myeloid Leukemia | 123 | 2,257 | 18.3 | 36,178 | 293,829 |
| Cardiovascular disease | | | | | |
| Hypertension | 665 | 12,111 | 18.2 | 218,283 | 328,058 |
| Ischemic heart disease | | | | | |
| 35-64 years | 1,757 | 51,643 | 29.4 | 1,349,650 | 768,173 |
| 65 years plus | 2,235 | 26,297 | 11.8 | 106,897 | 47,827 |
| Other heart disease | 1,044 | 16,309 | 15.6 | 244,262 | 233,997 |
| Cerebrovascular disease | | | | | |
| 35-64 years | 314 | 9,613 | 30.7 | 266,844 | 851,047 |
| 65 years plus | 311 | 3,605 | 11.6 | 14,214 | 45,743 |
| Atherosclerosis | 80 | 1,016 | 12.7 | 8,400 | 105,181 |
| Aortic aneurysm | 338 | 6,034 | 17.8 | 101,715 | 300,576 |
| Other arterial diseases | 45 | 662 | 14.7 | 7,406 | 164,993 |
| Respiratory Diseases | | | | | |
| Respiratory TB | 15 | 272 | 18.4 | 4,947 | 335,157 |
| Pneumonia, influenza | 565 | 8,356 | 14.8 | 115,110 | 203,876 |
| Bronchitis, emphysema | 466 | 6,824 | 14.6 | 66,917 | 143,518 |
| Asthma | 26 | 587 | 22.4 | 13,601 | 518,901 |
| Chronic airways obstruction | 4,131 | 57,721 | 14.0 | 514,991 | 124,672 |
| Pediatric Diseases | | | | | |
| Short gestation, low birth weight | 8 | 603 | 79.3 | 10,703 | 1,408,168 |
| Sudden infant death syndrome | 6 | 500 | 79.3 | 8,875 | 1,408,168 |
| Respiratory distress syndrome | 0 | 39 | 79.3 | 685 | 1,408,168 |
| Respiratory conditions of newborn | 1 | 91 | 79.3 | 1,608 | 1,408,168 |

Note: Numbers may not add to total due to rounding.

* Based on life expectancy at death.

** Discounted at 3 percent

Table 9

Female: Deaths, Years of Potential Life Lost, and Productivity Losses Attributed to Smoking, California, 2009

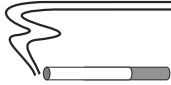
| Cause of Death | Number of Deaths | Years of Potential Life Lost * | | Productivity Losses ** | |
|-----------------------------------|------------------|--------------------------------|-----------|------------------------|-------------------|
| | | Number | Per Death | Amount `(\$1,000) | Per Death (\$) |
| All Active Smoking-Related Causes | 13,799 | 233,064 | 16.9 | 1,630,741 | 118,182 |
| Neoplasms | | | | | |
| Lip, oral cavity, pharynx | 115 | 2,282 | 19.8 | 21,684 | 188,401 |
| Esophagus | 153 | 2,860 | 18.7 | 24,421 | 159,382 |
| Stomach | 59 | 1,238 | 21.1 | 14,961 | 254,594 |
| Pancreas | 372 | 7,060 | 19.0 | 58,338 | 156,695 |
| Larynx | 43 | 864 | 19.9 | 7,408 | 170,470 |
| Trachea, lung, bronchus | 4,020 | 75,974 | 18.9 | 576,322 | 143,369 |
| Cervix, uterus | 34 | 1,035 | 30.4 | 18,289 | 537,356 |
| Urinary bladder | 97 | 1,508 | 15.6 | 8,908 | 92,284 |
| Kidney, other urinary | 17 | 341 | 19.7 | 3,042 | 175,632 |
| Acute Myeloid Leukemia | 47 | 991 | 21.2 | 11,324 | 241,941 |
| Cardiovascular disease | | | | | |
| Hypertension | 411 | 5,971 | 14.5 | 38,890 | 94,711 |
| Ischemic heart disease | | | | | |
| 35-64 years | 378 | 12,076 | 31.9 | 195,687 | 517,244 |
| 65 years plus | 1,584 | 18,889 | 11.9 | 26,345 | 16,637 |
| Other heart disease | 571 | 7,935 | 13.9 | 45,537 | 79,748 |
| Cerebrovascular disease | | | | | |
| 35-64 years | 248 | 8,385 | 33.9 | 149,906 | 605,308 |
| 65 years plus | 270 | 3,224 | 11.9 | 4,311 | 15,949 |
| Atherosclerosis | 35 | 428 | 12.2 | 1,363 | 38,734 |
| Aortic aneurysm | 157 | 2,513 | 16.0 | 16,126 | 102,471 |
| Other arterial diseases | 47 | 666 | 14.2 | 3,074 | 65,657 |
| Respiratory Diseases | | | | | |
| Respiratory TB | 5 | 96 | 21.0 | 1,045 | 229,232 |
| Pneumonia, influenza | 371 | 5,555 | 15.0 | 38,904 | 104,774 |
| Bronchitis, emphysema | 375 | 5,947 | 15.9 | 32,386 | 86,324 |
| Asthma | 42 | 896 | 21.3 | 11,332 | 269,916 |
| Chronic airways obstruction | 4,336 | 65,368 | 15.1 | 307,814 | 70,992 |
| Pediatric Diseases | | | | | |
| Short gestation, low birth weight | 6 | 465 | 84.2 | 6,432 | 1,164,357 |
| Sudden infant death syndrome | 5 | 413 | 84.2 | 5,710 | 1,164,357 |
| Respiratory distress syndrome | 0 | 22 | 84.2 | 307 | 1,164,357 |
| Respiratory conditions of newborn | 1 | 63 | 84.2 | 876 | 1,164,357 |

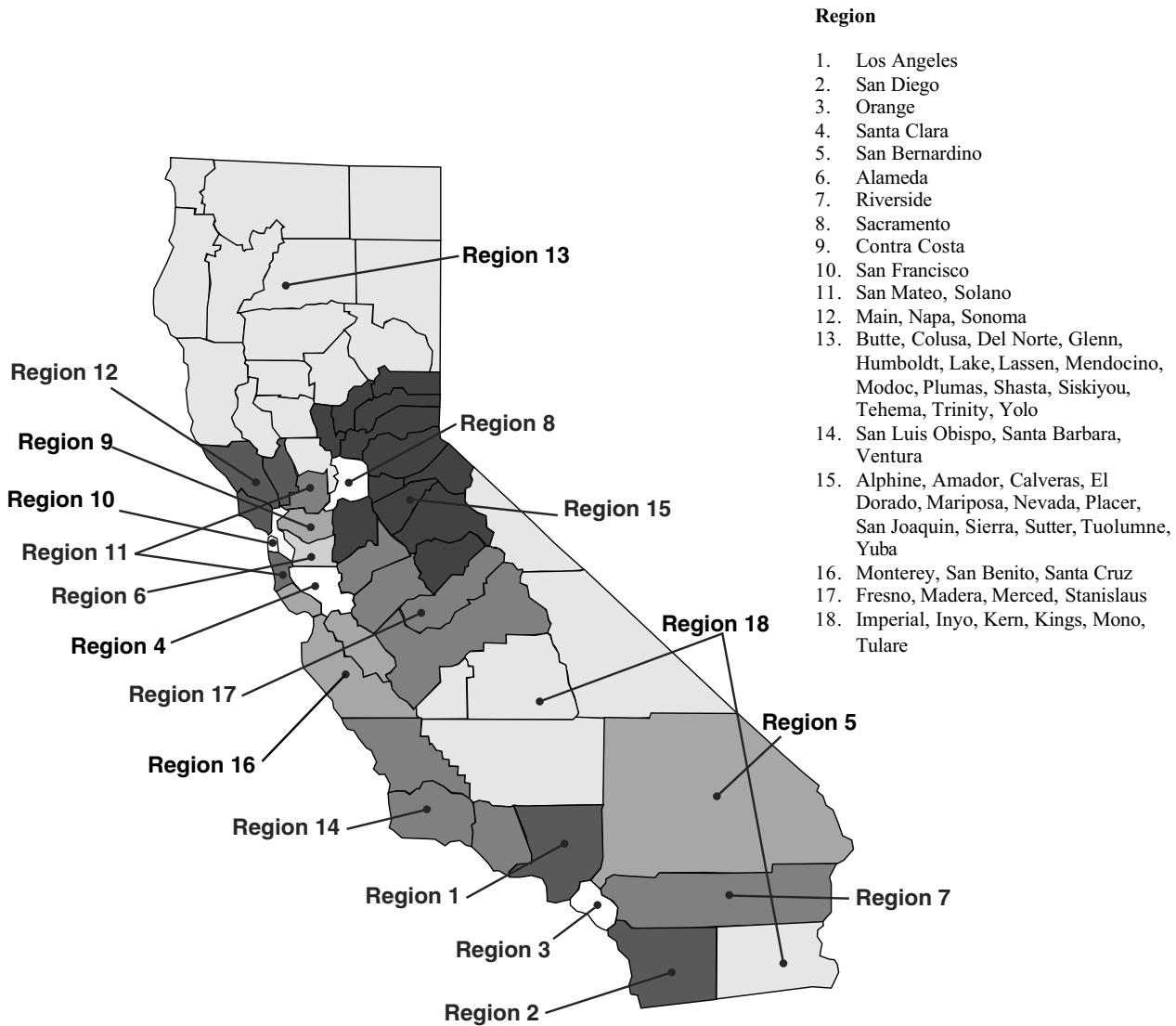
Note: Numbers may not add to total due to rounding.

* Based on life expectancy at death.

** Discounted at 3 percent

County Tables





Note: Regions are used in order to obtain a large enough sample for statistical validity. The ten largest counties are designated as Regions one through ten and grouping of other geographically and demographically similar counties make up Regions 11-18. The counties in Regions 11 and 18 are not contiguous. Since data on the prevalence of smoking in California are available by region, it is assumed in the current report that the smoking prevalence for a multi-county region applies to each county in the region. Estimates for Alpine, Colusa, Glenn, Inyo, Lassen, Mariposa, Modoc, Mono, Plumas, San Benito, Sierra, and Trinity Counties are based on 20 or fewer deaths and may not be reliable. Percents are per person estimates are based on nonrounded numbers. Years of potential life lost are based on life expectancy at death.

Table 10

Cost of Smoking by California County, 2009

| County | Total | Direct | Indirect Lost Productivity | |
|--------------|--------------|-------------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| (thousands) | | | | |
| California | \$18,058,012 | \$9,830,115 | \$1,430,618 | \$6,797,280 |
| Alameda | \$702,063 | 401,702 | 56,064 | 244,297 |
| Alpine | \$478 | 332 | 60 | 86 |
| Amador | \$34,317 | 17,002 | 1,833 | 15,482 |
| Butte | \$181,708 | 96,004 | 9,868 | 75,836 |
| Calaveras | \$35,016 | 20,146 | 2,083 | 12,787 |
| Colusa | \$13,088 | 7,362 | 919 | 4,807 |
| Contra Costa | \$540,362 | 334,548 | 45,783 | 160,031 |
| Del Norte | \$22,999 | 10,091 | 1,417 | 11,490 |
| El Dorado | \$109,486 | 66,744 | 8,432 | 34,310 |
| Fresno | \$421,195 | 216,941 | 32,408 | 171,846 |
| Glenn | \$20,786 | 10,940 | 1,220 | 8,625 |
| Humboldt | \$95,856 | 50,288 | 6,379 | 39,189 |
| Imperial | \$80,170 | 46,354 | 6,636 | 27,180 |
| Inyo | \$12,808 | 7,404 | 777 | 4,627 |
| Kern | \$458,699 | 224,281 | 31,628 | 202,791 |
| Kings | \$74,617 | 37,091 | 6,168 | 31,357 |
| Lake | \$64,549 | 33,723 | 3,098 | 27,727 |
| Lassen | \$18,802 | 10,328 | 1,868 | 6,606 |
| Los Angeles | \$4,408,555 | 2,318,269 | 357,129 | 1,733,158 |
| Madera | \$72,026 | 36,044 | 5,310 | 30,672 |
| Marin | \$138,354 | 94,700 | 13,474 | 30,179 |
| Mariposa | \$13,626 | 7,776 | 858 | 4,993 |
| Mendocino | \$73,786 | 37,234 | 4,223 | 32,329 |
| Merced | \$111,757 | 59,502 | 8,752 | 43,502 |
| Modoc | \$9,642 | 3,907 | 458 | 5,276 |
| Mono | \$5,467 | 3,599 | 656 | 1,211 |
| Monterey | \$190,190 | 115,063 | 15,094 | 60,033 |
| Napa | \$83,194 | 48,703 | 6,575 | 27,916 |
| Nevada | \$66,931 | 39,188 | 4,541 | 23,203 |
| Orange | \$1,122,009 | 615,714 | 105,690 | 400,605 |

Table 10 (Continued)

| County | Total | Direct | Indirect Lost Productivity | |
|-----------------|-------------|---------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| (thousands) | | | | |
| Placer | \$191,720 | 116,003 | \$15,122 | 60,595 |
| Plumas | \$14,037 | 9,437 | 991 | 3,609 |
| Riverside | \$1,251,715 | 667,937 | 89,525 | 494,253 |
| Sacramento | \$790,670 | 416,692 | 57,368 | 316,610 |
| San Benito | \$26,292 | 13,868 | 2,077 | 10,347 |
| San Bernardino | \$974,858 | 472,138 | 76,670 | 426,050 |
| San Diego | \$1,458,123 | 813,490 | 118,904 | 525,729 |
| San Francisco | \$380,164 | 213,645 | 33,272 | 133,248 |
| San Joaquin | \$395,397 | 204,351 | 27,610 | 163,436 |
| San Luis Obispo | \$123,633 | 71,465 | 10,712 | 41,456 |
| San Mateo | \$375,791 | 238,408 | 29,556 | 107,828 |
| Santa Barbara | \$180,882 | 102,339 | 15,676 | 62,867 |
| Santa Clara | \$689,796 | 431,813 | 64,111 | 193,873 |
| Santa Cruz | \$136,011 | 73,842 | 10,451 | 51,718 |
| Shasta | \$148,643 | 75,742 | 8,240 | 64,661 |
| Sierra | \$2,617 | 1,414 | 161 | 1,042 |
| Siskiyou | \$39,754 | 18,434 | 2,139 | 19,180 |
| Solano | \$244,607 | 134,917 | 16,569 | 93,120 |
| Sonoma | \$277,741 | 156,589 | 23,899 | 97,254 |
| Stanislaus | \$278,274 | 142,936 | 18,633 | 116,705 |
| Sutter | \$56,304 | 30,384 | 3,842 | 22,077 |
| Tehama | \$48,862 | 24,917 | 2,867 | 21,078 |
| Trinity | \$12,716 | 6,544 | 699 | 5,473 |
| Tulare | \$218,086 | 109,370 | 15,886 | 92,830 |
| Tuolumne | \$44,121 | 25,439 | 2,536 | 16,146 |
| Ventura | \$360,857 | 204,423 | 31,970 | 124,465 |
| Yolo | \$106,770 | 59,722 | 8,858 | 38,190 |
| Yuba | \$47,037 | 22,875 | 2,876 | 21,286 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

Table 11

Male: Cost of Smoking by California County, 2009

| County | Total | Direct | Indirect Lost Productivity | |
|--------------|--------------|-------------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| (thousands) | | | | |
| California | \$11,657,133 | \$5,642,380 | \$848,214 | \$5,166,538 |
| Alameda | 448,873 | 232,185 | 32,836 | 183,852 |
| Alpine | 316 | 195 | 36 | 86 |
| Amador | 21,843 | 10,196 | 1,144 | 10,503 |
| Butte | 106,576 | 51,888 | 5,280 | 49,408 |
| Calaveras | 22,617 | 11,450 | 1,152 | 10,015 |
| Colusa | 8,444 | 3,886 | 502 | 4,056 |
| Contra Costa | 326,407 | 181,739 | 25,353 | 119,316 |
| Del Norte | 13,779 | 5,551 | 867 | 7,361 |
| El Dorado | 65,126 | 36,641 | 4,634 | 23,851 |
| Fresno | 271,325 | 124,305 | 20,030 | 126,991 |
| Glenn | 13,967 | 5,895 | 659 | 7,413 |
| Humboldt | 58,806 | 26,213 | 3,463 | 29,131 |
| Imperial | 52,405 | 27,425 | 3,722 | 21,258 |
| Inyo | 7,975 | 4,379 | 438 | 3,159 |
| Kern | 297,889 | 133,345 | 17,833 | 146,712 |
| Kings | 48,971 | 22,883 | 3,983 | 22,105 |
| Lake | 39,680 | 18,298 | 1,647 | 19,735 |
| Lassen | 12,343 | 6,044 | 1,300 | 5,000 |
| Los Angeles | 2,930,270 | 1,339,345 | 219,938 | 1,370,987 |
| Madera | 48,351 | 20,326 | 3,107 | 24,918 |
| Marin | 76,585 | 47,195 | 6,976 | 22,415 |
| Mariposa | 7,647 | 4,360 | 489 | 2,797 |
| Mendocino | 45,510 | 19,895 | 2,266 | 23,349 |
| Merced | 64,970 | 33,910 | 5,414 | 25,646 |
| Modoc | 5,823 | 2,188 | 246 | 3,389 |
| Mono | 3,719 | 2,204 | 386 | 1,130 |
| Monterey | 121,578 | 65,897 | 9,757 | 45,924 |
| Napa | 49,206 | 25,129 | 3,495 | 20,583 |
| Nevada | 39,911 | 21,607 | 2,495 | 15,810 |
| Orange | 727,104 | 341,260 | 67,438 | 318,406 |

Table 11 (Continued)

| County | Total | Direct | Indirect Lost Productivity | |
|-----------------|---------|----------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| (thousands) | | | | |
| Placer | 118,408 | \$62,689 | \$8,132 | 47,586 |
| Plumas | 8,135 | 4,908 | 524 | 2,704 |
| Riverside | 801,455 | 377,221 | 51,646 | 372,587 |
| Sacramento | 476,355 | 219,634 | 30,702 | 226,020 |
| San Benito | 17,717 | 7,870 | 1,288 | 8,560 |
| San Bernardino | 620,598 | 263,596 | 46,717 | 310,285 |
| San Diego | 955,549 | 485,216 | 68,421 | 401,912 |
| San Francisco | 293,289 | 157,144 | 22,768 | 113,377 |
| San Joaquin | 245,246 | 110,643 | 15,001 | 119,603 |
| San Luis Obispo | 76,465 | 39,348 | 6,438 | 30,679 |
| San Mateo | 246,357 | 145,925 | 17,077 | 83,355 |
| Santa Barbara | 111,851 | 55,755 | 9,237 | 46,858 |
| Santa Clara | 486,925 | 290,182 | 38,775 | 157,968 |
| Santa Cruz | 88,430 | 41,533 | 6,547 | 40,350 |
| Shasta | 91,262 | 40,271 | 4,307 | 46,684 |
| Sierra | 1,650 | 761 | 91 | 798 |
| Siskiyou | 24,939 | 9,898 | 1,128 | 13,913 |
| Solano | 163,930 | 84,408 | 9,737 | 69,785 |
| Sonoma | 158,287 | 76,386 | 12,525 | 69,376 |
| Stanislaus | 181,925 | 80,827 | 11,423 | 89,675 |
| Sutter | 35,264 | 16,528 | 2,084 | 16,652 |
| Tehama | 30,237 | 13,321 | 1,520 | 15,396 |
| Trinity | 8,436 | 3,830 | 383 | 4,223 |
| Tulare | 140,969 | 63,381 | 8,638 | 68,950 |
| Tuolumne | 26,220 | 14,558 | 1,513 | 10,149 |
| Ventura | 216,466 | 107,304 | 18,478 | 90,683 |
| Yolo | 62,397 | 31,043 | 4,658 | 26,696 |
| Yuba | 30,353 | 12,368 | 1,576 | 16,409 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

Table 12

Female: Cost of Smoking by California County, 2009

| County | Total | Direct | Indirect Lost Productivity | |
|--------------|-------------|-------------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| (thousands) | | | | |
| California | \$6,400,879 | \$4,187,734 | \$582,404 | \$1,630,741 |
| Alameda | 253,190 | 169,518 | 23,228 | 60,444 |
| Alpine | 161 | 137 | 25 | 0 |
| Amador | 12,475 | 6,806 | 690 | 4,979 |
| Butte | 75,132 | 44,116 | 4,589 | 26,428 |
| Calaveras | 12,398 | 8,696 | 931 | 2,772 |
| Colusa | 4,645 | 3,476 | 418 | 751 |
| Contra Costa | 213,954 | 152,809 | 20,430 | 40,715 |
| Del Norte | 9,220 | 4,540 | 550 | 4,130 |
| El Dorado | 44,360 | 30,103 | 3,797 | 10,459 |
| Fresno | 149,870 | 92,636 | 12,378 | 44,856 |
| Glenn | 6,818 | 5,045 | 561 | 1,212 |
| Humboldt | 37,050 | 24,075 | 2,916 | 10,059 |
| Imperial | 27,765 | 18,929 | 2,915 | 5,922 |
| Inyo | 4,833 | 3,026 | 339 | 1,468 |
| Kern | 160,810 | 90,936 | 13,795 | 56,079 |
| Kings | 25,646 | 14,208 | 2,185 | 9,252 |
| Lake | 24,868 | 15,425 | 1,452 | 7,992 |
| Lassen | 6,459 | 4,284 | 568 | 1,606 |
| Los Angeles | 1,478,285 | 978,923 | 137,190 | 362,171 |
| Madera | 23,675 | 15,718 | 2,203 | 5,753 |
| Marin | 61,768 | 47,506 | 6,498 | 7,764 |
| Mariposa | 5,980 | 3,416 | 369 | 2,196 |
| Mendocino | 28,276 | 17,339 | 1,957 | 8,980 |
| Merced | 46,787 | 25,592 | 3,339 | 17,857 |
| Modoc | 3,819 | 1,720 | 212 | 1,887 |
| Mono | 1,748 | 1,396 | 271 | 81 |
| Monterey | 68,612 | 49,166 | 5,337 | 14,109 |
| Napa | 33,988 | 23,574 | 3,080 | 7,334 |
| Nevada | 27,020 | 17,581 | 2,046 | 7,393 |
| Orange | 394,905 | 274,454 | 38,252 | 82,199 |

Table 12 (Continued)

| County | Total | Direct | Indirect Lost Productivity | |
|-----------------|---------|----------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| (thousands) | | | | |
| Placer | 73,312 | \$53,315 | \$6,990 | 13,008 |
| Plumas | 5,902 | 4,529 | 467 | 905 |
| Riverside | 450,260 | 290,715 | 37,879 | 121,666 |
| Sacramento | 314,315 | 197,058 | 26,667 | 90,590 |
| San Benito | 8,575 | 5,999 | 789 | 1,787 |
| San Bernardino | 354,260 | 208,542 | 29,953 | 115,765 |
| San Diego | 502,574 | 328,274 | 50,483 | 123,817 |
| San Francisco | 86,875 | 56,501 | 10,504 | 19,871 |
| San Joaquin | 150,151 | 93,708 | 12,609 | 43,834 |
| San Luis Obispo | 47,168 | 32,117 | 4,274 | 10,776 |
| San Mateo | 129,433 | 92,483 | 12,479 | 24,472 |
| Santa Barbara | 69,032 | 46,585 | 6,439 | 16,008 |
| Santa Clara | 202,872 | 141,631 | 25,336 | 35,905 |
| Santa Cruz | 47,581 | 32,309 | 3,904 | 11,368 |
| Shasta | 57,381 | 35,471 | 3,933 | 17,978 |
| Sierra | 967 | 653 | 70 | 244 |
| Siskiyou | 14,815 | 8,536 | 1,011 | 5,268 |
| Solano | 80,677 | 50,509 | 6,832 | 23,336 |
| Sonoma | 119,455 | 80,203 | 11,374 | 27,878 |
| Stanislaus | 96,349 | 62,108 | 7,211 | 27,030 |
| Sutter | 21,040 | 13,856 | 1,758 | 5,426 |
| Tehama | 18,624 | 11,596 | 1,347 | 5,682 |
| Trinity | 4,280 | 2,714 | 316 | 1,250 |
| Tulare | 77,117 | 45,988 | 7,248 | 23,880 |
| Tuolumne | 17,901 | 10,881 | 1,023 | 5,997 |
| Ventura | 144,392 | 97,118 | 13,492 | 33,782 |
| Yolo | 44,373 | 28,678 | 4,200 | 11,495 |
| Yuba | 16,684 | 10,507 | 1,300 | 4,877 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

Table 13

Per Resident Cost of Smoking by California County, 2009

| County | Total | Direct | Indirect Lost Productivity | |
|--------------|-------|--------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| California | \$487 | \$265 | \$39 | \$183 |
| Alameda | 467 | 267 | 37 | 162 |
| Alpine | 405 | 281 | 51 | 73 |
| Amador | 905 | 449 | 48 | 408 |
| Butte | 829 | 438 | 45 | 346 |
| Calaveras | 769 | 442 | 46 | 281 |
| Colusa | 615 | 346 | 43 | 226 |
| Contra Costa | 518 | 321 | 44 | 153 |
| Del Norte | 805 | 353 | 50 | 402 |
| El Dorado | 609 | 371 | 47 | 191 |
| Fresno | 456 | 235 | 35 | 186 |
| Glenn | 741 | 390 | 43 | 307 |
| Humboldt | 717 | 376 | 48 | 293 |
| Imperial | 463 | 268 | 38 | 157 |
| Inyo | 694 | 401 | 42 | 251 |
| Kern | 552 | 270 | 38 | 244 |
| Kings | 492 | 244 | 41 | 207 |
| Lake | 1,002 | 524 | 48 | 431 |
| Lassen | 541 | 297 | 54 | 190 |
| Los Angeles | 450 | 236 | 36 | 177 |
| Madera | 480 | 240 | 35 | 204 |
| Marin | 551 | 377 | 54 | 120 |
| Mariposa | 745 | 425 | 47 | 273 |
| Mendocino | 843 | 425 | 48 | 369 |
| Merced | 440 | 234 | 34 | 171 |
| Modoc | 1,001 | 406 | 48 | 548 |
| Mono | 388 | 256 | 47 | 86 |
| Monterey | 460 | 278 | 36 | 145 |
| Napa | 613 | 359 | 48 | 206 |
| Nevada | 680 | 398 | 46 | 236 |
| Orange | 374 | 205 | 35 | 134 |

Table 13 (Continued)

| County | Total | Direct | Indirect Lost Productivity | |
|-----------------|-------|--------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| Placer | 557 | 337 | 44 | 176 |
| Plumas | 700 | 470 | 49 | 180 |
| Riverside | 580 | 309 | 41 | 229 |
| Sacramento | 560 | 295 | 41 | 224 |
| San Benito | 477 | 252 | 38 | 188 |
| San Bernardino | 482 | 233 | 38 | 211 |
| San Diego | 474 | 264 | 39 | 171 |
| San Francisco | 474 | 266 | 41 | 166 |
| San Joaquin | 581 | 300 | 41 | 240 |
| San Luis Obispo | 461 | 266 | 40 | 155 |
| San Mateo | 525 | 333 | 41 | 151 |
| Santa Barbara | 428 | 242 | 37 | 149 |
| Santa Clara | 389 | 243 | 36 | 109 |
| Santa Cruz | 519 | 282 | 40 | 197 |
| Shasta | 840 | 428 | 47 | 366 |
| Sierra | 807 | 436 | 50 | 322 |
| Siskiyou | 884 | 410 | 48 | 427 |
| Solano | 593 | 327 | 40 | 226 |
| Sonoma | 578 | 326 | 50 | 202 |
| Stanislaus | 543 | 279 | 36 | 228 |
| Sutter | 597 | 322 | 41 | 234 |
| Tehama | 774 | 395 | 45 | 334 |
| Trinity | 923 | 475 | 51 | 397 |
| Tulare | 497 | 249 | 36 | 212 |
| Tuolumne | 798 | 460 | 46 | 292 |
| Ventura | 441 | 250 | 39 | 152 |
| Yolo | 535 | 299 | 44 | 191 |
| Yuba | 655 | 319 | 40 | 296 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

Table 14

Male: Per Resident Cost of Smoking by California County, 2009

| County | Total | Direct | Indirect Lost Productivity | |
|--------------|-------|--------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| California | \$632 | \$306 | \$46 | \$280 |
| Alameda | 608 | 315 | 44 | 249 |
| Alpine | 519 | 320 | 58 | 141 |
| Amador | 1,055 | 492 | 55 | 507 |
| Butte | 984 | 479 | 49 | 456 |
| Calaveras | 994 | 503 | 51 | 440 |
| Colusa | 775 | 357 | 46 | 372 |
| Contra Costa | 640 | 357 | 50 | 234 |
| Del Norte | 870 | 351 | 55 | 465 |
| El Dorado | 725 | 408 | 52 | 266 |
| Fresno | 587 | 269 | 43 | 275 |
| Glenn | 987 | 417 | 47 | 524 |
| Humboldt | 879 | 392 | 52 | 435 |
| Imperial | 588 | 308 | 42 | 239 |
| Inyo | 863 | 474 | 47 | 342 |
| Kern | 695 | 311 | 42 | 342 |
| Kings | 563 | 263 | 46 | 254 |
| Lake | 1,231 | 568 | 51 | 612 |
| Lassen | 553 | 271 | 58 | 224 |
| Los Angeles | 606 | 277 | 45 | 283 |
| Madera | 669 | 281 | 43 | 345 |
| Marin | 618 | 381 | 56 | 181 |
| Mariposa | 825 | 470 | 53 | 302 |
| Mendocino | 1,040 | 454 | 52 | 533 |
| Merced | 509 | 266 | 42 | 201 |
| Modoc | 1,199 | 451 | 51 | 698 |
| Mono | 493 | 292 | 51 | 150 |
| Monterey | 572 | 310 | 46 | 216 |
| Napa | 727 | 371 | 52 | 304 |
| Nevada | 819 | 444 | 51 | 325 |
| Orange | 489 | 230 | 45 | 214 |

Table 14 (Continued)

| County | Total | Direct | Indirect Lost Productivity | |
|-----------------|-------|--------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| Placer | 704 | 373 | 48 | 283 |
| Plumas | 811 | 489 | 52 | 270 |
| Riverside | 747 | 351 | 48 | 347 |
| Sacramento | 689 | 318 | 44 | 327 |
| San Benito | 642 | 285 | 47 | 310 |
| San Bernardino | 617 | 262 | 46 | 308 |
| San Diego | 618 | 314 | 44 | 260 |
| San Francisco | 721 | 386 | 56 | 279 |
| San Joaquin | 723 | 326 | 44 | 353 |
| San Luis Obispo | 557 | 286 | 47 | 223 |
| San Mateo | 699 | 414 | 48 | 237 |
| Santa Barbara | 527 | 263 | 44 | 221 |
| Santa Clara | 546 | 325 | 43 | 177 |
| Santa Cruz | 676 | 318 | 50 | 309 |
| Shasta | 1,050 | 463 | 50 | 537 |
| Sierra | 1,005 | 463 | 55 | 486 |
| Siskiyou | 1,115 | 443 | 50 | 622 |
| Solano | 795 | 409 | 47 | 338 |
| Sonoma | 669 | 323 | 53 | 293 |
| Stanislaus | 718 | 319 | 45 | 354 |
| Sutter | 753 | 353 | 45 | 356 |
| Tehama | 962 | 424 | 48 | 490 |
| Trinity | 1,188 | 539 | 54 | 595 |
| Tulare | 642 | 289 | 39 | 314 |
| Tuolumne | 896 | 497 | 52 | 347 |
| Ventura | 532 | 264 | 45 | 223 |
| Yolo | 641 | 319 | 48 | 274 |
| Yuba | 839 | 342 | 44 | 454 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

Table 15

Female: Per Resident Cost of Smoking by California County, 2009

| County | Total | Direct | Indirect Lost Productivity | |
|--------------|-------|--------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| California | \$344 | \$225 | \$31 | \$88 |
| Alameda | 331 | 221 | 30 | 79 |
| Alpine | 283 | 240 | 43 | 0 |
| Amador | 725 | 396 | 40 | 290 |
| Butte | 677 | 398 | 41 | 238 |
| Calaveras | 544 | 381 | 41 | 122 |
| Colusa | 448 | 335 | 40 | 72 |
| Contra Costa | 401 | 286 | 38 | 76 |
| Del Norte | 725 | 357 | 43 | 325 |
| El Dorado | 494 | 335 | 42 | 116 |
| Fresno | 324 | 201 | 27 | 97 |
| Glenn | 490 | 363 | 40 | 87 |
| Humboldt | 554 | 360 | 44 | 150 |
| Imperial | 330 | 225 | 35 | 70 |
| Inyo | 525 | 329 | 37 | 159 |
| Kern | 399 | 226 | 34 | 139 |
| Kings | 395 | 219 | 34 | 143 |
| Lake | 773 | 480 | 45 | 248 |
| Lassen | 518 | 344 | 46 | 129 |
| Los Angeles | 297 | 197 | 28 | 73 |
| Madera | 304 | 202 | 28 | 74 |
| Marin | 485 | 373 | 51 | 61 |
| Mariposa | 664 | 379 | 41 | 244 |
| Mendocino | 646 | 396 | 45 | 205 |
| Merced | 370 | 202 | 26 | 141 |
| Modoc | 800 | 360 | 44 | 395 |
| Mono | 268 | 214 | 42 | 12 |
| Monterey | 341 | 244 | 27 | 70 |
| Napa | 500 | 347 | 45 | 108 |
| Nevada | 544 | 354 | 41 | 149 |
| Orange | 261 | 181 | 25 | 54 |

Table 15 (Continued)

| County | Total | Direct | Indirect Lost Productivity | |
|-----------------|-------|--------|----------------------------|------------------|
| | | | Illness | Premature Death* |
| Placer | 417 | 303 | 40 | 74 |
| Plumas | 588 | 451 | 47 | 90 |
| Riverside | 415 | 268 | 35 | 112 |
| Sacramento | 437 | 274 | 37 | 126 |
| San Benito | 312 | 218 | 29 | 65 |
| San Bernardino | 349 | 205 | 29 | 114 |
| San Diego | 328 | 214 | 33 | 81 |
| San Francisco | 220 | 143 | 27 | 50 |
| San Joaquin | 440 | 274 | 37 | 128 |
| San Luis Obispo | 361 | 245 | 33 | 82 |
| San Mateo | 356 | 254 | 34 | 67 |
| Santa Barbara | 328 | 222 | 31 | 76 |
| Santa Clara | 230 | 160 | 29 | 41 |
| Santa Cruz | 363 | 246 | 30 | 87 |
| Shasta | 638 | 394 | 44 | 200 |
| Sierra | 604 | 408 | 44 | 152 |
| Siskiyou | 656 | 378 | 45 | 233 |
| Solano | 391 | 245 | 33 | 113 |
| Sonoma | 490 | 329 | 47 | 114 |
| Stanislaus | 372 | 240 | 28 | 104 |
| Sutter | 443 | 291 | 37 | 114 |
| Tehama | 588 | 366 | 42 | 179 |
| Trinity | 642 | 407 | 47 | 187 |
| Tulare | 352 | 210 | 33 | 109 |
| Tuolumne | 689 | 419 | 39 | 231 |
| Ventura | 351 | 236 | 33 | 82 |
| Yolo | 434 | 280 | 41 | 112 |
| Yuba | 468 | 295 | 36 | 137 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

Table 16

Direct Healthcare Cost of Smoking by Type of Cost and California County, 2009

| County | Total | Hospital | Ambulatory* | Nursing Home | Prescription | Home Health |
|--------------|-------------|-------------|-------------|--------------|--------------|-------------|
| | | | (thousands) | | | |
| California | \$9,830,115 | \$4,310,875 | \$2,058,077 | \$1,517,363 | \$1,149,527 | \$794,273 |
| Alameda | 401,702 | 190,414 | 71,693 | 69,433 | 39,884 | 30,279 |
| Alpine | 332 | 46 | 103 | 92 | 60 | 30 |
| Amador | 17,002 | 7,107 | 3,433 | 3,256 | 2,068 | 1,138 |
| Butte | 96,004 | 45,206 | 19,395 | 12,599 | 11,512 | 7,291 |
| Calaveras | 20,146 | 7,993 | 4,162 | 4,092 | 2,507 | 1,392 |
| Colusa | 7,362 | 3,024 | 1,716 | 988 | 1,012 | 621 |
| Contra Costa | 334,548 | 147,059 | 69,167 | 64,129 | 36,368 | 17,825 |
| Del Norte | 10,091 | 3,452 | 2,597 | 1,547 | 1,544 | 952 |
| El Dorado | 66,744 | 26,436 | 15,032 | 12,070 | 8,725 | 4,481 |
| Fresno | 216,941 | 95,863 | 44,931 | 28,112 | 26,207 | 21,827 |
| Glenn | 10,940 | 4,859 | 2,354 | 1,444 | 1,405 | 879 |
| Humboldt | 50,288 | 19,539 | 11,976 | 7,481 | 7,011 | 4,281 |
| Imperial | 46,354 | 20,171 | 9,686 | 5,850 | 5,579 | 5,068 |
| Inyo | 7,404 | 3,358 | 1,308 | 1,098 | 818 | 823 |
| Kern | 224,281 | 106,525 | 44,564 | 25,675 | 25,231 | 22,287 |
| Kings | 37,091 | 16,390 | 8,102 | 4,234 | 4,514 | 3,851 |
| Lake | 33,723 | 16,273 | 6,421 | 4,578 | 3,924 | 2,527 |
| Lassen | 10,328 | 2,807 | 3,091 | 1,584 | 1,786 | 1,060 |
| Los Angeles | 2,318,269 | 1,030,866 | 434,291 | 398,524 | 240,984 | 213,604 |
| Madera | 36,044 | 14,358 | 7,863 | 5,158 | 4,671 | 3,994 |
| Marin | 94,700 | 36,135 | 23,093 | 16,539 | 12,918 | 6,016 |
| Mariposa | 7,776 | 2,924 | 1,672 | 1,617 | 1,006 | 557 |
| Mendocino | 37,234 | 15,056 | 8,356 | 5,703 | 5,005 | 3,113 |
| Merced | 59,502 | 27,571 | 11,979 | 7,240 | 6,954 | 5,758 |
| Modoc | 3,907 | 1,209 | 973 | 728 | 602 | 396 |
| Mono | 3,599 | 1,068 | 929 | 592 | 534 | 476 |
| Monterey | 115,063 | 59,922 | 20,724 | 15,849 | 11,268 | 7,301 |
| Napa | 48,703 | 20,656 | 11,176 | 7,776 | 6,192 | 2,902 |
| Nevada | 39,188 | 14,106 | 8,782 | 8,256 | 5,220 | 2,824 |
| Orange | 615,714 | 254,653 | 132,955 | 111,601 | 73,357 | 43,148 |

Table 16 (Continued)

| County | Total | Hospital | Ambulatory* | Nursing Home | Prescription | Home Health |
|-----------------|---------|----------|-------------|--------------|--------------|-------------|
| | | | (thousands) | | | |
| Placer | 116,003 | 43,403 | 27,369 | 21,043 | 15,904 | 8,285 |
| Plumas | 9,437 | 3,379 | 2,152 | 1,695 | 1,333 | 878 |
| Riverside | 667,937 | 265,292 | 145,446 | 111,109 | 85,628 | 60,460 |
| Sacramento | 416,692 | 192,811 | 89,905 | 52,875 | 49,888 | 31,213 |
| San Benito | 13,868 | 6,577 | 2,798 | 2,023 | 1,512 | 958 |
| San Bernardino | 472,138 | 216,260 | 104,235 | 54,425 | 57,823 | 39,395 |
| San Diego | 813,490 | 357,047 | 192,204 | 92,530 | 104,295 | 67,414 |
| San Francisco | 213,645 | 102,540 | 40,315 | 35,500 | 20,795 | 14,496 |
| San Joaquin | 204,351 | 88,221 | 46,370 | 30,602 | 26,144 | 13,013 |
| San Luis Obispo | 71,465 | 26,133 | 17,595 | 12,727 | 9,909 | 5,101 |
| San Mateo | 238,408 | 109,056 | 50,573 | 34,889 | 27,186 | 16,704 |
| Santa Barbara | 102,339 | 40,145 | 24,971 | 16,358 | 13,862 | 7,004 |
| Santa Clara | 431,813 | 196,397 | 90,247 | 64,694 | 50,630 | 29,844 |
| Santa Cruz | 73,842 | 35,097 | 14,355 | 11,673 | 7,760 | 4,958 |
| Shasta | 75,742 | 31,276 | 16,717 | 11,217 | 10,106 | 6,426 |
| Sierra | 1,414 | 498 | 312 | 314 | 187 | 102 |
| Siskiyou | 18,434 | 5,775 | 4,568 | 3,439 | 2,814 | 1,837 |
| Solano | 134,917 | 65,705 | 27,541 | 18,513 | 14,493 | 8,665 |
| Sonoma | 156,589 | 58,229 | 39,760 | 26,942 | 21,721 | 9,936 |
| Stanislaus | 142,936 | 72,020 | 26,172 | 16,573 | 15,383 | 12,788 |
| Sutter | 30,384 | 12,928 | 6,735 | 4,869 | 3,861 | 1,991 |
| Tehama | 24,917 | 9,750 | 5,749 | 3,736 | 3,474 | 2,208 |
| Trinity | 6,544 | 2,428 | 1,474 | 1,136 | 911 | 596 |
| Tulare | 109,370 | 47,896 | 22,897 | 13,780 | 13,058 | 11,739 |
| Tuolumne | 25,439 | 11,339 | 4,882 | 4,665 | 2,930 | 1,623 |
| Ventura | 204,423 | 82,927 | 49,751 | 30,936 | 27,480 | 13,328 |
| Yolo | 59,722 | 22,019 | 15,639 | 7,956 | 8,858 | 5,249 |
| Yuba | 22,875 | 10,681 | 4,821 | 3,299 | 2,714 | 1,360 |

Note: Numbers may not add to total due to rounding.

*Includes Physician and other Professional Services

Table 17

Per Resident Direct Healthcare Cost of Smoking by Type of Cost and California County, 2009

| County | Total | Hospital | Ambulatory* | Nursing Home | Prescription | Home Health |
|--------------|-------|----------|-------------|--------------|--------------|-------------|
| California | \$265 | \$116 | \$56 | \$41 | \$31 | \$21 |
| Alameda | 267 | 127 | 48 | 46 | 27 | 20 |
| Alpine | 281 | 39 | 88 | 78 | 51 | 26 |
| Amador | 449 | 187 | 91 | 86 | 55 | 30 |
| Butte | 438 | 206 | 88 | 57 | 52 | 33 |
| Calaveras | 442 | 175 | 91 | 90 | 55 | 31 |
| Colusa | 346 | 142 | 81 | 46 | 48 | 29 |
| Contra Costa | 321 | 141 | 66 | 61 | 35 | 17 |
| Del Norte | 353 | 121 | 91 | 54 | 54 | 33 |
| El Dorado | 371 | 147 | 84 | 67 | 49 | 25 |
| Fresno | 235 | 104 | 49 | 30 | 28 | 24 |
| Glenn | 390 | 173 | 84 | 51 | 50 | 31 |
| Humboldt | 376 | 146 | 90 | 56 | 52 | 32 |
| Imperial | 268 | 116 | 56 | 34 | 32 | 29 |
| Inyo | 401 | 182 | 71 | 59 | 44 | 45 |
| Kern | 270 | 128 | 54 | 31 | 30 | 27 |
| Kings | 244 | 108 | 53 | 28 | 30 | 25 |
| Lake | 524 | 253 | 100 | 71 | 61 | 39 |
| Lassen | 297 | 81 | 89 | 46 | 51 | 30 |
| Los Angeles | 236 | 105 | 44 | 41 | 25 | 22 |
| Madera | 240 | 96 | 52 | 34 | 31 | 27 |
| Marin | 377 | 144 | 92 | 66 | 51 | 24 |
| Mariposa | 425 | 160 | 91 | 88 | 55 | 30 |
| Mendocino | 425 | 172 | 95 | 65 | 57 | 36 |
| Merced | 234 | 108 | 47 | 28 | 27 | 23 |
| Modoc | 406 | 125 | 101 | 76 | 63 | 41 |
| Mono | 256 | 76 | 66 | 42 | 38 | 34 |
| Monterey | 278 | 145 | 50 | 38 | 27 | 18 |
| Napa | 359 | 152 | 82 | 57 | 46 | 21 |
| Nevada | 398 | 143 | 89 | 84 | 53 | 29 |
| Orange | 205 | 85 | 44 | 37 | 24 | 14 |

Table 17 (Continued)

| County | Total | Hospital | Ambulatory* | Nursing Home | Prescription | Home Health |
|-----------------|-------|----------|-------------|--------------|--------------|-------------|
| Placer | 337 | 126 | 80 | 61 | 46 | 24 |
| Plumas | 470 | 168 | 107 | 84 | 66 | 44 |
| Riverside | 309 | 123 | 67 | 51 | 40 | 28 |
| Sacramento | 295 | 137 | 64 | 37 | 35 | 22 |
| San Benito | 252 | 119 | 51 | 37 | 27 | 17 |
| San Bernardino | 233 | 107 | 52 | 27 | 29 | 19 |
| San Diego | 264 | 116 | 62 | 30 | 34 | 22 |
| San Francisco | 266 | 128 | 50 | 44 | 26 | 18 |
| San Joaquin | 300 | 130 | 68 | 45 | 38 | 19 |
| San Luis Obispo | 266 | 97 | 66 | 47 | 37 | 19 |
| San Mateo | 333 | 152 | 71 | 49 | 38 | 23 |
| Santa Barbara | 242 | 95 | 59 | 39 | 33 | 17 |
| Santa Clara | 243 | 111 | 51 | 36 | 29 | 17 |
| Santa Cruz | 282 | 134 | 55 | 45 | 30 | 19 |
| Shasta | 428 | 177 | 95 | 63 | 57 | 36 |
| Sierra | 436 | 154 | 96 | 97 | 58 | 31 |
| Siskiyou | 410 | 128 | 102 | 77 | 63 | 41 |
| Solano | 327 | 159 | 67 | 45 | 35 | 21 |
| Sonoma | 326 | 121 | 83 | 56 | 45 | 21 |
| Stanislaus | 279 | 141 | 51 | 32 | 30 | 25 |
| Sutter | 322 | 137 | 71 | 52 | 41 | 21 |
| Tehama | 395 | 154 | 91 | 59 | 55 | 35 |
| Trinity | 475 | 176 | 107 | 83 | 66 | 43 |
| Tulare | 249 | 109 | 52 | 31 | 30 | 27 |
| Tuolumne | 460 | 205 | 88 | 84 | 53 | 29 |
| Ventura | 250 | 101 | 61 | 38 | 34 | 16 |
| Yolo | 299 | 110 | 78 | 40 | 44 | 26 |
| Yuba | 319 | 149 | 67 | 46 | 38 | 19 |

* Includes Physician and Other Professional Services

Table 18

Smoking Prevalence (Percent) by Gender, Smoking Status, and California County, 2009

| County | Adults(18+) | | | | | | Teens(12-17) | |
|--------------|--------------------|--------------------|-----------------|--------------------|--------------------|-----------------|--------------------|--------------------|
| | Male | | | Female | | | Male | Female |
| | Currently Smoke | Formerly Smoked | Never Smoked | Currently Smoke | Formerly Smoked | Never Smoked | Currently Smoke | Currently Smoke |
| California | 17.2 | 27.0 | 55.8 | 10.1 | 19.3 | 70.6 | 5.8 | 3.2 |
| Alameda | 14.6 | 22.4 | 62.9 | 9.1 | 17.5 | 73.4 | 4.2 | 6.3 |
| Alpine | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Amador | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Butte | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Calaveras | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Colusa | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Contra Costa | 15.2 | 31.9 | 52.9 | 8.9 | 23.4 | 67.6 | 9.6 | 0.4 |
| Del Norte | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| El Dorado | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Fresno | 17.1 | 28.9 | 54.0 | 11.5 | 17.0 | 71.4 | 8.5 | 2.0 |
| Glenn | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Humboldt | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Imperial | 19.6 | 28.6 | 51.8 | 15.1 | 17.2 | 67.7 | 4.1 | 3.9 |
| Inyo | 19.6 | 28.6 | 51.8 | 15.1 | 17.2 | 67.7 | 4.1 | 3.9 |
| Kern | 19.6 | 28.6 | 51.8 | 15.1 | 17.2 | 67.7 | 4.1 | 3.9 |
| Kings | 19.6 | 28.6 | 51.8 | 15.1 | 17.2 | 67.7 | 4.1 | 3.9 |
| Lake | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Lassen | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Los Angeles | 16.9 | 27.0 | 56.1 | 9.7 | 15.5 | 74.8 | 4.3 | 1.8 |
| Madera | 17.1 | 28.9 | 54.0 | 11.5 | 17.0 | 71.4 | 8.5 | 2.0 |
| Marin | 16.6 | 37.9 | 45.5 | 11.4 | 26.8 | 61.8 | 8.1 | 4.5 |
| Mariposa | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Mendocino | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Merced | 17.1 | 28.9 | 54.0 | 11.5 | 17.0 | 71.4 | 8.5 | 2.0 |
| Modoc | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Mono | 19.6 | 28.6 | 51.8 | 15.1 | 17.2 | 67.7 | 4.1 | 3.9 |
| Monterey | 18.2 | 28.0 | 53.8 | 5.7 | 20.2 | 74.1 | 6.2 | 2.5 |
| Napa | 16.6 | 37.9 | 45.5 | 11.4 | 26.8 | 61.8 | 8.1 | 4.5 |
| Nevada | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Orange | 12.5 | 27.4 | 60.1 | 6.3 | 20.2 | 73.5 | 9.1 | 3.7 |

Table 18 (continued)

| County | Adults(18+) | | | | | | Teens(12-17) | |
|-----------------|--------------------|--------------------|-----------------|--------------------|--------------------|-----------------|--------------------|--------------------|
| | Male | | | Female | | | Male | Female |
| | Currently Smoke | Formerly Smoked | Never Smoked | Currently Smoke | Formerly Smoked | Never Smoked | Currently Smoke | Currently Smoke |
| Placer | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Plumas | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Riverside | 19.0 | 26.3 | 54.7 | 15.1 | 19.8 | 65.1 | 3.8 | 1.6 |
| Sacramento | 18.5 | 24.3 | 57.2 | 14.0 | 18.9 | 67.1 | 11.6 | 5.4 |
| San Benito | 18.2 | 28.0 | 53.8 | 5.7 | 20.2 | 74.1 | 6.2 | 2.5 |
| San Bernardino | 21.7 | 25.9 | 52.4 | 8.6 | 22.9 | 68.5 | 6.0 | 2.0 |
| San Diego | 16.5 | 26.4 | 57.1 | 9.4 | 21.5 | 69.2 | 3.8 | 2.9 |
| San Francisco | 18.1 | 26.5 | 55.5 | 4.7 | 20.3 | 75.1 | 0.3 | 1.1 |
| San Joaquin | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| San Luis Obispo | 13.7 | 30.1 | 56.2 | 8.8 | 22.0 | 69.2 | 3.1 | 3.7 |
| San Mateo | 24.2 | 22.7 | 53.1 | 8.7 | 21.8 | 69.5 | 3.1 | 7.4 |
| Santa Barbara | 13.7 | 30.1 | 56.2 | 8.8 | 22.0 | 69.2 | 3.1 | 3.7 |
| Santa Clara | 18.5 | 20.0 | 61.5 | 9.5 | 18.8 | 71.6 | 8.6 | 10.8 |
| Santa Cruz | 18.2 | 28.0 | 53.8 | 5.7 | 20.2 | 74.1 | 6.2 | 2.5 |
| Shasta | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Sierra | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Siskiyou | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Solano | 24.2 | 22.7 | 53.1 | 8.7 | 21.8 | 69.5 | 3.1 | 7.4 |
| Sonoma | 16.6 | 37.9 | 45.5 | 11.4 | 26.8 | 61.8 | 8.1 | 4.5 |
| Stanislaus | 17.1 | 28.9 | 54.0 | 11.5 | 17.0 | 71.4 | 8.5 | 2.0 |
| Sutter | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Tehama | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Trinity | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Tulare | 19.6 | 28.6 | 51.8 | 15.1 | 17.2 | 67.7 | 4.1 | 3.9 |
| Tuolumne | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |
| Ventura | 13.7 | 30.1 | 56.2 | 8.8 | 22.0 | 69.2 | 3.1 | 3.7 |
| Yolo | 21.2 | 30.0 | 48.8 | 13.8 | 25.8 | 60.5 | 7.0 | 5.2 |
| Yuba | 15.4 | 30.1 | 54.5 | 13.4 | 22.4 | 64.1 | 6.2 | 2.8 |

Note: Percentages may not add to 100% total due to rounding.

Smoking Prevalence for multi-county regions are applied to each county in the region

Source: Adults data were derived from 2009 CHIS, teens/children data from 2007 and 2009 CHIS combined.

Table 19

**Prevalence of Heavy, Moderate, and Light Smoking (%) among Adult Smokers
by Gender and California County, 2009**

| County | Male | | | Female | | |
|--------------|------------------------------|-----------------------------------|---|------------------------------|-----------------------------------|---|
| | Heavy Smoking (daily 20+) | Moderate Smoking (daily 10-19) | Light Smoking (daily <10, or some days) | Heavy Smoking (daily 20+) | Moderate Smoking (daily 10-19) | Light Smoking (daily <10, or some days) |
| California | 17.7 | 22.6 | 59.7 | 11.3 | 27.8 | 61.0 |
| Alameda | 10.6 | 24.0 | 65.5 | 3.7 | 14.6 | 81.6 |
| Alpine | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Amador | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Butte | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Calaveras | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Colusa | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Contra Costa | 6.4 | 29.3 | 64.3 | 6.1 | 34.9 | 59.0 |
| Del Norte | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| El Dorado | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Fresno | 16.8 | 21.7 | 61.5 | 16.7 | 37.4 | 45.9 |
| Glenn | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Humboldt | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Imperial | 30.2 | 22.8 | 47.0 | 12.5 | 38.9 | 48.6 |
| Inyo | 30.2 | 22.8 | 47.0 | 12.5 | 38.9 | 48.6 |
| Kern | 30.2 | 22.8 | 47.0 | 12.5 | 38.9 | 48.6 |
| Kings | 30.2 | 22.8 | 47.0 | 12.5 | 38.9 | 48.6 |
| Lake | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Lassen | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Los Angeles | 11.0 | 21.7 | 67.3 | 8.0 | 26.1 | 65.9 |
| Madera | 16.8 | 21.7 | 61.5 | 16.7 | 37.4 | 45.9 |
| Marin | 9.6 | 23.0 | 67.4 | 8.5 | 32.0 | 59.5 |
| Mariposa | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Mendocino | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Merced | 16.8 | 21.7 | 61.5 | 16.7 | 37.4 | 45.9 |
| Modoc | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Mono | 30.2 | 22.8 | 47.0 | 12.5 | 38.9 | 48.6 |
| Monterey | 15.9 | 19.8 | 64.3 | 8.6 | 28.4 | 63.0 |
| Napa | 9.6 | 23.0 | 67.4 | 8.5 | 32.0 | 59.5 |
| Nevada | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Orange | 13.9 | 23.5 | 62.5 | 9.8 | 28.2 | 62.0 |

Table 19 (continued)

| County | Male | | | Female | | |
|-----------------|------------------------------|-----------------------------------|---|------------------------------|-----------------------------------|---|
| | Heavy Smoking (daily 20+) | Moderate Smoking (daily 10-19) | Light Smoking (daily <10, or some days) | Heavy Smoking (daily 20+) | Moderate Smoking (daily 10-19) | Light Smoking (daily <10, or some days) |
| Placer | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Plumas | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Riverside | 30.7 | 19.9 | 49.4 | 11.6 | 18.4 | 70.0 |
| Sacramento | 17.2 | 28.1 | 54.7 | 15.0 | 29.8 | 55.3 |
| San Benito | 15.9 | 19.8 | 64.3 | 8.6 | 28.4 | 63.0 |
| San Bernardino | 17.1 | 24.6 | 58.3 | 18.9 | 39.7 | 41.4 |
| San Diego | 24.4 | 14.0 | 61.5 | 16.9 | 29.2 | 53.9 |
| San Francisco | 21.9 | 6.8 | 71.3 | 3.5 | 2.6 | 93.8 |
| San Joaquin | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| San Luis Obispo | 14.9 | 24.3 | 60.8 | 15.3 | 20.0 | 64.6 |
| San Mateo | 31.7 | 39.3 | 28.9 | 9.1 | 30.6 | 60.3 |
| Santa Barbara | 14.9 | 24.3 | 60.8 | 15.3 | 20.0 | 64.6 |
| Santa Clara | 8.0 | 12.0 | 80.0 | 4.4 | 18.7 | 76.9 |
| Santa Cruz | 15.9 | 19.8 | 64.3 | 8.6 | 28.4 | 63.0 |
| Shasta | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Sierra | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Siskiyou | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Solano | 31.7 | 39.3 | 28.9 | 9.1 | 30.6 | 60.3 |
| Sonoma | 9.6 | 23.0 | 67.4 | 8.5 | 32.0 | 59.5 |
| Stanislaus | 16.8 | 21.7 | 61.5 | 16.7 | 37.4 | 45.9 |
| Sutter | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Tehama | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Trinity | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Tulare | 30.2 | 22.8 | 47.0 | 12.5 | 38.9 | 48.6 |
| Tuolumne | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |
| Ventura | 14.9 | 24.3 | 60.8 | 15.3 | 20.0 | 64.6 |
| Yolo | 23.5 | 40.0 | 36.5 | 17.1 | 33.7 | 49.2 |
| Yuba | 33.9 | 25.5 | 40.6 | 14.3 | 29.5 | 56.1 |

Note: Percentages may not add to 100% total due to rounding.

Smoking Prevalence for multi-county regions are applied to each county in the region

Source: Adults data were derived from 2009 CHIS, teens/children data from 2007 and 2009 CHIS combined.

Table 20

**Deaths, Years of Potential Life Lost, and Productivity Losses
Attributed to Smoking by California County, 2009**

| County | Number of Deaths | Years of Potential Life Lost | | Productivity Losses* | |
|--------------|---------------------|---------------------------------|-----------|-----------------------|--------------|
| | | Number | Per Death | Amount (thousands) | Per Death |
| California | 34,363 | 586,815 | 17.1 | 6,797,280 | \$197,807 |
| Alameda | 1,199 | 20,629 | 17.2 | 244,297 | \$203,744 |
| Alpine | 1 ** | 14 | 16.4 | 86 | \$99,602 |
| Amador | 69 | 1,278 | 18.4 | 15,482 | \$223,137 |
| Butte | 403 | 6,881 | 17.1 | 75,836 | \$188,215 |
| Calaveras | 79 | 1,291 | 16.4 | 12,787 | \$162,505 |
| Colusa | 25 | 436 | 17.2 | 4,807 | \$189,959 |
| Contra Costa | 992 | 16,013 | 16.1 | 160,031 | \$161,246 |
| Del Norte | 51 | 954 | 18.8 | 11,490 | \$226,026 |
| El Dorado | 204 | 3,433 | 16.8 | 34,310 | \$167,904 |
| Fresno | 813 | 14,236 | 17.5 | 171,846 | \$211,288 |
| Glenn | 39 | 702 | 18.1 | 8,625 | \$221,926 |
| Humboldt | 196 | 3,467 | 17.6 | 39,189 | \$199,467 |
| Imperial | 114 | 2,069 | 18.1 | 27,180 | \$238,065 |
| Inyo | 30 | 460 | 15.3 | 4,627 | \$154,101 |
| Kern | 893 | 16,514 | 18.5 | 202,791 | \$227,145 |
| Kings | 118 | 2,281 | 19.3 | 31,357 | \$265,173 |
| Lake | 150 | 2,613 | 17.5 | 27,727 | \$185,348 |
| Lassen | 31 | 573 | 18.2 | 6,606 | \$210,130 |
| Los Angeles | 8,270 | 142,077 | 17.2 | 1,733,158 | \$209,576 |
| Madera | 143 | 2,508 | 17.6 | 30,672 | \$214,759 |
| Marin | 228 | 3,396 | 14.9 | 30,179 | \$132,634 |
| Mariposa | 28 | 498 | 17.5 | 4,993 | \$175,758 |
| Mendocino | 148 | 2,697 | 18.2 | 32,329 | \$217,814 |
| Merced | 223 | 3,883 | 17.4 | 43,502 | \$195,062 |
| Modoc | 20 ** | 391 | 19.2 | 5,276 | \$259,694 |
| Mono | 5 ** | 80 | 17.4 | 1,211 | \$265,253 |
| Monterey | 304 | 5,154 | 16.9 | 60,033 | \$197,183 |
| Napa | 187 | 2,936 | 15.7 | 27,916 | \$148,900 |
| Nevada | 138 | 2,293 | 16.6 | 23,203 | \$167,865 |
| Orange | 2,275 | 36,837 | 16.2 | 400,605 | \$176,093 |

Table 20 (Continued)

| County | Number of Deaths | Years of Potential Life Lost | | Productivity Losses* | |
|-----------------|------------------|------------------------------|-----------|----------------------|-----------|
| | | Number | Per Death | Amount (thousands) | Per Death |
| Placer | 405 | 6,312 | 15.6 | 60,595 | \$149,551 |
| Plumas | 33 | 484 | 14.9 | 3,609 | \$110,854 |
| Riverside | 2,439 | 42,249 | 17.3 | 494,253 | \$202,684 |
| Sacramento | 1,487 | 26,534 | 17.8 | 316,610 | \$212,899 |
| San Benito | 46 | 816 | 17.8 | 10,347 | \$225,523 |
| San Bernardino | 1,899 | 34,633 | 18.2 | 426,050 | \$224,366 |
| San Diego | 2,753 | 46,012 | 16.7 | 525,729 | \$190,981 |
| San Francisco | 668 | 11,052 | 16.5 | 133,248 | \$199,443 |
| San Joaquin | 705 | 12,884 | 18.3 | 163,436 | \$231,943 |
| San Luis Obispo | 302 | 4,615 | 15.3 | 41,456 | \$137,467 |
| San Mateo | 664 | 10,588 | 16.0 | 107,828 | \$162,512 |
| Santa Barbara | 395 | 6,234 | 15.8 | 62,867 | \$159,031 |
| Santa Clara | 1,119 | 17,810 | 15.9 | 193,873 | \$173,185 |
| Santa Cruz | 251 | 4,322 | 17.2 | 51,718 | \$206,308 |
| Shasta | 366 | 6,201 | 16.9 | 64,661 | \$176,727 |
| Sierra | 9 ** | 142 | 16.7 | 1,042 | \$122,319 |
| Siskiyou | 102 | 1,777 | 17.5 | 19,180 | \$188,726 |
| Solano | 425 | 7,618 | 17.9 | 93,120 | \$218,921 |
| Sonoma | 592 | 9,584 | 16.2 | 97,254 | \$164,279 |
| Stanislaus | 512 | 9,332 | 18.2 | 116,705 | \$227,888 |
| Sutter | 127 | 2,110 | 16.7 | 22,077 | \$174,303 |
| Tehama | 111 | 1,933 | 17.4 | 21,078 | \$190,024 |
| Trinity | 36 | 580 | 16.2 | 5,473 | \$153,089 |
| Tulare | 434 | 7,698 | 17.7 | 92,830 | \$213,705 |
| Tuolumne | 94 | 1,579 | 16.8 | 16,146 | \$171,805 |
| Ventura | 727 | 11,975 | 16.5 | 124,465 | \$171,227 |
| Yolo | 200 | 3,484 | 17.4 | 38,190 | \$190,699 |
| Yuba | 86 | 1,661 | 19.4 | 21,286 | \$248,337 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

**Estimates based on 20 or fewer deaths may be unreliable.

Table 21

**Male: Deaths, Years of Potential Life Lost, and Productivity Losses
Attributed to Smoking by California County, 2009**

| County | Number of Deaths | Years of Potential Life Lost | | Productivity Losses* | |
|--------------|---------------------|---------------------------------|-----------|-----------------------|--------------|
| | | Number | Per Death | Amount (thousands) | Per Death |
| California | 20,565 | 353,752 | 17.2 | 5,166,538 | \$251,235 |
| Alameda | 715 | 12,371 | 17.3 | 183,852 | 257,118 |
| Alpine | 1 ** | 14 | 16.4 | 86 | 99,602 |
| Amador | 34 | 645 | 19.1 | 10,503 | 310,459 |
| Butte | 207 | 3,521 | 17.0 | 49,408 | 238,249 |
| Calaveras | 49 | 805 | 16.5 | 10,015 | 205,165 |
| Colusa | 16 ** | 282 | 17.4 | 4,056 | 250,700 |
| Contra Costa | 554 | 9,007 | 16.3 | 119,316 | 215,536 |
| Del Norte | 28 | 503 | 17.9 | 7,361 | 262,301 |
| El Dorado | 114 | 1,847 | 16.2 | 23,851 | 208,783 |
| Fresno | 488 | 8,539 | 17.5 | 126,991 | 260,269 |
| Glenn | 27 | 483 | 18.2 | 7,413 | 279,322 |
| Humboldt | 113 | 2,009 | 17.8 | 29,131 | 257,385 |
| Imperial | 77 | 1,369 | 17.8 | 21,258 | 275,797 |
| Inyo | 17 ** | 253 | 15.3 | 3,159 | 190,367 |
| Kern | 536 | 9,695 | 18.1 | 146,712 | 273,645 |
| Kings | 71 | 1,340 | 18.8 | 22,105 | 309,727 |
| Lake | 86 | 1,466 | 17.1 | 19,735 | 230,780 |
| Lassen | 19 ** | 357 | 18.3 | 5,000 | 256,975 |
| Los Angeles | 5,142 | 90,087 | 17.5 | 1,370,987 | 266,622 |
| Madera | 96 | 1,674 | 17.5 | 24,918 | 260,003 |
| Marin | 120 | 1,836 | 15.3 | 22,415 | 186,561 |
| Mariposa | 15 ** | 225 | 15.3 | 2,797 | 189,790 |
| Mendocino | 82 | 1,489 | 18.1 | 23,349 | 284,546 |
| Merced | 130 | 2,071 | 15.9 | 25,646 | 197,230 |
| Modoc | 10 ** | 195 | 19.3 | 3,389 | 335,261 |
| Mono | 3 ** | 61 | 18.8 | 1,130 | 347,658 |
| Monterey | 183 | 3,137 | 17.1 | 45,924 | 250,308 |
| Napa | 108 | 1,670 | 15.5 | 20,583 | 190,971 |
| Nevada | 78 | 1,248 | 16.0 | 15,810 | 202,484 |
| Orange | 1,370 | 22,804 | 16.6 | 318,406 | 232,408 |

Table 21 (Continued)

| County | Number of Deaths | Years of Potential Life Lost | | Productivity Losses* | |
|-----------------|------------------|------------------------------|-----------|----------------------|-----------|
| | | Number | Per Death | Amount (thousands) | Per Death |
| Placer | 241 | 3,802 | 15.8 | 47,586 | \$197,858 |
| Plumas | 20 ** | 286 | 14.4 | 2,704 | 136,686 |
| Riverside | 1,444 | 25,152 | 17.4 | 372,587 | 257,967 |
| Sacramento | 812 | 14,542 | 17.9 | 226,020 | 278,377 |
| San Benito | 32 | 575 | 18.1 | 8,560 | 269,034 |
| San Bernardino | 1,102 | 20,081 | 18.2 | 310,285 | 281,598 |
| San Diego | 1,681 | 28,255 | 16.8 | 401,912 | 239,161 |
| San Francisco | 487 | 8,149 | 16.7 | 113,377 | 232,730 |
| San Joaquin | 409 | 7,487 | 18.3 | 119,603 | 292,212 |
| San Luis Obispo | 170 | 2,618 | 15.4 | 30,679 | 180,793 |
| San Mateo | 379 | 6,116 | 16.1 | 83,355 | 219,861 |
| Santa Barbara | 216 | 3,494 | 16.2 | 46,858 | 216,882 |
| Santa Clara | 729 | 11,704 | 16.1 | 157,968 | 216,749 |
| Santa Cruz | 146 | 2,622 | 17.9 | 40,350 | 276,088 |
| Shasta | 211 | 3,563 | 16.9 | 46,684 | 220,771 |
| Sierra | 6 ** | 87 | 15.9 | 798 | 145,127 |
| Siskiyou | 61 | 1,026 | 16.9 | 13,913 | 229,389 |
| Solano | 262 | 4,656 | 17.8 | 69,785 | 266,584 |
| Sonoma | 314 | 5,112 | 16.3 | 69,376 | 220,676 |
| Stanislaus | 309 | 5,705 | 18.4 | 89,675 | 289,861 |
| Sutter | 71 | 1,206 | 17.0 | 16,652 | 234,048 |
| Tehama | 67 | 1,138 | 17.0 | 15,396 | 229,516 |
| Trinity | 26 | 404 | 15.4 | 4,223 | 160,789 |
| Tulare | 259 | 4,582 | 17.7 | 68,950 | 265,986 |
| Tuolumne | 57 | 899 | 15.6 | 10,149 | 176,555 |
| Ventura | 399 | 6,580 | 16.5 | 90,683 | 227,037 |
| Yolo | 111 | 1,893 | 17.0 | 26,696 | 240,024 |
| Yuba | 53 | 1,012 | 19.0 | 16,409 | 308,250 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

**Estimates based on 20 or fewer deaths may be unreliable.

Table 22

**Female: Deaths, Years of Potential Life Lost, and Productivity Losses
Attributed to Smoking by California County, 2009**

| County | Number of Deaths | Years of Potential Life Lost | | Productivity Losses* | |
|--------------|---------------------|---------------------------------|-----------|-----------------------|--------------|
| | | Number | Per Death | Amount (thousands) | Per Death |
| California | 13,799 | 233,064 | 16.9 | 1,630,741 | \$118,182 |
| Alameda | 484 | 8,258 | 17.1 | 60,444 | 124,888 |
| Alpine | 0 ** | 0 | - | 0 | - |
| Amador | 36 | 633 | 17.8 | 4,979 | 140,043 |
| Butte | 196 | 3,360 | 17.2 | 26,428 | 135,152 |
| Calaveras | 30 | 486 | 16.3 | 2,772 | 92,797 |
| Colusa | 9 ** | 155 | 16.9 | 751 | 82,268 |
| Contra Costa | 439 | 7,005 | 16.0 | 40,715 | 92,769 |
| Del Norte | 23 | 451 | 19.8 | 4,130 | 181,328 |
| El Dorado | 90 | 1,586 | 17.6 | 10,459 | 116,078 |
| Fresno | 325 | 5,697 | 17.5 | 44,856 | 137,844 |
| Glenn | 12 ** | 219 | 17.8 | 1,212 | 98,326 |
| Humboldt | 83 | 1,458 | 17.5 | 10,059 | 120,767 |
| Imperial | 37 | 700 | 18.9 | 5,922 | 159,655 |
| Inyo | 13 ** | 207 | 15.4 | 1,468 | 109,299 |
| Kern | 357 | 6,820 | 19.1 | 56,079 | 157,241 |
| Kings | 47 | 941 | 20.1 | 9,252 | 197,350 |
| Lake | 64 | 1,147 | 17.9 | 7,992 | 124,716 |
| Lassen | 12 ** | 216 | 18.0 | 1,606 | 134,063 |
| Los Angeles | 3,128 | 51,990 | 16.6 | 362,171 | 115,792 |
| Madera | 47 | 834 | 17.8 | 5,753 | 122,462 |
| Marin | 107 | 1,560 | 14.5 | 7,764 | 72,300 |
| Mariposa | 14 ** | 273 | 19.9 | 2,196 | 160,627 |
| Mendocino | 66 | 1,208 | 18.2 | 8,980 | 135,308 |
| Merced | 93 | 1,811 | 19.5 | 17,857 | 192,030 |
| Modoc | 10 ** | 196 | 19.2 | 1,887 | 184,855 |
| Mono | 1 ** | 19 | 14.2 | 81 | 61,634 |
| Monterey | 121 | 2,017 | 16.7 | 14,109 | 116,618 |
| Napa | 80 | 1,266 | 15.9 | 7,334 | 92,009 |
| Nevada | 60 | 1,045 | 17.4 | 7,393 | 122,924 |
| Orange | 905 | 14,034 | 15.5 | 82,199 | 90,835 |

Table 22 (Continued)

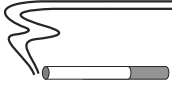
| County | Number of Deaths | Years of Potential Life Lost | | Productivity Losses* | |
|-----------------|------------------|------------------------------|-----------|----------------------|-----------|
| | | Number | Per Death | Amount (thousands) | Per Death |
| Placer | 165 | 2,510 | 15.2 | 13,008 | \$78,997 |
| Plumas | 13 ** | 198 | 15.5 | 905 | 70,860 |
| Riverside | 994 | 17,096 | 17.2 | 121,666 | 122,374 |
| Sacramento | 675 | 11,992 | 17.8 | 90,590 | 134,165 |
| San Benito | 14 ** | 241 | 17.1 | 1,787 | 127,087 |
| San Bernardino | 797 | 14,552 | 18.3 | 115,765 | 145,244 |
| San Diego | 1,072 | 17,757 | 16.6 | 123,817 | 115,471 |
| San Francisco | 181 | 2,904 | 16.0 | 19,871 | 109,820 |
| San Joaquin | 295 | 5,397 | 18.3 | 43,834 | 148,418 |
| San Luis Obispo | 132 | 1,997 | 15.1 | 10,776 | 81,716 |
| San Mateo | 284 | 4,472 | 15.7 | 24,472 | 86,055 |
| Santa Barbara | 179 | 2,739 | 15.3 | 16,008 | 89,304 |
| Santa Clara | 391 | 6,106 | 15.6 | 35,905 | 91,911 |
| Santa Cruz | 105 | 1,700 | 16.3 | 11,368 | 108,750 |
| Shasta | 154 | 2,638 | 17.1 | 17,978 | 116,416 |
| Sierra | 3 ** | 55 | 18.2 | 244 | 80,771 |
| Siskiyou | 41 | 750 | 18.3 | 5,268 | 128,544 |
| Solano | 164 | 2,962 | 18.1 | 23,336 | 142,650 |
| Sonoma | 278 | 4,472 | 16.1 | 27,878 | 100,415 |
| Stanislaus | 203 | 3,627 | 17.9 | 27,030 | 133,322 |
| Sutter | 56 | 904 | 16.3 | 5,426 | 97,736 |
| Tehama | 44 | 795 | 18.1 | 5,682 | 129,599 |
| Trinity | 9 ** | 176 | 18.6 | 1,250 | 131,772 |
| Tulare | 175 | 3,116 | 17.8 | 23,880 | 136,334 |
| Tuolumne | 36 | 680 | 18.6 | 5,997 | 164,323 |
| Ventura | 327 | 5,395 | 16.5 | 33,782 | 103,157 |
| Yolo | 89 | 1,592 | 17.9 | 11,495 | 129,089 |
| Yuba | 32 | 649 | 20.0 | 4,877 | 150,143 |

Note: Numbers may not add to total due to rounding.

* Discounted at 3 percent

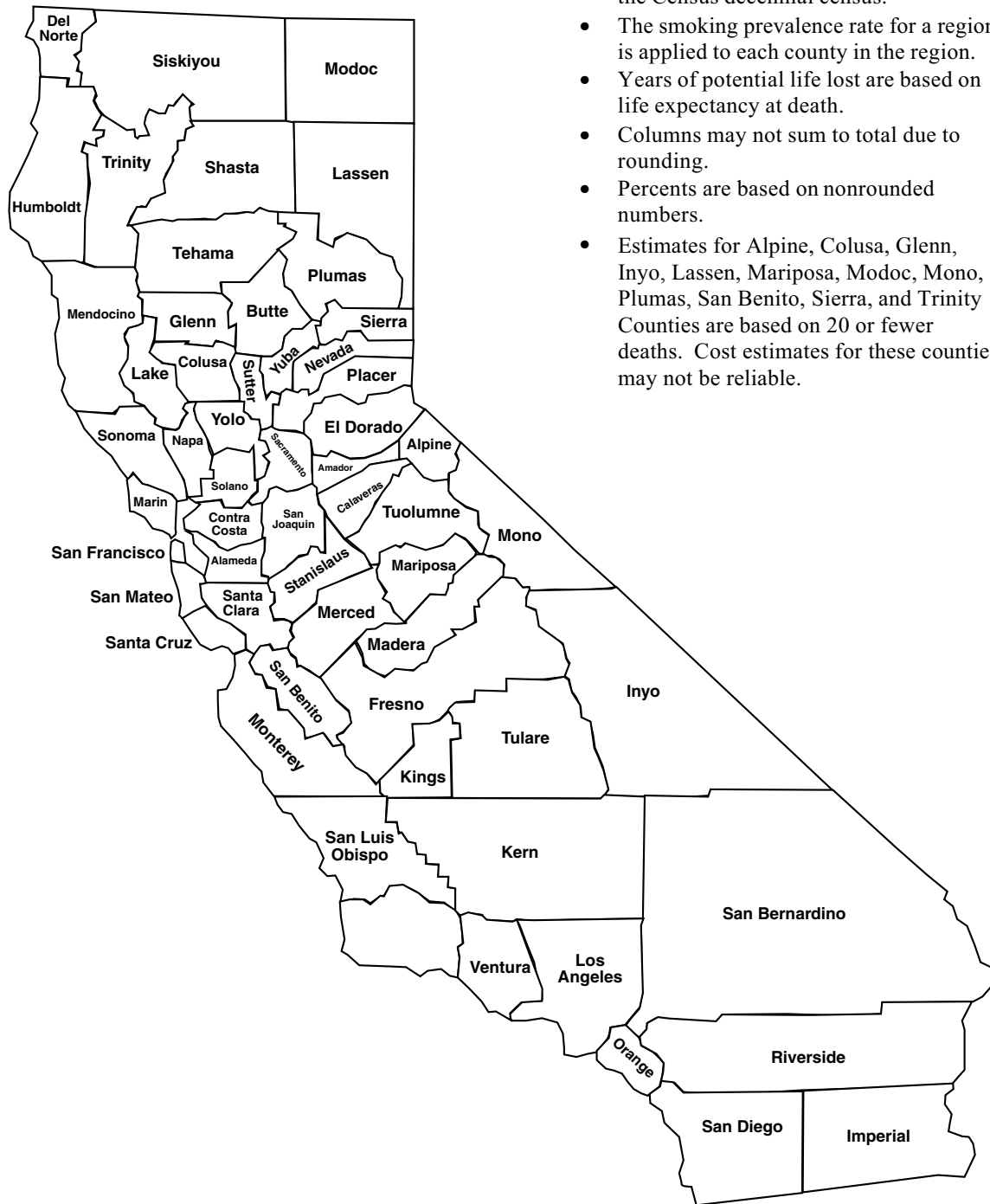
**Estimates based on 20 or fewer deaths may be unreliable.

County Profiles



Notes to County Profiles

- Mortality cost is discounted at 3 percent.
- Population is from the U.S. Bureau of the Census decennial census.
- The smoking prevalence rate for a region is applied to each county in the region.
- Years of potential life lost are based on life expectancy at death.
- Columns may not sum to total due to rounding.
- Percents are based on nonrounded numbers.
- Estimates for Alpine, Colusa, Glenn, Inyo, Lassen, Mariposa, Modoc, Mono, Plumas, San Benito, Sierra, and Trinity Counties are based on 20 or fewer deaths. Cost estimates for these counties may not be reliable.



California

| Cost of Smoking | Amount | Per | Per |
|-------------------|--------------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$18,058,012 | \$487 | \$4,603 |
| Direct | 9,830,115 | 265 | 2,505 |
| Lost Productivity | 8,227,898 | 222 | 2,097 |
| Illness | 1,430,618 | 39 | 365 |
| Premature Death | 6,797,280 | 183 | 1,732 |
| Male | \$11,657,133 | \$632 | \$4,760 |
| Direct | 5,642,380 | 306 | 2,304 |
| Lost Productivity | 6,014,753 | 326 | 2,456 |
| Illness | 848,214 | 46 | 346 |
| Premature Death | 5,166,538 | 280 | 2,110 |
| Female | \$6,400,879 | \$344 | \$4,340 |
| Direct | 4,187,734 | 225 | 2,840 |
| Lost Productivity | 2,213,145 | 119 | 1,501 |
| Illness | 582,404 | 31 | 395 |
| Premature Death | 1,630,741 | 88 | 1,106 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-------------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$9,830,115 | \$265 | \$2,505 |
| Hospital | 4,310,875 | 116 | 1,099 |
| Ambulatory | 2,058,077 | 56 | 525 |
| Nursing Home Care | 1,517,363 | 41 | 387 |
| Prescriptions | 1,149,527 | 31 | 293 |
| Home Health | 794,273 | 21 | 202 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|------------|------------|-----------|-----------|------------|
| | Total | 37,077,145 | 9,307,811 | 9,147,916 | 14,429,942 |
| Male | 18,444,195 | 4,759,431 | 4,716,542 | 7,149,946 | 1,818,277 |
| Female | 18,632,950 | 4,548,381 | 4,431,374 | 7,279,996 | 2,373,199 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 3,923,433 | 12.7 | 6,748,739 | 21.8 | 20,327,558 | 65.6 | |
| Male | 2,448,736 | 16.0 | 3,878,930 | 25.3 | 9,012,707 | 58.8 | |
| Female | 1,474,697 | 9.4 | 2,869,809 | 18.3 | 11,314,851 | 72.3 | |
| Age 12-17 | 146,033 | 4.5 | 327,026 | 10.1 | 2,757,338 | 85.4 | |
| Male | 95,246 | 5.8 | 178,456 | 10.8 | 1,381,906 | 83.5 | |
| Female | 50,787 | 3.2 | 148,570 | 9.4 | 1,375,431 | 87.3 | |
| Age 18+ | 3,777,400 | 13.6 | 6,421,713 | 23.1 | 17,570,221 | 63.3 | |
| Male | 2,353,490 | 17.2 | 3,700,474 | 27.0 | 7,630,801 | 55.8 | |
| Female | 1,423,910 | 10.1 | 2,721,239 | 19.3 | 9,939,420 | 70.6 | |

| | Total | Due to Smoking | | Deaths |
|--------|---------|----------------|------|---------------|
| | | Number | % | |
| Total | 231,764 | 34,363 | 14.8 | |
| Male | 117,832 | 20,565 | 17.5 | |
| Female | 113,932 | 13,799 | 12.1 | |



California

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Total | 586,815 | 17.1 | |
| Male | 353,752 | 17.2 | |
| Female | 233,064 | 16.9 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Total | \$6,797,280 | \$197,807 | |
| Male | 5,166,538 | 251,235 | |
| Female | 1,630,741 | 118,182 | |

Alameda

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$702,063 | \$467 | \$4,920 |
| Direct | 401,702 | 267 | 2,815 |
| Lost Productivity | 300,360 | 200 | 2,105 |
| Illness | 56,064 | 37 | 393 |
| Premature Death | 244,297 | 162 | 1,712 |
| Male | \$448,873 | \$608 | \$5,290 |
| Direct | 232,185 | 315 | 2,736 |
| Lost Productivity | 216,688 | 294 | 2,554 |
| Illness | 32,836 | 44 | 387 |
| Premature Death | 183,852 | 249 | 2,167 |
| Female | \$253,190 | \$331 | \$4,377 |
| Direct | 169,518 | 221 | 2,930 |
| Lost Productivity | 83,672 | 109 | 1,446 |
| Illness | 23,228 | 30 | 402 |
| Premature Death | 60,444 | 79 | 1,045 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$401,702 | \$267 | \$2,815 |
| Hospital | 190,414 | 127 | 1,334 |
| Ambulatory | 71,693 | 48 | 502 |
| Nursing Home Care | 69,433 | 46 | 487 |
| Prescriptions | 39,884 | 27 | 279 |
| Home Health | 30,279 | 20 | 212 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|-----------|---------|---------|---------|
| | Total | 1,503,826 | 342,208 | 375,631 | 621,162 |
| Male | 738,082 | 175,484 | 187,694 | 304,745 | 70,159 |
| Female | 765,744 | 166,724 | 187,937 | 316,418 | 94,665 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 142,704 | 11.2 | 243,491 | 19.1 | 888,713 | 69.7 | |
| Male | 84,852 | 13.7 | 129,651 | 20.9 | 406,136 | 65.4 | |
| Female | 57,851 | 8.8 | 113,840 | 17.4 | 482,577 | 73.8 | |
| Age 12-17 | 5,921 | 5.2 | 12,275 | 10.8 | 95,095 | 83.9 | |
| Male | 2,448 | 4.2 | 3,511 | 6.0 | 52,082 | 89.7 | |
| Female | 3,473 | 6.3 | 8,764 | 15.9 | 43,012 | 77.9 | |
| Age 18+ | 136,783 | 11.8 | 231,217 | 19.9 | 793,619 | 68.3 | |
| Male | 82,404 | 14.6 | 126,140 | 22.4 | 354,054 | 62.9 | |
| Female | 54,378 | 9.1 | 105,076 | 17.5 | 439,565 | 73.4 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 8,874 | 1,199 | 13.5 | |
| Male | 4,371 | 715 | 16.4 | |
| Female | 4,503 | 484 | 10.7 | |



Alameda

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 12,371 | 17.3 | |
| Female | 8,258 | 17.1 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 183,852 | 257,118 | |
| Female | 60,444 | 124,888 | |

Alpine

| Cost of Smoking | Amount | Per | Per |
|-------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$478 | \$405 | \$3,477 |
| Direct | 332 | 281 | 2,414 |
| Lost Productivity | 146 | 124 | 1,063 |
| Illness | 60 | 51 | 438 |
| Premature Death | 86 | 73 | 625 |
| Male | \$316 | \$519 | \$4,065 |
| Direct | 195 | 320 | 2,506 |
| Lost Productivity | 121 | 199 | 1,559 |
| Illness | 36 | 58 | 456 |
| Premature Death | 86 | 141 | 1,103 |
| Female | \$161 | \$283 | \$2,708 |
| Direct | 137 | 240 | 2,293 |
| Lost Productivity | 25 | 43 | 414 |
| Illness | 25 | 43 | 414 |
| Premature Death | 0 | 0 | 0 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$332 | \$281 | \$2,414 |
| Hospital | 46 | 39 | 337 |
| Ambulatory | 103 | 88 | 752 |
| Nursing Home Care | 92 | 78 | 666 |
| Prescriptions | 60 | 51 | 437 |
| Home Health | 30 | 26 | 222 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|-------|-------|-------|-----|
| | Total | 1,179 | 253 | 174 | 595 |
| Male | 610 | 119 | 89 | 318 | 83 |
| Female | 569 | 134 | 85 | 277 | 74 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 137 | 13.7 | 254 | 25.3 | 611 | 61.0 | |
| Male | 78 | 14.8 | 151 | 28.7 | 297 | 56.5 | |
| Female | 60 | 12.5 | 103 | 21.6 | 314 | 65.9 | |
| Age 12-17 | 3 | 4.4 | 9 | 11.1 | 65 | 84.5 | |
| Male | 2 | 6.2 | 3 | 9.3 | 30 | 84.5 | |
| Female | 1 | 2.8 | 5 | 12.7 | 35 | 84.5 | |
| Age 18+ | 134 | 14.5 | 245 | 26.5 | 546 | 59.0 | |
| Male | 76 | 15.4 | 148 | 30.1 | 267 | 54.5 | |
| Female | 58 | 13.4 | 98 | 22.4 | 279 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 7 | 1 | 12.3 | |
| Male | 4 | 1 | 21.6 | |
| Female | 3 | 0 | 0.0 | |



Alpine

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 14 | 16.4 | |
| Female | 0 | - | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 86 | 99,602 | |
| Female | 0 | - | |

Amador

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$34,317 | \$905 | \$7,345 |
| Direct | 17,002 | 449 | 3,639 |
| Lost Productivity | 17,315 | 457 | 3,706 |
| Illness | 1,833 | 48 | 392 |
| Premature Death | 15,482 | 408 | 3,314 |
| Male | \$21,843 | \$1,055 | \$7,904 |
| Direct | 10,196 | 492 | 3,690 |
| Lost Productivity | 11,647 | 562 | 4,215 |
| Illness | 1,144 | 55 | 414 |
| Premature Death | 10,503 | 507 | 3,801 |
| Female | \$12,475 | \$725 | \$6,535 |
| Direct | 6,806 | 396 | 3,566 |
| Lost Productivity | 5,668 | 330 | 2,969 |
| Illness | 690 | 40 | 361 |
| Premature Death | 4,979 | 290 | 2,608 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$17,002 | \$449 | \$3,639 |
| Hospital | 7,107 | 187 | 1,521 |
| Ambulatory | 3,433 | 91 | 735 |
| Nursing Home Care | 3,256 | 86 | 697 |
| Prescriptions | 2,068 | 55 | 443 |
| Home Health | 1,138 | 30 | 244 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|--------|
| | Total | 37,904 | 6,661 | 6,108 | 17,486 |
| Male | 20,707 | 3,425 | 3,810 | 9,805 | 3,667 |
| Female | 17,197 | 3,236 | 2,298 | 7,680 | 3,983 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 4,672 | 13.7 | 8,637 | 25.4 | 20,745 | 60.9 | |
| Male | 2,763 | 14.7 | 5,345 | 28.4 | 10,724 | 56.9 | |
| Female | 1,909 | 12.5 | 3,292 | 21.6 | 10,021 | 65.8 | |
| Age 12-17 | 132 | 4.7 | 304 | 10.8 | 2,375 | 84.5 | |
| Male | 97 | 6.2 | 144 | 9.3 | 1,310 | 84.5 | |
| Female | 35 | 2.8 | 160 | 12.7 | 1,065 | 84.5 | |
| Age 18+ | 4,541 | 14.5 | 8,333 | 26.7 | 18,370 | 58.8 | |
| Male | 2,667 | 15.4 | 5,201 | 30.1 | 9,414 | 54.5 | |
| Female | 1,874 | 13.4 | 3,132 | 22.4 | 8,955 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 403 | 69 | 17.2 | |
| Male | 196 | 34 | 17.3 | |
| Female | 207 | 36 | 17.2 | |



Amador

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 645 | 19.1 | |
| Female | 633 | 17.8 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 10,503 | 310,459 | |
| Female | 4,979 | 140,043 | |

Butte

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$181,708 | \$829 | \$5,773 |
| Direct | 96,004 | 438 | 3,050 |
| Lost Productivity | 85,704 | 391 | 2,723 |
| Illness | 9,868 | 45 | 313 |
| Premature Death | 75,836 | 346 | 2,409 |
| Male | \$106,576 | \$984 | \$5,674 |
| Direct | 51,888 | 479 | 2,762 |
| Lost Productivity | 54,687 | 505 | 2,911 |
| Illness | 5,280 | 49 | 281 |
| Premature Death | 49,408 | 456 | 2,630 |
| Female | \$75,132 | \$677 | \$5,919 |
| Direct | 44,116 | 398 | 3,475 |
| Lost Productivity | 31,016 | 280 | 2,443 |
| Illness | 4,589 | 41 | 361 |
| Premature Death | 26,428 | 238 | 2,082 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$96,004 | \$438 | \$3,050 |
| Hospital | 45,206 | 206 | 1,436 |
| Ambulatory | 19,395 | 88 | 616 |
| Nursing Home Care | 12,599 | 57 | 400 |
| Prescriptions | 11,512 | 52 | 366 |
| Home Health | 7,291 | 33 | 232 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 219,286 | 44,334 | 62,242 | 79,313 |
| Male | 108,319 | 22,539 | 32,359 | 38,942 | 14,479 |
| Female | 110,967 | 21,795 | 29,884 | 40,371 | 18,918 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 31,478 | 16.4 | 51,079 | 26.7 | 108,852 | 56.9 | |
| Male | 18,784 | 20.0 | 26,863 | 28.5 | 48,457 | 51.5 | |
| Female | 12,694 | 13.0 | 24,216 | 24.9 | 60,394 | 62.1 | |
| Age 12-17 | 1,009 | 6.1 | 2,350 | 14.3 | 13,097 | 79.6 | |
| Male | 584 | 7.0 | 1,131 | 13.6 | 6,609 | 79.4 | |
| Female | 426 | 5.2 | 1,218 | 15.0 | 6,489 | 79.8 | |
| Age 18+ | 30,469 | 17.4 | 48,729 | 27.9 | 95,754 | 54.7 | |
| Male | 18,200 | 21.2 | 25,731 | 30.0 | 41,848 | 48.8 | |
| Female | 12,268 | 13.8 | 22,998 | 25.8 | 53,906 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 2,220 | 403 | 18.1 | |
| Male | 1,064 | 207 | 19.5 | |
| Female | 1,156 | 196 | 16.9 | |



Butte

| | Number | Per | Years of Potential Life Lost |
|--------|----------|-------|-------------------------------------|
| | of Years | Death | |
| Total | 6,881 | 17.1 | |
| Male | 3,521 | 17.0 | |
| Female | 3,360 | 17.2 | |

| | Amount | Per | Lost Productivity from Premature Death |
|--------|----------|-----------|---|
| | (1,000) | Death | |
| Total | \$75,836 | \$188,215 | |
| Male | 49,408 | 238,249 | |
| Female | 26,428 | 135,152 | |

Calaveras

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$35,016 | \$769 | \$6,479 |
| Direct | 20,146 | 442 | 3,728 |
| Lost Productivity | 14,870 | 326 | 2,751 |
| Illness | 2,083 | 46 | 385 |
| Premature Death | 12,787 | 281 | 2,366 |
| Male | \$22,617 | \$994 | \$7,809 |
| Direct | 11,450 | 503 | 3,953 |
| Lost Productivity | 11,167 | 491 | 3,856 |
| Illness | 1,152 | 51 | 398 |
| Premature Death | 10,015 | 440 | 3,458 |
| Female | \$12,398 | \$544 | \$4,943 |
| Direct | 8,696 | 381 | 3,467 |
| Lost Productivity | 3,703 | 162 | 1,476 |
| Illness | 931 | 41 | 371 |
| Premature Death | 2,772 | 122 | 1,105 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$20,146 | \$442 | \$3,728 |
| Hospital | 7,993 | 175 | 1,479 |
| Ambulatory | 4,162 | 91 | 770 |
| Nursing Home Care | 4,092 | 90 | 757 |
| Prescriptions | 2,507 | 55 | 464 |
| Home Health | 1,392 | 31 | 258 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|--------|--------|
| | Total | 45,561 | 9,342 | 6,294 | 20,277 |
| Male | 22,764 | 4,847 | 3,307 | 9,900 | 4,711 |
| Female | 22,797 | 4,496 | 2,988 | 10,377 | 4,936 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 5,404 | 13.4 | 9,930 | 24.7 | 24,852 | 61.8 | |
| Male | 2,896 | 14.5 | 5,588 | 27.9 | 11,543 | 57.6 | |
| Female | 2,508 | 12.4 | 4,342 | 21.5 | 13,309 | 66.0 | |
| Age 12-17 | 183 | 4.6 | 432 | 10.9 | 3,353 | 84.5 | |
| Male | 132 | 6.2 | 195 | 9.3 | 1,782 | 84.5 | |
| Female | 51 | 2.8 | 236 | 12.7 | 1,570 | 84.5 | |
| Age 18+ | 5,221 | 14.4 | 9,498 | 26.2 | 21,499 | 59.4 | |
| Male | 2,765 | 15.4 | 5,392 | 30.1 | 9,760 | 54.5 | |
| Female | 2,457 | 13.4 | 4,105 | 22.4 | 11,739 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 489 | 79 | 16.1 | |
| Male | 270 | 49 | 18.1 | |
| Female | 219 | 30 | 13.6 | |



Calaveras

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 805 | 16.5 | |
| Female | 486 | 16.3 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 10,015 | 205,165 | |
| Female | 2,772 | 92,797 | |

Colusa

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$13,088 | \$615 | \$4,790 |
| Direct | 7,362 | 346 | 2,694 |
| Lost Productivity | 5,726 | 269 | 2,095 |
| Illness | 919 | 43 | 336 |
| Premature Death | 4,807 | 226 | 1,759 |
| Male | \$8,444 | \$775 | \$5,039 |
| Direct | 3,886 | 357 | 2,319 |
| Lost Productivity | 4,558 | 418 | 2,720 |
| Illness | 502 | 46 | 299 |
| Premature Death | 4,056 | 372 | 2,420 |
| Female | \$4,645 | \$448 | \$4,394 |
| Direct | 3,476 | 335 | 3,289 |
| Lost Productivity | 1,168 | 113 | 1,106 |
| Illness | 418 | 40 | 395 |
| Premature Death | 751 | 72 | 710 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$7,362 | \$346 | \$2,694 |
| Hospital | 3,024 | 142 | 1,107 |
| Ambulatory | 1,716 | 81 | 628 |
| Nursing Home Care | 988 | 46 | 362 |
| Prescriptions | 1,012 | 48 | 370 |
| Home Health | 621 | 29 | 227 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|-------|
| | Total | 21,269 | 6,474 | 4,630 | 7,694 |
| Male | 10,897 | 3,393 | 2,425 | 3,920 | 1,159 |
| Female | 10,372 | 3,080 | 2,205 | 3,775 | 1,312 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 2,733 | 16.1 | 4,448 | 26.1 | 9,836 | 57.8 | |
| Male | 1,676 | 19.3 | 2,413 | 27.7 | 4,608 | 53.0 | |
| Female | 1,057 | 12.7 | 2,035 | 24.5 | 5,228 | 62.8 | |
| Age 12-17 | 137 | 6.2 | 316 | 14.2 | 1,768 | 79.6 | |
| Male | 84 | 7.0 | 162 | 13.6 | 948 | 79.4 | |
| Female | 54 | 5.2 | 154 | 15.0 | 820 | 79.8 | |
| Age 18+ | 2,595 | 17.5 | 4,131 | 27.9 | 8,069 | 54.5 | |
| Male | 1,592 | 21.2 | 2,251 | 30.0 | 3,661 | 48.8 | |
| Female | 1,003 | 13.8 | 1,881 | 25.8 | 4,408 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 123 | 25 | 20.6 | |
| Male | 59 | 16 | 27.4 | |
| Female | 64 | 9 | 14.3 | |



Colusa

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Total | 436 | 17.2 | |
| Male | 282 | 17.4 | |
| Female | 155 | 16.9 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Total | \$4,807 | \$189,959 | |
| Male | 4,056 | 250,700 | |
| Female | 751 | 82,268 | |

Contra Costa

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$540,362 | \$518 | \$5,526 |
| Direct | 334,548 | 321 | 3,421 |
| Lost Productivity | 205,814 | 197 | 2,105 |
| Illness | 45,783 | 44 | 468 |
| Premature Death | 160,031 | 153 | 1,637 |
| Male | \$326,407 | \$640 | \$5,315 |
| Direct | 181,739 | 357 | 2,959 |
| Lost Productivity | 144,669 | 284 | 2,356 |
| Illness | 25,353 | 50 | 413 |
| Premature Death | 119,316 | 234 | 1,943 |
| Female | \$213,954 | \$401 | \$5,883 |
| Direct | 152,809 | 286 | 4,202 |
| Lost Productivity | 61,145 | 115 | 1,681 |
| Illness | 20,430 | 38 | 562 |
| Premature Death | 40,715 | 76 | 1,120 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$334,548 | \$321 | \$3,421 |
| Hospital | 147,059 | 141 | 1,504 |
| Ambulatory | 69,167 | 66 | 707 |
| Nursing Home Care | 64,129 | 61 | 656 |
| Prescriptions | 36,368 | 35 | 372 |
| Home Health | 17,825 | 17 | 182 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|-----------|---------|---------|---------|
| | Total | 1,043,500 | 263,755 | 209,896 | 441,836 |
| Male | 509,624 | 134,949 | 105,731 | 213,744 | 55,199 |
| Female | 533,876 | 128,806 | 104,165 | 228,091 | 72,814 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 97,779 | 11.2 | 219,139 | 25.1 | 556,189 | 63.7 | |
| Male | 61,413 | 14.5 | 120,992 | 28.6 | 240,486 | 56.9 | |
| Female | 36,366 | 8.1 | 98,147 | 21.8 | 315,703 | 70.1 | |
| Age 12-17 | 4,791 | 5.1 | 4,625 | 5.0 | 83,947 | 89.9 | |
| Male | 4,623 | 9.6 | 1,454 | 3.0 | 42,140 | 87.4 | |
| Female | 168 | 0.4 | 3,171 | 7.0 | 41,807 | 92.6 | |
| Age 18+ | 92,988 | 11.9 | 214,514 | 27.5 | 472,242 | 60.6 | |
| Male | 56,790 | 15.2 | 119,538 | 31.9 | 198,346 | 52.9 | |
| Female | 36,198 | 8.9 | 94,976 | 23.4 | 273,896 | 67.6 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 6,962 | 992 | 14.3 | |
| Male | 3,444 | 554 | 16.1 | |
| Female | 3,518 | 439 | 12.5 | |



Contra Costa

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 9,007 | 16.3 | |
| Female | 7,005 | 16.0 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 119,316 | 215,536 | |
| Female | 40,715 | 92,769 | |

Del Norte

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$22,999 | \$805 | \$5,536 |
| Direct | 10,091 | 353 | 2,429 |
| Lost Productivity | 12,908 | 452 | 3,107 |
| Illness | 1,417 | 50 | 341 |
| Premature Death | 11,490 | 402 | 2,766 |
| Male | \$13,779 | \$870 | \$4,969 |
| Direct | 5,551 | 351 | 2,002 |
| Lost Productivity | 8,228 | 520 | 2,967 |
| Illness | 867 | 55 | 313 |
| Premature Death | 7,361 | 465 | 2,655 |
| Female | \$9,220 | \$725 | \$6,673 |
| Direct | 4,540 | 357 | 3,286 |
| Lost Productivity | 4,680 | 368 | 3,387 |
| Illness | 550 | 43 | 398 |
| Premature Death | 4,130 | 325 | 2,989 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$10,091 | \$353 | \$2,429 |
| Hospital | 3,452 | 121 | 831 |
| Ambulatory | 2,597 | 91 | 625 |
| Nursing Home Care | 1,547 | 54 | 372 |
| Prescriptions | 1,544 | 54 | 372 |
| Home Health | 952 | 33 | 229 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|--------|
| | Total | 28,558 | 6,270 | 6,506 | 11,948 |
| Male | 15,838 | 3,157 | 4,148 | 6,807 | 1,726 |
| Female | 12,720 | 3,113 | 2,358 | 5,141 | 2,107 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 4,155 | 16.9 | 6,613 | 26.9 | 13,840 | 56.2 | |
| Male | 2,773 | 20.0 | 3,963 | 28.6 | 7,117 | 51.4 | |
| Female | 1,382 | 12.8 | 2,650 | 24.6 | 6,723 | 62.5 | |
| Age 12-17 | 142 | 6.1 | 331 | 14.3 | 1,846 | 79.6 | |
| Male | 82 | 7.0 | 159 | 13.6 | 930 | 79.4 | |
| Female | 60 | 5.2 | 172 | 15.0 | 916 | 79.8 | |
| Age 18+ | 4,012 | 18.0 | 6,281 | 28.2 | 11,994 | 53.8 | |
| Male | 2,691 | 21.2 | 3,804 | 30.0 | 6,187 | 48.8 | |
| Female | 1,322 | 13.8 | 2,478 | 25.8 | 5,807 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 258 | 51 | 19.7 | |
| Male | 133 | 28 | 21.1 | |
| Female | 125 | 23 | 18.2 | |



Del Norte

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 503 | 17.9 | |
| Female | 451 | 19.8 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 7,361 | 262,301 | |
| Female | 4,130 | 181,328 | |

El Dorado

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$109,486 | \$609 | \$5,338 |
| Direct | 66,744 | 371 | 3,254 |
| Lost Productivity | 42,742 | 238 | 2,084 |
| Illness | 8,432 | 47 | 411 |
| Premature Death | 34,310 | 191 | 1,673 |
| Male | \$65,126 | \$725 | \$5,904 |
| Direct | 36,641 | 408 | 3,322 |
| Lost Productivity | 28,485 | 317 | 2,582 |
| Illness | 4,634 | 52 | 420 |
| Premature Death | 23,851 | 266 | 2,162 |
| Female | \$44,360 | \$494 | \$4,679 |
| Direct | 30,103 | 335 | 3,175 |
| Lost Productivity | 14,257 | 159 | 1,504 |
| Illness | 3,797 | 42 | 401 |
| Premature Death | 10,459 | 116 | 1,103 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$66,744 | \$371 | \$3,254 |
| Hospital | 26,436 | 147 | 1,289 |
| Ambulatory | 15,032 | 84 | 733 |
| Nursing Home Care | 12,070 | 67 | 588 |
| Prescriptions | 8,725 | 49 | 425 |
| Home Health | 4,481 | 25 | 218 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 179,700 | 42,746 | 29,807 | 81,360 |
| Male | 89,824 | 21,822 | 15,680 | 40,134 | 12,188 |
| Female | 89,876 | 20,923 | 14,127 | 41,226 | 13,599 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 20,511 | 13.3 | 37,769 | 24.6 | 95,443 | 62.1 | |
| Male | 11,030 | 14.4 | 21,264 | 27.8 | 44,318 | 57.8 | |
| Female | 9,481 | 12.3 | 16,505 | 21.4 | 51,125 | 66.3 | |
| Age 12-17 | 763 | 4.5 | 1,835 | 10.9 | 14,170 | 84.5 | |
| Male | 538 | 6.2 | 798 | 9.3 | 7,274 | 84.5 | |
| Female | 225 | 2.8 | 1,038 | 12.7 | 6,896 | 84.5 | |
| Age 18+ | 19,749 | 14.4 | 35,934 | 26.2 | 81,272 | 59.3 | |
| Male | 10,492 | 15.4 | 20,466 | 30.1 | 37,044 | 54.5 | |
| Female | 9,256 | 13.4 | 15,468 | 22.4 | 44,229 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 1,336 | 204 | 15.3 | |
| Male | 670 | 114 | 17.1 | |
| Female | 666 | 90 | 13.5 | |



El Dorado

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,847 | 16.2 | |
| Female | 1,586 | 17.6 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 23,851 | 208,783 | |
| Female | 10,459 | 116,078 | |

Fresno

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$421,195 | \$456 | \$4,327 |
| Direct | 216,941 | 235 | 2,228 |
| Lost Productivity | 204,254 | 221 | 2,098 |
| Illness | 32,408 | 35 | 333 |
| Premature Death | 171,846 | 186 | 1,765 |
| Male | \$271,325 | \$587 | \$4,616 |
| Direct | 124,305 | 269 | 2,115 |
| Lost Productivity | 147,020 | 318 | 2,501 |
| Illness | 20,030 | 43 | 341 |
| Premature Death | 126,991 | 275 | 2,161 |
| Female | \$149,870 | \$324 | \$3,885 |
| Direct | 92,636 | 201 | 2,401 |
| Lost Productivity | 57,234 | 124 | 1,484 |
| Illness | 12,378 | 27 | 321 |
| Premature Death | 44,856 | 97 | 1,163 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$216,941 | \$235 | \$2,228 |
| Hospital | 95,863 | 104 | 985 |
| Ambulatory | 44,931 | 49 | 462 |
| Nursing Home Care | 28,112 | 30 | 289 |
| Prescriptions | 26,207 | 28 | 269 |
| Home Health | 21,827 | 24 | 224 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 923,894 | 277,470 | 238,360 | 316,070 |
| Male | 461,948 | 141,887 | 122,611 | 157,478 | 39,972 |
| Female | 461,946 | 135,583 | 115,749 | 158,592 | 52,022 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 97,350 | 13.1 | 159,247 | 21.5 | 484,519 | 65.4 | |
| Male | 58,774 | 15.9 | 99,718 | 27.1 | 210,043 | 57.0 | |
| Female | 38,576 | 10.4 | 59,529 | 16.0 | 274,476 | 73.7 | |
| Age 12-17 | 5,026 | 5.3 | 11,271 | 11.9 | 78,395 | 82.8 | |
| Male | 4,097 | 8.5 | 7,307 | 15.1 | 37,070 | 76.5 | |
| Female | 929 | 2.0 | 3,964 | 8.6 | 41,325 | 89.4 | |
| Age 18+ | 92,324 | 14.3 | 147,976 | 22.9 | 406,124 | 62.8 | |
| Male | 54,678 | 17.1 | 92,411 | 28.9 | 172,973 | 54.0 | |
| Female | 37,647 | 11.5 | 55,565 | 17.0 | 233,151 | 71.4 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 6,089 | 813 | 13.4 | |
| Male | 3,064 | 488 | 15.9 | |
| Female | 3,025 | 325 | 10.8 | |



Fresno

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Total | 14,236 | 17.5 | |
| Male | 8,539 | 17.5 | |
| Female | 5,697 | 17.5 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Total | \$171,846 | \$211,288 | |
| Male | 126,991 | 260,269 | |
| Female | 44,856 | 137,844 | |

Glenn

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$20,786 | \$741 | \$5,664 |
| Direct | 10,940 | 390 | 2,981 |
| Lost Productivity | 9,845 | 351 | 2,683 |
| Illness | 1,220 | 43 | 332 |
| Premature Death | 8,625 | 307 | 2,350 |
| Male | \$13,967 | \$987 | \$6,268 |
| Direct | 5,895 | 417 | 2,645 |
| Lost Productivity | 8,073 | 571 | 3,622 |
| Illness | 659 | 47 | 296 |
| Premature Death | 7,413 | 524 | 3,327 |
| Female | \$6,818 | \$490 | \$4,730 |
| Direct | 5,045 | 363 | 3,500 |
| Lost Productivity | 1,773 | 127 | 1,230 |
| Illness | 561 | 40 | 389 |
| Premature Death | 1,212 | 87 | 841 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$10,940 | \$390 | \$2,981 |
| Hospital | 4,859 | 173 | 1,324 |
| Ambulatory | 2,354 | 84 | 641 |
| Nursing Home Care | 1,444 | 51 | 393 |
| Prescriptions | 1,405 | 50 | 383 |
| Home Health | 879 | 31 | 239 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|--------|
| | Total | 28,055 | 8,126 | 5,895 | 10,259 |
| Male | 14,149 | 4,158 | 3,098 | 5,172 | 1,722 |
| Female | 13,906 | 3,968 | 2,798 | 5,087 | 2,053 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 3,670 | 16.0 | 5,983 | 26.1 | 13,241 | 57.8 | |
| Male | 2,228 | 19.3 | 3,207 | 27.8 | 6,103 | 52.9 | |
| Female | 1,441 | 12.7 | 2,775 | 24.4 | 7,138 | 62.9 | |
| Age 12-17 | 183 | 6.2 | 423 | 14.3 | 2,359 | 79.6 | |
| Male | 109 | 7.0 | 210 | 13.6 | 1,228 | 79.4 | |
| Female | 74 | 5.2 | 212 | 15.0 | 1,131 | 79.8 | |
| Age 18+ | 3,487 | 17.5 | 5,560 | 27.9 | 10,882 | 54.6 | |
| Male | 2,120 | 21.2 | 2,997 | 30.0 | 4,874 | 48.8 | |
| Female | 1,367 | 13.8 | 2,563 | 25.8 | 6,007 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 219 | 39 | 17.7 | |
| Male | 114 | 27 | 23.3 | |
| Female | 105 | 12 | 11.7 | |



Glenn

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 483 | 18.2 | |
| Female | 219 | 17.8 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 7,413 | 279,322 | |
| Female | 1,212 | 98,326 | |

Humboldt

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$95,856 | \$717 | \$4,973 |
| Direct | 50,288 | 376 | 2,609 |
| Lost Productivity | 45,568 | 341 | 2,364 |
| Illness | 6,379 | 48 | 331 |
| Premature Death | 39,189 | 293 | 2,033 |
| Male | \$58,806 | \$879 | \$5,054 |
| Direct | 26,213 | 392 | 2,253 |
| Lost Productivity | 32,594 | 487 | 2,801 |
| Illness | 3,463 | 52 | 298 |
| Premature Death | 29,131 | 435 | 2,503 |
| Female | \$37,050 | \$554 | \$4,849 |
| Direct | 24,075 | 360 | 3,151 |
| Lost Productivity | 12,974 | 194 | 1,698 |
| Illness | 2,916 | 44 | 382 |
| Premature Death | 10,059 | 150 | 1,316 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$50,288 | \$376 | \$2,609 |
| Hospital | 19,539 | 146 | 1,014 |
| Ambulatory | 11,976 | 90 | 621 |
| Nursing Home Care | 7,481 | 56 | 388 |
| Prescriptions | 7,011 | 52 | 364 |
| Home Health | 4,281 | 32 | 222 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 133,765 | 26,621 | 37,139 | 52,713 |
| Male | 66,902 | 13,597 | 19,152 | 26,508 | 7,645 |
| Female | 66,863 | 13,025 | 17,987 | 26,205 | 9,646 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 19,277 | 16.6 | 31,176 | 26.8 | 65,807 | 56.6 | |
| Male | 11,636 | 20.1 | 16,622 | 28.7 | 29,698 | 51.2 | |
| Female | 7,641 | 13.1 | 14,554 | 25.0 | 36,109 | 61.9 | |
| Age 12-17 | 560 | 6.1 | 1,301 | 14.3 | 7,255 | 79.6 | |
| Male | 326 | 7.0 | 632 | 13.6 | 3,693 | 79.4 | |
| Female | 234 | 5.2 | 669 | 15.0 | 3,563 | 79.8 | |
| Age 18+ | 18,717 | 17.5 | 29,875 | 27.9 | 58,551 | 54.6 | |
| Male | 11,310 | 21.2 | 15,990 | 30.0 | 26,006 | 48.8 | |
| Female | 7,407 | 13.8 | 13,885 | 25.8 | 32,546 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 1,222 | 196 | 16.1 | |
| Male | 635 | 113 | 17.8 | |
| Female | 587 | 83 | 14.2 | |



Humboldt

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 2,009 | 17.8 | |
| Female | 1,458 | 17.5 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 29,131 | 257,385 | |
| Female | 10,059 | 120,767 | |

Imperial

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$80,170 | \$463 | \$3,643 |
| Direct | 46,354 | 268 | 2,106 |
| Lost Productivity | 33,816 | 195 | 1,536 |
| Illness | 6,636 | 38 | 302 |
| Premature Death | 27,180 | 157 | 1,235 |
| Male | \$52,405 | \$588 | \$4,104 |
| Direct | 27,425 | 308 | 2,148 |
| Lost Productivity | 24,979 | 280 | 1,956 |
| Illness | 3,722 | 42 | 291 |
| Premature Death | 21,258 | 239 | 1,665 |
| Female | \$27,765 | \$330 | \$3,005 |
| Direct | 18,929 | 225 | 2,048 |
| Lost Productivity | 8,836 | 105 | 956 |
| Illness | 2,915 | 35 | 315 |
| Premature Death | 5,922 | 70 | 641 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$46,354 | \$268 | \$2,106 |
| Hospital | 20,171 | 116 | 916 |
| Ambulatory | 9,686 | 56 | 440 |
| Nursing Home Care | 5,850 | 34 | 266 |
| Prescriptions | 5,579 | 32 | 254 |
| Home Health | 5,068 | 29 | 230 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 173,240 | 51,105 | 42,516 | 61,531 |
| Male | 89,075 | 25,916 | 23,677 | 31,299 | 8,182 |
| Female | 84,165 | 25,189 | 18,839 | 30,232 | 9,906 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 22,009 | 15.7 | 30,760 | 21.9 | 87,460 | 62.4 | |
| Male | 12,768 | 17.7 | 19,266 | 26.7 | 40,252 | 55.7 | |
| Female | 9,241 | 13.6 | 11,494 | 16.9 | 47,208 | 69.5 | |
| Age 12-17 | 723 | 4.0 | 2,577 | 14.2 | 14,794 | 81.8 | |
| Male | 370 | 4.1 | 1,218 | 13.3 | 7,539 | 82.6 | |
| Female | 352 | 3.9 | 1,359 | 15.2 | 7,256 | 80.9 | |
| Age 18+ | 21,287 | 17.4 | 28,182 | 23.1 | 72,666 | 59.5 | |
| Male | 12,398 | 19.6 | 18,048 | 28.6 | 32,713 | 51.8 | |
| Female | 8,889 | 15.1 | 10,134 | 17.2 | 39,953 | 67.7 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 904 | 114 | 12.6 | |
| Male | 525 | 77 | 14.7 | |
| Female | 379 | 37 | 9.8 | |



Imperial

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,369 | 17.8 | |
| Female | 700 | 18.9 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 21,258 | 275,797 | |
| Female | 5,922 | 159,655 | |

Inyo

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$12,808 | \$694 | \$5,000 |
| Direct | 7,404 | 401 | 2,890 |
| Lost Productivity | 5,404 | 293 | 2,109 |
| Illness | 777 | 42 | 303 |
| Premature Death | 4,627 | 251 | 1,806 |
| Male | \$7,975 | \$863 | \$5,541 |
| Direct | 4,379 | 474 | 3,042 |
| Lost Productivity | 3,597 | 389 | 2,499 |
| Illness | 438 | 47 | 304 |
| Premature Death | 3,159 | 342 | 2,194 |
| Female | \$4,833 | \$525 | \$4,306 |
| Direct | 3,026 | 329 | 2,696 |
| Lost Productivity | 1,807 | 196 | 1,610 |
| Illness | 339 | 37 | 302 |
| Premature Death | 1,468 | 159 | 1,308 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$7,404 | \$401 | \$2,890 |
| Hospital | 3,358 | 182 | 1,311 |
| Ambulatory | 1,308 | 71 | 511 |
| Nursing Home Care | 1,098 | 59 | 428 |
| Prescriptions | 818 | 44 | 320 |
| Home Health | 823 | 45 | 321 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|-------|
| | Total | 18,447 | 4,024 | 3,133 | 7,743 |
| Male | 9,242 | 2,069 | 1,630 | 3,910 | 1,634 |
| Female | 9,205 | 1,955 | 1,503 | 3,834 | 1,913 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 2,562 | 16.1 | 3,513 | 22.0 | 9,873 | 61.9 | |
| Male | 1,439 | 18.1 | 2,152 | 27.1 | 4,350 | 54.8 | |
| Female | 1,122 | 14.0 | 1,360 | 17.0 | 5,523 | 69.0 | |
| Age 12-17 | 61 | 4.0 | 217 | 14.2 | 1,247 | 81.8 | |
| Male | 31 | 4.1 | 103 | 13.3 | 635 | 82.6 | |
| Female | 30 | 3.9 | 115 | 15.2 | 612 | 80.9 | |
| Age 18+ | 2,501 | 17.3 | 3,296 | 22.8 | 8,627 | 59.8 | |
| Male | 1,408 | 19.6 | 2,050 | 28.6 | 3,715 | 51.8 | |
| Female | 1,093 | 15.1 | 1,246 | 17.2 | 4,911 | 67.7 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 200 | 30 | 15.0 | |
| Male | 113 | 17 | 14.7 | |
| Female | 87 | 13 | 15.4 | |



Inyo

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 253 | 15.3 | |
| Female | 207 | 15.4 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 3,159 | 190,367 | |
| Female | 1,468 | 109,299 | |

Kern

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$458,699 | \$552 | \$4,412 |
| Direct | 224,281 | 270 | 2,157 |
| Lost Productivity | 234,418 | 282 | 2,255 |
| Illness | 31,628 | 38 | 304 |
| Premature Death | 202,791 | 244 | 1,951 |
| Male | \$297,889 | \$695 | \$4,929 |
| Direct | 133,345 | 311 | 2,206 |
| Lost Productivity | 164,544 | 384 | 2,722 |
| Illness | 17,833 | 42 | 295 |
| Premature Death | 146,712 | 342 | 2,427 |
| Female | \$160,810 | \$399 | \$3,695 |
| Direct | 90,936 | 226 | 2,089 |
| Lost Productivity | 69,874 | 174 | 1,605 |
| Illness | 13,795 | 34 | 317 |
| Premature Death | 56,079 | 139 | 1,288 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$224,281 | \$270 | \$2,157 |
| Hospital | 106,525 | 128 | 1,025 |
| Ambulatory | 44,564 | 54 | 429 |
| Nursing Home Care | 25,675 | 31 | 247 |
| Prescriptions | 25,231 | 30 | 243 |
| Home Health | 22,287 | 27 | 214 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 831,133 | 254,562 | 211,480 | 290,703 |
| Male | 428,434 | 129,672 | 115,107 | 150,196 | 33,459 |
| Female | 402,699 | 124,890 | 96,372 | 140,507 | 40,929 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 103,965 | 15.7 | 145,394 | 21.9 | 413,525 | 62.4 | |
| Male | 60,439 | 17.6 | 91,267 | 26.6 | 191,223 | 55.8 | |
| Female | 43,526 | 13.6 | 54,127 | 16.9 | 222,302 | 69.5 | |
| Age 12-17 | 3,448 | 4.0 | 12,283 | 14.2 | 70,582 | 81.8 | |
| Male | 1,791 | 4.1 | 5,895 | 13.3 | 36,480 | 82.6 | |
| Female | 1,656 | 3.9 | 6,388 | 15.2 | 34,102 | 80.9 | |
| Age 18+ | 100,518 | 17.4 | 133,111 | 23.1 | 342,943 | 59.5 | |
| Male | 58,648 | 19.6 | 85,372 | 28.6 | 154,743 | 51.8 | |
| Female | 41,870 | 15.1 | 47,739 | 17.2 | 188,200 | 67.7 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 5,241 | 893 | 17.0 | |
| Male | 2,827 | 536 | 19.0 | |
| Female | 2,414 | 357 | 14.8 | |



Kern

| | Number | Per | Years of Potential Life Lost |
|--------|----------|-------|-------------------------------------|
| | of Years | Death | |
| Total | 16,514 | 18.5 | |
| Male | 9,695 | 18.1 | |
| Female | 6,820 | 19.1 | |

| | Amount | Per | Lost Productivity from Premature Death |
|--------|-----------|-----------|---|
| | (1,000) | Death | |
| Total | \$202,791 | \$227,145 | |
| Male | 146,712 | 273,645 | |
| Female | 56,079 | 157,241 | |

Kings

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$74,617 | \$492 | \$3,701 |
| Direct | 37,091 | 244 | 1,840 |
| Lost Productivity | 37,526 | 247 | 1,861 |
| Illness | 6,168 | 41 | 306 |
| Premature Death | 31,357 | 207 | 1,555 |
| Male | \$48,971 | \$563 | \$3,716 |
| Direct | 22,883 | 263 | 1,736 |
| Lost Productivity | 26,088 | 300 | 1,980 |
| Illness | 3,983 | 46 | 302 |
| Premature Death | 22,105 | 254 | 1,677 |
| Female | \$25,646 | \$395 | \$3,674 |
| Direct | 14,208 | 219 | 2,035 |
| Lost Productivity | 11,438 | 176 | 1,638 |
| Illness | 2,185 | 34 | 313 |
| Premature Death | 9,252 | 143 | 1,325 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$37,091 | \$244 | \$1,840 |
| Hospital | 16,390 | 108 | 813 |
| Ambulatory | 8,102 | 53 | 402 |
| Nursing Home Care | 4,234 | 28 | 210 |
| Prescriptions | 4,514 | 30 | 224 |
| Home Health | 3,851 | 25 | 191 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 151,793 | 41,365 | 43,108 | 55,486 |
| Male | 86,926 | 21,145 | 26,633 | 33,741 | 5,408 |
| Female | 64,867 | 20,220 | 16,475 | 21,745 | 6,427 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 20,159 | 16.3 | 28,314 | 22.9 | 74,910 | 60.7 | |
| Male | 13,178 | 18.2 | 19,671 | 27.2 | 39,476 | 54.6 | |
| Female | 6,981 | 13.7 | 8,644 | 16.9 | 35,434 | 69.4 | |
| Age 12-17 | 517 | 4.0 | 1,845 | 14.2 | 10,593 | 81.8 | |
| Male | 265 | 4.1 | 873 | 13.3 | 5,405 | 82.6 | |
| Female | 252 | 3.9 | 972 | 15.2 | 5,188 | 80.9 | |
| Age 18+ | 19,642 | 17.8 | 26,469 | 24.0 | 64,317 | 58.2 | |
| Male | 12,913 | 19.6 | 18,797 | 28.6 | 34,071 | 51.8 | |
| Female | 6,729 | 15.1 | 7,672 | 17.2 | 30,246 | 67.7 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 792 | 118 | 14.9 | |
| Male | 408 | 71 | 17.5 | |
| Female | 384 | 47 | 12.2 | |



Kings

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,340 | 18.8 | |
| Female | 941 | 20.1 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 22,105 | 309,727 | |
| Female | 9,252 | 197,350 | |

Lake

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$64,549 | \$1,002 | \$7,088 |
| Direct | 33,723 | 524 | 3,703 |
| Lost Productivity | 30,825 | 479 | 3,385 |
| Illness | 3,098 | 48 | 340 |
| Premature Death | 27,727 | 431 | 3,045 |
| Male | \$39,680 | \$1,231 | \$7,238 |
| Direct | 18,298 | 568 | 3,338 |
| Lost Productivity | 21,382 | 663 | 3,900 |
| Illness | 1,647 | 51 | 300 |
| Premature Death | 19,735 | 612 | 3,600 |
| Female | \$24,868 | \$773 | \$6,861 |
| Direct | 15,425 | 480 | 4,255 |
| Lost Productivity | 9,443 | 294 | 2,605 |
| Illness | 1,452 | 45 | 400 |
| Premature Death | 7,992 | 248 | 2,205 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$33,723 | \$524 | \$3,703 |
| Hospital | 16,273 | 253 | 1,787 |
| Ambulatory | 6,421 | 100 | 705 |
| Nursing Home Care | 4,578 | 71 | 503 |
| Prescriptions | 3,924 | 61 | 431 |
| Home Health | 2,527 | 39 | 277 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|--------|--------|--------|
| | Total | 64,395 | 14,100 | 11,201 | 27,432 |
| Male | 32,226 | 7,314 | 5,884 | 13,539 | 5,489 |
| Female | 32,168 | 6,786 | 5,317 | 13,892 | 6,173 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 9,107 | 16.4 | 14,780 | 26.6 | 31,744 | 57.1 | |
| Male | 5,482 | 19.8 | 7,853 | 28.3 | 14,376 | 51.9 | |
| Female | 3,625 | 13.0 | 6,926 | 24.8 | 17,368 | 62.2 | |
| Age 12-17 | 329 | 6.2 | 760 | 14.3 | 4,246 | 79.6 | |
| Male | 196 | 7.0 | 380 | 13.6 | 2,223 | 79.4 | |
| Female | 133 | 5.2 | 380 | 15.0 | 2,024 | 79.8 | |
| Age 18+ | 8,778 | 17.5 | 14,019 | 27.9 | 27,498 | 54.7 | |
| Male | 5,286 | 21.2 | 7,473 | 30.0 | 12,154 | 48.8 | |
| Female | 3,492 | 13.8 | 6,546 | 25.8 | 15,344 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 787 | 150 | 19.0 | |
| Male | 416 | 86 | 20.6 | |
| Female | 371 | 64 | 17.3 | |



Lake

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,466 | 17.1 | |
| Female | 1,147 | 17.9 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 19,735 | 230,780 | |
| Female | 7,992 | 124,716 | |

Lassen

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$18,802 | \$541 | \$3,422 |
| Direct | 10,328 | 297 | 1,880 |
| Lost Productivity | 8,474 | 244 | 1,542 |
| Illness | 1,868 | 54 | 340 |
| Premature Death | 6,606 | 190 | 1,202 |
| Male | \$12,343 | \$553 | \$2,984 |
| Direct | 6,044 | 271 | 1,461 |
| Lost Productivity | 6,299 | 282 | 1,523 |
| Illness | 1,300 | 58 | 314 |
| Premature Death | 5,000 | 224 | 1,209 |
| Female | \$6,459 | \$518 | \$4,758 |
| Direct | 4,284 | 344 | 3,156 |
| Lost Productivity | 2,175 | 175 | 1,602 |
| Illness | 568 | 46 | 419 |
| Premature Death | 1,606 | 129 | 1,183 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$10,328 | \$297 | \$1,880 |
| Hospital | 2,807 | 81 | 511 |
| Ambulatory | 3,091 | 89 | 563 |
| Nursing Home Care | 1,584 | 46 | 288 |
| Prescriptions | 1,786 | 51 | 325 |
| Home Health | 1,060 | 30 | 193 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|--------|
| | Total | 34,772 | 6,240 | 9,957 | 15,138 |
| Male | 22,312 | 3,194 | 7,683 | 9,749 | 1,686 |
| Female | 12,460 | 3,046 | 2,274 | 5,389 | 1,751 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 5,494 | 17.8 | 8,497 | 27.5 | 16,880 | 54.7 | |
| Male | 4,137 | 20.4 | 5,891 | 29.1 | 10,240 | 50.5 | |
| Female | 1,357 | 12.8 | 2,606 | 24.6 | 6,640 | 62.6 | |
| Age 12-17 | 143 | 6.1 | 335 | 14.3 | 1,862 | 79.6 | |
| Male | 81 | 7.0 | 156 | 13.6 | 913 | 79.4 | |
| Female | 62 | 5.2 | 178 | 15.0 | 949 | 79.8 | |
| Age 18+ | 5,351 | 18.8 | 8,163 | 28.6 | 15,018 | 52.6 | |
| Male | 4,056 | 21.2 | 5,735 | 30.0 | 9,327 | 48.8 | |
| Female | 1,295 | 13.8 | 2,428 | 25.8 | 5,691 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 233 | 31 | 13.5 | |
| Male | 146 | 19 | 13.3 | |
| Female | 87 | 12 | 13.8 | |



Lassen

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Total | 573 | 18.2 | |
| Male | 357 | 18.3 | |
| Female | 216 | 18.0 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Total | \$6,606 | \$210,130 | |
| Male | 5,000 | 256,975 | |
| Female | 1,606 | 134,063 | |

Los Angeles

| Cost of Smoking | Amount | Per | Per |
|-------------------|-------------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$4,408,555 | \$450 | \$4,398 |
| Direct | 2,318,269 | 236 | 2,313 |
| Lost Productivity | 2,090,287 | 213 | 2,085 |
| Illness | 357,129 | 36 | 356 |
| Premature Death | 1,733,158 | 177 | 1,729 |
| Male | \$2,930,270 | \$606 | \$4,683 |
| Direct | 1,339,345 | 277 | 2,140 |
| Lost Productivity | 1,590,925 | 329 | 2,542 |
| Illness | 219,938 | 45 | 351 |
| Premature Death | 1,370,987 | 283 | 2,191 |
| Female | \$1,478,285 | \$297 | \$3,925 |
| Direct | 978,923 | 197 | 2,599 |
| Lost Productivity | 499,362 | 100 | 1,326 |
| Illness | 137,190 | 28 | 364 |
| Premature Death | 362,171 | 73 | 962 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-------------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$2,318,269 | \$236 | \$2,313 |
| Hospital | 1,030,866 | 105 | 1,028 |
| Ambulatory | 434,291 | 44 | 433 |
| Nursing Home Care | 398,524 | 41 | 398 |
| Prescriptions | 240,984 | 25 | 240 |
| Home Health | 213,604 | 22 | 213 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|-----------|-----------|-----------|-----------|-----------|
| | Total | 9,805,232 | 2,413,128 | 2,517,469 | 3,817,276 |
| Male | 4,836,100 | 1,233,567 | 1,280,896 | 1,872,474 | 449,164 |
| Female | 4,969,132 | 1,179,561 | 1,236,574 | 1,944,802 | 608,195 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 1,002,393 | 12.2 | 1,630,116 | 19.8 | 5,606,842 | 68.0 | |
| Male | 625,746 | 15.5 | 1,009,920 | 25.0 | 2,399,886 | 59.5 | |
| Female | 376,647 | 9.0 | 620,196 | 14.8 | 3,206,956 | 76.3 | |
| Age 12-17 | 26,167 | 3.1 | 70,533 | 8.3 | 750,548 | 88.6 | |
| Male | 18,578 | 4.3 | 37,185 | 8.6 | 377,255 | 87.1 | |
| Female | 7,589 | 1.8 | 33,347 | 8.1 | 373,293 | 90.1 | |
| Age 18+ | 976,226 | 13.2 | 1,559,583 | 21.1 | 4,856,294 | 65.7 | |
| Male | 607,167 | 16.9 | 972,734 | 27.0 | 2,022,631 | 56.1 | |
| Female | 369,059 | 9.7 | 586,849 | 15.5 | 2,833,663 | 74.8 | |

| | Total | Due to Smoking | | Deaths |
|--------|--------|----------------|------|---------------|
| | | Number | % | |
| Total | 57,629 | 8,270 | 14.4 | |
| Male | 29,346 | 5,142 | 17.5 | |
| Female | 28,283 | 3,128 | 11.1 | |



Los Angeles

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 90,087 | 17.5 | |
| Female | 51,990 | 16.6 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 1,370,987 | 266,622 | |
| Female | 362,171 | 115,792 | |

Madera

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$72,026 | \$480 | \$4,523 |
| Direct | 36,044 | 240 | 2,263 |
| Lost Productivity | 35,982 | 240 | 2,259 |
| Illness | 5,310 | 35 | 333 |
| Premature Death | 30,672 | 204 | 1,926 |
| Male | \$48,351 | \$669 | \$5,245 |
| Direct | 20,326 | 281 | 2,205 |
| Lost Productivity | 28,026 | 388 | 3,040 |
| Illness | 3,107 | 43 | 337 |
| Premature Death | 24,918 | 345 | 2,703 |
| Female | \$23,675 | \$304 | \$3,530 |
| Direct | 15,718 | 202 | 2,344 |
| Lost Productivity | 7,957 | 102 | 1,186 |
| Illness | 2,203 | 28 | 329 |
| Premature Death | 5,753 | 74 | 858 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$36,044 | \$240 | \$2,263 |
| Hospital | 14,358 | 96 | 902 |
| Ambulatory | 7,863 | 52 | 494 |
| Nursing Home Care | 5,158 | 34 | 324 |
| Prescriptions | 4,671 | 31 | 293 |
| Home Health | 3,994 | 27 | 251 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 150,150 | 43,142 | 35,790 | 54,058 |
| Male | 72,263 | 22,183 | 17,222 | 24,834 | 8,023 |
| Female | 77,887 | 20,959 | 18,568 | 29,224 | 9,136 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 15,925 | 13.1 | 25,931 | 21.3 | 79,961 | 65.6 | |
| Male | 9,218 | 15.9 | 15,641 | 27.0 | 33,061 | 57.1 | |
| Female | 6,707 | 10.5 | 10,290 | 16.1 | 46,900 | 73.4 | |
| Age 12-17 | 803 | 5.4 | 1,780 | 12.0 | 12,227 | 82.6 | |
| Male | 663 | 8.5 | 1,182 | 15.1 | 5,996 | 76.5 | |
| Female | 140 | 2.0 | 598 | 8.6 | 6,231 | 89.4 | |
| Age 18+ | 15,122 | 14.1 | 24,152 | 22.6 | 67,734 | 63.3 | |
| Male | 8,555 | 17.1 | 14,459 | 28.9 | 27,065 | 54.0 | |
| Female | 6,567 | 11.5 | 9,692 | 17.0 | 40,669 | 71.4 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 913 | 143 | 15.6 | |
| Male | 516 | 96 | 18.6 | |
| Female | 397 | 47 | 11.8 | |



Madera

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,674 | 17.5 | |
| Female | 834 | 17.8 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 24,918 | 260,003 | |
| Female | 5,753 | 122,462 | |

Marin

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$138,354 | \$551 | \$4,814 |
| Direct | 94,700 | 377 | 3,295 |
| Lost Productivity | 43,653 | 174 | 1,519 |
| Illness | 13,474 | 54 | 469 |
| Premature Death | 30,179 | 120 | 1,050 |
| Male | \$76,585 | \$618 | \$4,560 |
| Direct | 47,195 | 381 | 2,810 |
| Lost Productivity | 29,391 | 237 | 1,750 |
| Illness | 6,976 | 56 | 415 |
| Premature Death | 22,415 | 181 | 1,335 |
| Female | \$61,768 | \$485 | \$5,169 |
| Direct | 47,506 | 373 | 3,976 |
| Lost Productivity | 14,262 | 112 | 1,194 |
| Illness | 6,498 | 51 | 544 |
| Premature Death | 7,764 | 61 | 650 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$94,700 | \$377 | \$3,295 |
| Hospital | 36,135 | 144 | 1,257 |
| Ambulatory | 23,093 | 92 | 803 |
| Nursing Home Care | 16,539 | 66 | 575 |
| Prescriptions | 12,918 | 51 | 449 |
| Home Health | 6,016 | 24 | 209 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|---------|
| | Total | 251,229 | 52,502 | 37,808 | 119,863 |
| Male | 123,945 | 26,823 | 20,519 | 58,500 | 18,104 |
| Female | 127,284 | 25,679 | 17,290 | 61,363 | 22,952 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 28,743 | 13.3 | 65,415 | 30.3 | 121,706 | 56.4 | |
| Male | 16,794 | 15.9 | 37,587 | 35.5 | 51,569 | 48.7 | |
| Female | 11,949 | 10.9 | 27,828 | 25.3 | 70,137 | 63.8 | |
| Age 12-17 | 1,083 | 6.3 | 1,344 | 7.8 | 14,709 | 85.8 | |
| Male | 712 | 8.1 | 771 | 8.7 | 7,345 | 83.2 | |
| Female | 371 | 4.5 | 574 | 6.9 | 7,365 | 88.6 | |
| Age 18+ | 27,659 | 13.9 | 64,071 | 32.2 | 106,997 | 53.8 | |
| Male | 16,081 | 16.6 | 36,816 | 37.9 | 44,225 | 45.5 | |
| Female | 11,578 | 11.4 | 27,255 | 26.8 | 62,772 | 61.8 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 1,692 | 228 | 13.4 | |
| Male | 801 | 120 | 15.0 | |
| Female | 891 | 107 | 12.1 | |



Marin

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,836 | 15.3 | |
| Female | 1,560 | 14.5 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 22,415 | 186,561 | |
| Female | 7,764 | 72,300 | |

Mariposa

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$13,626 | \$745 | \$6,156 |
| Direct | 7,776 | 425 | 3,513 |
| Lost Productivity | 5,851 | 320 | 2,643 |
| Illness | 858 | 47 | 388 |
| Premature Death | 4,993 | 273 | 2,256 |
| Male | \$7,647 | \$825 | \$6,311 |
| Direct | 4,360 | 470 | 3,599 |
| Lost Productivity | 3,287 | 354 | 2,713 |
| Illness | 489 | 53 | 404 |
| Premature Death | 2,797 | 302 | 2,309 |
| Female | \$5,980 | \$664 | \$5,967 |
| Direct | 3,416 | 379 | 3,408 |
| Lost Productivity | 2,564 | 285 | 2,559 |
| Illness | 369 | 41 | 368 |
| Premature Death | 2,196 | 244 | 2,191 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$7,776 | \$425 | \$3,513 |
| Hospital | 2,924 | 160 | 1,321 |
| Ambulatory | 1,672 | 91 | 755 |
| Nursing Home Care | 1,617 | 88 | 730 |
| Prescriptions | 1,006 | 55 | 454 |
| Home Health | 557 | 30 | 252 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|-------|
| | Total | 18,280 | 3,377 | 2,858 | 8,226 |
| Male | 9,273 | 1,692 | 1,518 | 4,194 | 1,870 |
| Female | 9,007 | 1,685 | 1,341 | 4,032 | 1,949 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 2,214 | 13.6 | 4,075 | 25.0 | 9,981 | 61.3 | |
| Male | 1,212 | 14.7 | 2,344 | 28.4 | 4,695 | 56.9 | |
| Female | 1,002 | 12.5 | 1,731 | 21.6 | 5,287 | 65.9 | |
| Age 12-17 | 61 | 4.5 | 151 | 11.0 | 1,155 | 84.5 | |
| Male | 42 | 6.2 | 62 | 9.3 | 565 | 84.5 | |
| Female | 19 | 2.8 | 89 | 12.7 | 591 | 84.5 | |
| Age 18+ | 2,153 | 14.4 | 3,924 | 26.3 | 8,826 | 59.2 | |
| Male | 1,170 | 15.4 | 2,282 | 30.1 | 4,130 | 54.5 | |
| Female | 983 | 13.4 | 1,642 | 22.4 | 4,696 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 160 | 28 | 17.8 | |
| Male | 82 | 15 | 18.0 | |
| Female | 78 | 14 | 17.5 | |



Mariposa

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 225 | 15.3 | |
| Female | 273 | 19.9 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 2,797 | 189,790 | |
| Female | 2,196 | 160,627 | |

Mendocino

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$73,786 | \$843 | \$6,013 |
| Direct | 37,234 | 425 | 3,035 |
| Lost Productivity | 36,552 | 417 | 2,979 |
| Illness | 4,223 | 48 | 344 |
| Premature Death | 32,329 | 369 | 2,635 |
| Male | \$45,510 | \$1,040 | \$6,155 |
| Direct | 19,895 | 454 | 2,691 |
| Lost Productivity | 25,615 | 585 | 3,464 |
| Illness | 2,266 | 52 | 306 |
| Premature Death | 23,349 | 533 | 3,158 |
| Female | \$28,276 | \$646 | \$5,798 |
| Direct | 17,339 | 396 | 3,556 |
| Lost Productivity | 10,937 | 250 | 2,243 |
| Illness | 1,957 | 45 | 401 |
| Premature Death | 8,980 | 205 | 1,842 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$37,234 | \$425 | \$3,035 |
| Hospital | 15,056 | 172 | 1,227 |
| Ambulatory | 8,356 | 95 | 681 |
| Nursing Home Care | 5,703 | 65 | 465 |
| Prescriptions | 5,005 | 57 | 408 |
| Home Health | 3,113 | 36 | 254 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|--------|--------|--------|
| | Total | 87,568 | 19,717 | 17,500 | 37,103 |
| Male | 43,774 | 10,111 | 9,229 | 18,424 | 6,011 |
| Female | 43,794 | 9,607 | 8,271 | 18,679 | 7,237 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 12,270 | 16.4 | 19,897 | 26.6 | 42,570 | 57.0 | |
| Male | 7,394 | 19.9 | 10,584 | 28.4 | 19,263 | 51.7 | |
| Female | 4,877 | 13.0 | 9,313 | 24.8 | 23,307 | 62.2 | |
| Age 12-17 | 424 | 6.2 | 982 | 14.3 | 5,481 | 79.6 | |
| Male | 251 | 7.0 | 486 | 13.6 | 2,840 | 79.4 | |
| Female | 173 | 5.2 | 496 | 15.0 | 2,641 | 79.8 | |
| Age 18+ | 11,846 | 17.5 | 18,915 | 27.9 | 37,090 | 54.7 | |
| Male | 7,143 | 21.2 | 10,098 | 30.0 | 16,423 | 48.8 | |
| Female | 4,703 | 13.8 | 8,817 | 25.8 | 20,666 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 802 | 148 | 18.5 | |
| Male | 417 | 82 | 19.7 | |
| Female | 385 | 66 | 17.2 | |



Mendocino

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,489 | 18.1 | |
| Female | 1,208 | 18.2 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 23,349 | 284,546 | |
| Female | 8,980 | 135,308 | |

Merced

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$111,757 | \$440 | \$4,249 |
| Direct | 59,502 | 234 | 2,262 |
| Lost Productivity | 52,254 | 206 | 1,987 |
| Illness | 8,752 | 34 | 333 |
| Premature Death | 43,502 | 171 | 1,654 |
| Male | \$64,970 | \$509 | \$4,068 |
| Direct | 33,910 | 266 | 2,123 |
| Lost Productivity | 31,059 | 243 | 1,945 |
| Illness | 5,414 | 42 | 339 |
| Premature Death | 25,646 | 201 | 1,606 |
| Female | \$46,787 | \$370 | \$4,529 |
| Direct | 25,592 | 202 | 2,477 |
| Lost Productivity | 21,195 | 168 | 2,052 |
| Illness | 3,339 | 26 | 323 |
| Premature Death | 17,857 | 141 | 1,728 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$59,502 | \$234 | \$2,262 |
| Hospital | 27,571 | 108 | 1,048 |
| Ambulatory | 11,979 | 47 | 455 |
| Nursing Home Care | 7,240 | 28 | 275 |
| Prescriptions | 6,954 | 27 | 264 |
| Home Health | 5,758 | 23 | 219 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 254,122 | 80,557 | 64,799 | 85,019 |
| Male | 127,704 | 41,366 | 33,442 | 42,442 | 10,454 |
| Female | 126,418 | 39,191 | 31,358 | 42,577 | 13,293 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 26,303 | 13.1 | 43,109 | 21.4 | 132,027 | 65.5 | |
| Male | 15,971 | 15.8 | 27,107 | 26.9 | 57,716 | 57.3 | |
| Female | 10,332 | 10.3 | 16,002 | 15.9 | 74,310 | 73.8 | |
| Age 12-17 | 1,491 | 5.4 | 3,330 | 11.9 | 23,052 | 82.7 | |
| Male | 1,222 | 8.5 | 2,179 | 15.1 | 11,056 | 76.5 | |
| Female | 270 | 2.0 | 1,151 | 8.6 | 11,996 | 89.4 | |
| Age 18+ | 24,811 | 14.3 | 39,779 | 22.9 | 108,975 | 62.8 | |
| Male | 14,750 | 17.1 | 24,928 | 28.9 | 46,660 | 54.0 | |
| Female | 10,062 | 11.5 | 14,851 | 17.0 | 62,314 | 71.4 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 1,498 | 223 | 14.9 | |
| Male | 762 | 130 | 17.1 | |
| Female | 736 | 93 | 12.6 | |



Merced

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 2,071 | 15.9 | |
| Female | 1,811 | 19.5 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 25,646 | 197,230 | |
| Female | 17,857 | 192,030 | |

Modoc

| Cost of Smoking | Amount | Per | Per |
|-------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$9,642 | \$1,001 | \$7,092 |
| Direct | 3,907 | 406 | 2,874 |
| Lost Productivity | 5,734 | 595 | 4,218 |
| Illness | 458 | 48 | 337 |
| Premature Death | 5,276 | 548 | 3,881 |
| Male | \$5,823 | \$1,199 | \$7,056 |
| Direct | 2,188 | 451 | 2,651 |
| Lost Productivity | 3,635 | 749 | 4,405 |
| Illness | 246 | 51 | 298 |
| Premature Death | 3,389 | 698 | 4,107 |
| Female | \$3,819 | \$800 | \$7,148 |
| Direct | 1,720 | 360 | 3,219 |
| Lost Productivity | 2,099 | 440 | 3,929 |
| Illness | 212 | 44 | 397 |
| Premature Death | 1,887 | 395 | 3,532 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$3,907 | \$406 | \$2,874 |
| Hospital | 1,209 | 125 | 889 |
| Ambulatory | 973 | 101 | 716 |
| Nursing Home Care | 728 | 76 | 535 |
| Prescriptions | 602 | 63 | 443 |
| Home Health | 396 | 41 | 291 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|-------|-------|-------|-------|
| | Total | 9,631 | 2,151 | 1,510 | 4,101 |
| Male | 4,856 | 1,112 | 764 | 2,052 | 928 |
| Female | 4,775 | 1,040 | 745 | 2,049 | 941 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 1,359 | 16.4 | 2,204 | 26.5 | 4,743 | 57.1 | |
| Male | 825 | 19.7 | 1,183 | 28.3 | 2,176 | 52.0 | |
| Female | 534 | 13.0 | 1,021 | 24.8 | 2,567 | 62.3 | |
| Age 12-17 | 51 | 6.2 | 118 | 14.2 | 658 | 79.6 | |
| Male | 31 | 7.0 | 60 | 13.6 | 349 | 79.4 | |
| Female | 20 | 5.2 | 58 | 15.0 | 309 | 79.8 | |
| Age 18+ | 1,308 | 17.5 | 2,087 | 27.9 | 4,085 | 54.6 | |
| Male | 794 | 21.2 | 1,123 | 30.0 | 1,827 | 48.8 | |
| Female | 514 | 13.8 | 963 | 25.8 | 2,258 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 120 | 20 | 16.9 | |
| Male | 72 | 10 | 14.0 | |
| Female | 48 | 10 | 21.3 | |



Modoc

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 195 | 19.3 | |
| Female | 196 | 19.2 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 3,389 | 335,261 | |
| Female | 1,887 | 184,855 | |

Mono

| Cost of Smoking | Amount | Per | Per |
|-------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$5,467 | \$388 | \$2,699 |
| Direct | 3,599 | 256 | 1,777 |
| Lost Productivity | 1,868 | 133 | 922 |
| Illness | 656 | 47 | 324 |
| Premature Death | 1,211 | 86 | 598 |
| Male | \$3,719 | \$493 | \$3,011 |
| Direct | 2,204 | 292 | 1,784 |
| Lost Productivity | 1,516 | 201 | 1,227 |
| Illness | 386 | 51 | 312 |
| Premature Death | 1,130 | 150 | 915 |
| Female | \$1,748 | \$268 | \$2,212 |
| Direct | 1,396 | 214 | 1,767 |
| Lost Productivity | 352 | 54 | 445 |
| Illness | 271 | 42 | 343 |
| Premature Death | 81 | 12 | 103 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$3,599 | \$256 | \$1,777 |
| Hospital | 1,068 | 76 | 528 |
| Ambulatory | 929 | 66 | 459 |
| Nursing Home Care | 592 | 42 | 292 |
| Prescriptions | 534 | 38 | 264 |
| Home Health | 476 | 34 | 235 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|-------|
| | Total | 14,074 | 2,714 | 3,617 | 6,286 |
| Male | 7,551 | 1,331 | 2,101 | 3,343 | 776 |
| Female | 6,523 | 1,384 | 1,516 | 2,943 | 680 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 2,025 | 16.7 | 2,767 | 22.9 | 7,310 | 60.4 | |
| Male | 1,235 | 18.8 | 1,825 | 27.8 | 3,514 | 53.5 | |
| Female | 790 | 14.3 | 942 | 17.0 | 3,797 | 68.7 | |
| Age 12-17 | 30 | 4.0 | 106 | 14.3 | 607 | 81.7 | |
| Male | 14 | 4.1 | 47 | 13.3 | 292 | 82.6 | |
| Female | 15 | 3.9 | 59 | 15.2 | 315 | 80.9 | |
| Age 18+ | 1,996 | 17.6 | 2,661 | 23.4 | 6,703 | 59.0 | |
| Male | 1,221 | 19.6 | 1,777 | 28.6 | 3,222 | 51.8 | |
| Female | 775 | 15.1 | 883 | 17.2 | 3,482 | 67.7 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 42 | 5 | 10.9 | |
| Male | 25 | 3 | 13.0 | |
| Female | 17 | 1 | 7.7 | |



Mono

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 61 | 18.8 | |
| Female | 19 | 14.2 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 1,130 | 347,658 | |
| Female | 81 | 61,634 | |

Monterey

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$190,190 | \$460 | \$4,956 |
| Direct | 115,063 | 278 | 2,999 |
| Lost Productivity | 75,127 | 182 | 1,958 |
| Illness | 15,094 | 36 | 393 |
| Premature Death | 60,033 | 145 | 1,564 |
| Male | \$121,578 | \$572 | \$4,122 |
| Direct | 65,897 | 310 | 2,234 |
| Lost Productivity | 55,681 | 262 | 1,888 |
| Illness | 9,757 | 46 | 331 |
| Premature Death | 45,924 | 216 | 1,557 |
| Female | \$68,612 | \$341 | \$7,729 |
| Direct | 49,166 | 244 | 5,538 |
| Lost Productivity | 19,446 | 97 | 2,190 |
| Illness | 5,337 | 27 | 601 |
| Premature Death | 14,109 | 70 | 1,589 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$115,063 | \$278 | \$2,999 |
| Hospital | 59,922 | 145 | 1,562 |
| Ambulatory | 20,724 | 50 | 540 |
| Nursing Home Care | 15,849 | 38 | 413 |
| Prescriptions | 11,268 | 27 | 294 |
| Home Health | 7,301 | 18 | 190 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 413,589 | 110,492 | 107,418 | 151,862 |
| Male | 212,451 | 56,366 | 58,273 | 78,693 | 19,119 |
| Female | 201,138 | 54,126 | 49,145 | 73,169 | 24,698 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 38,373 | 11.3 | 77,686 | 22.9 | 222,768 | 65.7 | |
| Male | 29,496 | 16.9 | 45,458 | 26.1 | 99,242 | 57.0 | |
| Female | 8,877 | 5.4 | 32,227 | 19.6 | 123,526 | 75.0 | |
| Age 12-17 | 1,571 | 4.4 | 4,240 | 11.9 | 29,920 | 83.7 | |
| Male | 1,129 | 6.2 | 1,684 | 9.3 | 15,298 | 84.5 | |
| Female | 441 | 2.5 | 2,556 | 14.5 | 14,622 | 83.0 | |
| Age 18+ | 36,802 | 12.1 | 73,446 | 24.2 | 192,848 | 63.6 | |
| Male | 28,366 | 18.2 | 43,775 | 28.0 | 83,944 | 53.8 | |
| Female | 8,436 | 5.7 | 29,671 | 20.2 | 108,904 | 74.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 2,255 | 304 | 13.5 | |
| Male | 1,174 | 183 | 15.6 | |
| Female | 1,081 | 121 | 11.2 | |



Monterey

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 3,137 | 17.1 | |
| Female | 2,017 | 16.7 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 45,924 | 250,308 | |
| Female | 14,109 | 116,618 | |

Napa

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$83,194 | \$613 | \$5,480 |
| Direct | 48,703 | 359 | 3,208 |
| Lost Productivity | 34,492 | 254 | 2,272 |
| Illness | 6,575 | 48 | 433 |
| Premature Death | 27,916 | 206 | 1,839 |
| Male | \$49,206 | \$727 | \$5,483 |
| Direct | 25,129 | 371 | 2,800 |
| Lost Productivity | 24,078 | 356 | 2,683 |
| Illness | 3,495 | 52 | 389 |
| Premature Death | 20,583 | 304 | 2,294 |
| Female | \$33,988 | \$500 | \$5,475 |
| Direct | 23,574 | 347 | 3,797 |
| Lost Productivity | 10,414 | 153 | 1,678 |
| Illness | 3,080 | 45 | 496 |
| Premature Death | 7,334 | 108 | 1,181 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$48,703 | \$359 | \$3,208 |
| Hospital | 20,656 | 152 | 1,361 |
| Ambulatory | 11,176 | 82 | 736 |
| Nursing Home Care | 7,776 | 57 | 512 |
| Prescriptions | 6,192 | 46 | 408 |
| Home Health | 2,902 | 21 | 191 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 135,663 | 32,324 | 27,500 | 55,500 |
| Male | 67,713 | 16,523 | 14,678 | 27,528 | 8,984 |
| Female | 67,950 | 15,801 | 12,822 | 27,972 | 11,355 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 15,182 | 13.1 | 34,342 | 29.7 | 65,929 | 57.1 | |
| Male | 8,974 | 15.6 | 19,943 | 34.8 | 28,440 | 49.6 | |
| Female | 6,208 | 10.7 | 14,399 | 24.8 | 37,489 | 64.5 | |
| Age 12-17 | 763 | 6.3 | 949 | 7.8 | 10,402 | 85.9 | |
| Male | 498 | 8.1 | 538 | 8.7 | 5,130 | 83.2 | |
| Female | 266 | 4.5 | 411 | 6.9 | 5,272 | 88.6 | |
| Age 18+ | 14,418 | 14.0 | 33,393 | 32.3 | 55,527 | 53.7 | |
| Male | 8,476 | 16.6 | 19,405 | 37.9 | 23,310 | 45.5 | |
| Female | 5,942 | 11.4 | 13,988 | 26.8 | 32,218 | 61.8 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 1,224 | 187 | 15.3 | |
| Male | 647 | 108 | 16.7 | |
| Female | 577 | 80 | 13.8 | |



Napa

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,670 | 15.5 | |
| Female | 1,266 | 15.9 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 20,583 | 190,971 | |
| Female | 7,334 | 92,009 | |

Nevada

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$66,931 | \$680 | \$5,732 |
| Direct | 39,188 | 398 | 3,356 |
| Lost Productivity | 27,743 | 282 | 2,376 |
| Illness | 4,541 | 46 | 389 |
| Premature Death | 23,203 | 236 | 1,987 |
| Male | \$39,911 | \$819 | \$6,447 |
| Direct | 21,607 | 444 | 3,490 |
| Lost Productivity | 18,304 | 376 | 2,957 |
| Illness | 2,495 | 51 | 403 |
| Premature Death | 15,810 | 325 | 2,554 |
| Female | \$27,020 | \$544 | \$4,926 |
| Direct | 17,581 | 354 | 3,205 |
| Lost Productivity | 9,439 | 190 | 1,721 |
| Illness | 2,046 | 41 | 373 |
| Premature Death | 7,393 | 149 | 1,348 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$39,188 | \$398 | \$3,356 |
| Hospital | 14,106 | 143 | 1,208 |
| Ambulatory | 8,782 | 89 | 752 |
| Nursing Home Care | 8,256 | 84 | 707 |
| Prescriptions | 5,220 | 53 | 447 |
| Home Health | 2,824 | 29 | 242 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|--------|--------|--------|
| | Total | 98,431 | 19,969 | 15,580 | 43,986 |
| Male | 48,718 | 10,312 | 8,242 | 21,423 | 8,742 |
| Female | 49,713 | 9,656 | 7,339 | 22,563 | 10,155 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 11,677 | 13.5 | 21,437 | 24.7 | 53,521 | 61.8 | |
| Male | 6,191 | 14.5 | 11,952 | 28.0 | 24,509 | 57.5 | |
| Female | 5,485 | 12.5 | 9,485 | 21.6 | 29,012 | 66.0 | |
| Age 12-17 | 374 | 4.6 | 893 | 10.9 | 6,906 | 84.5 | |
| Male | 265 | 6.2 | 393 | 9.3 | 3,588 | 84.5 | |
| Female | 108 | 2.8 | 499 | 12.7 | 3,318 | 84.5 | |
| Age 18+ | 11,303 | 14.4 | 20,544 | 26.2 | 46,615 | 59.4 | |
| Male | 5,926 | 15.4 | 11,559 | 30.1 | 20,921 | 54.5 | |
| Female | 5,377 | 13.4 | 8,986 | 22.4 | 25,694 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 838 | 138 | 16.5 | |
| Male | 429 | 78 | 18.2 | |
| Female | 409 | 60 | 14.7 | |



Nevada

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,248 | 16.0 | |
| Female | 1,045 | 17.4 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 15,810 | 202,484 | |
| Female | 7,393 | 122,924 | |

Orange

| Cost of Smoking | Amount | Per | Per |
|-------------------|-------------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$1,122,009 | \$374 | \$4,929 |
| Direct | 615,714 | 205 | 2,705 |
| Lost Productivity | 506,295 | 169 | 2,224 |
| Illness | 105,690 | 35 | 464 |
| Premature Death | 400,605 | 134 | 1,760 |
| Male | \$727,104 | \$489 | \$4,824 |
| Direct | 341,260 | 230 | 2,264 |
| Lost Productivity | 385,844 | 260 | 2,560 |
| Illness | 67,438 | 45 | 447 |
| Premature Death | 318,406 | 214 | 2,112 |
| Female | \$394,905 | \$261 | \$5,137 |
| Direct | 274,454 | 181 | 3,570 |
| Lost Productivity | 120,451 | 80 | 1,567 |
| Illness | 38,252 | 25 | 498 |
| Premature Death | 82,199 | 54 | 1,069 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$615,714 | \$205 | \$2,705 |
| Hospital | 254,653 | 85 | 1,119 |
| Ambulatory | 132,955 | 44 | 584 |
| Nursing Home Care | 111,601 | 37 | 490 |
| Prescriptions | 73,357 | 24 | 322 |
| Home Health | 43,148 | 14 | 190 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|-----------|-----------|---------|---------|-----------|
| | Total | 2,998,815 | 739,150 | 709,451 | 1,206,415 |
| Male | 1,486,066 | 378,571 | 364,928 | 594,004 | 148,563 |
| Female | 1,512,749 | 360,579 | 344,523 | 612,411 | 195,235 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 227,618 | 9.0 | 559,462 | 22.2 | 1,734,380 | 68.8 | |
| Male | 150,741 | 12.1 | 313,752 | 25.3 | 777,304 | 62.6 | |
| Female | 76,877 | 6.0 | 245,709 | 19.2 | 957,076 | 74.8 | |
| Age 12-17 | 16,997 | 6.5 | 23,244 | 8.9 | 221,554 | 84.6 | |
| Male | 12,267 | 9.1 | 10,484 | 7.8 | 111,553 | 83.1 | |
| Female | 4,730 | 3.7 | 12,760 | 10.0 | 110,002 | 86.3 | |
| Age 18+ | 210,621 | 9.3 | 536,218 | 23.7 | 1,512,826 | 66.9 | |
| Male | 138,475 | 12.5 | 303,269 | 27.4 | 665,752 | 60.1 | |
| Female | 72,147 | 6.3 | 232,949 | 20.2 | 847,074 | 73.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|--------|----------------|------|---------------|
| | | Number | % | |
| Total | 16,901 | 2,275 | 13.5 | |
| Male | 8,308 | 1,370 | 16.5 | |
| Female | 8,593 | 905 | 10.5 | |



Orange

| | Number | Per | Years of Potential Life Lost |
|--------|----------|-------|-------------------------------------|
| | of Years | Death | |
| Total | 36,837 | 16.2 | |
| Male | 22,804 | 16.6 | |
| Female | 14,034 | 15.5 | |

| | Amount | Per | Lost Productivity from Premature Death |
|--------|-----------|-----------|---|
| | (1,000) | Death | |
| Total | \$400,605 | \$176,093 | |
| Male | 318,406 | 232,408 | |
| Female | 82,199 | 90,835 | |

Placer

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$191,720 | \$557 | \$4,970 |
| Direct | 116,003 | 337 | 3,007 |
| Lost Productivity | 75,717 | 220 | 1,963 |
| Illness | 15,122 | 44 | 392 |
| Premature Death | 60,595 | 176 | 1,571 |
| Male | \$118,408 | \$704 | \$5,869 |
| Direct | 62,689 | 373 | 3,107 |
| Lost Productivity | 55,719 | 331 | 2,762 |
| Illness | 8,132 | 48 | 403 |
| Premature Death | 47,586 | 283 | 2,359 |
| Female | \$73,312 | \$417 | \$3,984 |
| Direct | 53,315 | 303 | 2,897 |
| Lost Productivity | 19,998 | 114 | 1,087 |
| Illness | 6,990 | 40 | 380 |
| Premature Death | 13,008 | 74 | 707 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$116,003 | \$337 | \$3,007 |
| Hospital | 43,403 | 126 | 1,125 |
| Ambulatory | 27,369 | 80 | 709 |
| Nursing Home Care | 21,043 | 61 | 545 |
| Prescriptions | 15,904 | 46 | 412 |
| Home Health | 8,285 | 24 | 215 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|---------|
| | Total | 344,087 | 85,664 | 65,272 | 141,875 |
| Male | 168,120 | 43,702 | 33,114 | 68,671 | 22,633 |
| Female | 175,967 | 41,962 | 32,158 | 73,205 | 28,642 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 38,578 | 13.3 | 70,867 | 24.5 | 179,660 | 62.1 | |
| Male | 20,174 | 14.4 | 38,894 | 27.8 | 80,991 | 57.8 | |
| Female | 18,404 | 12.3 | 31,973 | 21.5 | 98,669 | 66.2 | |
| Age 12-17 | 1,392 | 4.5 | 3,362 | 11.0 | 25,929 | 84.5 | |
| Male | 977 | 6.2 | 1,449 | 9.3 | 13,216 | 84.5 | |
| Female | 415 | 2.8 | 1,913 | 12.7 | 12,713 | 84.5 | |
| Age 18+ | 37,186 | 14.4 | 67,505 | 26.1 | 153,731 | 59.5 | |
| Male | 19,197 | 15.4 | 37,445 | 30.1 | 67,776 | 54.5 | |
| Female | 17,989 | 13.4 | 30,060 | 22.4 | 85,956 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 2,517 | 405 | 16.1 | |
| Male | 1,293 | 241 | 18.6 | |
| Female | 1,224 | 165 | 13.5 | |



Placer

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Total | 6,312 | 15.6 | |
| Male | 3,802 | 15.8 | |
| Female | 2,510 | 15.2 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Total | \$60,595 | \$149,551 | |
| Male | 47,586 | 197,858 | |
| Female | 13,008 | 78,997 | |

Plumas

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$14,037 | \$700 | \$4,777 |
| Direct | 9,437 | 470 | 3,211 |
| Lost Productivity | 4,600 | 229 | 1,566 |
| Illness | 991 | 49 | 337 |
| Premature Death | 3,609 | 180 | 1,228 |
| Male | \$8,135 | \$811 | \$4,587 |
| Direct | 4,908 | 489 | 2,767 |
| Lost Productivity | 3,228 | 322 | 1,820 |
| Illness | 524 | 52 | 295 |
| Premature Death | 2,704 | 270 | 1,525 |
| Female | \$5,902 | \$588 | \$5,066 |
| Direct | 4,529 | 451 | 3,888 |
| Lost Productivity | 1,373 | 137 | 1,178 |
| Illness | 467 | 47 | 401 |
| Premature Death | 905 | 90 | 777 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$9,437 | \$470 | \$3,211 |
| Hospital | 3,379 | 168 | 1,150 |
| Ambulatory | 2,152 | 107 | 732 |
| Nursing Home Care | 1,695 | 84 | 577 |
| Prescriptions | 1,333 | 66 | 454 |
| Home Health | 878 | 44 | 299 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|-------|
| | Total | 20,062 | 3,776 | 3,111 | 8,987 |
| Male | 10,026 | 1,924 | 1,638 | 4,389 | 2,075 |
| Female | 10,036 | 1,852 | 1,474 | 4,598 | 2,113 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 2,939 | 16.5 | 4,759 | 26.7 | 10,114 | 56.8 | |
| Male | 1,774 | 20.0 | 2,536 | 28.6 | 4,570 | 51.5 | |
| Female | 1,165 | 13.0 | 2,223 | 24.9 | 5,543 | 62.1 | |
| Age 12-17 | 94 | 6.1 | 218 | 14.3 | 1,214 | 79.6 | |
| Male | 55 | 7.0 | 106 | 13.6 | 618 | 79.4 | |
| Female | 39 | 5.2 | 112 | 15.0 | 596 | 79.8 | |
| Age 18+ | 2,845 | 17.5 | 4,541 | 27.9 | 8,900 | 54.6 | |
| Male | 1,719 | 21.2 | 2,430 | 30.0 | 3,952 | 48.8 | |
| Female | 1,126 | 13.8 | 2,111 | 25.8 | 4,947 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 220 | 33 | 14.8 | |
| Male | 122 | 20 | 16.2 | |
| Female | 98 | 13 | 13.0 | |



Plumas

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 286 | 14.4 | |
| Female | 198 | 15.5 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 2,704 | 136,686 | |
| Female | 905 | 70,860 | |

Riverside

| Cost of Smoking | Amount | Per | Per |
|-------------------|-------------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$1,251,715 | \$580 | \$4,704 |
| Direct | 667,937 | 309 | 2,510 |
| Lost Productivity | 583,778 | 270 | 2,194 |
| Illness | 89,525 | 41 | 336 |
| Premature Death | 494,253 | 229 | 1,857 |
| Male | \$801,455 | \$747 | \$5,443 |
| Direct | 377,221 | 351 | 2,562 |
| Lost Productivity | 424,233 | 395 | 2,881 |
| Illness | 51,646 | 48 | 351 |
| Premature Death | 372,587 | 347 | 2,531 |
| Female | \$450,260 | \$415 | \$3,788 |
| Direct | 290,715 | 268 | 2,446 |
| Lost Productivity | 159,545 | 147 | 1,342 |
| Illness | 37,879 | 35 | 319 |
| Premature Death | 121,666 | 112 | 1,024 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$667,937 | \$309 | \$2,510 |
| Hospital | 265,292 | 123 | 997 |
| Ambulatory | 145,446 | 67 | 547 |
| Nursing Home Care | 111,109 | 51 | 418 |
| Prescriptions | 85,628 | 40 | 322 |
| Home Health | 60,460 | 28 | 227 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|-----------|-----------|---------|---------|---------|
| | Total | 2,158,398 | 626,281 | 496,791 | 781,378 |
| Male | 1,073,424 | 319,590 | 251,959 | 388,579 | 113,297 |
| Female | 1,084,974 | 306,691 | 244,831 | 392,800 | 140,652 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 266,100 | 15.1 | 380,246 | 21.6 | 1,110,391 | 63.2 | |
| Male | 147,234 | 16.9 | 213,937 | 24.6 | 507,572 | 58.4 | |
| Female | 118,866 | 13.4 | 166,309 | 18.7 | 602,820 | 67.9 | |
| Age 12-17 | 6,080 | 2.7 | 27,708 | 12.3 | 190,832 | 85.0 | |
| Male | 4,373 | 3.8 | 15,667 | 13.6 | 94,867 | 82.6 | |
| Female | 1,707 | 1.6 | 12,041 | 11.0 | 95,965 | 87.5 | |
| Age 18+ | 260,020 | 17.0 | 352,538 | 23.0 | 919,559 | 60.0 | |
| Male | 142,861 | 19.0 | 198,270 | 26.3 | 412,704 | 54.7 | |
| Female | 117,160 | 15.1 | 154,268 | 19.8 | 506,855 | 65.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|--------|----------------|------|---------------|
| | | Number | % | |
| Total | 13,769 | 2,439 | 17.7 | |
| Male | 7,171 | 1,444 | 20.1 | |
| Female | 6,598 | 994 | 15.1 | |



Riverside

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| Total | 42,249 | 17.3 | |
| Male | 25,152 | 17.4 | |
| Female | 17,096 | 17.2 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| Total | \$494,253 | \$202,684 | |
| Male | 372,587 | 257,967 | |
| Female | 121,666 | 122,374 | |

Sacramento

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$790,670 | \$560 | \$4,386 |
| Direct | 416,692 | 295 | 2,311 |
| Lost Productivity | 373,978 | 265 | 2,074 |
| Illness | 57,368 | 41 | 318 |
| Premature Death | 316,610 | 224 | 1,756 |
| Male | \$476,355 | \$689 | \$4,720 |
| Direct | 219,634 | 318 | 2,176 |
| Lost Productivity | 256,721 | 371 | 2,544 |
| Illness | 30,702 | 44 | 304 |
| Premature Death | 226,020 | 327 | 2,240 |
| Female | \$314,315 | \$437 | \$3,961 |
| Direct | 197,058 | 274 | 2,483 |
| Lost Productivity | 117,257 | 163 | 1,478 |
| Illness | 26,667 | 37 | 336 |
| Premature Death | 90,590 | 126 | 1,142 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$416,692 | \$295 | \$2,311 |
| Hospital | 192,811 | 137 | 1,070 |
| Ambulatory | 89,905 | 64 | 499 |
| Nursing Home Care | 52,875 | 37 | 293 |
| Prescriptions | 49,888 | 35 | 277 |
| Home Health | 31,213 | 22 | 173 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|-----------|---------|---------|---------|
| | Total | 1,411,402 | 363,848 | 344,798 | 545,767 |
| Male | 691,550 | 186,442 | 172,706 | 266,120 | 66,283 |
| Female | 719,852 | 177,407 | 172,093 | 279,647 | 90,705 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 180,279 | 15.4 | 242,234 | 20.7 | 749,237 | 63.9 | |
| Male | 100,923 | 17.7 | 136,814 | 24.0 | 331,495 | 58.2 | |
| Female | 79,355 | 13.2 | 105,420 | 17.5 | 417,742 | 69.3 | |
| Age 12-17 | 10,709 | 8.6 | 16,676 | 13.4 | 96,810 | 77.9 | |
| Male | 7,469 | 11.6 | 13,853 | 21.6 | 42,803 | 66.7 | |
| Female | 3,240 | 5.4 | 2,823 | 4.7 | 54,008 | 89.9 | |
| Age 18+ | 169,569 | 16.2 | 225,558 | 21.5 | 652,427 | 62.3 | |
| Male | 93,455 | 18.5 | 122,961 | 24.3 | 288,693 | 57.2 | |
| Female | 76,115 | 14.0 | 102,596 | 18.9 | 363,734 | 67.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 9,770 | 1,487 | 15.2 | |
| Male | 4,880 | 812 | 16.6 | |
| Female | 4,890 | 675 | 13.8 | |



Sacramento

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| Total | 26,534 | 17.8 | |
| Male | 14,542 | 17.9 | |
| Female | 11,992 | 17.8 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| Total | \$316,610 | \$212,899 | |
| Male | 226,020 | 278,377 | |
| Female | 90,590 | 134,165 | |

San Benito

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$26,292 | \$477 | \$5,365 |
| Direct | 13,868 | 252 | 2,830 |
| Lost Productivity | 12,424 | 226 | 2,535 |
| Illness | 2,077 | 38 | 424 |
| Premature Death | 10,347 | 188 | 2,111 |
| Male | \$17,717 | \$642 | \$4,784 |
| Direct | 7,870 | 285 | 2,125 |
| Lost Productivity | 9,848 | 357 | 2,659 |
| Illness | 1,288 | 47 | 348 |
| Premature Death | 8,560 | 310 | 2,311 |
| Female | \$8,575 | \$312 | \$7,161 |
| Direct | 5,999 | 218 | 5,010 |
| Lost Productivity | 2,576 | 94 | 2,151 |
| Illness | 789 | 29 | 659 |
| Premature Death | 1,787 | 65 | 1,493 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$13,868 | \$252 | \$2,830 |
| Hospital | 6,577 | 119 | 1,342 |
| Ambulatory | 2,798 | 51 | 571 |
| Nursing Home Care | 2,023 | 37 | 413 |
| Prescriptions | 1,512 | 27 | 309 |
| Home Health | 958 | 17 | 195 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|--------|--------|--------|
| | Total | 55,092 | 16,074 | 12,001 | 21,793 |
| Male | 27,601 | 8,226 | 6,156 | 10,829 | 2,389 |
| Female | 27,491 | 7,848 | 5,845 | 10,963 | 2,835 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 4,901 | 11.0 | 10,077 | 22.5 | 29,769 | 66.5 | |
| Male | 3,704 | 16.6 | 5,706 | 25.6 | 12,893 | 57.8 | |
| Female | 1,197 | 5.3 | 4,371 | 19.5 | 16,876 | 75.2 | |
| Age 12-17 | 253 | 4.4 | 679 | 11.8 | 4,798 | 83.7 | |
| Male | 183 | 6.2 | 272 | 9.3 | 2,473 | 84.5 | |
| Female | 70 | 2.5 | 406 | 14.5 | 2,325 | 83.0 | |
| Age 18+ | 4,648 | 11.9 | 9,398 | 24.1 | 24,971 | 64.0 | |
| Male | 3,521 | 18.2 | 5,434 | 28.0 | 10,420 | 53.8 | |
| Female | 1,127 | 5.7 | 3,965 | 20.2 | 14,551 | 74.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 271 | 46 | 16.9 | |
| Male | 153 | 32 | 20.8 | |
| Female | 118 | 14 | 11.9 | |



San Benito

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 575 | 18.1 | |
| Female | 241 | 17.1 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 8,560 | 269,034 | |
| Female | 1,787 | 127,087 | |

San Bernardino

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$974,858 | \$482 | \$4,373 |
| Direct | 472,138 | 233 | 2,118 |
| Lost Productivity | 502,720 | 249 | 2,255 |
| Illness | 76,670 | 38 | 344 |
| Premature Death | 426,050 | 211 | 1,911 |
| Male | \$620,598 | \$617 | \$3,914 |
| Direct | 263,596 | 262 | 1,662 |
| Lost Productivity | 357,002 | 355 | 2,252 |
| Illness | 46,717 | 46 | 295 |
| Premature Death | 310,285 | 308 | 1,957 |
| Female | \$354,260 | \$349 | \$5,505 |
| Direct | 208,542 | 205 | 3,241 |
| Lost Productivity | 145,718 | 143 | 2,264 |
| Illness | 29,953 | 29 | 465 |
| Premature Death | 115,765 | 114 | 1,799 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$472,138 | \$233 | \$2,118 |
| Hospital | 216,260 | 107 | 970 |
| Ambulatory | 104,235 | 52 | 468 |
| Nursing Home Care | 54,425 | 27 | 244 |
| Prescriptions | 57,823 | 29 | 259 |
| Home Health | 39,395 | 19 | 177 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|-----------|-----------|---------|---------|---------|
| | Total | 2,022,318 | 596,750 | 502,684 | 743,540 |
| Male | 1,006,601 | 305,770 | 256,867 | 365,412 | 78,551 |
| Female | 1,015,717 | 290,980 | 245,817 | 378,128 | 100,792 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 222,907 | 13.6 | 365,383 | 22.3 | 1,052,236 | 64.1 | |
| Male | 158,556 | 19.5 | 194,560 | 24.0 | 457,988 | 56.5 | |
| Female | 64,351 | 7.8 | 170,824 | 20.6 | 594,248 | 71.6 | |
| Age 12-17 | 8,657 | 4.0 | 17,907 | 8.3 | 188,394 | 87.6 | |
| Male | 6,598 | 6.0 | 12,984 | 11.8 | 90,690 | 82.2 | |
| Female | 2,059 | 2.0 | 4,923 | 4.7 | 97,704 | 93.3 | |
| Age 18+ | 214,250 | 15.0 | 347,476 | 24.4 | 863,841 | 60.6 | |
| Male | 151,958 | 21.7 | 181,575 | 25.9 | 367,298 | 52.4 | |
| Female | 62,293 | 8.6 | 165,901 | 22.9 | 496,544 | 68.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|--------|----------------|------|---------------|
| | | Number | % | |
| Total | 11,869 | 1,899 | 16.0 | |
| Male | 6,227 | 1,102 | 17.7 | |
| Female | 5,642 | 797 | 14.1 | |



San Bernardino

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 20,081 | 18.2 | |
| Female | 14,552 | 18.3 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 310,285 | 281,598 | |
| Female | 115,765 | 145,244 | |

San Diego

| Cost of Smoking | Amount | Per | Per |
|-------------------|-------------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$1,458,123 | \$474 | \$4,638 |
| Direct | 813,490 | 264 | 2,587 |
| Lost Productivity | 644,633 | 209 | 2,050 |
| Illness | 118,904 | 39 | 378 |
| Premature Death | 525,729 | 171 | 1,672 |
| Male | \$955,549 | \$618 | \$4,777 |
| Direct | 485,216 | 314 | 2,426 |
| Lost Productivity | 470,333 | 304 | 2,351 |
| Illness | 68,421 | 44 | 342 |
| Premature Death | 401,912 | 260 | 2,009 |
| Female | \$502,574 | \$328 | \$4,394 |
| Direct | 328,274 | 214 | 2,870 |
| Lost Productivity | 174,300 | 114 | 1,524 |
| Illness | 50,483 | 33 | 441 |
| Premature Death | 123,817 | 81 | 1,083 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$813,490 | \$264 | \$2,587 |
| Hospital | 357,047 | 116 | 1,136 |
| Ambulatory | 192,204 | 62 | 611 |
| Nursing Home Care | 92,530 | 30 | 294 |
| Prescriptions | 104,295 | 34 | 332 |
| Home Health | 67,414 | 22 | 214 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|-----------|-----------|---------|---------|-----------|
| | Total | 3,077,632 | 707,815 | 839,547 | 1,181,845 |
| Male | 1,546,121 | 360,141 | 448,253 | 586,783 | 150,944 |
| Female | 1,531,511 | 347,675 | 391,293 | 595,062 | 197,481 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 314,399 | 12.1 | 595,070 | 22.8 | 1,696,520 | 65.1 | |
| Male | 200,033 | 15.3 | 329,125 | 25.2 | 777,288 | 59.5 | |
| Female | 114,366 | 8.8 | 265,945 | 20.5 | 919,232 | 70.7 | |
| Age 12-17 | 7,975 | 3.4 | 27,864 | 11.8 | 200,334 | 84.8 | |
| Male | 4,614 | 3.8 | 16,047 | 13.3 | 99,806 | 82.8 | |
| Female | 3,361 | 2.9 | 11,817 | 10.2 | 100,528 | 86.9 | |
| Age 18+ | 306,425 | 12.9 | 567,206 | 23.9 | 1,496,186 | 63.1 | |
| Male | 195,420 | 16.5 | 313,077 | 26.4 | 677,483 | 57.1 | |
| Female | 111,005 | 9.4 | 254,128 | 21.5 | 818,704 | 69.2 | |

| | Total | Due to Smoking | | Deaths |
|--------|--------|----------------|------|---------------|
| | | Number | % | |
| Total | 19,075 | 2,753 | 14.4 | |
| Male | 9,780 | 1,681 | 17.2 | |
| Female | 9,295 | 1,072 | 11.5 | |



San Diego

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 28,255 | 16.8 | |
| Female | 17,757 | 16.6 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 401,912 | 239,161 | |
| Female | 123,817 | 115,471 | |

San Francisco

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$380,164 | \$474 | \$4,739 |
| Direct | 213,645 | 266 | 2,663 |
| Lost Productivity | 166,519 | 208 | 2,076 |
| Illness | 33,272 | 41 | 415 |
| Premature Death | 133,248 | 166 | 1,661 |
| Male | \$293,289 | \$721 | \$4,583 |
| Direct | 157,144 | 386 | 2,456 |
| Lost Productivity | 136,145 | 335 | 2,127 |
| Illness | 22,768 | 56 | 356 |
| Premature Death | 113,377 | 279 | 1,772 |
| Female | \$86,875 | \$220 | \$5,354 |
| Direct | 56,501 | 143 | 3,482 |
| Lost Productivity | 30,374 | 77 | 1,872 |
| Illness | 10,504 | 27 | 647 |
| Premature Death | 19,871 | 50 | 1,225 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$213,645 | \$266 | \$2,663 |
| Hospital | 102,540 | 128 | 1,278 |
| Ambulatory | 40,315 | 50 | 503 |
| Nursing Home Care | 35,500 | 44 | 443 |
| Prescriptions | 20,795 | 26 | 259 |
| Home Health | 14,496 | 18 | 181 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 801,798 | 104,765 | 246,244 | 341,443 |
| Male | 406,809 | 53,163 | 123,563 | 182,744 | 47,339 |
| Female | 394,989 | 51,602 | 122,681 | 158,699 | 62,008 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 80,220 | 11.0 | 169,746 | 23.3 | 478,511 | 65.7 | |
| Male | 63,994 | 17.3 | 96,619 | 26.2 | 208,856 | 56.5 | |
| Female | 16,225 | 4.5 | 73,127 | 20.4 | 269,655 | 75.1 | |
| Age 12-17 | 226 | 0.7 | 6,665 | 21.2 | 24,552 | 78.1 | |
| Male | 51 | 0.3 | 3,078 | 19.5 | 12,694 | 80.2 | |
| Female | 175 | 1.1 | 3,587 | 23.0 | 11,859 | 75.9 | |
| Age 18+ | 79,994 | 11.5 | 163,081 | 23.4 | 453,958 | 65.1 | |
| Male | 63,943 | 18.1 | 93,541 | 26.5 | 196,162 | 55.5 | |
| Female | 16,051 | 4.7 | 69,540 | 20.3 | 257,796 | 75.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 5,541 | 668 | 12.1 | |
| Male | 2,898 | 487 | 16.8 | |
| Female | 2,643 | 181 | 6.8 | |



San Francisco

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Total | 11,052 | 16.5 | |
| Male | 8,149 | 16.7 | |
| Female | 2,904 | 16.0 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Total | \$133,248 | \$199,443 | |
| Male | 113,377 | 232,730 | |
| Female | 19,871 | 109,820 | |

San Joaquin

| Cost of Smoking | | Amount | Per | Per |
|-------------------|--|-----------|----------|---------|
| | | (1,000) | Resident | Smoker |
| Total | | \$395,397 | \$581 | \$5,475 |
| Direct | | 204,351 | 300 | 2,830 |
| Lost Productivity | | 191,046 | 281 | 2,645 |
| Illness | | 27,610 | 41 | 382 |
| Premature Death | | 163,436 | 240 | 2,263 |
| Male | | \$245,246 | \$723 | \$6,353 |
| Direct | | 110,643 | 326 | 2,866 |
| Lost Productivity | | 134,603 | 397 | 3,487 |
| Illness | | 15,001 | 44 | 389 |
| Premature Death | | 119,603 | 353 | 3,098 |
| Female | | \$150,151 | \$440 | \$4,467 |
| Direct | | 93,708 | 274 | 2,788 |
| Lost Productivity | | 56,442 | 165 | 1,679 |
| Illness | | 12,609 | 37 | 375 |
| Premature Death | | 43,834 | 128 | 1,304 |

| Direct Cost of Smoking | | Amount | Per | Per |
|------------------------|--|-----------|----------|---------|
| | | (1,000) | Resident | Smoker |
| Total | | \$204,351 | \$300 | \$2,830 |
| Hospital | | 88,221 | 130 | 1,222 |
| Ambulatory | | 46,370 | 68 | 642 |
| Nursing Home Care | | 30,602 | 45 | 424 |
| Prescriptions | | 26,144 | 38 | 362 |
| Home Health | | 13,013 | 19 | 180 |

| Population 2009 | | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|-------|----------|---------|---------|---------|---------|
| | Total | | 680,420 | 201,478 | 159,510 | 249,221 |
| Male | | 338,975 | 103,459 | 81,849 | 123,483 | 30,183 |
| Female | | 341,445 | 98,019 | 77,661 | 125,737 | 40,028 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 72,219 | 13.2 | 133,165 | 24.2 | 343,776 | 62.6 | |
| Male | 38,605 | 14.2 | 74,241 | 27.3 | 158,938 | 58.5 | |
| Female | 33,614 | 12.1 | 58,924 | 21.2 | 184,837 | 66.6 | |
| Age 12-17 | 3,202 | 4.6 | 7,678 | 10.9 | 59,337 | 84.5 | |
| Male | 2,266 | 6.2 | 3,360 | 9.3 | 30,642 | 84.5 | |
| Female | 936 | 2.8 | 4,318 | 12.7 | 28,695 | 84.5 | |
| Age 18+ | 69,017 | 14.4 | 125,487 | 26.2 | 284,438 | 59.4 | |
| Male | 36,339 | 15.4 | 70,881 | 30.1 | 128,296 | 54.5 | |
| Female | 32,678 | 13.4 | 54,606 | 22.4 | 156,142 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 4,494 | 705 | 15.7 | |
| Male | 2,304 | 409 | 17.8 | |
| Female | 2,190 | 295 | 13.5 | |



San Joaquin

| | Number | Per | Years of Potential Life Lost |
|--------|----------|-------|-------------------------------------|
| | of Years | Death | |
| Total | 12,884 | 18.3 | |
| Male | 7,487 | 18.3 | |
| Female | 5,397 | 18.3 | |

| | Amount | Per | Lost Productivity from Premature Death |
|--------|-----------|-----------|---|
| | (1,000) | Death | |
| Total | \$163,436 | \$231,943 | |
| Male | 119,603 | 292,212 | |
| Female | 43,834 | 148,418 | |

San Luis Obispo

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$123,633 | \$461 | \$4,872 |
| Direct | 71,465 | 266 | 2,816 |
| Lost Productivity | 52,167 | 194 | 2,056 |
| Illness | 10,712 | 40 | 422 |
| Premature Death | 41,456 | 155 | 1,634 |
| Male | \$76,465 | \$557 | \$4,882 |
| Direct | 39,348 | 286 | 2,512 |
| Lost Productivity | 37,117 | 270 | 2,370 |
| Illness | 6,438 | 47 | 411 |
| Premature Death | 30,679 | 223 | 1,959 |
| Female | \$47,168 | \$361 | \$4,857 |
| Direct | 32,117 | 245 | 3,307 |
| Lost Productivity | 15,050 | 115 | 1,550 |
| Illness | 4,274 | 33 | 440 |
| Premature Death | 10,776 | 82 | 1,110 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$71,465 | \$266 | \$2,816 |
| Hospital | 26,133 | 97 | 1,030 |
| Ambulatory | 17,595 | 66 | 693 |
| Nursing Home Care | 12,727 | 47 | 502 |
| Prescriptions | 9,909 | 37 | 391 |
| Home Health | 5,101 | 19 | 201 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|---------|
| | Total | 268,223 | 49,841 | 72,634 | 105,551 |
| Male | 137,391 | 25,388 | 40,161 | 53,895 | 17,948 |
| Female | 130,832 | 24,453 | 32,473 | 51,656 | 22,249 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 25,374 | 10.7 | 58,644 | 24.8 | 152,789 | 64.5 | |
| Male | 15,663 | 12.9 | 34,900 | 28.7 | 70,882 | 58.4 | |
| Female | 9,711 | 8.4 | 23,744 | 20.6 | 81,907 | 71.0 | |
| Age 12-17 | 621 | 3.4 | 1,500 | 8.1 | 16,303 | 88.5 | |
| Male | 292 | 3.1 | 1,169 | 12.4 | 7,980 | 84.5 | |
| Female | 329 | 3.7 | 331 | 3.7 | 8,323 | 92.6 | |
| Age 18+ | 24,753 | 11.3 | 57,143 | 26.2 | 136,486 | 62.5 | |
| Male | 15,371 | 13.7 | 33,731 | 30.1 | 62,902 | 56.2 | |
| Female | 9,382 | 8.8 | 23,413 | 22.0 | 73,584 | 69.2 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 2,075 | 302 | 14.5 | |
| Male | 1,031 | 170 | 16.5 | |
| Female | 1,044 | 132 | 12.6 | |



San Luis Obispo

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 2,618 | 15.4 | |
| Female | 1,997 | 15.1 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 30,679 | 180,793 | |
| Female | 10,776 | 81,716 | |

San Mateo

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$375,791 | \$525 | \$4,034 |
| Direct | 238,408 | 333 | 2,559 |
| Lost Productivity | 137,383 | 192 | 1,475 |
| Illness | 29,556 | 41 | 317 |
| Premature Death | 107,828 | 151 | 1,158 |
| Male | \$246,357 | \$699 | \$3,706 |
| Direct | 145,925 | 414 | 2,195 |
| Lost Productivity | 100,433 | 285 | 1,511 |
| Illness | 17,077 | 48 | 257 |
| Premature Death | 83,355 | 237 | 1,254 |
| Female | \$129,433 | \$356 | \$4,851 |
| Direct | 92,483 | 254 | 3,466 |
| Lost Productivity | 36,951 | 102 | 1,385 |
| Illness | 12,479 | 34 | 468 |
| Premature Death | 24,472 | 67 | 917 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$238,408 | \$333 | \$2,559 |
| Hospital | 109,056 | 152 | 1,171 |
| Ambulatory | 50,573 | 71 | 543 |
| Nursing Home Care | 34,889 | 49 | 375 |
| Prescriptions | 27,186 | 38 | 292 |
| Home Health | 16,704 | 23 | 179 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 716,263 | 159,236 | 154,711 | 307,269 |
| Male | 352,328 | 81,406 | 79,941 | 150,608 | 40,372 |
| Female | 363,935 | 77,830 | 74,770 | 156,660 | 54,675 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 93,152 | 15.3 | 129,415 | 21.3 | 385,553 | 63.4 | |
| Male | 66,469 | 22.4 | 64,194 | 21.6 | 166,391 | 56.0 | |
| Female | 26,682 | 8.6 | 65,221 | 21.0 | 219,161 | 70.5 | |
| Age 12-17 | 2,661 | 5.2 | 5,496 | 10.8 | 42,935 | 84.0 | |
| Male | 822 | 3.1 | 2,786 | 10.7 | 22,525 | 86.2 | |
| Female | 1,839 | 7.4 | 2,709 | 10.9 | 20,410 | 81.8 | |
| Age 18+ | 90,491 | 16.2 | 123,919 | 22.2 | 342,618 | 61.5 | |
| Male | 65,648 | 24.2 | 61,408 | 22.7 | 143,866 | 53.1 | |
| Female | 24,843 | 8.7 | 62,511 | 21.8 | 198,751 | 69.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 4,491 | 664 | 14.8 | |
| Male | 2,225 | 379 | 17.0 | |
| Female | 2,266 | 284 | 12.5 | |



San Mateo

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 6,116 | 16.1 | |
| Female | 4,472 | 15.7 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 83,355 | 220 | |
| Female | 24,472 | 86 | |

Santa Barbara

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$180,882 | \$428 | \$4,784 |
| Direct | 102,339 | 242 | 2,707 |
| Lost Productivity | 78,543 | 186 | 2,077 |
| Illness | 15,676 | 37 | 415 |
| Premature Death | 62,867 | 149 | 1,663 |
| Male | \$111,851 | \$527 | \$4,898 |
| Direct | 55,755 | 263 | 2,441 |
| Lost Productivity | 56,096 | 264 | 2,456 |
| Illness | 9,237 | 44 | 404 |
| Premature Death | 46,858 | 221 | 2,052 |
| Female | \$69,032 | \$328 | \$4,610 |
| Direct | 46,585 | 222 | 3,111 |
| Lost Productivity | 22,447 | 107 | 1,499 |
| Illness | 6,439 | 31 | 430 |
| Premature Death | 16,008 | 76 | 1,069 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$102,339 | \$242 | \$2,707 |
| Hospital | 40,145 | 95 | 1,062 |
| Ambulatory | 24,971 | 59 | 660 |
| Nursing Home Care | 16,358 | 39 | 433 |
| Prescriptions | 13,862 | 33 | 367 |
| Home Health | 7,004 | 17 | 185 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|---------|---------|
| | Total | 422,422 | 97,138 | 120,506 | 150,898 |
| Male | 212,127 | 49,688 | 63,373 | 75,659 | 23,408 |
| Female | 210,295 | 47,450 | 57,133 | 75,240 | 30,472 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 37,811 | 10.5 | 87,558 | 24.3 | 234,217 | 65.1 | |
| Male | 22,838 | 12.7 | 51,103 | 28.4 | 106,130 | 58.9 | |
| Female | 14,973 | 8.3 | 36,454 | 20.3 | 128,087 | 71.4 | |
| Age 12-17 | 1,156 | 3.4 | 2,798 | 8.2 | 30,347 | 88.5 | |
| Male | 545 | 3.1 | 2,183 | 12.4 | 14,903 | 84.5 | |
| Female | 611 | 3.7 | 614 | 3.7 | 15,444 | 92.6 | |
| Age 18+ | 36,654 | 11.3 | 84,760 | 26.1 | 203,870 | 62.7 | |
| Male | 22,292 | 13.7 | 48,920 | 30.1 | 91,227 | 56.2 | |
| Female | 14,362 | 8.8 | 35,840 | 22.0 | 112,643 | 69.2 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 2,840 | 395 | 13.9 | |
| Male | 1,426 | 216 | 15.2 | |
| Female | 1,414 | 179 | 12.7 | |



Santa Barbara

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 3,494 | 16.2 | |
| Female | 2,739 | 15.3 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 46,858 | 216,882 | |
| Female | 16,008 | 89,304 | |

Santa Clara

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$689,796 | \$389 | \$3,414 |
| Direct | 431,813 | 243 | 2,137 |
| Lost Productivity | 257,984 | 145 | 1,277 |
| Illness | 64,111 | 36 | 317 |
| Premature Death | 193,873 | 109 | 960 |
| Male | \$486,925 | \$546 | \$3,727 |
| Direct | 290,182 | 325 | 2,221 |
| Lost Productivity | 196,743 | 220 | 1,506 |
| Illness | 38,775 | 43 | 297 |
| Premature Death | 157,968 | 177 | 1,209 |
| Female | \$202,872 | \$230 | \$2,840 |
| Direct | 141,631 | 160 | 1,983 |
| Lost Productivity | 61,241 | 69 | 857 |
| Illness | 25,336 | 29 | 355 |
| Premature Death | 35,905 | 41 | 503 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$431,813 | \$243 | \$2,137 |
| Hospital | 196,397 | 111 | 972 |
| Ambulatory | 90,247 | 51 | 447 |
| Nursing Home Care | 64,694 | 36 | 320 |
| Prescriptions | 50,630 | 29 | 251 |
| Home Health | 29,844 | 17 | 148 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|-----------|---------|---------|---------|
| | Total | 1,774,889 | 430,094 | 424,886 | 725,338 |
| Male | 892,288 | 220,288 | 221,444 | 365,785 | 84,770 |
| Female | 882,601 | 209,806 | 203,442 | 359,553 | 109,801 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 202,055 | 13.6 | 271,792 | 18.3 | 1,007,798 | 68.0 | |
| Male | 130,632 | 17.6 | 139,829 | 18.8 | 471,922 | 63.6 | |
| Female | 71,423 | 9.7 | 131,962 | 17.9 | 535,875 | 72.5 | |
| Age 12-17 | 13,245 | 9.7 | 10,861 | 7.9 | 112,744 | 82.4 | |
| Male | 6,065 | 8.6 | 5,440 | 7.7 | 58,880 | 83.7 | |
| Female | 7,180 | 10.8 | 5,421 | 8.2 | 53,864 | 81.0 | |
| Age 18+ | 188,810 | 14.0 | 260,931 | 19.4 | 895,054 | 66.6 | |
| Male | 124,568 | 18.5 | 134,389 | 20.0 | 413,042 | 61.5 | |
| Female | 64,243 | 9.5 | 126,541 | 18.8 | 482,012 | 71.6 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 8,927 | 1,119 | 12.5 | |
| Male | 4,459 | 729 | 16.3 | |
| Female | 4,468 | 391 | 8.7 | |



Santa Clara

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 11,704 | 16.1 | |
| Female | 6,106 | 15.6 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 157,968 | 216,749 | |
| Female | 35,905 | 91,911 | |

Santa Cruz

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$136,011 | \$519 | \$5,323 |
| Direct | 73,842 | 282 | 2,890 |
| Lost Productivity | 62,169 | 237 | 2,433 |
| Illness | 10,451 | 40 | 409 |
| Premature Death | 51,718 | 197 | 2,024 |
| Male | \$88,430 | \$676 | \$4,580 |
| Direct | 41,533 | 318 | 2,151 |
| Lost Productivity | 46,897 | 359 | 2,429 |
| Illness | 6,547 | 50 | 339 |
| Premature Death | 40,350 | 309 | 2,090 |
| Female | \$47,581 | \$363 | \$7,622 |
| Direct | 32,309 | 246 | 5,176 |
| Lost Productivity | 15,272 | 116 | 2,446 |
| Illness | 3,904 | 30 | 625 |
| Premature Death | 11,368 | 87 | 1,821 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$73,842 | \$282 | \$2,890 |
| Hospital | 35,097 | 134 | 1,374 |
| Ambulatory | 14,355 | 55 | 562 |
| Nursing Home Care | 11,673 | 45 | 457 |
| Prescriptions | 7,760 | 30 | 304 |
| Home Health | 4,958 | 19 | 194 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|---------|
| | Total | 261,911 | 54,196 | 70,973 | 108,268 |
| Male | 130,734 | 27,757 | 36,558 | 54,088 | 12,331 |
| Female | 131,176 | 26,440 | 34,415 | 54,180 | 16,142 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 25,551 | 11.3 | 52,251 | 23.1 | 148,710 | 65.7 | |
| Male | 19,308 | 17.2 | 29,765 | 26.5 | 63,421 | 56.4 | |
| Female | 6,243 | 5.5 | 22,485 | 19.7 | 85,289 | 74.8 | |
| Age 12-17 | 826 | 4.4 | 2,231 | 11.9 | 15,740 | 83.7 | |
| Male | 593 | 6.2 | 885 | 9.3 | 8,039 | 84.5 | |
| Female | 232 | 2.5 | 1,346 | 14.5 | 7,702 | 83.0 | |
| Age 18+ | 24,725 | 11.9 | 50,020 | 24.1 | 132,970 | 64.0 | |
| Male | 18,715 | 18.2 | 28,881 | 28.0 | 55,382 | 53.8 | |
| Female | 6,010 | 5.7 | 21,139 | 20.2 | 77,588 | 74.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 1,700 | 251 | 14.7 | |
| Male | 858 | 146 | 17.0 | |
| Female | 842 | 105 | 12.4 | |



Santa Cruz

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 2,622 | 17.9 | |
| Female | 1,700 | 16.3 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 40,350 | 276,088 | |
| Female | 11,368 | 108,750 | |

Shasta

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$148,643 | \$840 | \$6,050 |
| Direct | 75,742 | 428 | 3,083 |
| Lost Productivity | 72,901 | 412 | 2,967 |
| Illness | 8,240 | 47 | 335 |
| Premature Death | 64,661 | 366 | 2,632 |
| Male | \$91,262 | \$1,050 | \$6,285 |
| Direct | 40,271 | 463 | 2,773 |
| Lost Productivity | 50,990 | 587 | 3,512 |
| Illness | 4,307 | 50 | 297 |
| Premature Death | 46,684 | 537 | 3,215 |
| Female | \$57,381 | \$638 | \$5,711 |
| Direct | 35,471 | 394 | 3,530 |
| Lost Productivity | 21,911 | 244 | 2,181 |
| Illness | 3,933 | 44 | 391 |
| Premature Death | 17,978 | 200 | 1,789 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$75,742 | \$428 | \$3,083 |
| Hospital | 31,276 | 177 | 1,273 |
| Ambulatory | 16,717 | 95 | 680 |
| Nursing Home Care | 11,217 | 63 | 457 |
| Prescriptions | 10,106 | 57 | 411 |
| Home Health | 6,426 | 36 | 262 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 176,880 | 40,905 | 35,515 | 71,106 |
| Male | 86,917 | 21,139 | 18,065 | 34,483 | 13,230 |
| Female | 89,963 | 19,767 | 17,450 | 36,623 | 16,123 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 24,567 | 16.2 | 40,043 | 26.4 | 86,844 | 57.3 | |
| Male | 14,520 | 19.7 | 20,823 | 28.2 | 38,470 | 52.1 | |
| Female | 10,047 | 12.9 | 19,219 | 24.8 | 48,374 | 62.3 | |
| Age 12-17 | 953 | 6.2 | 2,207 | 14.3 | 12,319 | 79.6 | |
| Male | 564 | 7.0 | 1,092 | 13.6 | 6,380 | 79.4 | |
| Female | 390 | 5.2 | 1,115 | 15.0 | 5,939 | 79.8 | |
| Age 18+ | 23,614 | 17.4 | 37,835 | 27.8 | 74,525 | 54.8 | |
| Male | 13,957 | 21.2 | 19,731 | 30.0 | 32,090 | 48.8 | |
| Female | 9,658 | 13.8 | 18,104 | 25.8 | 42,435 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 1,913 | 366 | 19.1 | |
| Male | 1,007 | 211 | 21.0 | |
| Female | 906 | 154 | 17.0 | |



Shasta

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 3,563 | 16.9 | |
| Female | 2,638 | 17.1 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 46,684 | 220,771 | |
| Female | 17,978 | 116,416 | |

Sierra

| Cost of Smoking | Amount | Per | Per |
|-------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$2,617 | \$807 | \$6,573 |
| Direct | 1,414 | 436 | 3,551 |
| Lost Productivity | 1,203 | 371 | 3,022 |
| Illness | 161 | 50 | 403 |
| Premature Death | 1,042 | 322 | 2,619 |
| Male | \$1,650 | \$1,005 | \$7,638 |
| Direct | 761 | 463 | 3,521 |
| Lost Productivity | 889 | 542 | 4,117 |
| Illness | 91 | 55 | 420 |
| Premature Death | 798 | 486 | 3,697 |
| Female | \$967 | \$604 | \$5,310 |
| Direct | 653 | 408 | 3,587 |
| Lost Productivity | 314 | 196 | 1,723 |
| Illness | 70 | 44 | 383 |
| Premature Death | 244 | 152 | 1,340 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$1,414 | \$436 | \$3,551 |
| Hospital | 498 | 154 | 1,252 |
| Ambulatory | 312 | 96 | 784 |
| Nursing Home Care | 314 | 97 | 789 |
| Prescriptions | 187 | 58 | 470 |
| Home Health | 102 | 31 | 256 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|-------|-------|-------|-------|
| | Total | 3,242 | 558 | 419 | 1,592 |
| Male | 1,642 | 293 | 220 | 799 | 330 |
| Female | 1,600 | 265 | 199 | 792 | 344 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 398 | 13.7 | 730 | 25.1 | 1,785 | 61.3 | |
| Male | 216 | 14.6 | 418 | 28.3 | 842 | 57.1 | |
| Female | 182 | 12.7 | 313 | 21.7 | 944 | 65.6 | |
| Age 12-17 | 11 | 4.7 | 25 | 10.8 | 194 | 84.5 | |
| Male | 8 | 6.2 | 12 | 9.3 | 107 | 84.5 | |
| Female | 3 | 2.8 | 13 | 12.7 | 87 | 84.5 | |
| Age 18+ | 387 | 14.4 | 705 | 26.3 | 1,591 | 59.3 | |
| Male | 208 | 15.4 | 406 | 30.1 | 735 | 54.5 | |
| Female | 179 | 13.4 | 300 | 22.4 | 856 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 45 | 9 | 18.9 | |
| Male | 19 | 6 | 29.0 | |
| Female | 26 | 3 | 11.6 | |



Sierra

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 87 | 15.9 | |
| Female | 55 | 18.2 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 798 | 145,127 | |
| Female | 244 | 80,771 | |

Siskiyou

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$39,754 | \$884 | \$6,236 |
| Direct | 18,434 | 410 | 2,892 |
| Lost Productivity | 21,319 | 474 | 3,345 |
| Illness | 2,139 | 48 | 336 |
| Premature Death | 19,180 | 427 | 3,009 |
| Male | \$24,939 | \$1,115 | \$6,527 |
| Direct | 9,898 | 443 | 2,591 |
| Lost Productivity | 15,040 | 673 | 3,937 |
| Illness | 1,128 | 50 | 295 |
| Premature Death | 13,913 | 622 | 3,641 |
| Female | \$14,815 | \$656 | \$5,801 |
| Direct | 8,536 | 378 | 3,343 |
| Lost Productivity | 6,279 | 278 | 2,459 |
| Illness | 1,011 | 45 | 396 |
| Premature Death | 5,268 | 233 | 2,063 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$18,434 | \$410 | \$2,892 |
| Hospital | 5,775 | 128 | 906 |
| Ambulatory | 4,568 | 102 | 717 |
| Nursing Home Care | 3,439 | 77 | 540 |
| Prescriptions | 2,814 | 63 | 441 |
| Home Health | 1,837 | 41 | 288 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|--------|
| | Total | 44,949 | 9,682 | 7,397 | 19,113 |
| Male | 22,360 | 5,007 | 3,862 | 9,321 | 4,170 |
| Female | 22,589 | 4,675 | 3,535 | 9,791 | 4,587 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 6,374 | 16.4 | 10,349 | 26.6 | 22,224 | 57.1 | |
| Male | 3,821 | 19.8 | 5,474 | 28.3 | 10,036 | 51.9 | |
| Female | 2,554 | 13.0 | 4,875 | 24.9 | 12,188 | 62.1 | |
| Age 12-17 | 228 | 6.2 | 524 | 14.2 | 2,929 | 79.6 | |
| Male | 139 | 7.0 | 269 | 13.6 | 1,570 | 79.4 | |
| Female | 89 | 5.2 | 255 | 15.0 | 1,359 | 79.8 | |
| Age 18+ | 6,147 | 17.4 | 9,826 | 27.9 | 19,295 | 54.7 | |
| Male | 3,682 | 21.2 | 5,206 | 30.0 | 8,466 | 48.8 | |
| Female | 2,465 | 13.8 | 4,620 | 25.8 | 10,829 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 551 | 102 | 18.4 | |
| Male | 296 | 61 | 20.5 | |
| Female | 255 | 41 | 16.1 | |



Siskiyou

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,026 | 16.9 | |
| Female | 750 | 18.3 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 13,913 | 229,389 | |
| Female | 5,268 | 128,544 | |

Solano

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$244,607 | \$593 | \$4,629 |
| Direct | 134,917 | 327 | 2,553 |
| Lost Productivity | 109,690 | 266 | 2,076 |
| Illness | 16,569 | 40 | 314 |
| Premature Death | 93,120 | 226 | 1,762 |
| Male | \$163,930 | \$795 | \$4,318 |
| Direct | 84,408 | 409 | 2,223 |
| Lost Productivity | 79,522 | 385 | 2,095 |
| Illness | 9,737 | 47 | 256 |
| Premature Death | 69,785 | 338 | 1,838 |
| Female | \$80,677 | \$391 | \$5,422 |
| Direct | 50,509 | 245 | 3,394 |
| Lost Productivity | 30,168 | 146 | 2,027 |
| Illness | 6,832 | 33 | 459 |
| Premature Death | 23,336 | 113 | 1,568 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$134,917 | \$327 | \$2,553 |
| Hospital | 65,705 | 159 | 1,243 |
| Ambulatory | 27,541 | 67 | 521 |
| Nursing Home Care | 18,513 | 45 | 350 |
| Prescriptions | 14,493 | 35 | 274 |
| Home Health | 8,665 | 21 | 164 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|--------|---------|
| | Total | 412,487 | 101,901 | 94,178 | 170,356 |
| Male | 206,322 | 52,050 | 49,304 | 84,928 | 20,041 |
| Female | 206,165 | 49,851 | 44,874 | 85,428 | 26,012 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 52,847 | 15.2 | 73,029 | 21.1 | 221,046 | 63.7 | |
| Male | 37,967 | 22.0 | 36,950 | 21.4 | 97,950 | 56.7 | |
| Female | 14,880 | 8.5 | 36,079 | 20.7 | 123,095 | 70.7 | |
| Age 12-17 | 1,892 | 5.2 | 3,909 | 10.8 | 30,535 | 84.0 | |
| Male | 585 | 3.1 | 1,983 | 10.7 | 16,028 | 86.2 | |
| Female | 1,307 | 7.4 | 1,926 | 10.9 | 14,507 | 81.8 | |
| Age 18+ | 50,955 | 16.4 | 69,121 | 22.3 | 190,510 | 61.3 | |
| Male | 37,382 | 24.2 | 34,968 | 22.7 | 81,922 | 53.1 | |
| Female | 13,573 | 8.7 | 34,153 | 21.8 | 108,588 | 69.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 2,800 | 425 | 15.2 | |
| Male | 1,429 | 262 | 18.3 | |
| Female | 1,371 | 164 | 11.9 | |



Solano

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| Total | 7,618 | 17.9 | |
| Male | 4,656 | 17.8 | |
| Female | 2,962 | 18.1 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| Total | \$93,120 | \$218,921 | |
| Male | 69,785 | 266,584 | |
| Female | 23,336 | 142,650 | |

Sonoma

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$277,741 | \$578 | \$5,115 |
| Direct | 156,589 | 326 | 2,884 |
| Lost Productivity | 121,152 | 252 | 2,231 |
| Illness | 23,899 | 50 | 440 |
| Premature Death | 97,254 | 202 | 1,791 |
| Male | \$158,287 | \$669 | \$5,002 |
| Direct | 76,386 | 323 | 2,414 |
| Lost Productivity | 81,901 | 346 | 2,588 |
| Illness | 12,525 | 53 | 396 |
| Premature Death | 69,376 | 293 | 2,193 |
| Female | \$119,455 | \$490 | \$5,272 |
| Direct | 80,203 | 329 | 3,539 |
| Lost Productivity | 39,251 | 161 | 1,732 |
| Illness | 11,374 | 47 | 502 |
| Premature Death | 27,878 | 114 | 1,230 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$156,589 | \$326 | \$2,884 |
| Hospital | 58,229 | 121 | 1,072 |
| Ambulatory | 39,760 | 83 | 732 |
| Nursing Home Care | 26,942 | 56 | 496 |
| Prescriptions | 21,721 | 45 | 400 |
| Home Health | 9,936 | 21 | 183 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 480,597 | 107,640 | 105,532 | 202,146 |
| Male | 236,627 | 55,182 | 54,902 | 98,554 | 27,989 |
| Female | 243,970 | 52,458 | 50,630 | 103,592 | 37,290 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 54,302 | 13.2 | 123,175 | 29.9 | 234,032 | 56.9 | |
| Male | 31,642 | 15.7 | 70,510 | 35.0 | 99,107 | 49.2 | |
| Female | 22,660 | 10.8 | 52,665 | 25.0 | 134,925 | 64.2 | |
| Age 12-17 | 2,436 | 6.3 | 3,024 | 7.8 | 33,093 | 85.8 | |
| Male | 1,599 | 8.1 | 1,730 | 8.7 | 16,486 | 83.2 | |
| Female | 837 | 4.5 | 1,293 | 6.9 | 16,608 | 88.6 | |
| Age 18+ | 51,866 | 13.9 | 120,152 | 32.2 | 200,939 | 53.9 | |
| Male | 30,043 | 16.6 | 68,780 | 37.9 | 82,621 | 45.5 | |
| Female | 21,823 | 11.4 | 51,372 | 26.8 | 118,317 | 61.8 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 3,770 | 592 | 15.7 | |
| Male | 1,789 | 314 | 17.6 | |
| Female | 1,981 | 278 | 14.0 | |



Sonoma

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 5,112 | 16.3 | |
| Female | 4,472 | 16.1 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 69,376 | 220,676 | |
| Female | 27,878 | 100,415 | |

Stanislaus

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$278,274 | \$543 | \$5,092 |
| Direct | 142,936 | 279 | 2,615 |
| Lost Productivity | 135,339 | 264 | 2,476 |
| Illness | 18,633 | 36 | 341 |
| Premature Death | 116,705 | 228 | 2,135 |
| Male | \$181,925 | \$718 | \$5,587 |
| Direct | 80,827 | 319 | 2,482 |
| Lost Productivity | 101,098 | 399 | 3,105 |
| Illness | 11,423 | 45 | 351 |
| Premature Death | 89,675 | 354 | 2,754 |
| Female | \$96,349 | \$372 | \$4,362 |
| Direct | 62,108 | 240 | 2,812 |
| Lost Productivity | 34,241 | 132 | 1,550 |
| Illness | 7,211 | 28 | 326 |
| Premature Death | 27,030 | 104 | 1,224 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$142,936 | \$279 | \$2,615 |
| Hospital | 72,020 | 141 | 1,318 |
| Ambulatory | 26,172 | 51 | 479 |
| Nursing Home Care | 16,573 | 32 | 303 |
| Prescriptions | 15,383 | 30 | 281 |
| Home Health | 12,788 | 25 | 234 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 512,051 | 147,604 | 122,425 | 187,842 |
| Male | 253,256 | 75,974 | 61,748 | 92,243 | 23,291 |
| Female | 258,795 | 71,629 | 60,677 | 95,599 | 30,890 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 54,650 | 13.1 | 89,232 | 21.4 | 272,191 | 65.4 | |
| Male | 32,564 | 15.9 | 55,250 | 27.1 | 116,427 | 57.0 | |
| Female | 22,086 | 10.4 | 33,982 | 16.0 | 155,763 | 73.5 | |
| Age 12-17 | 2,774 | 5.4 | 6,180 | 12.0 | 42,672 | 82.7 | |
| Male | 2,278 | 8.5 | 4,064 | 15.1 | 20,618 | 76.5 | |
| Female | 496 | 2.0 | 2,115 | 8.6 | 22,054 | 89.4 | |
| Age 18+ | 51,876 | 14.2 | 83,052 | 22.8 | 229,519 | 63.0 | |
| Male | 30,286 | 17.1 | 51,186 | 28.9 | 95,809 | 54.0 | |
| Female | 21,590 | 11.5 | 31,866 | 17.0 | 133,710 | 71.4 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 3,428 | 512 | 14.9 | |
| Male | 1,731 | 309 | 17.9 | |
| Female | 1,697 | 203 | 11.9 | |



Stanislaus

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 5,705 | 18.4 | |
| Female | 3,627 | 17.9 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 89,675 | 289,861 | |
| Female | 27,030 | 133,322 | |

Sutter

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$56,304 | \$597 | \$5,507 |
| Direct | 30,384 | 322 | 2,972 |
| Lost Productivity | 25,920 | 275 | 2,535 |
| Illness | 3,842 | 41 | 376 |
| Premature Death | 22,077 | 234 | 2,159 |
| Male | \$35,264 | \$753 | \$6,488 |
| Direct | 16,528 | 353 | 3,041 |
| Lost Productivity | 18,736 | 400 | 3,447 |
| Illness | 2,084 | 45 | 384 |
| Premature Death | 16,652 | 356 | 3,064 |
| Female | \$21,040 | \$443 | \$4,393 |
| Direct | 13,856 | 291 | 2,893 |
| Lost Productivity | 7,184 | 151 | 1,500 |
| Illness | 1,758 | 37 | 367 |
| Premature Death | 5,426 | 114 | 1,133 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$30,384 | \$322 | \$2,972 |
| Hospital | 12,928 | 137 | 1,265 |
| Ambulatory | 6,735 | 71 | 659 |
| Nursing Home Care | 4,869 | 52 | 476 |
| Prescriptions | 3,861 | 41 | 378 |
| Home Health | 1,991 | 21 | 195 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|--------|--------|--------|
| | Total | 94,371 | 26,235 | 21,490 | 34,719 |
| Male | 46,825 | 13,493 | 11,002 | 17,094 | 5,236 |
| Female | 47,546 | 12,742 | 10,488 | 17,625 | 6,690 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 10,224 | 13.3 | 18,811 | 24.4 | 48,016 | 62.3 | |
| Male | 5,435 | 14.3 | 10,465 | 27.5 | 22,107 | 58.2 | |
| Female | 4,789 | 12.3 | 8,347 | 21.4 | 25,910 | 66.4 | |
| Age 12-17 | 409 | 4.6 | 973 | 10.9 | 7,535 | 84.5 | |
| Male | 292 | 6.2 | 433 | 9.3 | 3,949 | 84.5 | |
| Female | 117 | 2.8 | 540 | 12.7 | 3,585 | 84.5 | |
| Age 18+ | 9,815 | 14.4 | 17,839 | 26.2 | 40,482 | 59.4 | |
| Male | 5,143 | 15.4 | 10,032 | 30.1 | 18,158 | 54.5 | |
| Female | 4,672 | 13.4 | 7,807 | 22.4 | 22,324 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 700 | 127 | 18.1 | |
| Male | 355 | 71 | 20.0 | |
| Female | 345 | 56 | 16.1 | |



Sutter

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,206 | 17.0 | |
| Female | 904 | 16.3 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 16,652 | 234,048 | |
| Female | 5,426 | 97,736 | |

Tehama

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$48,862 | \$774 | \$5,728 |
| Direct | 24,917 | 395 | 2,921 |
| Lost Productivity | 23,945 | 379 | 2,807 |
| Illness | 2,867 | 45 | 336 |
| Premature Death | 21,078 | 334 | 2,471 |
| Male | \$30,237 | \$962 | \$5,917 |
| Direct | 13,321 | 424 | 2,607 |
| Lost Productivity | 16,916 | 538 | 3,310 |
| Illness | 1,520 | 48 | 297 |
| Premature Death | 15,396 | 490 | 3,013 |
| Female | \$18,624 | \$588 | \$5,445 |
| Direct | 11,596 | 366 | 3,390 |
| Lost Productivity | 7,029 | 222 | 2,055 |
| Illness | 1,347 | 42 | 394 |
| Premature Death | 5,682 | 179 | 1,661 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$24,917 | \$395 | \$2,921 |
| Hospital | 9,750 | 154 | 1,143 |
| Ambulatory | 5,749 | 91 | 674 |
| Nursing Home Care | 3,736 | 59 | 438 |
| Prescriptions | 3,474 | 55 | 407 |
| Home Health | 2,208 | 35 | 259 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|--------|--------|--------|
| | Total | 63,121 | 16,245 | 12,308 | 24,622 |
| Male | 31,424 | 8,329 | 6,376 | 12,135 | 4,584 |
| Female | 31,697 | 7,916 | 5,932 | 12,486 | 5,362 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 8,531 | 16.2 | 13,894 | 26.4 | 30,291 | 57.5 | |
| Male | 5,111 | 19.6 | 7,336 | 28.1 | 13,650 | 52.3 | |
| Female | 3,420 | 12.8 | 6,559 | 24.6 | 16,641 | 62.5 | |
| Age 12-17 | 359 | 6.1 | 833 | 14.3 | 4,648 | 79.6 | |
| Male | 210 | 7.0 | 408 | 13.6 | 2,383 | 79.4 | |
| Female | 149 | 5.2 | 425 | 15.0 | 2,265 | 79.8 | |
| Age 18+ | 8,172 | 17.4 | 13,061 | 27.9 | 25,643 | 54.7 | |
| Male | 4,900 | 21.2 | 6,928 | 30.0 | 11,267 | 48.8 | |
| Female | 3,272 | 13.8 | 6,133 | 25.8 | 14,376 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 578 | 111 | 19.2 | |
| Male | 316 | 67 | 21.2 | |
| Female | 262 | 44 | 16.7 | |



Tehama

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,138 | 17.0 | |
| Female | 795 | 18.1 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 15,396 | 229,516 | |
| Female | 5,682 | 129,599 | |

Trinity

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$12,716 | \$923 | \$6,265 |
| Direct | 6,544 | 475 | 3,224 |
| Lost Productivity | 6,172 | 448 | 3,041 |
| Illness | 699 | 51 | 344 |
| Premature Death | 5,473 | 397 | 2,696 |
| Male | \$8,436 | \$1,188 | \$6,693 |
| Direct | 3,830 | 539 | 3,039 |
| Lost Productivity | 4,606 | 649 | 3,654 |
| Illness | 383 | 54 | 304 |
| Premature Death | 4,223 | 595 | 3,350 |
| Female | \$4,280 | \$642 | \$5,565 |
| Direct | 2,714 | 407 | 3,528 |
| Lost Productivity | 1,566 | 235 | 2,036 |
| Illness | 316 | 47 | 411 |
| Premature Death | 1,250 | 187 | 1,625 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|---------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$6,544 | \$475 | \$3,224 |
| Hospital | 2,428 | 176 | 1,196 |
| Ambulatory | 1,474 | 107 | 726 |
| Nursing Home Care | 1,136 | 83 | 560 |
| Prescriptions | 911 | 66 | 449 |
| Home Health | 596 | 43 | 294 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|-------|-------|
| | Total | 13,770 | 2,615 | 2,075 | 6,351 |
| 12,805 | 7,101 | 1,336 | 1,131 | 3,238 | 1,397 |
| 12,006 | 6,669 | 1,280 | 944 | 3,113 | 1,332 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 2,030 | 16.6 | 3,271 | 26.8 | 6,914 | 56.6 | |
| Male | 1,260 | 20.0 | 1,801 | 28.6 | 3,234 | 51.4 | |
| Female | 769 | 13.0 | 1,469 | 24.8 | 3,680 | 62.2 | |
| Age 12-17 | 65 | 6.1 | 151 | 14.3 | 844 | 79.6 | |
| Male | 37 | 7.0 | 72 | 13.6 | 421 | 79.4 | |
| Female | 28 | 5.2 | 79 | 15.0 | 422 | 79.8 | |
| Age 18+ | 1,965 | 17.6 | 3,119 | 28.0 | 6,071 | 54.4 | |
| Male | 1,223 | 21.2 | 1,729 | 30.0 | 2,813 | 48.8 | |
| Female | 741 | 13.8 | 1,390 | 25.8 | 3,258 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 161 | 36 | 22.2 | |
| Male | 92 | 26 | 28.5 | |
| Female | 69 | 9 | 13.7 | |



Trinity

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 404 | 15.4 | |
| Female | 176 | 18.6 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 4,223 | 161 | |
| Female | 1,250 | 132 | |

Tulare

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$218,086 | \$497 | \$4,117 |
| Direct | 109,370 | 249 | 2,065 |
| Lost Productivity | 108,716 | 248 | 2,052 |
| Illness | 15,886 | 36 | 300 |
| Premature Death | 92,830 | 212 | 1,753 |
| Male | \$140,969 | \$642 | \$4,753 |
| Direct | 63,381 | 289 | 2,137 |
| Lost Productivity | 77,587 | 353 | 2,616 |
| Illness | 8,638 | 39 | 291 |
| Premature Death | 68,950 | 314 | 2,325 |
| Female | \$77,117 | \$352 | \$3,308 |
| Direct | 45,988 | 210 | 1,973 |
| Lost Productivity | 31,128 | 142 | 1,335 |
| Illness | 7,248 | 33 | 311 |
| Premature Death | 23,880 | 109 | 1,025 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$109,370 | \$249 | \$2,065 |
| Hospital | 47,896 | 109 | 904 |
| Ambulatory | 22,897 | 52 | 432 |
| Nursing Home Care | 13,780 | 31 | 260 |
| Prescriptions | 13,058 | 30 | 247 |
| Home Health | 11,739 | 27 | 222 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 438,407 | 143,747 | 107,915 | 145,601 |
| Male | 219,489 | 73,463 | 55,438 | 72,407 | 18,181 |
| Female | 218,918 | 70,284 | 52,477 | 73,194 | 22,963 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 52,968 | 15.5 | 74,039 | 21.6 | 215,248 | 62.9 | |
| Male | 29,659 | 17.4 | 44,997 | 26.4 | 95,869 | 56.2 | |
| Female | 23,309 | 13.6 | 29,042 | 16.9 | 119,379 | 69.5 | |
| Age 12-17 | 1,901 | 4.0 | 6,770 | 14.2 | 38,923 | 81.8 | |
| Male | 994 | 4.1 | 3,270 | 13.3 | 20,235 | 82.6 | |
| Female | 908 | 3.9 | 3,500 | 15.2 | 18,688 | 80.9 | |
| Age 18+ | 51,067 | 17.3 | 67,269 | 22.8 | 176,325 | 59.8 | |
| Male | 28,665 | 19.6 | 41,727 | 28.6 | 75,634 | 51.8 | |
| Female | 22,401 | 15.1 | 25,541 | 17.2 | 100,691 | 67.7 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 2,659 | 434 | 16.3 | |
| Male | 1,381 | 259 | 18.8 | |
| Female | 1,278 | 175 | 13.7 | |



Tulare

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 4,582 | 17.7 | |
| Female | 3,116 | 17.8 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 68,950 | 265,986 | |
| Female | 23,880 | 136,334 | |

Tuolumne

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$44,121 | \$798 | \$6,536 |
| Direct | 25,439 | 460 | 3,768 |
| Lost Productivity | 18,682 | 338 | 2,767 |
| Illness | 2,536 | 46 | 376 |
| Premature Death | 16,146 | 292 | 2,392 |
| Male | \$26,220 | \$896 | \$6,808 |
| Direct | 14,558 | 497 | 3,780 |
| Lost Productivity | 11,662 | 398 | 3,028 |
| Illness | 1,513 | 52 | 393 |
| Premature Death | 10,149 | 347 | 2,635 |
| Female | \$17,901 | \$689 | \$6,174 |
| Direct | 10,881 | 419 | 3,753 |
| Lost Productivity | 7,020 | 270 | 2,421 |
| Illness | 1,023 | 39 | 353 |
| Premature Death | 5,997 | 231 | 2,068 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$25,439 | \$460 | \$3,768 |
| Hospital | 11,339 | 205 | 1,680 |
| Ambulatory | 4,882 | 88 | 723 |
| Nursing Home Care | 4,665 | 84 | 691 |
| Prescriptions | 2,930 | 53 | 434 |
| Home Health | 1,623 | 29 | 240 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|-------|--------|--------|
| | Total | 55,257 | 9,922 | 10,225 | 23,815 |
| Male | 29,272 | 5,143 | 6,172 | 12,680 | 5,277 |
| Female | 25,985 | 4,778 | 4,053 | 11,135 | 6,019 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 6,751 | 13.7 | 12,452 | 25.3 | 30,096 | 61.0 | |
| Male | 3,851 | 14.7 | 7,452 | 28.5 | 14,877 | 56.8 | |
| Female | 2,900 | 12.5 | 5,000 | 21.6 | 15,219 | 65.8 | |
| Age 12-17 | 181 | 4.6 | 433 | 10.9 | 3,349 | 84.5 | |
| Male | 128 | 6.2 | 190 | 9.3 | 1,732 | 84.5 | |
| Female | 53 | 2.8 | 243 | 12.7 | 1,617 | 84.5 | |
| Age 18+ | 6,570 | 14.5 | 12,019 | 26.5 | 26,747 | 59.0 | |
| Male | 3,723 | 15.4 | 7,262 | 30.1 | 13,144 | 54.5 | |
| Female | 2,847 | 13.4 | 4,757 | 22.4 | 13,603 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 555 | 94 | 16.9 | |
| Male | 284 | 57 | 20.2 | |
| Female | 271 | 36 | 13.5 | |



Tuolumne

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 899 | 15.6 | |
| Female | 680 | 18.6 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 10,149 | 176,555 | |
| Female | 5,997 | 164,323 | |

Ventura

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$360,857 | \$441 | \$5,111 |
| Direct | 204,423 | 250 | 2,895 |
| Lost Productivity | 156,434 | 191 | 2,216 |
| Illness | 31,970 | 39 | 453 |
| Premature Death | 124,465 | 152 | 1,763 |
| Male | \$216,466 | \$532 | \$5,136 |
| Direct | 107,304 | 264 | 2,546 |
| Lost Productivity | 109,161 | 268 | 2,590 |
| Illness | 18,478 | 45 | 438 |
| Premature Death | 90,683 | 223 | 2,151 |
| Female | \$144,392 | \$351 | \$5,074 |
| Direct | 97,118 | 236 | 3,413 |
| Lost Productivity | 47,273 | 115 | 1,661 |
| Illness | 13,492 | 33 | 474 |
| Premature Death | 33,782 | 82 | 1,187 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$204,423 | \$250 | \$2,895 |
| Hospital | 82,927 | 101 | 1,174 |
| Ambulatory | 49,751 | 61 | 705 |
| Nursing Home Care | 30,936 | 38 | 438 |
| Prescriptions | 27,480 | 34 | 389 |
| Home Health | 13,328 | 16 | 189 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|---------|---------|---------|
| | Total | 818,545 | 213,053 | 183,872 | 327,427 |
| Male | 407,005 | 108,699 | 95,943 | 161,317 | 41,046 |
| Female | 411,540 | 104,354 | 87,929 | 166,110 | 53,148 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 70,607 | 10.4 | 163,670 | 24.0 | 447,643 | 65.6 | |
| Male | 42,150 | 12.5 | 94,690 | 28.1 | 200,654 | 59.5 | |
| Female | 28,457 | 8.3 | 68,980 | 20.0 | 246,989 | 71.7 | |
| Age 12-17 | 2,577 | 3.4 | 6,225 | 8.1 | 67,625 | 88.5 | |
| Male | 1,212 | 3.1 | 4,853 | 12.4 | 33,123 | 84.5 | |
| Female | 1,365 | 3.7 | 1,373 | 3.7 | 34,502 | 92.6 | |
| Age 18+ | 68,030 | 11.2 | 157,445 | 26.0 | 380,017 | 62.8 | |
| Male | 40,938 | 13.7 | 89,837 | 30.1 | 167,531 | 56.2 | |
| Female | 27,092 | 8.8 | 67,608 | 22.0 | 212,487 | 69.2 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 5,007 | 727 | 14.5 | |
| Male | 2,452 | 399 | 16.3 | |
| Female | 2,555 | 327 | 12.8 | |



Ventura

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| Total | 11,975 | 16.5 | |
| Male | 6,580 | 16.5 | |
| Female | 5,395 | 16.5 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| Total | \$124,465 | \$171,227 | |
| Male | 90,683 | 227,037 | |
| Female | 33,782 | 103,157 | |

Yolo

| Cost of Smoking | Amount | Per | Per |
|-------------------|-----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$106,770 | \$535 | \$3,837 |
| Direct | 59,722 | 299 | 2,146 |
| Lost Productivity | 47,048 | 236 | 1,691 |
| Illness | 8,858 | 44 | 318 |
| Premature Death | 38,190 | 191 | 1,372 |
| Male | \$62,397 | \$641 | \$3,812 |
| Direct | 31,043 | 319 | 1,896 |
| Lost Productivity | 31,354 | 322 | 1,915 |
| Illness | 4,658 | 48 | 285 |
| Premature Death | 26,696 | 274 | 1,631 |
| Female | \$44,373 | \$434 | \$3,873 |
| Direct | 28,678 | 280 | 2,503 |
| Lost Productivity | 15,695 | 153 | 1,370 |
| Illness | 4,200 | 41 | 367 |
| Premature Death | 11,495 | 112 | 1,003 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$59,722 | \$299 | \$2,146 |
| Hospital | 22,019 | 110 | 791 |
| Ambulatory | 15,639 | 78 | 562 |
| Nursing Home Care | 7,956 | 40 | 286 |
| Prescriptions | 8,858 | 44 | 318 |
| Home Health | 5,249 | 26 | 189 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|---------|--------|--------|--------|
| | Total | 199,696 | 44,827 | 67,723 | 67,952 |
| Male | 97,393 | 22,865 | 33,135 | 33,030 | 8,363 |
| Female | 102,303 | 21,962 | 34,588 | 34,922 | 10,831 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 27,828 | 16.3 | 45,314 | 26.6 | 97,401 | 57.1 | |
| Male | 16,370 | 19.8 | 23,436 | 28.4 | 42,666 | 51.7 | |
| Female | 11,458 | 13.0 | 21,879 | 24.8 | 54,735 | 62.1 | |
| Age 12-17 | 962 | 6.1 | 2,238 | 14.3 | 12,474 | 79.6 | |
| Male | 557 | 7.0 | 1,080 | 13.6 | 6,307 | 79.4 | |
| Female | 404 | 5.2 | 1,158 | 15.0 | 6,167 | 79.8 | |
| Age 18+ | 26,866 | 17.3 | 43,076 | 27.8 | 84,927 | 54.8 | |
| Male | 15,813 | 21.2 | 22,356 | 30.0 | 36,359 | 48.8 | |
| Female | 11,053 | 13.8 | 20,720 | 25.8 | 48,567 | 60.5 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 1,112 | 200 | 18.0 | |
| Male | 560 | 111 | 19.9 | |
| Female | 552 | 89 | 16.1 | |



Yolo

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Total | 3,484 | 17.4 | |
| Male | 1,893 | 17.0 | |
| Female | 1,592 | 17.9 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Total | \$38,190 | \$190,699 | |
| Male | 26,696 | 240,024 | |
| Female | 11,495 | 129,089 | |

Yuba

| Cost of Smoking | Amount | Per | Per |
|-------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$47,037 | \$655 | \$6,169 |
| Direct | 22,875 | 319 | 3,000 |
| Lost Productivity | 24,162 | 337 | 3,169 |
| Illness | 2,876 | 40 | 377 |
| Premature Death | 21,286 | 296 | 2,792 |
| Male | \$30,353 | \$839 | \$7,373 |
| Direct | 12,368 | 342 | 3,004 |
| Lost Productivity | 17,985 | 497 | 4,369 |
| Illness | 1,576 | 44 | 383 |
| Premature Death | 16,409 | 454 | 3,986 |
| Female | \$16,684 | \$468 | \$4,756 |
| Direct | 10,507 | 295 | 2,995 |
| Lost Productivity | 6,177 | 173 | 1,761 |
| Illness | 1,300 | 36 | 371 |
| Premature Death | 4,877 | 137 | 1,390 |

| Direct Cost of Smoking | Amount | Per | Per |
|------------------------|----------|----------|---------|
| | (1,000) | Resident | Smoker |
| Total | \$22,875 | \$319 | \$3,000 |
| Hospital | 10,681 | 149 | 1,401 |
| Ambulatory | 4,821 | 67 | 632 |
| Nursing Home Care | 3,299 | 46 | 433 |
| Prescriptions | 2,714 | 38 | 356 |
| Home Health | 1,360 | 19 | 178 |

| Population 2009 | All Ages | <18 | 18-34 | 35-64 | 65+ |
|-----------------|----------|--------|--------|--------|--------|
| | Total | 71,795 | 21,038 | 17,796 | 25,687 |
| Male | 36,173 | 10,870 | 9,135 | 12,853 | 3,314 |
| Female | 35,622 | 10,168 | 8,661 | 12,834 | 3,959 |



| | Currently Smoke | | Formerly Smoked | | Never Smoked | | Smoking Prevalence |
|-----------|-----------------|------|-----------------|------|--------------|------|---------------------------|
| | Number | % | Number | % | Number | % | |
| Total | 7,624 | 13.3 | 14,059 | 24.5 | 35,770 | 62.3 | |
| Male | 4,117 | 14.3 | 7,930 | 27.6 | 16,657 | 58.0 | |
| Female | 3,508 | 12.2 | 6,129 | 21.3 | 19,113 | 66.5 | |
| Age 12-17 | 303 | 4.5 | 734 | 11.0 | 5,659 | 84.5 | |
| Male | 213 | 6.2 | 315 | 9.3 | 2,873 | 84.5 | |
| Female | 91 | 2.8 | 419 | 12.7 | 2,786 | 84.5 | |
| Age 18+ | 7,321 | 14.4 | 13,325 | 26.3 | 30,111 | 59.3 | |
| Male | 3,904 | 15.4 | 7,615 | 30.1 | 13,784 | 54.5 | |
| Female | 3,417 | 13.4 | 5,710 | 22.4 | 16,327 | 64.1 | |

| | Total | Due to Smoking | | Deaths |
|--------|-------|----------------|------|---------------|
| | | Number | % | |
| Total | 493 | 86 | 17.4 | |
| Male | 256 | 53 | 20.8 | |
| Female | 237 | 32 | 13.7 | |



Yuba

| | Number of Years | Per Death | Years of Potential Life Lost |
|--------|-----------------|-----------|-------------------------------------|
| | | | |
| Male | 1,012 | 19.0 | |
| Female | 649 | 20.0 | |

| | Amount (1,000) | Per Death | Lost Productivity from Premature Death |
|--------|----------------|-----------|---|
| | | | |
| Male | 16,409 | 308,250 | |
| Female | 4,877 | 150,143 | |

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Technical Appendix 1: The Econometric Models for Smoking-Attributable Healthcare Expenditures

This Appendix details the specification of econometric models that analyze the impact of smoking on healthcare expenditures. It was previously described in Max, Sung, and Lightwood (2013). The models consist of 10 equations which were estimated separately for each of the 6 subgroups stratified by age (18-34, 35-64, 65+) and gender (female, male). Each equation or group of equations is described below in terms of the functional form used, the dependent variable, and the independent variables.

- (1) **Propensity of Ever Having Any Smoking-Related Diseases Model** (estimated as a binomial probit function)

Having smoking-related diseases = f_1 (smoking status/intensity (current light, current moderate, current heavy, former), age, race/ethnicity, region, education, marital status, obesity, binge drinking)

The smoking-related diseases are those for which incidence is identified in the 2004 US Surgeon General Report (US DHHS, 2004) as being causally related to cigarette smoking. Included are cardiovascular diseases (ischemic heart disease, other heart disease, cerebrovascular disease, atherosclerosis, aortic aneurysm, other circulatory diseases), respiratory diseases (pneumonia, Influenza, chronic bronchitis, emphysema, chronic airways obstruction), and cancer (of the urinary bladder; cervix uteri; esophagus; kidney and renal pelvis; larynx; stomach; lung, trachea, and bronchus; lip, oral cavity, and pharynx; pancreas; and acute myeloid leukemia). The ICD-10 codes for these diseases are shown in Table 3 on Page 38.

- (2) **Propensity of Having Poor Health Model** (measured by health status of excellent, very good, good, fair, or poor; estimated as an ordered probit function)

Having poor health status = f_2 (smoking status/intensity, age, race/ethnicity, region, education, marital status, obesity, binge drinking, predicted propensity of ever having smoking-related diseases)

- (3) – (6) **Propensity of Having Positive Annual Expenditures Model** (estimated separately for Hospitalization, Ambulatory Care, Prescription Drugs, and Home Health Care; estimated as a binomial probit function)

Having positive expenditures = f_i (smoking status/intensity, age, race/ethnicity, region, education, marital status, family poverty status, health insurance coverage, obesity, binge drinking, and predicted propensity of having poor health),

where $i = 3$ (hospitalization), 4 (ambulatory care), 5 (prescription drugs), 6 (home health care).

(7) – (10) Logarithmic Level of Annual Expenditures among Individuals with Positive Expenditures Model (estimated separately for Hospitalization, Ambulatory Care, Prescription Drugs, and Home Health Care; estimated using ordinary least squares)

Logarithm of expenditures = f_i (smoking status/intensity, age, race/ethnicity, region, education, marital status, family poverty status, health insurance coverage, obesity, binge drinking, and predicted propensity of having poor health),

where $i = 7$ (hospitalization), 8 (ambulatory care), 9 (prescription drugs), 10 (home health care).

Note that when taking the anti-log of the predicted values from Equations (7)–(10), the smearing coefficient by smoking status/intensity was calculated to correct for retransformation bias.

The table below summarizes the age and gender subgroups for which each of the 10-equation models were estimated.

| Model | F 18-34 | M 18-34 | F 35-64 | M 35-64 | F 65+ | M 65+ |
|--|----------------|----------------|----------------|----------------|--------------|--------------|
| 1 Smoking-Related Disease | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 2 Poor Health Status | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 3 Positive Hospitalization Expenditures | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 4 Positive Ambulatory Care Expenditures | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 Positive Prescription Drugs Expenditures | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 6 Positive Home Health Expenditures | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 7 log (Hospitalization Expenditures) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 8 log (Ambulatory care Expenditures) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 9 log (Prescription Drugs Expenditures) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 10 log (Home Health Expenditures) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Technical Appendix 2: The Econometric Models for Smoking-Attributable Lost Productivity from Illness

This Appendix details the specification of econometric models that analyze the impact of smoking on indirect costs due to lost productivity from illness. The models consist of four equations. Each equation is described below in terms of the functional form used, the dependent variable, and the independent variables.

(1) Propensity of Having a Positive Number of Days Lost from Work in the Past Year (estimated as a binomial probit function)

Having positive days = f_1 (smoking status (current, former), gender, age, race/ethnicity, region, education, marital status, obesity, binge drinking)

(2) Logarithmic Level of Annual Days Lost from Work among Individuals with Positive Work-Loss Days Model (estimated using ordinary least squares)

Logarithm of days = f_2 (smoking status, gender, age, race/ethnicity, region, education, marital status, obesity, binge drinking)

(3) Propensity of Having Positive Number of Bed-Disability Days in the Past Year (estimated as a binomial probit function)

Having positive days = f_3 (smoking status, gender, age, race/ethnicity, region, education, marital status, obesity, binge drinking)

(4) Logarithmic Level of Annual Bed-Disability Days among Individuals with Positive Bed-Disability Days Model (estimated using ordinary least squares)

Logarithm of days = f_4 (smoking status, gender, age, race/ethnicity, region, education, marital status, obesity, binge drinking)

Note that when taking the anti-log of the predicted values from Equations (2) and (4), the smearing coefficient by smoking status was calculated to correct for retransformation bias.

Glossary

Bed-Disability Day -- A day during which an individual stayed in bed more than half of the day due to illness or injury; bed-disability days may include those while an overnight patient in a hospital and may also be work loss days.

Cause of Death -- The underlying condition to which a death is attributed, based on information reported on the death certificate and utilizing the international rules for selecting the underlying cause of death from the reported conditions.

Current Smoker -- An adult, aged 18 years and over, who reports that he or she has smoked 100 or more cigarettes in their lifetime and who smokes every day or some days; an adolescent, aged 12-17 years, who reports that he or she ever smoked a cigarette, even 1 or 2 puffs, and smoked cigarettes for at least one day in the past 30 days.

Current Heavy Smoker -- A current smoker, aged 18 years and over, who smoked 20 or more cigarettes per day.

Current Light Smoker -- A current smoker, aged 18 years and over, who smoked fewer than 10 cigarettes per day or smoked some days.

Current Moderate Smoker -- A current smoker, aged 18 years and over, who smoked 10–19 cigarettes per day.

Direct Cost -- The dollar expenditures for healthcare services for persons suffering from illness or disease, including amounts spent for hospital care, nursing home care, emergency department visits, physician and other office-based medical provider services, home health services, and prescription medications and medical nondurables.

Disability -- Any restriction or lack of ability to perform an activity in the manner, or in the range, considered normal.

Discount Rate -- A rate used to convert a future stream of dollars into the present value equivalent. The higher the discount rate, the lower the present value of a given stream of dollars.

Economic Cost of Smoking -- The value of all resources that are unavailable for other purposes due to smoking, including direct costs and indirect productivity losses due to smoking-related illness and premature death.

Former Smoker -- An adult, aged 18 years and over, who reports that he or she has smoked 100 cigarettes in their lifetime but does not smoke at the time of the survey; an adolescent, aged 12-17 years, who reports that they have ever smoked cigarettes even 1 or 2 puffs but did not smoke cigarettes in the past 30 days.

Human Capital Approach -- An approach to valuing life according to a person's productivity measured by his or her market earnings and an imputed value for housekeeping services.

Indirect Cost -- The value of lost output due to the reduced productivity caused by illness or disability, including the value of lost workdays and housekeeping days due to illness and disability, and the value of productivity losses due to premature death.

International Classification of Diseases (ICD) Codes -- A classification system of the nature (N-Codes) and external cause of illness and injuries (E-Codes), developed collaboratively by the World Health Organization and 10 international centers so that the medical terms reported by physicians, medical examiners, and coroners on death certificates can be grouped together for statistical purposes.

Labor Force Participation Rate -- The proportion or percent of the population employed at a given point in time.

Life Expectancy -- The average number of years of life remaining to a person at a particular age based on population-level age- and gender-specific death rates.

Market Earnings -- Wages and salaries earned in the labor market, including fringe benefit and supplements such as employer's contributions to social insurance.

Mortality -- Number of deaths.

Mortality Rate -- A measure derived by dividing the number of deaths in a population in a given period by the resident population at the middle of that period.

Never Smoker -- An adult, aged 18 years and over, who reports that he or she has not smoked 100 cigarettes during their lifetime; an adolescent, aged 12-17 years, who reports never having smoked cigarettes even 1 or 2 puffs in his or her lifetime.

Nonsmoker -- someone who is either a former smoker or a never smoker.

Present Value of Lifetime Earnings (PVLE) -- The present discounted value of all the expected earnings, including market earnings and an imputed value for household production, summed over future years for the remaining life expectancy. These earnings are converted into the present value equivalent by applying the discount rate.

Prevalence-Based Approach -- A method of estimating the costs of diseases that are manifested during a year (i.e., prevalent diseases) but caused by cumulative exposure to smoking or other risk factors over many years in the past. These costs take into account the current annual costs for persons who receive medical treatment, are absent from work, or die of smoking-related illness during the year under study.

Productivity Loss -- The value of output not produced due to illness, disability, or premature death.

Relative Risk -- The ratio of the rates of illness, death, or healthcare expenditures in the exposed population (for example, current smokers) to the rates in the unexposed population (for example, never smokers).

Secondhand Smoke -- the tobacco smoke of a smoker which others are exposed to; also referred to as passive smoking and environmental tobacco smoke.

Secondhand Smoke Exposure -- (for this report) exposure to the tobacco smoke of someone else in the home, defined as living in a household in which smoking is allowed inside the home.

Secondhand Smoke Exposure Rate -- (for this report) the proportion of nonsmokers exposed to the tobacco smoke of someone else in the home, defined as living in a household in which smoking is allowed inside the home.

Secondhand Smoke-Associated Cause of Death -- A cause of death that is known to be causally linked to secondhand smoke exposure.

Smoking Prevalence Rate -- The proportion of the population who are current smokers.

Smoking Status -- Whether an individual currently smokes, formerly smoked, or never smoked.

Smoking-Attributable Fraction (SAF) -- The proportion of deaths, diseases, lost productivity, or healthcare costs that can be attributed to smoking.

Smoking-Related Disease -- An illness or disease that is known to be causally linked to cigarette smoking.

Value of Housekeeping Services -- An imputed value calculated by assigning the prevailing wage rate for performance of tasks similar to those performed by housekeepers. For example, time spent cooking might be valued using the prevailing wage rate for a cook.

Work-Loss Day -- A day during which a currently employed person aged 18 years or older missed more than half a day from a job or business because of illness or injury.

Years of Potential Life Lost (YPLL) -- The number of years that an individual would have lived in the absence of fatal illness or disease, based on the number of years of life expectancy remaining at the age of death. Note that many burden of disease studies include the years of life expectancy remaining to age 65 or age 80, but we did not limit years to a specific age.

