

HEALTH  
AND  
ECONOMIC  
IMPACT OF SMOKING  
CALIFORNIA, 1985

November 1988

California Department of Health Services  
 Chronic Diseases Branch  
 California Chronic and Sentinel Diseases Surveillance Program

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

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This report is Number 1 in a series to be issued by the California Chronic and Sentinel Disease Surveillance Program (CCSDSP). It was prepared by George A. Kaplan and William E. Wright, with the assistance of Richard D. Cohen, Jane McKendry, Pat Romanowicz, Jorge Lizarraga, Piera Cirillo, and Kimberly Newton. Further information concerning these findings and the CCSDSP can be obtained from:

George A. Kaplan, Ph.D., Chief  
Chief, Human Population Laboratory  
California Department of Health Services  
2151 Berkeley Way, Annex 2, Third Floor  
Berkeley, CA 94704

Or

William E. Wright, Ph.D., Acting Chief  
Chronic Disease Epidemiology Section  
California Department of Health Services  
714 P Street, Room 499  
Sacramento, CA 95814

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Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

HEALTH AND ECONOMIC IMPACT OF SMOKING  
California, 1985

- In 1985, 16% of all deaths among adults in California, more than 31,000, were due to smoking.  
  
Of these smoking attributable deaths, 30% were from lung cancer;  
22% were due to heart disease;  
24% were due to respiratory diseases.
  
- In the same year, Californians lost 310,000 years of life prematurely due to smoking.  
  
124,000 years of life were lost because of lung cancer;  
71,000 years were lost to heart disease;  
51,000 years were lost to respiratory diseases.
  
- That year, over 14% of all non-pregnancy related hospitalizations among adults in California were due to smoking.  
  
Over 20,000 hospitalizations for lung cancer were due to smoking;  
over 39,000 hospitalizations for heart disease were due to smoking;  
over 140,000 hospitalizations for respiratory disease were due to smoking.
  
- These hospitalizations and other medical expenses due to smoking cost Californians \$4.1 billion in 1985.  
  
\$2.3 billion of these costs were for hospital care;  
77% of these hospital costs (\$1.8 billion) was paid from public funds (Medicare, MediCal, medically indigent).
  
- The total economic burden of smoking to Californians in 1985 was over \$7.1 billion.  
  
\$4.1 billion was for direct medical costs;  
\$800 million was for lost productivity due to illness and disability;  
\$2.2 billion was for lost future earnings due to premature death.

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Health and Economic Impact of Smoking  
California, 1985

People who smoke suffer from diseases other than cancer. For example, 15% of deaths due to hypertension and 45% of deaths from ulcers are attributed to smoking. Among men, 85% of deaths from bronchitis, emphysema and chronic airways obstruction are due to smoking. Among women, 69% of these deaths are smoking attributable.

In addition to health burden, smoking also generates an economic burden. Rice and her colleagues (1986) have estimated that among adults in the U.S. in 1979, 20% of work-loss days, 12% of physician visits and 30% of hospital days among persons with neoplasms and diseases of the circulatory and respiratory systems were attributable to smoking. Nearly one-fourth of the total health care expenses for these diseases were due to smoking. The total economic cost of smoking in the U.S. in 1984 was estimated at \$53.7 billion.

Method

Smoking Attributable Fractions (SAF) for 24 underlying causes of death for males and females in the U.S. have been published recently by the Centers for Disease Control (1987). Each disease-specific SAF was derived from prevalence estimates of current smokers, former smokers and nonsmokers in the U.S. in 1985 and from relative risk estimates of each cause of death for current and former smokers compared with nonsmokers. We have taken these SAF's and applied them to California mortality data to estimate the number of smoking attributable deaths in 1985 and the number of years of potential life lost to age 80. We also estimated the impact of smoking on each of California's 58 counties by calculating the smoking attributable deaths and years of life lost for each county.

We applied the SAF's to 1985 California hospital discharge data to estimate the number of smoking-attributable hospitalizations and their cost. Once the hospital costs were known, we used the national figures presented by Rice et al. (1986) of the proportion of hospital costs to direct costs and the proportion of direct costs to total costs for estimating these components for California. We also estimated the direct costs for residents of each county by grouping hospital discharges on the basis of the county of patients' residence.

In order to compare counties, we calculated mortality and hospital discharge rates for all smoking-related diseases for each county. These rates were age-adjusted and presented by sex and ethnicity. Because of resource limitations, we did not apply the SAFs to these rates. We did compare the county mortality and hospitalization rates with the overall state rates by sex and ethnic group.

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## Results

Table 1 and Figure 1 present the deaths attributable to smoking. In 1985 in California more than 31,000 deaths, or 16% of all deaths among adults, were due to smoking. Of these deaths, 30% were from lung cancer, 22% were due to heart disease, and 24% were due to respiratory diseases. Table 1-A shows a comparison of smoking related deaths with other causes. In 1985, smoking attributable mortality was the third leading cause of death in California. Table 2 and Figure 2 present the estimates of years of potential life lost. Californians lost over 310,000 years of life prematurely in 1985 due to smoking. Lung cancer took 124,000 years of life, 71,000 years were lost to heart disease and 51,000 years were lost to respiratory diseases.

Table 3 and Figure 3 show the hospital discharge analyses. Over 14% of all non-pregnancy related hospitalizations among adults in California in 1985 were due to smoking. Over 20,000 hospitalizations for lung cancer, over 39,000 hospitalizations for heart disease and over 140,000 hospitalizations for respiratory diseases were attributable to smoking. These hospitalizations cost \$2.3 billion in 1985 (Table 4 & Figure 4). Public funds (Medicare, Medicaid, medically indigent) paid for 77% of these hospital costs. Combined with other medical expenses due to smoking, the health care cost to Californians was \$4.1 billion. The total economic burden of smoking to California in 1985 was over \$7.1 billion (Table 5 & Figure 5) of which \$4.1 billion was for direct medical costs, \$800 million was for lost productivity due to illness and disability, and \$2.2 billion was for lost future earnings due to premature death.

Tables 6 thru 8 present county-specific data on the local impact of smoking. For example, we estimate that in Alameda county there were 1,482 deaths in 1985 (Table 6) and 15,810 years of potential life lost (Table 7) which are attributable to smoking. The direct health care costs from smoking to Alameda county residents was estimated to be \$178 million in 1985 (Table 8).

Table 10 presents county-specific smoking-related death rates. These are age-adjusted and presented by sex and ethnicity. To clarify Tables 10 and 11, we will discuss Alameda county data as an example. For Alameda county residents in 1985 the white male mortality rate per 1,000 white male residents was 4.63. This was compared with the overall state rate for white males of 4.67 (Table 9) which generated a relative rate for Alameda white males of 0.99 (county rate/state rate). This relative rate was not statistically significant indicating that the rate for Alameda white males was not significantly different from the overall state rate for white males. The mortality rates for black males (6.04), Hispanic males (3.43), and all other males (6.04) were also not significantly different from the overall state rates for each of these groups. For female residents, the mortality rates were 3.33 for whites, 3.60 for blacks, 1.71 for Hispanics, and 1.97 for all others. None of these rates were significantly different from the state rates.

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In the same manner, Table 11 presents county-specific hospitalization rates for smoking-related diseases. These rates are age-adjusted and presented by sex and ethnicity. In these comparisons for Alameda county, the rates for white males and Hispanic males were significantly lower than the state rates, the rate for black males was not significantly different, and the rate for all other males was significantly higher. For females, the rates for whites and all others were not significantly different from the state rates but the rates for blacks and Hispanics were significantly lower.

Figure 6 highlights counties in which at least four of the eight possible sex-ethnic group hospitalization rate comparisons (relative rates) were both significantly different from the state rates and in the same direction (either lower or higher than the state rate). For Alameda County, five of the hospitalization rate comparisons were significantly different and four of these were lower than the state rate (white males, Hispanic males, black females, and Hispanic females). Thus Alameda county residents were grouped with residents from 12 other counties with significantly lower hospitalization rates for smoking-related diseases. These other counties were Contra Costa, Marin, Maricopa, Monterey, Sacramento, San Francisco, San Luis Obispo, San Mateo, Santa Barbara, Santa Cruz, Solano, and Sonoma. Nine counties had significantly higher hospitalization rates. They were Imperial, Kern, Los Angeles, Madera, Napa, Riverside, San Bernardino, San Joaquin, and Tulare.

If you have any questions about these materials you may contact the co-directors of the California Chronic and Sentinel Diseases Surveillance Program. They are William E. Wright, Ph.D. in Sacramento who can be reached at (916) 322-4787 and George A. Kaplan, Ph.D. in Berkeley who can be reached at (415) 540-2396.

#### References

Centers for Disease Control. Smoking-attributable mortality and years of potential life lost - United States, 1984. Morbidity and Mortality Weekly Report, 1987;36(#42):693-697.

Rice, D. P., T. A. Hodgson, P. Sinsheimer, W. Browner, & A. N. Kopstein. The economic costs of the health effects of smoking, 1984. The Millbank Quarterly, 1986; 64(#4):489-547.

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## Deaths Attributable to Smoking California, 1985

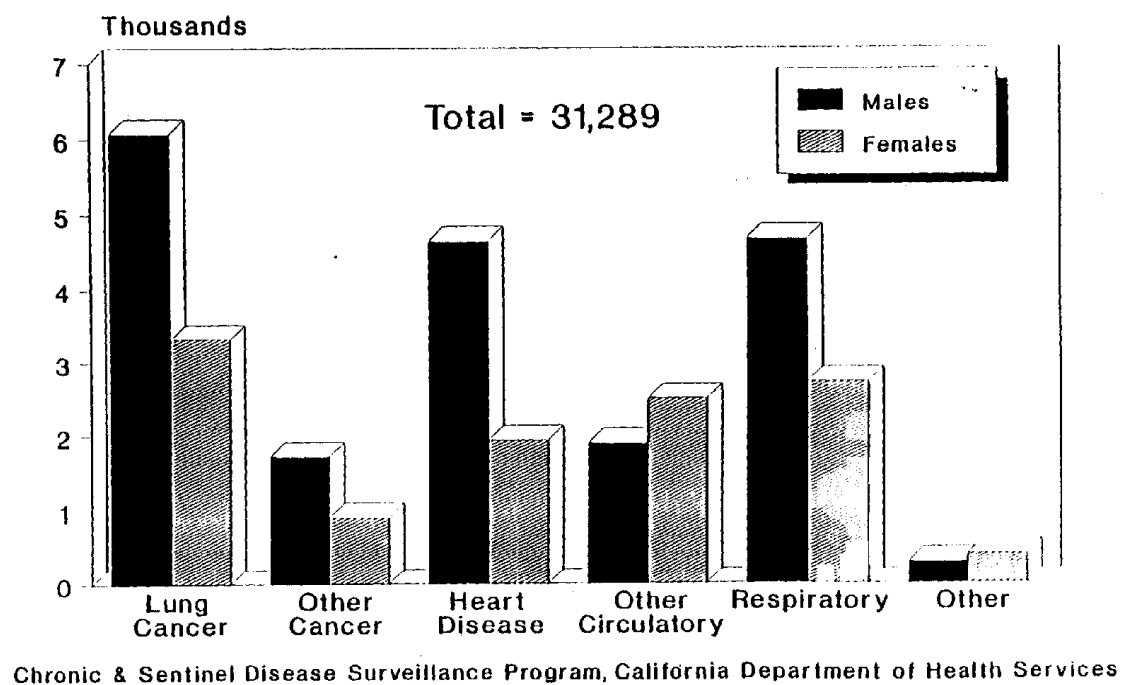


Figure 1

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

## Years of Life Lost Attributable to Smoking California, 1985

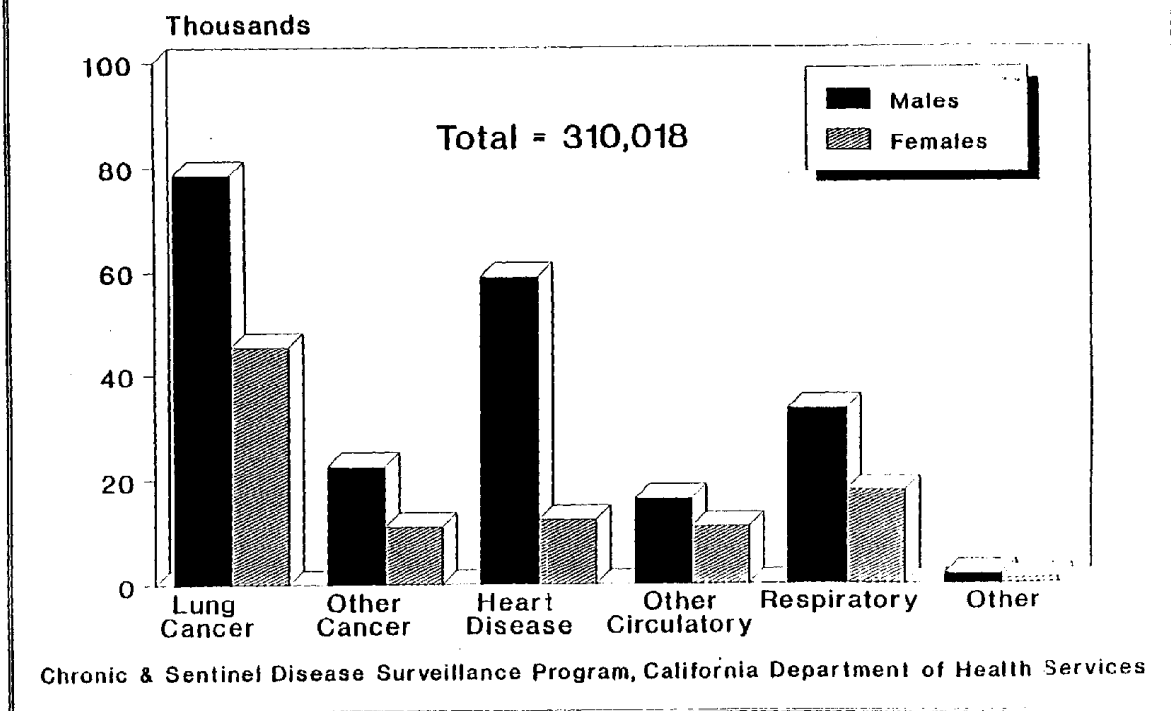


Figure 2

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>



## Discharges Attributable to Smoking California, 1985

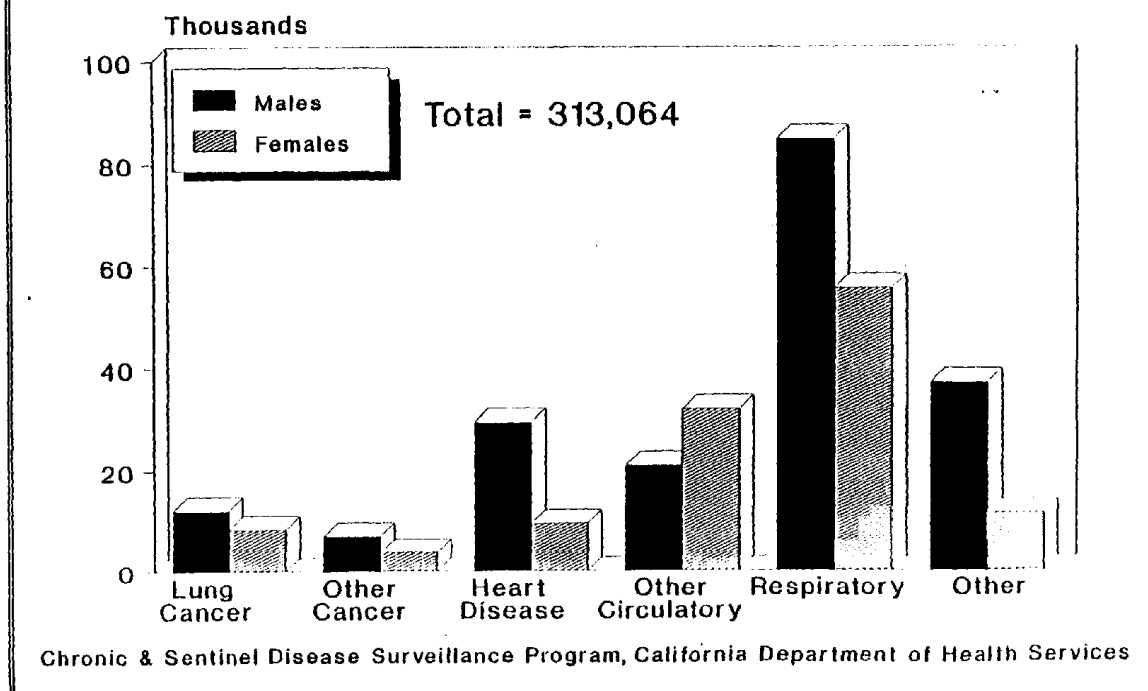


Figure 3

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

## Health Care Costs Attributable to Smoking California, 1985

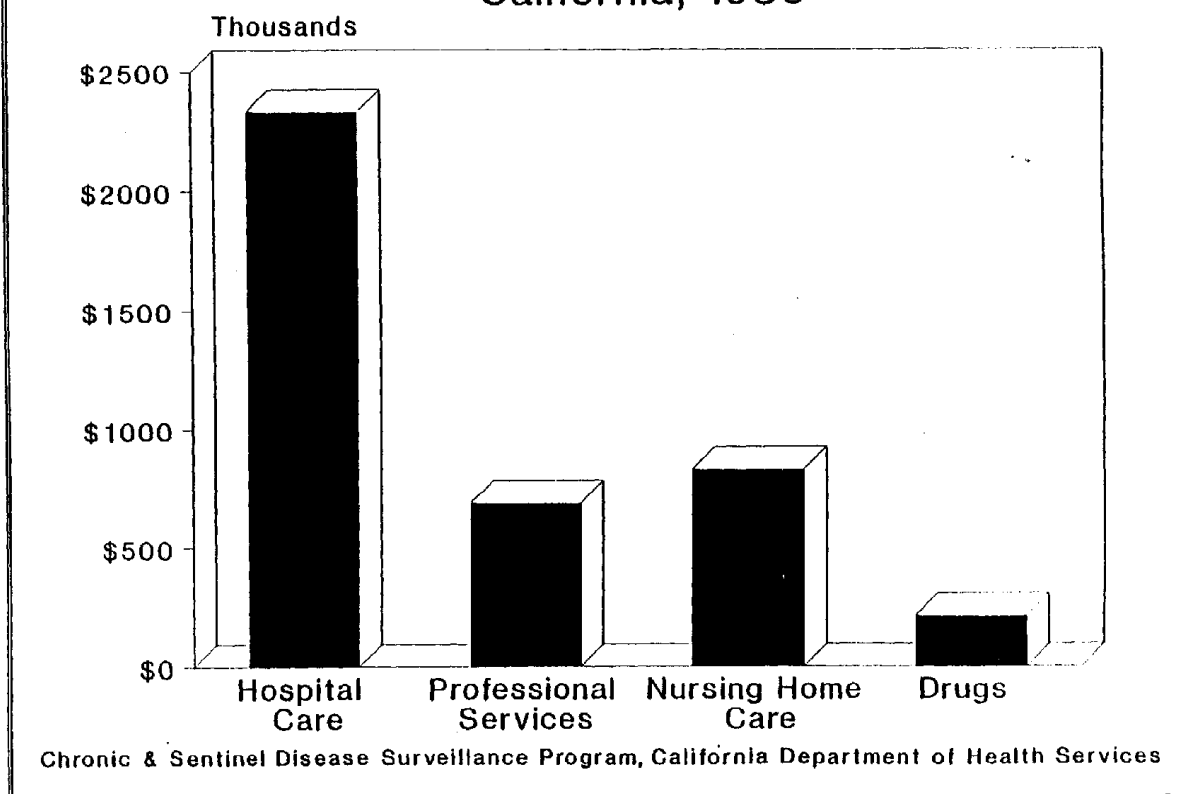
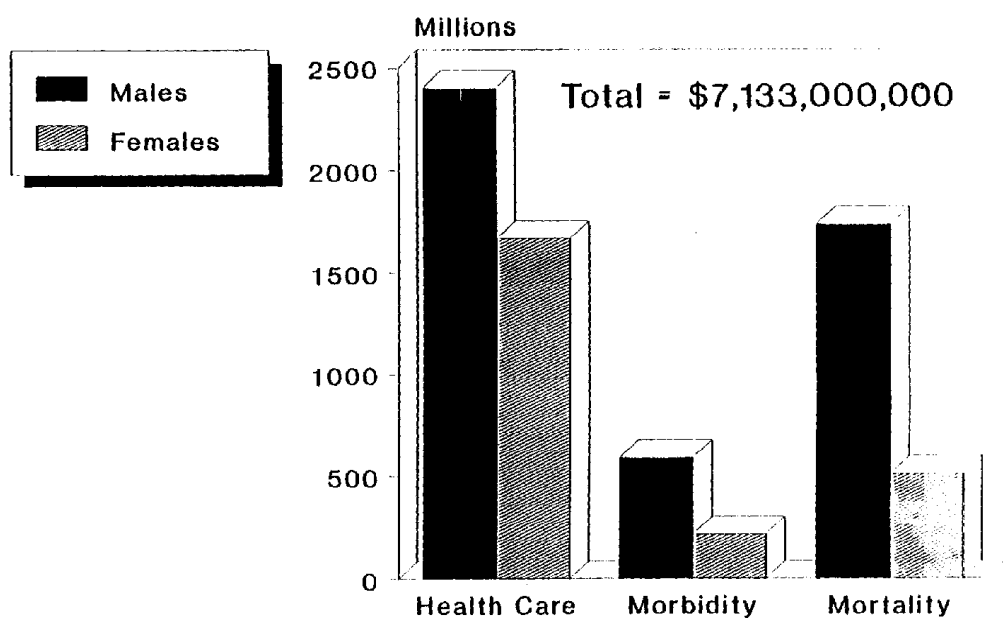


Figure 4

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

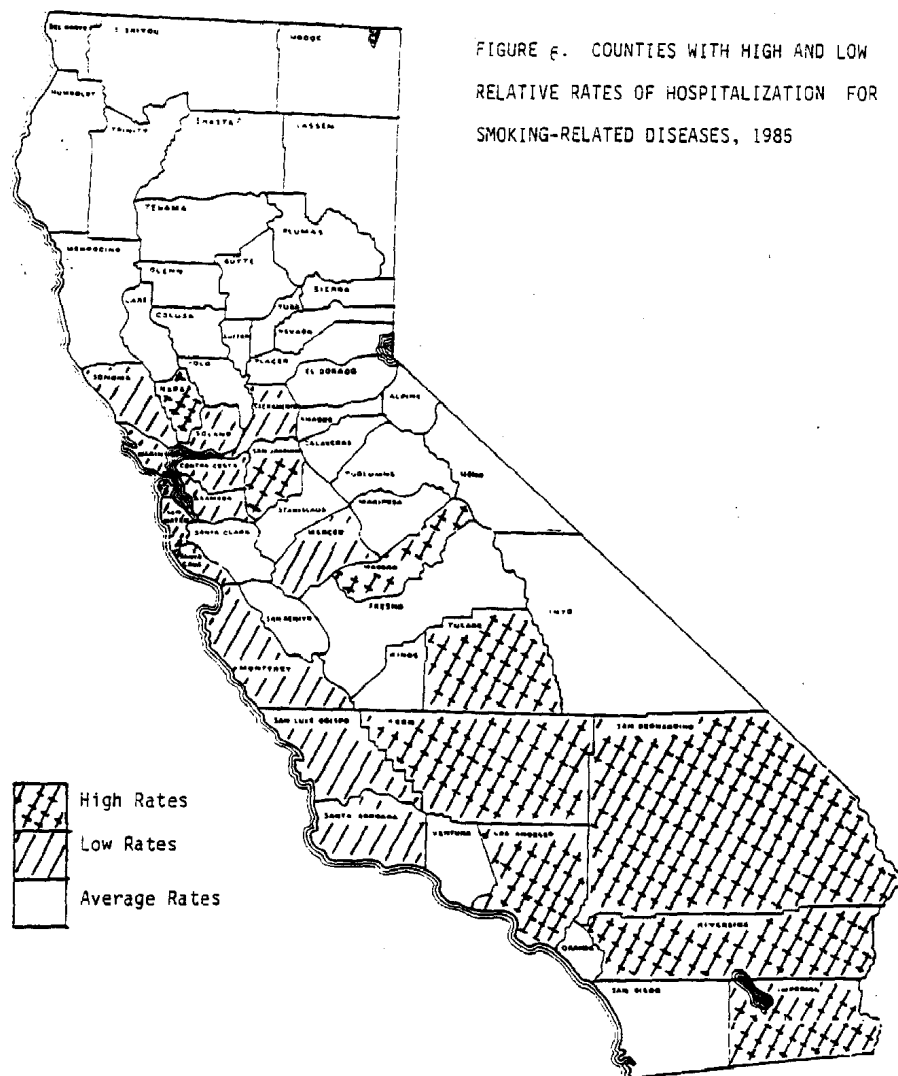
## Costs Attributable to Smoking California, 1985



Chronic & Sentinel Disease Surveillance Program, California Department of Health Services

Figure 5

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>



Source: California Chronic and Sentinel Diseases Surveillance Program  
California Department of Health Services

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Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

Table 1  
Deaths, smoking-attributable fractions<sup>a</sup>, and smoking-attributable mortality  
by disease category and sex  
California, 1985

Disease Category <sup>b</sup>	Males			Females			Total <sup>d</sup>
	Total Deaths <sup>c</sup>	% due to Smoking	Deaths due to Smoking	Total Deaths <sup>c</sup>	% due to Smoking	Deaths due to Smoking	
<b>Adults ≥ 20 years old</b>							
<b>Neoplasms</b>							
140-149 Lip, oral cavity, pharynx	501	.688	343	371	.413	153	498
150 Esophagus	587	.589	346	247	.536	132	478
151 Stomach	893	.172	154	625	.254	159	312
157 Pancreas	1,161	.300	348	1,159	.142	163	513
161 Larynx	234	.896	189	61	.413	25	214
162 Trachea, lung, bronchus	7,637	.796	6,079	4,436	.760	3,327	9,406
180 Cervix uteri	-	.0	-	412	.369	152	152
188 Urinary bladder	597	.371	221	262	.274	77	299
189 Kidney, other urinary	500	.243	122	309	.118	36	158
<b>Circulatory Diseases</b>							
401-405 Hypertension	1,755	.156	274	1,975	.146	292	566
410-414 Ischemic heart disease <65-65+	8,512	.285	1,856	2,091	.181	378	2,234
427.5 Cardiac arrest	19,264	.159	3,063	20,795	.075	1,560	4,623
430-438 Cerebrovascular disease	457	.399	182	486	.344	167	350
440 Arteriosclerosis	5,866	.096	563	9,312	.139	1,294	1,658
441 Aortic aneurism	882	.238	210	1,505	.315	474	684
441 Aortic aneurism	1,072	.624	669	574	.488	269	938
<b>Respiratory Diseases</b>							
480-487 Pneumonia, influenza	3,661	.208	761	4,280	.093	398	1,158
491-492 Chronic bronchitis, emphysema	1,435	.850	1,220	988	.694	684	1,904
498 Chronic airways obstruction	3,165	.850	2,690	2,370	.694	1,645	4,335
<b>Digestive Diseases</b>							
531-534 Ulcers	429	.479	205	411	.445	183	388
<b>Pediatric diseases, &lt;1 year old</b>							
765 Short gestation, low birthweight	189	.182	31	162	.182	29	60
769-770 Respiratory conditions of newborn	248	.182	45	175	.182	32	77
798.0 Sudden infant death syndrome	424	.128	54	258	.128	33	87
<b>TOTAL<sup>d</sup></b>			<b>19,627</b>			<b>11,662</b>	
<b>Total Deaths Attributable to Smoking</b>							<b>31,289</b>
<b>% of All Deaths Among Adults</b>			<b>19.2</b>		<b>12.4</b>	<b>16.0</b>	

<sup>a</sup> From *Morbidity and Mortality Weekly Report*, October 30, 1987.

<sup>b</sup> International Classification of Diseases, ninth revision.

<sup>c</sup> Underlying Cause of Death.

<sup>d</sup> Sums may not equal total because of rounding.

Source: California Chronic and Sentinel Diseases Surveillance Program.  
California Department of Health Services.

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Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

Table 1-A  
Deaths from Selected Causes  
California, 1985

Cause of Death	Number	% Total
Diseases of the Heart <sup>a</sup>	61,273	30.4
Malignant Neoplasms <sup>a</sup>	33,585	16.6
Smoking Attributable Deaths	31,289	15.5
Cerebrovascular Diseases <sup>a</sup>	13,364	6.6
Unintentional Injuries	10,380	5.1
(Motor Vehicles)	(5,314)	(2.6)
Pneumonia & Influenza <sup>a</sup>	6,888	3.4
Chronic Liver Disease & Cirrhosis	3,965	2.0
Suicide	3,782	1.9
Diabetes Mellitus	2,997	1.5
Homicide	2,818	1.4
Chronic Obstructive Pulmonary Diseases <sup>a</sup>	2,367	1.2
AIDS	1,959	1.0
All Other Causes	27,148	13.5

<sup>a</sup>Excluding Smoking Attributable Cases.

Source: California Chronic and Sentinel Diseases Surveillance Program  
California Department of Health Services

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Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

Table 2  
Smoking-attributable years of potential life lost before age 80  
by disease category and sex  
California, 1985

Disease Category <sup>a</sup>	Years of Life Lost		
	Males	Females	Total <sup>b</sup>
<b>Adults, <math>\geq</math> 20 years old</b>			
<b>Neoplasms</b>			
140-149 Lip, oral cavity, pharynx	5,300	2,026	7,326
150 Esophagus	4,810	1,408	6,218
151 Stomach	2,026	1,627	3,653
157 Pancreas	4,371	1,581	5,952
161 Larynx	2,736	297	3,034
162 Trachea, lung, bronchus	78,559	45,362	123,921
180 Cervix uteri	-	3,258	3,258
188 Urinary bladder	1,679	440	2,119
189 Kidney, other urinary	1,654	415	2,069
<b>Circulatory Diseases</b>			
401-405 Hypertension	3,326	1,879	5,205
410-414 Ischemic heart disease			
<65	45,454	8,619	54,073
65+	13,548	3,734	17,282
427.5 Cardiac arrest	1,734	1,064	2,798
430-438 Cerebrovascular disease	4,126	5,699	9,825
440 Arteriosclerosis	807	662	1,469
441 Aortic aneurism	6,238	1,692	7,930
<b>Respiratory Diseases</b>			
480-487 Pneumonia, influenza	4,717	1,254	5,971
491-492 Chronic bronchitis, emphysema	9,865	5,349	15,214
496 Chronic airways obstruction	18,749	11,086	29,835
<b>Digestive Diseases</b>			
531-534 Ulcers	1,875	992	2,867
	211,574	98,444	
<b>Total<sup>b</sup> Years of Life Lost Attributable to Smoking</b>			<b>310,018</b>

<sup>a</sup> International Classification of Diseases, ninth revision; based on underlying cause of death.

<sup>b</sup> Sums may not equal totals because of rounding.

Source: California Chronic and Sentinel Diseases Surveillance Program  
California Department of Health Services

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Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

Table 3  
Smoking-attributable hospital discharges  
by disease category and sex  
California, 1985

Disease Category <sup>a</sup>	Hospital Discharges <sup>b</sup>		
	Males	Females	Total <sup>c</sup>
<b>Adults, ≥ 20 years old</b>			
<b>Neoplasms</b>			
140-149 Lip, oral cavity, pharynx	1,783	756	2,539
150 Esophagus	765	361	1,125
151 Stomach	327	370	698
157 Pancreas	633	298	931
161 Larynx	850	158	1,008
162 Trachea, lung, bronchus	12,214	8,463	20,677
180 Cervix uteri	-	1,176	1,176
188 Urinary bladder	2,353	622	2,974
189 Kidney, other urinary	416	108	523
<b>Circulatory Diseases</b>			
401-405 Hypertension	9,251	17,813	27,064
410-414 Ischemic heart disease			
<65	18,775	5,602	24,377
65+	10,771	4,005	14,776
427.5 Cardiac arrest	3,115	2,585	5,701
430-438 Cerebrovascular disease	2,401	5,884	8,085
440 Arteriosclerosis	2,805	4,591	7,397
441 Aortic aneurism	3,477	1,283	4,760
<b>Respiratory Diseases</b>			
480-487 Pneumonia, influenza	5,975	2,251	8,226
491-492 Chronic bronchitis, emphysema	17,283	12,361	29,644
496 Chronic airways obstruction	61,891	41,008	102,700
<b>Digestive Diseases</b>			
531-534 Ulcers	32,615	7,807	40,422
<b>Pediatric diseases, &lt;1 year old</b>			
765 Short gestation, low birthweight	2,460	2,251	4,711
769 Respiratory distress syndrome	435	294	729
770 Other respiratory conditions of newborn	1,625	1,187	2,812
798.0 Sudden infant death syndrome	6	4	10
	192,025	121,039	
<b>Total<sup>c</sup> Discharges Attributable to Smoking</b>			<b>313,065</b>
<b>% of All Adult Discharges</b>	<b>18.7</b>	<b>10.4</b>	<b>14.3</b>

<sup>a</sup> International Classification of Diseases, ninth revision.

<sup>b</sup> Discharge was counted if there was any mention of the disease in up to ten diagnoses. A discharge with multiple diagnoses was only counted once. All discharges for pregnancy and delivery were excluded even if there was a smoking related diagnosis.

<sup>c</sup> Sums may not equal totals because of rounding.

Source: California Chronic and Sentinel Diseases Surveillance Program  
California Department of Health Services

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Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>



TABLE 4  
HEALTH CARE COSTS ATTRIBUTABLE TO SMOKING  
BY TYPE OF HEALTH CARE, SEX, AND RACE  
CALIFORNIA, 1985

TYPE OF CARE	BOTH SEXES			MALES			FEMALES		
	ALL AGES	20-64	65+	ALL AGES	20-64	65+	ALL AGES	20-64	65+
AMOUNT IN MILLIONS									
HOSPITAL CARE	\$2,336	\$824	\$1,512	\$1,388	\$528	\$860	\$948	\$296	\$652
PROFESSIONAL SERVICES	691	98	593	537	60	478	153	38	115
NURSING HOME CARE	833	33	800	314	22	292	519	11	508
DRUGS	215	44	172	167	25	142	48	18	30
<b>TOTAL</b>	<b>\$4,074</b>	<b>\$998</b>	<b>\$3,076</b>	<b>\$2,404</b>	<b>\$635</b>	<b>\$1,770</b>	<b>\$1,670</b>	<b>\$363</b>	<b>\$1,307</b>

CALIFORNIANS SPENT \$4.1 BILLION IN 1985 FOR HEALTH CARE COSTS OF SMOKING.

FOR HOSPITAL COSTS, 76.8% WAS PAID WITH PUBLIC FUNDS.

NOTE: Numbers may not add to totals due to rounding.

SOURCE: California Chronic and Sentinel Disease Surveillance Program  
California Department of Health Services

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

TABLE 5  
TOTAL COSTS ATTRIBUTABLE TO SMOKING  
BY TYPE OF COST, SEX, AND AGE  
CALIFORNIA, 1985

TYPE OF COSTS	BOTH SEXES			MALES			FEMALES		
	ALL AGES	20-65	65+	ALL AGES	20-65	65+	ALL AGES	20-65	65+
AMOUNT IN MILLIONS									
DIRECT <sup>a</sup>	4,074	998	3,076	2,405	635	1,770	1,670	363	1,307
MORBIDITY <sup>b</sup>	808	698	110	591	500	91	217	198	19
MORTALITY <sup>c</sup>	2,251	1,455	796	1,740	1,200	540	511	255	256
TOTAL	\$7,133	\$3,151	\$3,982	\$4,736	\$2,335	\$2,402	\$2,398	\$816	\$1,582

SMOKING COST \$7.1 BILLION IN CALIFORNIA IN 1985.

NOTE: Numbers may not add to totals due to rounding.

- a Costs for medical care of current and former smokers.
- b Costs for losses in output due to illness and disability.
- c Costs from early deaths.

SOURCE: California Chronic and Sentinel Disease Surveillance Program  
California Department of Health Services

TABLE 6  
DEATHS ATTRIBUTABLE TO SMOKING BY COUNTY  
CALIFORNIA, 1985

COUNTY	DEATHS		TOTAL
	MALES ≥20 YRS OLD	FEMALES ≥20 YRS OLD	
Alameda	905	577	1,482
Alpine	0	1	1
Amador	31	14	44
Butte	188	97	285
Calaveras	38	15	53
Colusa	17	7	23
Contra Costa	517	322	839
Del Norte	17	10	27
El Dorado	86	50	136
Fresno	427	219	646
Glenn	25	13	38
Humboldt	111	59	170
Imperial	89	27	117
Inyo	17	12	29
Kern	387	188	574
Kings	54	35	89
Lake	90	50	140
Lassen	22	8	30
Los Angeles	5,384	3,479	8,863
Madera	63	28	91
Marin	163	126	289
Mariposa	11	8	19
Mendocino	80	43	122
Merced	121	51	172
Modoc	13	3	16
Mono	4	1	5
Monterey	229	119	348
Napa	110	56	166
Nevada	61	32	93
Orange	1,359	829	2,188
Placer	129	68	197
Plumas	16	9	24
Riverside	828	451	1,279
Sacramento	725	407	1,132
San Benito	26	12	38
San Bernardino	846	438	1,283
San Diego	1,551	988	2,539
San Francisco	774	415	1,189
San Joaquin	385	195	580
San Luis Obispo	158	102	260
San Mateo	451	291	743
Santa Barbara	210	146	357

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Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

Table 6 (continued)

Santa Clara	723	465	1,188
Santa Cruz	161	108	269
Shasta	139	77	216
Sierra	3	1	4
Siskiyou	45	21	66
Solano	203	101	303
Sonoma	290	171	461
Stanislaus	311	138	449
Sutter	47	31	78
Tehama	60	33	93
Trinity	11	5	16
Tulare	234	116	350
Tuolumne	41	30	71
Ventura	353	201	554
Yolo	101	51	152
Yuba	57	24	82
TOTAL CALIFORNIA	19,500	11,572	31,072

Source: California Chronic and Sentinel Disease Surveillance Program  
California Department of Health Services

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Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

TABLE 7  
 SMOKING ATTRIBUTABLE YEARS OF POTENTIAL LIFE LOST  
 TO AGE 80 BY COUNTY  
 CALIFORNIA, 1985

COUNTY	YEARS OF POTENTIAL LIFE LOST		
	MALES ≥20 YRS OLD	FEMALES ≥20 YRS OLD	TOTAL
Alameda	10,488	5,321	15,810
Alpine	5	25	30
Amador	240	100	340
Butte	1,710	866	2,576
Calaveras	464	126	590
Colusa	178	51	229
Contra Costa	5,868	3,027	8,895
Del Norte	171	69	241
El Dorado	888	467	1,355
Fresno	4,614	1,850	6,463
Glenn	188	128	316
Humboldt	1,281	479	1,759
Imperial	957	261	1,218
Inyo	108	130	239
Kern	4,348	1,745	6,093
Kings	632	347	979
Lake	776	387	1,163
Lassen	197	105	302
Los Angeles	60,856	29,185	90,041
Madera	680	273	953
Marin	1,824	1,006	2,830
Mariposa	82	72	154
Mendocino	899	412	1,312
Merced	1,242	475	1,718
Modoc	79	9	88
Mono	25	11	35
Monterey	2,450	961	3,411
Napa	911	439	1,350
Nevada	629	263	892
Orange	15,271	7,107	22,378
Placer	1,441	606	2,047
Plumas	146	65	211
Riverside	8,119	3,634	11,753
Sacramento	7,543	3,588	11,132
San Benito	198	109	307
San Bernardino	9,681	3,872	13,553
San Diego	16,206	8,427	24,634
San Francisco	8,478	2,585	11,062
San Joaquin	3,990	1,709	5,699
San Luis Obispo	1,533	735	2,268
San Mateo	5,063	2,513	7,576
Santa Barbara	2,000	1,045	3,045
Santa Clara	7,997	4,358	12,354
Santa Cruz	1,136	783	1,919

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Table 7 (continued)

Shasta	1,469	695	2,164
Sierra	33	1	34
Siskiyou	393	175	568
Solano	2,499	945	3,444
Sonoma	2,800	1,286	4,087
Stanislaus	3,189	1,187	4,376
Sutter	541	267	808
Tehama	599	341	940
Trinity	73	43	116
Tulare	2,321	949	3,270
Tuolumne	397	310	708
Ventura	3,910	1,745	5,655
Yolo	1,081	468	1,549
Yuba	678	303	981
TOTAL CALIFORNIA	211,575	98,443	310,018

Source: California Chronic and Sentinel Diseases Surveillance Program  
California Department of Health Services

TI1700-1754

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

TABLE 8  
HEALTH CARE COSTS ATTRIBUTABLE TO SMOKING  
FOR COUNTY RESIDENTS BY COUNTY  
CALIFORNIA, 1985

COUNTY	COSTS
Alameda	\$177,924,772
Alpine	467,151
Amador	5,393,434
Butte	38,116,239
Calaveras	4,307,165
Colusa	3,860,528
Contra Costa	87,486,405
Del Norte	1,990,647
El Dorado	13,683,807
Fresno	60,436,944
Glenn	3,473,749
Humboldt	15,593,198
Imperial	18,157,191
Inyo	4,701,895
Kern	85,427,266
Kings	7,094,821
Lake	13,945,796
Lassen	2,365,265
Los Angeles	1,485,056,464
Madera	16,337,844
Martin	20,512,471
Martinez	4,874,840
Mendocino	11,902,471
Merced	12,904,075
Modoc	930,905
Monro	528,876
Monterey	31,248,523
Napa	29,845,756
Nevada	9,472,678
Orange	353,080,578
Placer	19,644,418
Plumas	2,346,549
Riverside	144,550,220
Sacramento	131,732,267
San Benito	2,277,829
San Bernardino	152,722,723
San Diego	284,927,099
San Francisco	147,429,218
San Joaquin	63,749,502
San Luis Obispo	32,865,563
San Mateo	79,690,524
Santa Barbara	38,084,004
Santa Clara	128,866,500
Santa Cruz	24,482,078
Shasta	26,072,912
Sierra	340,804

Sources: California Chronic and Sentinel Diseases  
 Surveillance Project  
 California Department of Health Services

3,375,394	Siskiyou
13,562,586	Solano
42,685,008	Sonoma
62,048,584	Stanislaus
6,839,998	Sutter
9,735,211	Tehama
2,359,024	Trinity
36,152,859	Tulare
6,835,436	Tuolumne
72,423,496	Ventura
16,496,907	Yolo
8,992,335	Yuba
\$4,082,420,801	TOTAL CALIFORNIA

Table 8 (continued)



Table 9  
 Age adjusted<sup>a</sup> mortality and hospital discharge rates  
 for smoking related diseases by sex and ethnic group  
 California, 1985

<u>Sex</u>	Mortality Rates/1,000			
	<u>Race</u>			
	White	Black	Hispanic	All Others
Males	4.67	5.92	3.46	5.49
Females	3.20	3.95	1.94	1.74

<u>Sex</u>	Hospital Discharge Rates/1,000			
	<u>Race</u>			
	White	Black	Hispanic	All Others
Males	32.27	45.29	26.38	41.89
Females	24.58	43.88	20.65	21.03

<sup>a</sup> Age-adjusted to California's 1980 population.

Source: California Chronic and Sentinel Diseases Surveillance Program  
 California Department of Health Services

TI1700-1757

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

Table 10

AGE ADJUSTED MORTALITY RATE (PER 1000) AND RELATIVE RATE FOR SMOKING RELATED DISEASES  
BY ETHNIC GROUP (MALES), CALIFORNIA COUNTIES, 1985

COUNTY	WHITE-NONHISPANIC		BLACK-NONHISPANIC		HISPANIC		OTHER-NONHISPANIC	
	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
ALAMEDA	4.63	0.99	6.04	1.02	3.43	0.99	6.04	1.10
ALPINE	.	.	.	.	.	.	.	.
AMADOR	4.56	0.97	.	.	.	.	.	.
BUTTE	4.26	0.91	.	.	.	.	.	.
CALAVERAS	4.79	1.02	.	.	.	.	.	.
COLUSA	5.43	1.16	.	.	.	.	.	.
CONTRA COSTA	4.65	0.99	6.47	1.09	2.48	0.72	4.28	0.78
DEL NORTE	4.69	1.00	.	.	.	.	.	.
EL DORADO	3.99	0.85	.	.	.	.	.	.
FRESNO	4.94	1.06	8.28	1.39	4.61	1.33	3.96	0.72
GLENN	5.00	1.07	.	.	.	.	.	.
HUMBOLDT	5.28	1.13	.	.	.	.	.	.
IMPERIAL	4.94	1.06	.	.	3.25	0.94	9.08	1.65
INYO	3.74	0.80	.	.	.	.	.	.
KERN	5.41	1.16*	6.56	1.10	4.94	1.42	7.38	1.34
KINGS	5.28	1.13	.	.	3.89	1.12	.	.
LAKE	5.38	1.15	.	.	.	.	.	.
LASSEN	4.99	1.07	.	.	.	.	.	.
LOS ANGELES	4.49	0.96*	5.78	0.97	3.35	0.97	5.06	0.93
MADERA	4.87	1.04	.	.	5.27	1.52	.	.
MARIN	4.93	1.05	.	.	.	.	.	.
MARIPOSA	3.83	0.82	.	.	.	.	.	.
MENDOCINO	5.83	1.25	.	.	.	.	.	.
MERCED	5.36	1.14	7.11	1.20	3.42	0.98	.	.
MODOC	.	.	.	.	.	.	.	.
MONO	.	.	.	.	.	.	.	.
MONTEREY	4.67	1.00	9.01	1.52	4.37	1.26	5.90	1.07
NABA	4.77	1.02	.	.	.	.	.	.
NEVADA	3.93	0.84	.	.	.	.	.	.
ORANGE	4.91	1.05	5.31	0.89	4.08	1.17	5.41	0.98
PLACER	4.57	0.98	.	.	.	.	.	.
PLUMAS	3.73	0.80	.	.	.	.	.	.
RIVERSIDE	5.06	1.08*	6.67	1.12	4.17	1.20	3.76	0.68
SACRAMENTO	4.90	1.05	5.38	0.91	3.83	1.10	6.86	1.25
SAN BERNITO	5.83	1.25	.	.	.	.	.	.

NOTES: RELATIVE RATE IS RATIO OF COUNTY TO STATEWIDE RATE.

\* MEANS COUNTY HAS SIGNIFICANTLY HIGHER OR LOWER MORTALITY THAN STATE.

. MEANS INSUFFICIENT DATA WAS AVAILABLE TO CALCULATE RATE.

SOURCE: CALIFORNIA CHRONIC AND SENTINEL DISEASES PROGRAM.

TI1700-1758

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

Table 10 (cont.)

AGE ADJUSTED MORTALITY RATE (PER 1000) AND RELATIVE RATE FOR SMOKING RELATED DISEASES  
BY ETHNIC GROUP (MALES), CALIFORNIA COUNTIES, 1985

COUNTY	WHITE-NONHISPANIC		BLACK-NONHISPANIC		HISPANIC		OTHER-NONHISPANIC	
	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
SAN BERNARDINO	5.67	1.21*	5.88	0.99	3.71	1.07	2.95	0.54
SAN DIEGO	4.37	0.93*	5.48	0.92	3.13	0.90	4.42	0.81
SAN FRANCISCO	4.98	1.08	8.15	1.04	2.74	0.79	6.23	1.13
SAN JOAQUIN	5.03	1.08	9.23	1.55*	3.82	1.10	12.27	2.23*
SAN LUIS OBISPO	4.38	0.93	.	.	3.48	1.00	.	.
SAN MATEO	4.17	0.89*	5.66	0.95	2.17	0.62	4.88	0.89
SANTA BARBARA	3.96	0.85*	.	.	3.88	1.12	.	.
SANTA CLARA	4.24	0.91*	6.20	1.04	3.64	1.05	6.29	1.13
SANTA CRUZ	4.37	0.93	.	.	4.72	1.38	9.79	1.78
SHASTA	4.22	0.90	.	.	.	.	.	.
SIERRA	.	.	.	.	.	.	.	.
SISKIYOU	4.18	0.89	.	.	.	.	.	.
SOLANO	5.82	1.24*	5.49	0.92	.	.	5.16	0.94
SONOMA	4.89	1.04	.	.	2.94	0.85	.	.
STANISLAUS	5.85	1.25*	12.09	2.04	3.05	0.88	.	.
SUTTER	5.33	1.14	.	.	.	.	.	.
TERAMA	5.09	1.09	.	.	.	.	.	.
TRINITY	3.69	0.79	.	.	.	.	.	.
TULARE	5.25	1.12	.	.	4.85	1.40	4.40	0.80
TUOLUMNE	4.68	1.00	.	.	.	.	.	.
VENTURA	4.40	0.94	.	.	3.04	0.88	5.44	0.99
YOLO	5.34	1.14	.	.	3.84	1.05	.	.
YUBA	5.88	1.26	.	.	.	.	.	.

NOTES: RELATIVE RATE IS RATIO OF COUNTY TO STATEWIDE RATE.

\* MEANS COUNTY HAS SIGNIFICANTLY HIGHER OR LOWER MORTALITY THAN STATE.

. MEANS INSUFFICIENT DATA WAS AVAILABLE TO CALCULATE RATE.

SOURCE: CALIFORNIA CHRONIC AND SENTINEL DISEASES PROGRAM.

TI1700-1759

Table 10 (cont.)

AGE ADJUSTED MORTALITY RATE (PER 1000) AND RELATIVE RATE FOR SMOKING RELATED DISEASES  
BY ETHNIC GROUP (FEMALES), CALIFORNIA COUNTIES, 1985

COUNTY	WHITE-NONHISPANIC		BLACK-NONHISPANIC		HISPANIC		OTHER-NONHISPANIC	
	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
ALAMEDA	3.33	1.04	3.60	0.91	1.71	0.88	1.97	1.13
ALPINE	.	.	.	.	.	.	.	.
AMADOR	2.37	0.74	.	.	.	.	.	.
BUTTE	2.93	0.92	.	.	.	.	.	.
CALAVERAS	2.68	0.84	.	.	.	.	.	.
COLUSA	2.74	0.86	.	.	.	.	.	.
CONTRA COSTA	3.06	0.96	4.30	1.09	1.39	0.72	1.63	0.94
DEL NORTE	3.47	1.09	.	.	.	.	.	.
EL DORADO	3.10	0.97	.	.	.	.	.	.
FRESNO	3.19	1.00	3.56	0.90	1.53	0.79	1.39	0.80
GLENN	2.92	0.92	.	.	.	.	.	.
HUMBOLDT	3.20	1.01	.	.	.	.	.	.
IMPERIAL	2.92	0.92	.	.	2.03	1.04	.	.
INYO	3.21	1.01	.	.	.	.	.	.
KERN	3.71	1.16*	4.70	1.19	1.78	0.92	.	.
KINGS	3.46	1.08	.	.	1.87	0.96	.	.
LAKE	3.78	1.19	.	.	.	.	.	.
LASSEN	3.11	0.98	.	.	.	.	.	.
LOS ANGELES	3.28	1.02	4.11	1.04	2.13	1.09	1.81	1.04
MADERA	2.74	0.86	.	.	.	.	.	.
MARIN	3.39	1.06	.	.	.	.	.	.
MARIPOSA	3.10	0.97	.	.	.	.	.	.
MENDOCINO	4.08	1.28*	.	.	.	.	.	.
MERCED	3.14	0.96	3.31	0.84	1.83	0.94	.	.
MODOC	.	.	.	.	.	.	.	.
MONO	.	.	.	.	.	.	.	.
MONTREY	3.61	1.13	5.80	1.47	2.07	1.07	1.37	0.79
NAVA	3.00	0.94	.	.	.	.	.	.
NEVADA	3.09	0.97	.	.	.	.	.	.
ORANGE	3.11	0.96	6.23	1.58	1.89	0.97	2.03	1.17
PLACER	3.00	0.94	.	.	.	.	.	.
PLUMAS	2.08	0.65	.	.	.	.	.	.
RIVERSIDE	3.14	0.96	4.09	1.04	2.06	1.06	1.84	1.06
SACRAMENTO	3.17	0.99	3.92	0.99	1.88	0.87	1.38	0.79
SAN BERNITO	3.69	1.16	.	.	.	.	.	.

NOTES: RELATIVE RATE IS RATIO OF COUNTY TO STATEWIDE RATE.

\* MEANS COUNTY HAS SIGNIFICANTLY HIGHER OR LOWER MORTALITY THAN STATE.

. MEANS INSUFFICIENT DATA WAS AVAILABLE TO CALCULATE RATE.

SOURCE: CALIFORNIA CHRONIC AND SENTINEL DISEASES SURVEILLANCE PROGRAM.

TI1700-1760

Table 10 (cont.)

AGE ADJUSTED MORTALITY RATE (PER 1000) AND RELATIVE RATE FOR SMOKING RELATED DISEASES  
BY ETHNIC GROUP (FEMALES), CALIFORNIA COUNTIES, 1985

COUNTY	WHITE-NONHISPANIC		BLACK-NONHISPANIC		HISPANIC		OTHER-NONHISPANIC	
	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE	MORTALITY RATE	RELATIVE RATE
SAN BERNARDINO	3.81	1.13*	4.68	1.19	2.19	1.13	.	.
SAN DIEGO	3.02	0.95	3.93	1.00	2.38	1.22	2.17	1.25
SAN FRANCISCO	2.91	0.91	3.44	0.87	1.66	0.85	1.86	0.96
SAN JOAQUIN	4.01	1.25*	4.09	1.04	1.56	0.81	1.32	0.75
SAN LUIS CRISPO	3.00	0.94	.	.	.	.	.	.
SAN MATEO	2.88	0.90*	3.34	0.85	1.84	0.95	2.48	1.43
SANTA BARBARA	2.84	0.89	.	.	1.80	0.82	.	.
SANTA CLARA	3.18	1.00	3.13	0.79	1.48	0.76	2.00	1.15
SANTA CRUZ	3.11	0.98	.	.	.	.	.	.
SHASTA	2.98	0.93	.	.	.	.	.	.
SIERRA	.	.	.	.	.	.	.	.
SISKIYOU	2.56	0.80	.	.	.	.	.	.
SOLANO	3.33	1.04	4.20	1.06	.	.	.	.
SONOMA	2.98	0.94	.	.	2.09	1.08	.	.
STANISLAUS	3.32	1.04	.	.	2.09	1.07	.	.
SUTTER	3.38	1.05	.	.	.	.	.	.
TEHAMA	3.46	1.09	.	.	.	.	.	.
TRINITY	2.63	0.82	.	.	.	.	.	.
TULARE	3.60	1.13	.	.	1.51	0.78	.	.
TUOLUMNE	3.19	1.00	.	.	.	.	.	.
VENTURA	2.87	0.84*	4.11	1.04	2.04	1.05	.	.
YOLO	3.47	1.09	.	.	.	.	.	.
YUBA	3.77	1.18	.	.	.	.	.	.

NOTES: RELATIVE RATE IS RATIO OF COUNTY TO STATEWIDE RATE.

\* MEANS COUNTY HAS SIGNIFICANTLY HIGHER OR LOWER MORTALITY THAN STATE.

. MEANS INSUFFICIENT DATA WAS AVAILABLE TO CALCULATE RATE.

SOURCE: CALIFORNIA CHRONIC AND SENTINEL DISEASES SURVEILLANCE PROGRAM.

TI1700-1761

Table 11

AGE ADJUSTED HOSPITAL DISCHARGE RATE (PER 1000) AND RELATIVE RATE FOR SMOKING RELATED DISEASES  
BY ETHNIC GROUP (MALES), CALIFORNIA COUNTIES, 1985

COUNTY	WHITE-NONHISPANIC		BLACK-NONHISPANIC		HISPANIC		OTHER-NONHISPANIC	
	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE
ALAMEDA	31.30	0.97*	44.84	0.99	19.26	0.73*	46.50	1.11*
ALPINE	.	.	.	.	.	.	.	.
AMADOR	34.06	1.05	.	.	.	.	.	.
BUTTE	33.32	1.03	28.53	0.83	20.35	0.77	20.69	0.49*
CALAVERAS	30.36	0.94	.	.	.	.	.	.
COLUSA	52.27	1.61*	.	.	.	.	.	.
CONTRA COSTA	29.58	0.91*	45.15	1.00	17.83	0.66*	50.19	1.19*
DEL NORTE	22.49	0.69*	.	.	.	.	.	.
EL DORADO	30.59	0.94	.	.	.	.	38.89	0.88
FRESNO	28.41	0.88*	49.52	1.08	37.50	1.42*	36.73	0.87
GLENN	24.34	0.75*	.	.	.	.	.	.
HUMBOLDT	35.11	1.08*	.	.	.	.	29.74	0.71
IMPERIAL	41.18	1.27*	34.83	0.77	40.93	1.55*	57.75	1.37
INYO	34.40	1.06	.	.	.	.	.	.
KERN	45.73	1.41*	49.13	1.08	36.23	1.37*	74.58	1.77*
KINGS	32.39	1.00	37.59	0.83	30.38	1.15	25.23	0.60
LAKE	38.85	1.14*	.	.	.	.	.	.
LASSSEN	28.19	0.87	.	.	.	.	.	.
LOS ANGELES	33.57	1.04*	46.12	1.02	27.32	1.04	45.66	1.08*
MADERA	54.05	1.67*	73.43	1.62*	56.35	2.14*	78.39	1.86*
MARIN	27.39	0.85*	49.73	1.10	7.65	0.29*	22.09	0.53*
MARIPOSA	22.76	0.70*	.	.	.	.	.	.
MENDOCINO	38.01	1.17*	.	.	.	.	39.33	0.72
MERCED	25.33	0.78*	28.48	0.63*	15.84	0.60*	15.24	0.36*
MODOC	.	.	.	.	.	.	.	.
MONO	20.59	0.64*	.	.	.	.	.	.
MONTREY	28.08	0.80*	35.64	0.79	31.66	1.20*	41.85	1.00
NAPA	64.19	1.98*	.	.	40.95	1.55*	.	.
NEVADA	28.72	0.89*	.	.	.	.	.	.
ORANGE	34.09	1.05*	54.36	1.20	22.88	0.87*	43.96	1.05
PLACER	31.59	0.97	.	.	9.68	0.37*	21.13	0.50*
PLUMAS	26.85	0.82	.	.	.	.	.	.
RIVERSIDE	36.20	1.12*	40.64	0.90	30.92	1.17*	52.03	1.24*
SACRAMENTO	28.54	0.88*	43.66	0.96	25.58	0.97	41.57	0.99
SAN BERNITO	30.72	0.95	.	.	18.86	0.71	.	.

NOTES: RELATIVE RATE IS RATIO OF COUNTY TO STATEWIDE RATE.

\* MEANS COUNTY HAS SIGNIFICANTLY HIGHER OR LOWER DISCHARGE RATE THAN STATE.

. MEANS INSUFFICIENT DATA WAS AVAILABLE TO CALCULATE RATE.

SOURCE: CALIFORNIA CHRONIC AND SENTINEL DISEASES SURVEILLANCE PROGRAM.

TI1700-1762

Table 11 (cont.)

AGE ADJUSTED HOSPITAL DISCHARGE RATE (PER 1000) AND RELATIVE RATE FOR SMOKING RELATED DISEASES  
BY ETHNIC GROUP (MALES), CALIFORNIA COUNTIES, 1965

COUNTY	WHITE-NONHISPANIC		BLACK-NONHISPANIC		HISPANIC		OTHER-NONHISPANIC	
	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE
SAN BERNARDINO	37.61	1.16*	47.28	1.04	35.89	1.36*	30.53	0.73*
SAN DIEGO	28.24	0.87*	42.87	0.95	21.74	0.82*	41.07	0.98
SAN FRANCISCO	29.74	0.92*	46.05	1.02	17.69	0.67*	33.22	0.79*
SAN JOAQUIN	40.47	1.25*	55.97	1.24*	32.65	1.24*	67.63	1.61*
SAN LUIS OBISPO	30.53	0.94	.	.	11.92	0.45*	23.09	0.55*
SAN MATEO	28.55	0.88*	39.04	0.86	11.38	0.43*	46.30	1.10
SANTA BARBARA	29.98	0.91*	37.20	0.82	25.85	0.98	47.33	1.13
SANTA CLARA	27.15	0.84*	44.81	0.99	25.50	0.97	45.52	1.08
SANTA CRUZ	28.57	0.88*	.	.	32.31	1.22	26.82	0.64*
SHASTA	36.45	1.12*	.	.	.	.	21.06	0.50*
SIERRA	31.85	0.98	.	.	.	.	.	.
SISKIYOU	23.92	0.74*	.	.	.	.	.	.
SOLANO	18.24	0.56*	6.93	0.15*	11.94	0.45*	12.84	0.31*
SONOMA	32.41	1.00	34.56	0.78	11.96	0.45*	17.61	0.42*
STANISLAUS	39.68	1.22*	89.14	1.97*	19.89	0.75*	25.35	0.63*
SUTTER	36.27	1.12*	.	.	16.46	0.62	14.89	0.35*
TEHAMA	31.24	0.96	.	.	.	.	.	.
TRINITY	31.79	0.98	.	.	.	.	.	.
TULARE	40.63	1.25*	46.05	1.02	40.88	1.55*	75.10	1.79*
TUOLUMNE	31.34	0.97	.	.	.	.	40.77	0.97
VENTURA	32.01	0.99	52.91	1.17	30.10	1.14*	37.29	0.89
YOLO	31.16	0.96	.	.	19.11	0.72	59.44	1.41
YUBA	43.10	1.33*	.	.	.	.	24.47	0.58

NOTES: RELATIVE RATE IS RATIO OF COUNTY TO STATEWIDE RATE.

\* MEANS COUNTY HAS SIGNIFICANTLY HIGHER OR LOWER DISCHARGE RATE THAN STATE.

. MEANS INSUFFICIENT DATA WAS AVAILABLE TO CALCULATE RATE.

SOURCE: CALIFORNIA CHRONIC AND SENTINEL DISEASES SURVEILLANCE PROGRAM.

TI1700-1763

Source: <http://industrydocuments.library.ucsf.edu/tobacco/docs/qhfk0062>

Table 11 (cont.)

AGE ADJUSTED HOSPITAL DISCHARGE RATE (PER 1000) AND RELATIVE RATE FOR SMOKING RELATED DISEASES  
BY ETHNIC GROUP (FEMALES), CALIFORNIA COUNTIES, 1985

COUNTY	WHITE-NONHISPANIC		BLACK-NONHISPANIC		HISPANIC		OTHER-NONHISPANIC	
	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE
ALAMEDA	24.58	1.00	38.62	0.88*	11.98	0.58*	22.28	1.06
ALPINE	.	.	.	.	.	.	.	.
AMADOR	22.54	0.91	.	.	.	.	.	.
BUTTE	24.29	0.98	25.95	0.59	6.24	0.30*	10.18	0.48
CALAVERAS	18.36	0.74*	.	.	.	.	.	.
COLUSA	38.55	1.56*	.	.	.	.	.	.
CONTRA COSTA	21.59	0.88*	40.26	0.92	12.47	0.80*	27.55	1.31*
DEL NORTE	17.47	0.71*	.	.	.	.	.	.
EL DORADO	22.25	0.90*	.	.	.	.	13.28	0.63
FRESNO	23.84	0.96	45.71	1.04	23.10	1.12*	24.18	1.15
GLENN	15.21	0.62*	.	.	.	.	.	.
HUMBOLDT	25.35	1.03	.	.	.	.	26.31	1.25
IMPERIAL	34.59	1.40*	38.10	0.87	38.52	1.77*	13.75	0.65
INYO	24.62	1.00	.	.	.	.	.	.
KERN	38.02	1.54*	51.38	1.17*	23.21	1.12	30.50	1.45*
KINGS	29.99	1.22*	31.25	0.71	26.78	1.30*	23.47	1.11
LAKE	28.67	1.16*	51.88	1.18	.	.	23.86	1.13
LASSEN	26.05	1.06	.	.	.	.	.	.
LOS ANGELES	26.03	1.05*	48.50	1.11*	23.93	1.16*	25.28	1.20*
MADERA	47.32	1.92*	97.89	2.23*	36.30	1.76*	37.40	1.78*
MARIN	18.14	0.74*	28.92	0.68	5.23	0.25*	18.28	0.87
MARIPOSA	24.02	0.97	.	.	.	.	.	.
MENDOCINO	26.34	1.15*	.	.	.	.	17.73	0.84
MERCED	20.07	0.81*	19.70	0.43*	11.81	0.57*	9.53	0.45*
MODOC	.	.	.	.	.	.	.	.
MONO	12.07	0.49*	.	.	.	.	.	.
MONTEREY	22.46	0.91*	24.29	0.55*	20.15	0.98	13.45	0.64*
NABA	38.62	1.57*	.	.	12.63	0.61	57.75	2.74*
NEVADA	21.95	0.89*	.	.	.	.	.	.
ORANGE	25.61	1.04*	56.54	1.29*	18.46	0.80*	20.90	0.99
PLACER	24.27	0.98	.	.	7.80	0.38*	13.59	0.65
PLUMAS	25.62	1.04	.	.	.	.	.	.
RIVERSIDE	26.26	1.06*	38.33	0.87*	20.05	0.97	28.76	1.41*
SACRAMENTO	20.16	0.82*	36.89	0.84*	11.46	0.55*	18.83	0.89
SAN BENITO	23.58	0.96	.	.	17.67	0.86	.	.

NOTES: RELATIVE RATE IS RATIO OF COUNTY TO STATEWIDE RATE.

\* MEANS COUNTY HAS SIGNIFICANTLY HIGHER OR LOWER DISCHARGE RATE THAN STATE.

. MEANS INSUFFICIENT DATA WAS AVAILABLE TO CALCULATE RATE.

SOURCE: CALIFORNIA CHRONIC AND SENTINEL DISEASES SURVEILLANCE PROGRAM.

TI1700-1764



Table 11 (cont.)

AGE ADJUSTED HOSPITAL DISCHARGE RATE (PER 1000) AND RELATIVE RATE FOR SMOKING RELATED DISEASES  
BY ETHNIC GROUP (FEMALES), CALIFORNIA COUNTIES, 1985

COUNTY	WHITE-NONHISPANIC		BLACK-NONHISPANIC		HISPANIC		OTHER-NONHISPANIC	
	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE	DISCHARGE RATE	RELATIVE RATE
SAN BERNARDINO	29.98	1.22*	47.95	1.09	24.98	1.21*	19.98	0.93
SAN DIEGO	21.96	0.89*	45.76	1.04	19.56	0.95	28.78	1.27*
SAN FRANCISCO	19.30	0.78*	37.83	0.86*	17.70	0.86*	14.07	0.67*
SAN JOAQUIN	34.31	1.39*	47.58	1.09	16.92	0.82*	14.56	0.69*
SAN LUIS OBISPO	24.58	1.00	.	.	7.54	0.37*	9.02	0.43*
SAN MATEO	19.27	0.78*	33.45	0.76*	10.96	0.53*	25.20	1.20*
SANTA BARBARA	22.23	0.90*	34.96	0.80	16.36	0.79*	13.51	0.65*
SANTA CLARA	20.01	0.81*	37.25	0.85	19.41	0.94	21.37	1.01
SANTA CRUZ	20.48	0.83*	.	.	17.04	0.82	6.01	0.29*
SHASTA	25.27	1.02	.	.	.	.	13.03	0.62
SIERRA	24.62	1.00	.	.	.	.	.	.
SISKIYOU	16.61	0.67*	.	.	.	.	.	.
SOLANO	13.43	0.54*	8.49	0.19*	5.31	0.25*	8.13	0.39*
SONOMA	20.10	0.82*	18.14	0.42*	3.57	0.17*	13.63	0.65
STANISLAUS	29.47	1.19*	39.06	0.89	12.83	0.61*	13.90	0.66*
SUTTER	26.94	1.09	.	.	9.06	0.44	7.92	0.38*
TEHAMA	28.34	1.15*	.	.	.	.	.	.
TRINITY	28.82	1.18	.	.	.	.	.	.
TULARE	35.82	1.45*	42.21	0.96	29.54	1.43*	35.69	1.70*
TUOLUMNE	24.51	0.99	.	.	.	.	.	.
VENTURA	24.45	0.99	34.80	0.79	20.07	0.97	18.51	0.69
YOLO	27.53	1.12*	.	.	11.20	0.54*	15.89	0.75
YUBA	36.79	1.49*	.	.	.	.	12.52	0.59

NOTES: RELATIVE RATE IS RATIO OF COUNTY TO STATEWIDE RATE.

\* MEANS COUNTY HAS SIGNIFICANTLY HIGHER OR LOWER DISCHARGE RATE THAN STATE.

. MEANS INSUFFICIENT DATA WAS AVAILABLE TO CALCULATE RATE.

SOURCE: CALIFORNIA CHRONIC AND SENTINEL DISEASES SURVEILLANCE PROGRAM.

TI1700-1765