

CANCER IN CALIFORNIA, 2003

CALIFORNIA CANCER REGISTRY



State of California, Department
of Health Services



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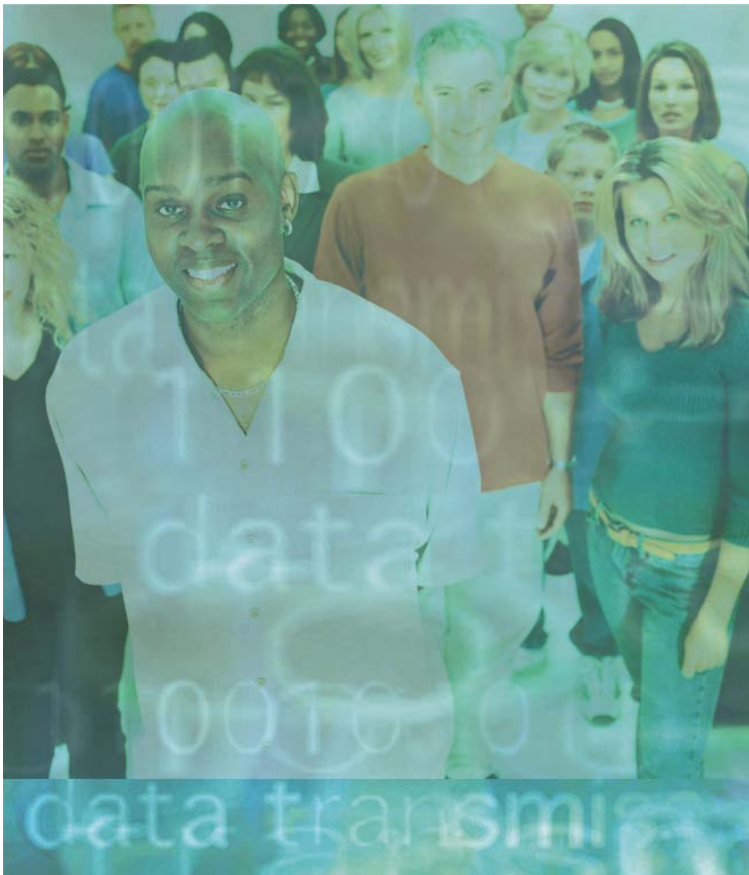
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The California Cancer Registry (CCR) is a collaborative effort between the California Department of Health Services (DHS) and the Public Health Institute. CCR would like to warmly thank California's cancer registrars and other persons responsible for cancer data collection for their dedication and hard work. Data collection and report production were funded in part by the Centers for Disease Control and Prevention National Program of Cancer Registries (U75/CCU910677), Tobacco Tax and Health Promotion Act of 1988, Breast Cancer Act of 1993, and National Cancer Institute, National Institutes of Health, under contract Number NO2-PC-15105.

INTRODUCTION

The Cancer Surveillance Section of DHS collects, analyzes, and disseminates information on the occurrence of cancer in California. Statewide, population-based cancer surveillance system monitors the incidence and mortality of specific cancers over time. Data are used in analysis of differential risks of cancer by geographic region, age, race/ethnicity, sex, and other characteristics of the population. Cancer incidence data are gathered through CCR, which conducts research and collaborates with other researchers on special cancer research projects concerning the etiology, treatment, risk factors, and prevention of specific cancers. In addition, the system is designed to monitor patient survival with respect to the type of cancer, extent of disease, therapy, demographics, and other prognostic factors. These analyses provide the foundation for studies evaluating the efficacy of clinical therapies, changes in diagnostic procedures, public awareness campaigns, and other cancer control initiatives.

Reporting of newly diagnosed cancers in California has been mandated by law since 1985 (1,2). Statutes called for regional population-based cancer registries to become operational and to begin reporting to a central statewide registry by no later than July 1, 1988. Statewide implementation was effective as of January 1, 1988.



TECHNICAL NOTES

This report summarizes the incidence and mortality of the major types of cancer diagnosed in California for the year 2000. CCR has published annual reports each year since 1991 with detailed information on the risks of developing and dying from cancer in California. The current report includes cancer incidence and mortality data for the year 2000, the most recent year for which cancer reporting is considered complete. In past years, the annual report has covered the entire time period for which CCR has collected data; however, for this report, only one year of data is being presented. At the time of production of this report, updated population estimates were not available. The California Department of Finance (DOF) Demographic Research Unit provides population estimates used as denominators in calculating rates. California's population estimates are subject to periodic revisions, which will modify the age-, race-, and sex-specific population distribution for all years in the series. The estimates approaching the next censal year are the most inaccurate. With the 2000 Census now available, DOF is in the process of revising the intercensal population estimates for the 1990s. Our next annual report will include incidence and mortality data from 1988 through 2001.

Incidence

A "case" is defined as a primary cancer; if a cancer resulted from spread from a primary site to another organ it is not counted as a new case. Except where noted, only invasive cancers are included in this report. This report includes cases diagnosed between January 1, 2000, and December 31, 2000, and reported to CCR as of February

2003. Only cases diagnosed in California residents are included in this report. Persons who were treated for cancer in California, but were residents of another state or country, are not included.

Mortality

Computerized files containing information on cancer-related deaths were obtained from DHS, Center for Health Statistics (CHS). Beginning in 1999 and thereafter, cause of death was coded by the International Classification of Diseases, Tenth Edition (ICD-10) (3). All mortality analyses presented in this report are the responsibility of the authors and were not reviewed or endorsed by CHS prior to publication. Only deaths among California residents were included in these analyses.

Age-Adjusted Rate: Age-adjusted rates are a weighted average of the age-specific rates, where the weights represent the age distribution of a standard population. Rates in this report are age-adjusted by the direct method to the 2000 U.S. population, and are calculated per 100,000 persons. Age-adjustment allows meaningful comparisons of cancer risk by controlling for differences in the age distribution of two populations, which can profoundly affect the crude cancer rates.

Expected Number of Cancer Cases and Deaths: Expected number of new cancer cases and deaths in 2003 were projected by applying current incidence and mortality rates, adjusted for California cancer trends, to population estimates from DOF for 2002 by county, age, and gender.

Prevalence Estimates: Estimates of prevalence in this report are based on rates from the Connecticut Tumor Registry

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(which has collected cancer data since 1935), and represent an attempt to quantify the number of persons in California who were ever diagnosed with cancer (4). Connecticut and California have similar cancer incidence rates for whites and blacks, and it was assumed that Connecticut and California prevalence rates for these two race/ethnic groups combined would also be similar. Site-, sex-, and age-specific incidence rates (ASR) for each of the four major race/ethnic groups in California were divided by the ASR for whites and blacks combined. This ratio was then multiplied by the 1994 Connecticut prevalence rate for the same sex, age category, and site (available through Surveillance, Epidemiology, and End Results Program at <http://www-seer.ims.nci.nih.gov/>), to produce a race-specific prevalence rate. Prevalence rates were applied to DOF estimates for 2000 to estimate the number of prevalent cancer cases in California.

Race/Ethnicity: Race/ethnicity is grouped into the mutually exclusive categories of non-Hispanic white, non-Hispanic black, Hispanic, and non-Hispanic Asian/Pacific Islander. A recent evaluation of the accuracy of American Indian classification on CCR demonstrated that a large proportion of American Indian cancer cases are coded as non-Hispanic white (5), based on information from the medical records. Rates are therefore not produced separately for American Indians.

Confidentiality

Maintaining the confidentiality of persons whose cancers are reported to CCR is mandated by law and is the highest priority in registry operations. No data presented in this report are intended to be used to identify individuals with cancer.

Public Use File

CCR is no longer able to provide a Public Use File. Signed into law on October 2, 2001, Senate Bill 683, prohibited the dissemination of a Public Use File. If you would like access to the data collected by CCR, a request must be submitted to CCR and approval from your committee for the protection of human subjects is required. For additional information, please contact CCR or visit our web site at <http://www.ccrca.org>.

REFERENCES

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2. Barclay's California Code of Regulations, Title 17, Section 2593. Neoplasm, Cancer. Pages 65-67.
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**CANCER CASES AND DEATHS IN
CALIFORNIA, 2003**

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Expected New Cancer Cases and Deaths in California — 2003

Site	Expected New Cases			Expected Deaths		
	Both Sexes	Males	Females	Both Sexes	Males	Females
All Sites	133,255	67,150	66,150	52,695	26,840	25,725
Oral Cavity and Pharynx	3,105	2,085	1,035	825	515	305
Digestive System	24,515	13,035	11,625	12,975	7,035	5,870
Esophagus	1,295	905	355	1,245	865	315
Stomach	2,525	1,505	1,010	1,530	905	615
Small Intestine	400	210	195	110	60	50
Colon excluding Rectum	10,165	4,980	5,245	4,275	2,135	2,140
Rectum and Rectosigmoid	4,080	2,300	1,805	825	445	375
Anus, Canal and Anorectum	455	185	270	65	25	40
Liver	1,640	1,130	490	1,285	880	405
Intrahepatic Bile Duct	240	140	110	280	150	135
Gallbladder	335	95	245	215	65	155
Other Biliary	385	200	185	155	70	90
Pancreas	2,895	1,420	1,470	2,795	1,375	1,415
Retroperitoneum	125	65	55	35	15	20
Respiratory System	18,515	10,275	8,195	14,230	7,950	6,385
Nasal Cavity, Middle Ear	185	100	85	30	20	20
Larynx	990	790	200	310	230	80
Lung and Bronchus	16,995	9,115	7,895	13,690	7,545	6,220
Pleura	280	230	50	30	25	5
Bones and Joints	260	150	110	140	75	70
Soft Tissue including Heart	880	480	400	405	205	205
Melanomas of the Skin	5,625	3,250	2,305	730	470	265
Other Non-Epithelial Skin	675	510	225	195	130	65
Breast	22,145	135	22,050	4,080	25	4,050
Female Genital System	8,380	0	8,380	2,635	0	2,635
Cervix Uteri	1,670	0	1,670	455	0	455
Corpus Uteri	3,500	0	3,500	285	0	285
Uterus, NOS	60	0	60	355	0	355
Ovary	2,615	0	2,615	1,405	0	1,405
Vagina	105	0	105	35	0	35
Vulva	310	0	310	65	0	65
Male Genital System	22,445	22,445	0	3,180	3,180	0
Prostate	21,370	21,370	0	3,120	3,120	0
Testis	940	940	0	50	50	0
Penis	90	90	0	15	15	0
Urinary System	8,785	6,165	2,555	2,320	1,535	785
Urinary Bladder	5,525	4,170	1,350	1,170	805	365
Kidney and Renal Pelvis	3,005	1,830	1,130	1,085	685	405
Ureter	150	85	65	35	20	10
Eye and Orbit	235	135	95	30	15	15
Brain and Other Nervous System	1,955	1,090	855	1,440	770	660
Thyroid Gland	2,105	505	1,585	140	55	80
Other Endocrine, Thymus	180	110	70	85	50	35
Hodgkin's Disease	810	435	370	155	85	70
Non-Hodgkin's Lymphomas	5,440	2,970	2,465	2,210	1,235	925
Multiple Myeloma	1,410	755	650	1,015	540	465
Leukemias	3,280	1,910	1,370	2,085	1,200	890
Lymphocytic Leukemia	1,335	780	545	590	345	245
Acute Lymphocytic Leukemia	525	305	230	180	105	75
Chronic Lymphocytic Leukemia	745	460	300	390	225	160
Myeloid Leukemia	1,520	855	665	975	545	430
Acute Myeloid Leukemia	955	540	420	710	400	315
Chronic Myeloid Leukemia	450	265	185	195	110	85
Monocytic Leukemia	80	45	30	20	10	10
Acute Monocytic Leukemia	75	45	30	15	10	5
Chronic Monocytic Leukemia	5	0	0	0	0	0
Ill Defined/Unknown	3,585	1,715	1,885	3,725	1,840	1,850

Prepared by the California Department of Health Services, Cancer Surveillance Section.
 Source: California Cancer Registry, California Department of Health Services. Excludes non-melanoma skin cancers and carcinoma *in situ*, except bladder. Deaths include persons who may have been diagnosed in previous years. These projections are offered as a rough guide, and should not be regarded as definitive.

* Male and Female cases and deaths do not sum up to the total because of rounding of numbers.

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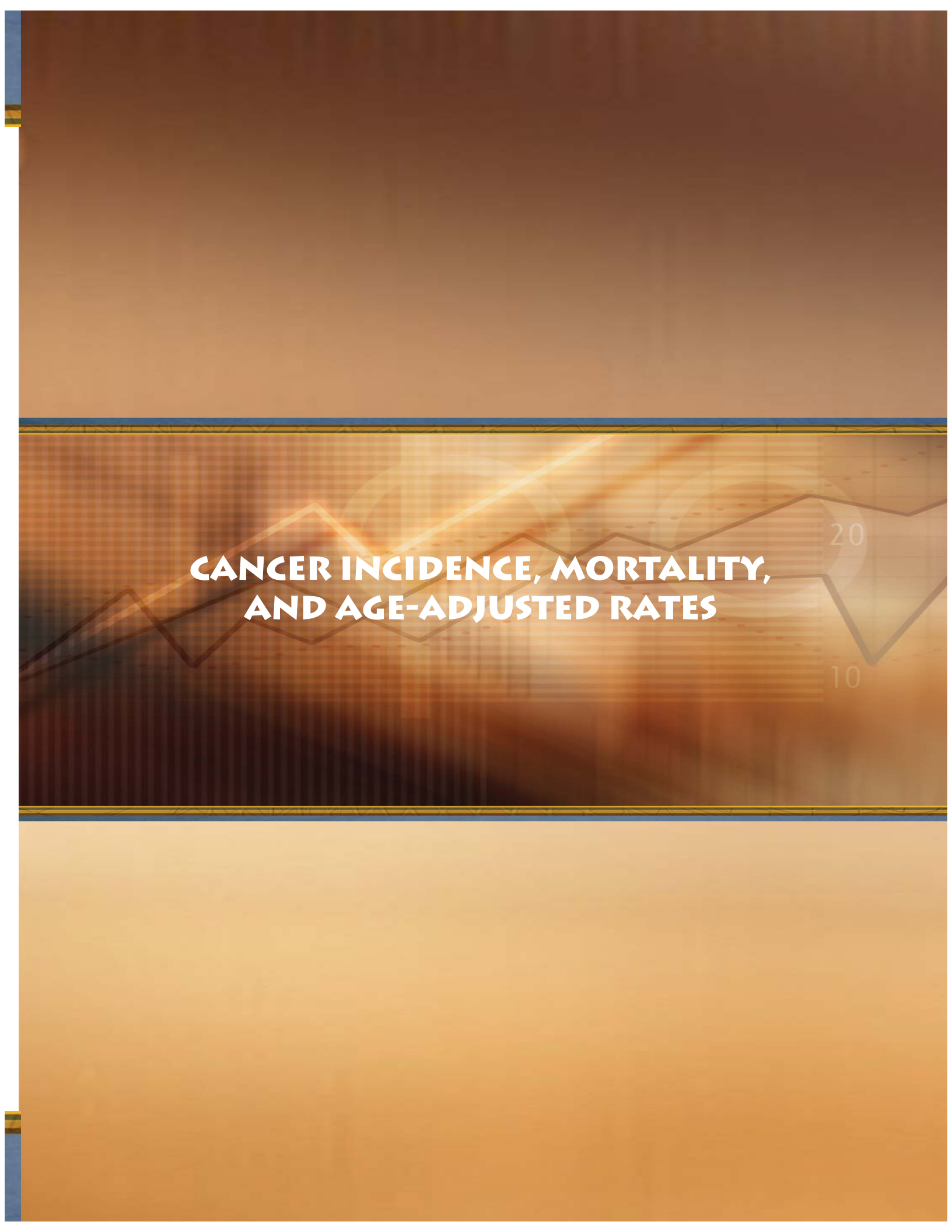
Estimated California Cancer Prevalence All Races, by Sex, and Site, 2003

Primary Site	Male	Female	Both Sexes
All sites	381,800	524,500	906,300
Brain and Other Central Nervous System	5,400	4,700	10,100
Breast	1,400	212,300	213,600
Cervix	0	34,200	34,200
Colon	46,200	49,400	95,600
Colorectal	68,800	67,200	136,000
Corpus Uteri	0	53,800	53,800
Corpus and Uterus NOS*	0	55,900	55,900
Esophagus	1,800	700	2,500
Hodgkin's Disease	8,900	7,400	16,300
Kaposi's Sarcoma	1,200	300	1,400
Kidney	14,500	9,100	23,600
Larynx	11,800	2,400	14,200
Leukemia	10,200	7,800	17,900
Liver and Intrahepatic Bile Duct	1,300	700	2,000
Lung and Bronchus	23,200	18,100	41,300
Melanoma	19,800	20,200	40,000
Multiple Myeloma	2,500	2,000	4,500
Non Hodgkin's Lymphoma	17,200	16,200	33,400
Oral Cavity and Pharynx	14,700	8,200	22,900
Ovary	0	21,700	21,700
Pancreas	1,400	1,400	2,800
Prostate	105,900	0	105,900
Rectum	24,000	18,800	42,800
Stomach	6,300	5,400	11,700
Testis	13,600	0	13,600
Thyroid	6,500	21,600	28,000
Urinary Bladder	45,300	15,400	60,700

Prepared by the California Department of Health Services, Cancer Surveillance Section.

Source: California Cancer Registry (February 2002) and the 1994 cancer prevalence rates from the Connecticut Registry of the SEER program.

* NOS = not otherwise specified



**CANCER INCIDENCE, MORTALITY,
AND AGE-ADJUSTED RATES**

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Table 1
Cancer Incidence, Mortality, and Age-Adjusted (2000 U.S. Population) Rates per 100,000 Population by Primary Site, Race/Ethnicity, and Sex, California, 2000

	All Races											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive ¹	132,514	66,888	65,626	445.4	513.2	400.5	53,001	26,755	26,246	175.7	209.1	154.3
All Sites	3,131	2,090	1,041	10.4	15.3	6.4	799	503	296	2.6	3.7	1.7
Oral Cavity and Pharynx	318	230	88	1.1	1.8	0.5	8	7	1	-	-	-
Lip	810	532	278	2.7	3.8	1.7	206	123	83	0.7	0.9	0.5
Tongue	353	212	141	1.2	1.6	0.9	56	41	15	0.2	0.3	0.1
Salivary Gland	194	138	56	0.7	1.0	0.3	24	16	8	0.1	0.1	-
Floor of Mouth	424	222	202	1.4	1.6	1.2	126	64	62	0.4	0.5	0.4
Gum and Other Mouth	237	155	82	0.8	1.0	0.5	99	62	37	0.3	0.4	0.2
Nasopharynx	432	339	93	1.4	2.4	0.6	62	42	20	0.2	0.3	0.1
Tonsil	75	55	20	0.3	0.4	0.1	49	32	17	0.2	0.2	0.1
Oropharynx	213	158	55	0.7	1.2	0.3	44	31	13	0.1	0.2	-
Hypopharynx	75	49	26	0.3	0.4	0.2	125	85	40	0.4	0.6	0.2
Other Oral Cavity and Pharynx	24,918	13,247	11,671	85.1	103.6	70.5	13,318	7,135	6,183	44.3	55.0	35.9
Digestive System	1,148	837	311	3.9	6.5	1.9	1,153	853	300	3.8	6.4	1.8
Esophagus	2,584	1,566	1,018	8.8	12.3	6.1	1,584	916	668	5.2	7.0	3.9
Stomach	416	209	207	1.4	1.6	1.3	109	49	60	0.4	0.4	0.4
Small Intestine	14,181	7,215	6,966	48.6	57.0	42.0	5,185	2,588	2,597	17.3	20.5	15.0
Colon and Rectum	3,553	1,906	1,647	12.1	14.9	10.0	-	-	-	-	-	-
Stage I Colon and Rectum	3,891	1,928	1,963	13.4	15.5	11.8	-	-	-	-	-	-
Stage II Colon and Rectum	3,162	1,539	1,623	10.8	12.0	9.8	-	-	-	-	-	-
Stage III Colon and Rectum	2,469	1,282	1,187	8.4	9.9	7.2	-	-	-	-	-	-
Stage IV Colon and Rectum	743	366	377	2.6	3.2	2.2	-	-	-	-	-	-
Unknown Stage Colon and Rectum	10,112	4,915	5,197	34.8	39.3	31.2	4,374	2,113	2,261	14.6	16.9	13.0
Colon	2,148	1,123	1,025	7.4	8.9	6.2	-	-	-	-	-	-
Stage I Colon	3,014	1,430	1,584	10.4	11.6	9.5	-	-	-	-	-	-
Stage II Colon	2,320	1,058	1,262	8.0	8.4	7.6	-	-	-	-	-	-
Stage III Colon	2,469	1,282	1,187	8.4	9.9	7.2	-	-	-	-	-	-
Stage IV Colon	497	231	266	1.8	2.0	1.5	-	-	-	-	-	-
Unknown Stage Colon	4,069	2,300	1,769	13.8	17.6	10.8	811	475	336	2.7	3.6	2.0
Rectum and Rectosigmoid Junction	1,405	783	622	4.8	6.0	3.8	-	-	-	-	-	-
Stage I Rectum	877	498	379	3.0	3.9	2.3	-	-	-	-	-	-
Stage II Rectum	842	481	361	2.8	3.6	2.2	-	-	-	-	-	-
Stage III Rectum	570	336	234	1.9	2.5	1.4	-	-	-	-	-	-
Stage IV Rectum	246	135	111	0.9	1.2	0.7	-	-	-	-	-	-
Unknown Stage Rectum	489	218	271	1.6	1.6	1.7	83	39	44	0.3	0.3	0.3
Anus, Anal Canal, and Anorectum	1,652	1,193	459	5.5	8.8	2.8	1,404	969	435	4.6	7.0	2.6
Liver	203	110	93	0.7	0.9	0.6	309	158	151	1.0	1.2	0.9
Intrahepatic Bile Duct	327	85	242	1.1	0.7	1.5	212	62	150	0.7	0.5	0.9
Gallbladder	483	254	229	1.7	2.1	1.4	205	85	120	0.7	0.7	0.7
Other Biliary	2,990	1,416	1,574	10.3	11.2	9.5	2,876	1,350	1,526	9.6	10.4	8.9
Pancreas	114	61	53	0.4	0.4	0.3	28	16	12	0.1	0.1	-
Retropertoneum	216	29	187	0.7	0.2	1.2	73	6	67	0.2	-	0.4
Peritoneum, Omentum, and Mesentery	115	54	61	0.4	0.4	0.4	97	44	53	0.3	0.3	0.3
Other Digestive	18,367	10,263	8,104	63.0	80.8	49.8	14,020	7,722	6,298	46.8	59.6	37.4
Respiratory System	194	120	74	0.6	0.9	0.5	41	24	17	0.1	0.2	0.1
Nasal Cavity, Middle Ear, and Sinuses	930	751	179	3.2	5.7	1.1	279	226	53	0.9	1.7	0.3
Larynx	16,897	9,133	7,764	58.0	72.1	47.7	13,651	7,440	6,211	45.6	57.5	36.9
Lung and Bronchus	290	218	72	1.0	1.8	0.4	11	5	6	-	-	-
Pleura	56	41	15	0.2	0.3	0.1	38	27	11	0.1	0.2	-
Trachea, Mediastinum, and Other Respiratory	315	236	79	1.1	1.9	0.5	245	196	49	0.8	1.5	0.3
Mesothelioma, All Sites	287	172	115	0.9	1.0	0.7	138	70	68	0.4	0.5	0.4
Bones and Joints	897	475	422	2.9	3.3	2.5	395	216	179	1.3	1.5	1.1
Soft Tissue including Heart	6,078	3,656	2,422	19.8	26.6	14.6	1,007	638	369	3.3	4.9	2.2
Skin	5,277	3,081	2,196	17.2	22.4	13.3	764	467	297	2.5	3.5	1.8
Melanoma of the Skin	801	575	226	2.6	4.2	1.3	243	171	72	0.8	1.4	0.4
Other Non-Epithelial Skin	274	255	19	0.8	1.6	0.1	8	5	3	-	-	-
Kaposi's Sarcoma, All Sites	21,664	158	21,506	71.9	1.3	132.5	4,263	40	4,223	13.9	0.3	25.0
Breast	10,022	60	9,962	33.6	0.5	61.6	-	-	-	-	-	-
Stage I Breast	5,447	58	5,389	18.0	0.5	33.2	-	-	-	-	-	-
Stage IIa Breast	2,699	18	2,681	8.8	0.1	16.5	-	-	-	-	-	-
Stage IIb Breast	1,497	8	1,489	4.9	-	9.1	-	-	-	-	-	-
Stage III Breast	837	7	830	2.8	-	5.1	-	-	-	-	-	-
Stage IV Breast	977	6	971	3.3	-	5.9	-	-	-	-	-	-
Unknown Stage Breast												

Prepared by the California Department of Health Services, Cancer Surveillance Section.
 Source: California Cancer Registry (February 2003) and DHS Center for Health Statistics Death Certificate Master Files.
 Note: Stage at diagnosis is based on Surveillance, Epidemiology, and End Results (SEER) extent of disease converted to summary stage consistent with the Manual Staging of Cancer, third edition of the American Joint Committee on Cancer, as modified by SEER. Cases which could not be staged due to coding error are excluded. Breast cancer rates by stage of diagnosis exclude Stage II, NOS. NOS = not otherwise specified. Race/ethnicity categories are mutually exclusive. Person of Hispanic origin may be of any race.

1 *In situ* cancers of the urinary bladder are included with invasive cancers.

CANCER IN CALIFORNIA, 2003

Table 1
Cancer Incidence, Mortality, and Age-Adjusted (2000 U.S. Population) Rates per 100,000 Population by Primary Site, Race/Ethnicity, and Sex, California, 2000 (Continued)

	All Races											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive¹												
Female Genital System	8,382	-	8,382	27.5	-	51.3	2,775	-	2,775	9.1	-	16.4
Cervix	1,631	-	1,631	5.1	-	9.8	472	-	472	1.5	-	2.8
Stage I Cervix	895	-	895	2.7	-	5.4	-	-	-	-	-	-
Stage II Cervix	240	-	240	0.8	-	1.5	-	-	-	-	-	-
Stage III Cervix	249	-	249	0.8	-	1.5	-	-	-	-	-	-
Stage IV Cervix	175	-	175	0.6	-	1.1	-	-	-	-	-	-
Unknown Stage Cervix	67	-	67	0.2	-	0.4	-	-	-	-	-	-
Corpus Uteri including NOS	3,564	-	3,564	11.9	-	22.0	641	-	641	2.1	-	3.8
Corpus Uteri	3,490	-	3,490	11.7	-	21.6	296	-	296	1.0	-	1.8
Uterus, NOS	74	-	74	0.3	-	0.4	345	-	345	1.1	-	2.0
Ovary	2,652	-	2,652	8.7	-	16.2	1,548	-	1,548	5.1	-	9.2
Vagina	127	-	127	0.4	-	0.8	37	-	37	0.1	-	0.2
Vulva	291	-	291	1.0	-	1.8	54	-	54	0.2	-	0.3
Other Female Genital	117	-	117	0.4	-	0.7	23	-	23	0.1	-	0.1
Male Genital System	21,014	21,014	-	71.6	161.5	-	3,080	3,080	-	10.5	27.0	-
Prostate	19,956	19,956	-	68.5	155.3	-	3,008	3,008	-	10.3	26.6	-
Testis	927	927	-	2.6	5.2	-	49	49	-	0.1	0.3	-
Penis	88	88	-	0.3	0.7	-	18	18	-	0.1	0.2	-
Other Male Genital	43	43	-	0.1	0.3	-	5	5	-	-	-	-
Urinary System	8,838	6,243	2,595	30.2	49.6	15.7	2,214	1,485	729	7.4	11.9	4.2
Urinary Bladder, including <i>in situ</i>	5,589	4,204	1,385	19.3	34.3	8.3	1,072	745	327	3.6	6.3	1.9
Invasive Urinary Bladder	2,783	2,051	732	9.6	16.9	4.4	-	-	-	-	-	-
<i>In Situ</i> Urinary Bladder	2,806	2,153	653	9.6	17.3	4.0	-	-	-	-	-	-
Kidney and Renal Pelvis	3,021	1,892	1,129	10.1	14.1	6.9	1,092	708	384	3.6	5.4	2.3
Ureter	133	78	55	0.5	0.7	0.3	30	20	10	0.1	0.2	-
Other Urinary	95	69	26	0.3	0.6	0.2	20	12	8	0.1	-	-
Eye and Orbit	245	150	95	0.8	1.1	0.6	23	15	8	0.1	0.1	-
Brain and Central Nervous System	1,882	1,072	810	6.0	7.3	4.9	1,376	768	608	4.4	5.3	3.6
Brain	1,776	1,023	753	5.6	7.0	4.5	1,350	758	592	4.3	5.3	3.5
Other Central Nervous System	106	49	57	0.3	0.3	0.3	26	10	16	0.1	-	0.1
Endocrine System	2,384	645	1,739	7.3	4.2	10.4	244	117	127	0.8	0.8	0.7
Thyroid	2,187	533	1,654	6.7	3.5	9.9	149	59	90	0.5	0.4	0.5
Other Endocrine including Thymus	197	112	85	0.6	0.7	0.5	95	58	37	0.3	0.4	0.2
Lymphomas	6,152	3,346	2,806	20.2	24.1	17.0	2,411	1,271	1,140	8.0	9.8	6.7
Hodgkin's Disease	738	430	308	2.2	2.6	1.8	128	65	63	0.4	0.5	0.4
Non-Hodgkin's Lymphoma	5,414	2,916	2,498	18.0	21.4	15.2	2,283	1,206	1,077	7.6	9.3	6.3
Multiple Myeloma	1,423	763	660	4.8	5.9	4.0	936	481	455	3.1	3.8	2.7
Leukemia	3,324	1,900	1,424	10.9	14.0	8.5	2,108	1,208	900	6.9	9.3	5.2
Lymphocytic Leukemia	1,409	825	584	4.5	5.9	3.5	631	365	266	2.1	2.8	1.5
Acute Lymphocytic Leukemia	586	323	263	1.7	1.9	1.5	216	124	92	0.7	0.8	0.5
Chronic Lymphocytic Leukemia	779	474	305	2.7	3.8	1.8	390	227	163	1.3	1.9	0.9
Other Lymphocytic Leukemia	44	28	16	0.1	0.2	0.1	25	14	11	0.1	-	-
Myeloid Leukemia	1,543	861	682	5.1	6.5	4.1	958	559	399	3.1	4.2	2.3
Acute Myeloid Leukemia	1,080	586	494	3.6	4.5	3.0	702	396	306	2.3	3.0	1.8
Chronic Myeloid Leukemia	444	263	181	1.5	1.9	1.1	186	116	70	0.6	0.8	0.4
Other Myeloid Leukemia	19	12	7	0.1	-	-	70	47	23	0.2	0.4	0.1
Monocytic Leukemia	98	61	37	0.3	0.5	0.2	13	9	4	-	-	-
Acute Monocytic Leukemia	94	59	35	0.3	0.4	0.2	8	6	2	-	-	-
Chronic Monocytic Leukemia	2	-	2	-	-	-	2	1	1	-	-	-
Other Monocytic Leukemia	2	2	-	-	-	-	3	2	1	-	-	-
Other Leukemia	274	153	121	0.9	1.2	0.7	506	275	231	1.7	2.2	1.3
Other Acute Leukemia	92	50	42	0.3	0.4	0.2	267	141	126	0.9	1.1	0.7
Other Chronic Leukemia	3	1	2	-	-	-	14	8	6	-	-	-
Other and NOS Leukemia	179	102	77	0.6	0.8	0.5	225	126	99	0.7	1.0	0.6
Ill Defined/Unknown	3,528	1,694	1,834	12.1	13.6	11.0	3,641	1,805	1,836	12.1	14.1	10.7
<i>In Situ</i>												
<i>In Situ</i> Colon and Rectum	835	450	385	2.8	3.5	2.3	-	-	-	-	-	-
<i>In Situ</i> Melanoma of the Skin	3,322	1,932	1,390	11.0	14.6	8.4	-	-	-	-	-	-
<i>In Situ</i> Breast	4,332	21	4,311	14.3	0.2	26.7	-	-	-	-	-	-

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Prepared by the California Department of Health Services, Cancer Surveillance Section.

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Note: Stage at diagnosis is based on Surveillance, Epidemiology, and End Results (SEER) extent of disease converted to summary stage consistent with the Manual Staging of Cancer, third edition of the American Joint Committee on Cancer, as modified by SEER. Cases which could not be staged due to coding error are excluded. Breast cancer rates by stage of diagnosis exclude Stage II, NOS. NOS = not otherwise specified. Race/ethnicity categories are mutually exclusive. Person of Hispanic origin may be of any race.

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CANCER IN CALIFORNIA, 2003

Table 1
Cancer Incidence, Mortality, and Age-Adjusted (2000 U.S. Population) Rates per 100,000 Population by Primary Site, Race/Ethnicity, and Sex, California, 2000 (Continued)

	Asian/Pacific Islander											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive ¹												
All Sites	10,044	4,818	5,226	309.5	350.6	282.3	3,956	2,140	1,816	130.5	159.6	107.8
Oral Cavity and Pharynx	293	175	118	8.4	11.1	6.2	103	69	34	3.2	4.4	2.0
Lip	-	-	-	-	-	-	-	-	-	-	-	-
Tongue	51	27	24	1.5	1.8	1.3	18	8	10	0.6	-	-
Salivary Gland	35	19	16	1.0	1.2	0.8	2	2	-	-	-	-
Floor of Mouth	10	9	1	-	-	-	3	3	-	-	-	-
Gum and Other Mouth	33	12	21	1.1	-	1.2	11	5	6	-	-	-
Nasopharynx	124	78	46	3.3	4.4	2.3	47	34	13	1.3	2.0	-
Tonsil	24	17	7	0.7	1.2	-	3	3	-	-	-	-
Oropharynx	3	2	1	-	-	-	4	2	2	-	-	-
Hypopharynx	11	10	1	-	-	-	4	3	1	-	-	-
Other Oral Cavity and Pharynx	2	1	1	-	-	-	11	9	2	-	-	-
Digestive System	2,721	1,509	1,212	88.2	111.4	70.3	1,463	846	617	48.7	62.2	37.7
Esophagus	76	50	26	2.5	3.7	1.6	56	36	20	1.9	2.7	1.3
Stomach	463	264	199	15.6	20.4	12.0	306	175	131	10.3	13.3	8.0
Small Intestine	36	24	12	1.1	1.7	-	12	6	6	-	-	-
Colon and Rectum	1,307	673	634	41.9	49.8	36.1	407	231	176	13.7	17.3	10.8
Stage I Colon and Rectum	318	184	134	9.9	13.4	7.4	-	-	-	-	-	-
Stage II Colon and Rectum	350	171	179	11.5	12.3	10.6	-	-	-	-	-	-
Stage III Colon and Rectum	342	170	172	11.0	13.0	9.6	-	-	-	-	-	-
Stage IV Colon and Rectum	217	101	116	6.7	7.0	6.4	-	-	-	-	-	-
Unknown Stage Colon and Rectum	54	32	22	2.1	2.9	1.5	-	-	-	-	-	-
Colon	853	420	433	28.0	31.9	25.1	326	179	147	11.0	13.5	9.0
Stage I Colon	158	94	64	5.1	7.0	3.6	-	-	-	-	-	-
Stage II Colon	260	122	138	8.6	8.8	8.3	-	-	-	-	-	-
Stage III Colon	237	115	122	7.8	9.2	6.9	-	-	-	-	-	-
Stage IV Colon	217	101	116	6.7	7.0	6.4	-	-	-	-	-	-
Unknown Stage Colon	32	19	13	1.3	1.9	-	-	-	-	-	-	-
Rectum and Rectosigmoid Junction	454	253	201	14.0	17.9	11.0	81	52	29	2.7	3.8	1.8
Stage I Rectum	160	90	70	4.9	6.3	3.8	-	-	-	-	-	-
Stage II Rectum	90	49	41	2.9	3.6	2.4	-	-	-	-	-	-
Stage III Rectum	105	55	50	3.2	3.8	2.7	-	-	-	-	-	-
Stage IV Rectum	67	40	27	1.9	2.7	1.3	-	-	-	-	-	-
Unknown Stage Rectum	22	13	9	0.8	-	-	-	-	-	-	-	-
Anus, Anal Canal, and Anorectum	14	8	6	-	-	-	2	-	2	-	-	-
Liver	420	302	118	12.8	20.4	6.6	345	237	108	10.8	16.1	6.4
Intrahepatic Bile Duct	32	18	14	1.1	1.3	-	38	16	22	1.3	1.1	1.4
Gallbladder	37	11	26	1.2	-	1.5	28	12	16	0.9	-	1.0
Other Biliary	68	35	33	2.3	2.9	2.0	19	11	8	0.7	-	-
Pancreas	244	118	126	8.4	9.5	7.6	232	113	119	8.0	8.8	7.4
Retroperitoneum	11	5	6	-	-	-	2	2	-	-	-	-
Peritoneum, Omentum, and Mesentery	10	1	9	-	-	-	5	1	4	-	-	-
Other Digestive	3	-	3	-	-	-	11	6	5	-	-	-
Respiratory System	1,340	855	485	43.6	63.9	28.1	928	610	318	31.4	46.5	19.4
Nasal Cavity, Middle Ear, and Sinuses	21	13	8	0.6	-	-	4	3	1	-	-	-
Larynx	35	31	4	1.0	2.1	-	12	10	2	-	-	-
Lung and Bronchus	1,262	801	461	41.2	60.3	26.7	908	595	313	30.7	45.4	19.1
Pleura	11	4	7	-	-	-	-	-	-	-	-	-
Trachea, Mediastinum, and Other Respiratory	11	6	5	-	-	-	4	2	2	-	-	-
Mesothelioma, All Sites	11	4	7	-	-	-	4	1	3	-	-	-
Bones and Joints	30	15	15	0.8	0.8	0.8	10	7	3	-	-	-
Soft Tissue including Heart	66	37	29	1.9	2.4	1.5	30	15	15	0.9	0.9	0.8
Skin	68	32	36	2.1	2.2	1.9	15	6	9	0.5	-	-
Melanoma of the Skin	38	14	24	1.2	-	1.3	10	4	6	-	-	-
Other Non-Epithelial Skin	30	18	12	0.9	1.2	-	5	2	3	-	-	-
Kaposi's Sarcoma, All Sites	4	4	-	-	-	-	-	-	-	-	-	-
Breast	1,701	2	1,699	47.2	-	86.4	260	2	258	7.6	-	14.1
Stage I Breast	744	-	744	20.9	-	38.1	-	-	-	-	-	-
Stage IIa Breast	456	1	455	12.6	-	23.0	-	-	-	-	-	-
Stage IIb Breast	235	-	235	6.3	-	11.7	-	-	-	-	-	-
Stage III Breast	126	-	126	3.4	-	6.3	-	-	-	-	-	-
Stage IV Breast	58	-	58	1.6	-	3.0	-	-	-	-	-	-
Unknown Stage Breast	68	1	67	2.0	-	3.6	-	-	-	-	-	-

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CANCER IN CALIFORNIA, 2003

Table 1
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	Asian/Pacific Islander											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive¹												
Female Genital System	707	-	707	20.0	-	36.5	199	-	199	6.2	-	11.4
Cervix	164	-	164	4.6	-	8.4	53	-	53	1.6	-	2.9
Stage I Cervix	83	-	83	2.3	-	4.2	-	-	-	-	-	-
Stage II Cervix	28	-	28	0.8	-	1.5	-	-	-	-	-	-
Stage III Cervix	33	-	33	1.0	-	1.8	-	-	-	-	-	-
Stage IV Cervix	16	-	16	0.4	-	0.8	-	-	-	-	-	-
Unknown Stage Cervix	4	-	4	-	-	-	-	-	-	-	-	-
Corpus Uteri including NOS	277	-	277	7.8	-	14.2	38	-	38	1.2	-	2.3
Corpus Uteri	272	-	272	7.6	-	13.9	20	-	20	0.7	-	1.2
Uterus, NOS	5	-	5	-	-	-	18	-	18	0.6	-	1.1
Ovary	225	-	225	6.3	-	11.5	103	-	103	3.2	-	5.9
Vagina	14	-	14	-	-	-	3	-	3	-	-	-
Vulva	17	-	17	0.6	-	1.0	1	-	1	-	-	-
Other Female Genital	10	-	10	-	-	-	1	-	1	-	-	-
Male Genital System	1,180	1,180	-	38.0	87.5	-	128	128	-	4.9	11.4	-
Prostate	1,129	1,129	-	36.7	84.7	-	122	122	-	4.8	11.0	-
Testis	39	39	-	0.9	1.9	-	2	2	-	-	-	-
Penis	7	7	-	-	-	-	4	4	-	-	-	-
Other Male Genital	5	5	-	-	-	-	-	-	-	-	-	-
Urinary System	445	307	138	14.8	23.4	8.2	100	70	30	3.4	5.4	1.9
Urinary Bladder, including <i>in situ</i>	254	189	65	8.9	15.0	4.2	33	23	10	1.2	1.9	-
Invasive Urinary Bladder	144	104	40	5.2	8.6	2.6	-	-	-	-	-	-
<i>In Situ</i> Urinary Bladder	110	85	25	3.7	6.4	1.6	-	-	-	-	-	-
Kidney and Renal Pelvis	176	110	66	5.4	7.7	3.5	67	47	20	2.2	3.5	1.3
Ureter	11	7	4	-	-	-	-	-	-	-	-	-
Other Urinary	4	1	3	-	-	-	-	-	-	-	-	-
Eye and Orbit	6	4	2	-	-	-	1	1	-	-	-	-
Brain and Central Nervous System	105	60	45	2.8	3.6	2.3	67	40	27	2.0	2.5	1.5
Brain	100	57	43	2.7	3.4	2.1	64	39	25	1.8	2.4	1.3
Other Central Nervous System	5	3	2	-	-	-	3	1	2	-	-	-
Endocrine System	315	71	244	8.4	4.1	12.1	30	10	20	1.0	-	1.2
Thyroid	296	59	237	7.8	3.4	11.7	23	5	18	0.8	-	1.1
Other Endocrine including Thymus	19	12	7	0.6	-	-	7	5	2	-	-	-
Lymphomas	475	266	209	14.5	17.9	11.7	179	96	83	5.9	6.9	5.1
Hodgkin's Disease	42	24	18	1.1	1.3	0.9	5	2	3	-	-	-
Non-Hodgkin's Lymphoma	433	242	191	13.4	16.6	10.8	174	94	80	5.8	6.8	4.9
Multiple Myeloma	114	53	61	3.7	4.0	3.4	51	20	31	1.7	1.5	1.9
Leukemia	230	126	104	6.7	8.2	5.6	136	81	55	4.3	5.7	3.2
Lymphocytic Leukemia	60	31	29	1.7	1.8	1.5	19	11	8	0.6	-	-
Acute Lymphocytic Leukemia	35	20	15	0.9	1.1	0.8	13	6	7	-	-	-
Chronic Lymphocytic Leukemia	22	9	13	0.7	-	-	5	4	1	-	-	-
Other Lymphocytic Leukemia	3	2	1	-	-	-	1	1	-	-	-	-
Myeloid Leukemia	148	78	70	4.3	5.1	3.7	73	44	29	2.3	3.1	1.7
Acute Myeloid Leukemia	100	49	51	3.0	3.3	2.7	57	31	26	1.8	2.2	1.5
Chronic Myeloid Leukemia	46	29	17	1.3	1.8	0.9	14	12	2	-	-	-
Other Myeloid Leukemia	2	-	2	-	-	-	2	1	1	-	-	-
Monocytic Leukemia	6	5	1	-	-	-	2	1	1	-	-	-
Acute Monocytic Leukemia	6	5	1	-	-	-	-	-	-	-	-	-
Chronic Monocytic Leukemia	-	-	-	-	-	-	2	1	1	-	-	-
Other Monocytic Leukemia	-	-	-	-	-	-	-	-	-	-	-	-
Other Leukemia	16	12	4	0.5	-	-	42	25	17	1.4	1.9	1.0
Other Acute Leukemia	6	4	2	-	-	-	23	11	12	0.7	-	-
Other Chronic Leukemia	-	-	-	-	-	-	1	1	-	-	-	-
Other and NOS Leukemia	10	8	2	-	-	-	18	13	5	0.6	-	-
III Defined/Unknown	248	126	122	8.3	9.7	7.2	252	138	114	8.4	10.3	6.8
<i>In Situ</i>												
<i>In Situ</i> Colon and Rectum	82	44	38	2.7	3.3	2.2	-	-	-	-	-	-
<i>In Situ</i> Melanoma of the Skin	17	7	10	0.5	-	-	-	-	-	-	-	-
<i>In Situ</i> Breast	445	-	445	12.3	-	22.5	-	-	-	-	-	-

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CANCER IN CALIFORNIA, 2003

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	Black											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive¹	8,266	4,545	3,721	482.4	622.8	382.2	3,884	1,998	1,886	239.6	302.7	200.2
All Sites	191	134	57	10.4	16.4	5.7	60	39	21	3.4	5.1	2.2
Oral Cavity and Pharynx												
Lip	2	2	-	-	-	-	-	-	-	-	-	-
Tongue	53	39	14	2.8	4.4	-	14	11	3	-	-	-
Salivary Gland	13	5	8	-	-	-	6	4	2	-	-	-
Floor of Mouth	17	12	5	1.0	-	-	-	-	-	-	-	-
Gum and Other Mouth	34	19	15	1.9	2.4	1.5	10	4	6	-	-	-
Nasopharynx	10	6	4	-	-	-	7	3	4	-	-	-
Tonsil	21	18	3	1.1	2.0	-	7	4	3	-	-	-
Oropharynx	12	11	1	-	-	-	1	1	-	-	-	-
Hypopharynx	18	15	3	1.0	1.9	-	2	1	1	-	-	-
Other Oral Cavity and Pharynx	11	7	4	-	-	-	13	11	2	-	-	-
Digestive System	1,692	877	815	104.5	125.8	88.0	1,018	539	479	64.3	80.0	52.9
Esophagus	84	59	25	5.0	7.6	2.7	77	50	27	4.7	7.2	3.0
Stomach	185	108	77	11.8	15.6	8.5	147	79	68	9.6	12.1	7.6
Small Intestine	53	33	20	3.1	4.6	2.1	11	5	6	-	-	-
Colon and Rectum	921	431	490	57.3	63.5	52.8	420	206	214	27.0	32.3	23.6
Stage I Colon and Rectum	199	99	100	12.2	14.2	10.7	-	-	-	-	-	-
Stage II Colon and Rectum	220	107	113	14.2	16.3	12.5	-	-	-	-	-	-
Stage III Colon and Rectum	197	86	111	12.1	12.6	11.9	-	-	-	-	-	-
Stage IV Colon and Rectum	214	104	110	13.0	15.4	11.7	-	-	-	-	-	-
Unknown Stage Colon and Rectum	59	21	38	4.0	3.1	4.1	-	-	-	-	-	-
Colon	712	322	390	44.9	48.5	42.3	354	158	196	23.0	25.4	21.7
Stage I Colon	138	68	70	8.6	9.7	7.6	-	-	-	-	-	-
Stage II Colon	176	82	94	11.4	12.6	10.5	-	-	-	-	-	-
Stage III Colon	152	61	91	9.5	9.4	9.7	-	-	-	-	-	-
Stage IV Colon	214	104	110	13.0	15.4	11.7	-	-	-	-	-	-
Unknown Stage Colon	44	15	29	3.1	2.4	3.2	-	-	-	-	-	-
Rectum and Rectosigmoid Junction	209	109	100	12.4	15.0	10.6	66	48	18	4.0	6.9	1.9
Stage I Rectum	61	31	30	3.6	4.5	3.1	-	-	-	-	-	-
Stage II Rectum	44	25	19	2.8	3.7	2.1	-	-	-	-	-	-
Stage III Rectum	45	25	20	2.7	3.2	2.1	-	-	-	-	-	-
Stage IV Rectum	34	19	15	2.0	2.4	1.6	-	-	-	-	-	-
Unknown Stage Rectum	15	6	9	0.9	-	-	-	-	-	-	-	-
Anus, Anal Canal, and Anorectum	36	18	18	2.0	2.2	1.8	4	2	2	-	-	-
Liver	118	92	26	6.8	11.8	2.8	103	83	20	5.9	10.6	2.1
Intrahepatic Bile Duct	5	4	1	-	-	-	12	7	5	-	-	-
Gallbladder	14	2	12	-	-	-	10	2	8	-	-	-
Other Biliary	24	12	12	1.5	-	-	9	5	4	-	-	-
Pancreas	232	113	119	14.6	16.8	13.1	211	94	117	13.4	13.8	12.9
Retroperitoneum	11	2	9	-	-	-	1	1	-	-	-	-
Peritoneum, Omentum, and Mesentery	4	1	3	-	-	-	1	-	1	-	-	-
Other Digestive	5	2	3	-	-	-	12	5	7	-	-	-
Respiratory System	1,332	817	515	80.4	116.0	54.9	1,079	658	421	66.0	94.7	45.3
Nasal Cavity, Middle Ear, and Sinuses	9	6	3	-	-	-	3	-	3	-	-	-
Larynx	91	73	18	5.3	10.1	1.8	48	40	8	2.9	5.6	-
Lung and Bronchus	1,222	732	490	73.9	104.2	52.4	1,024	614	410	62.7	88.7	44.1
Pleura	8	4	4	-	-	-	-	-	-	-	-	-
Trachea, Mediastinum, and Other Respiratory	2	2	-	-	-	-	4	4	-	-	-	-
Mesothelioma, All Sites	10	5	5	-	-	-	9	6	3	-	-	-
Bones and Joints	14	8	6	-	-	-	9	4	5	-	-	-
Soft Tissue including Heart	63	31	32	3.0	3.2	2.8	31	13	18	1.6	-	1.8
Skin	74	52	22	3.5	4.9	2.1	17	11	6	1.0	-	-
Melanoma of the Skin	17	11	6	0.9	-	-	5	2	3	-	-	-
Other Non-Epithelial Skin	57	41	16	2.6	3.6	1.5	12	9	3	-	-	-
Kaposi's Sarcoma, All Sites	40	37	3	1.7	3.1	-	1	1	-	-	-	-
Breast	1,259	19	1,240	69.2	2.5	123.6	362	5	357	20.5	-	35.9
Stage I Breast	445	11	434	25.3	-	44.3	-	-	-	-	-	-
Stage IIa Breast	343	6	337	18.7	-	33.5	-	-	-	-	-	-
Stage IIb Breast	171	-	171	8.9	-	16.5	-	-	-	-	-	-
Stage III Breast	139	1	138	7.0	-	13.1	-	-	-	-	-	-
Stage IV Breast	77	1	76	4.3	-	7.7	-	-	-	-	-	-
Unknown Stage Breast	70	-	70	4.1	-	7.2	-	-	-	-	-	-

Prepared by the California Department of Health Services, Cancer Surveillance Section.

Source: California Cancer Registry (February 2003) and DHS Center for Health Statistics Death Certificate Master Files.

Note: Stage at diagnosis is based on Surveillance, Epidemiology, and End Results (SEER) extent of disease converted to summary stage consistent with the Manual Staging of Cancer, third edition of the American Joint Committee on Cancer, as modified by SEER. Cases which could not be staged due to coding error are excluded. Breast cancer rates by stage of diagnosis exclude Stage II, NOS. NOS = not otherwise specified. Race/ethnicity categories are mutually exclusive. Person of Hispanic origin may be of any race.

1 *In situ* cancers of the urinary bladder are included with invasive cancers.

CANCER IN CALIFORNIA, 2003

Table 1
Cancer Incidence, Mortality, and Age-Adjusted (2000 U.S. Population) Rates per 100,000 Population by Primary Site, Race/Ethnicity, and Sex, California, 2000 (Continued)

	Black											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive¹												
Female Genital System	385	-	385	21.3	-	38.4	187	-	187	11.2	-	19.6
Cervix	104	-	104	5.2	-	9.6	49	-	49	2.7	-	-
Stage I Cervix	54	-	54	2.6	-	4.9	-	-	-	-	-	-
Stage II Cervix	14	-	14	-	-	-	-	-	-	-	-	-
Stage III Cervix	17	-	17	0.9	-	1.6	-	-	-	-	-	-
Stage IV Cervix	12	-	12	-	-	-	-	-	-	-	-	-
Unknown Stage Cervix	6	-	6	-	-	-	-	-	-	-	-	-
Corpus Uteri including NOS	145	-	145	8.6	-	15.2	66	-	66	4.2	-	7.2
Corpus Uteri	139	-	139	8.2	-	14.6	33	-	33	2.1	-	3.6
Uterus, NOS	6	-	6	-	-	-	33	-	33	2.1	-	3.6
Ovary	114	-	114	6.2	-	11.4	67	-	67	4.0	-	7.0
Vagina	7	-	7	-	-	-	2	-	2	-	-	-
Vulva	14	-	14	-	-	-	3	-	3	-	-	-
Other Female Genital	1	-	1	-	-	-	-	-	-	-	-	-
Male Genital System	1,845	1,845	-	109.1	253.6	-	328	328	-	22.8	60.6	-
Prostate	1,819	1,819	-	107.9	251.2	-	323	323	-	22.5	59.9	-
Testis	21	21	-	0.9	1.8	-	2	2	-	-	-	-
Penis	3	3	-	-	-	-	3	3	-	-	-	-
Other Male Genital	2	2	-	-	-	-	-	-	-	-	-	-
Urinary System	395	257	138	23.6	36.2	14.6	118	78	40	7.8	13.0	4.4
Urinary Bladder, including <i>in situ</i>	174	120	54	11.1	18.3	6.0	48	33	15	3.3	5.8	1.7
Invasive Urinary Bladder	111	67	44	7.3	10.8	4.9	-	-	-	-	-	-
<i>In Situ</i> Urinary Bladder	63	53	10	3.8	7.5	-	-	-	-	-	-	-
Kidney and Renal Pelvis	201	129	72	11.3	16.5	7.3	68	44	24	4.4	7.1	2.6
Ureter	12	5	7	-	-	-	1	1	-	-	-	-
Other Urinary	8	3	5	-	-	-	1	-	1	-	-	-
Eye and Orbit	5	3	2	-	-	-	1	-	1	-	-	-
Brain and Central Nervous System	71	45	26	3.4	4.7	2.3	52	26	26	2.6	2.8	2.5
Brain	61	40	21	3.0	4.2	1.9	52	26	26	2.6	2.8	2.5
Other Central Nervous System	10	5	5	-	-	-	-	-	-	-	-	-
Endocrine System	88	24	64	4.4	2.5	6.0	24	9	15	1.4	-	1.6
Thyroid	76	20	56	3.9	2.2	5.3	14	4	10	-	-	-
Other Endocrine including Thymus	12	4	8	-	-	-	10	5	5	-	-	-
Lymphomas	308	162	146	16.7	18.8	14.7	99	49	50	5.9	7.0	5.1
Hodgkin's Disease	54	31	23	2.5	3.0	2.1	5	2	3	-	-	-
Non-Hodgkin's Lymphoma	254	131	123	14.2	15.8	12.6	94	47	47	5.6	6.7	4.8
Multiple Myeloma	141	66	75	8.6	9.0	8.2	115	51	64	7.1	7.4	6.9
Leukemia	172	91	81	9.4	11.7	7.9	113	60	53	6.8	8.7	5.6
Lymphocytic Leukemia	63	37	26	3.4	5.2	2.4	27	16	11	1.7	2.5	-
Acute Lymphocytic Leukemia	24	8	16	1.0	-	1.3	9	6	3	-	-	-
Chronic Lymphocytic Leukemia	35	26	9	2.2	4.2	-	16	9	7	1.2	-	-
Other Lymphocytic Leukemia	4	3	1	-	-	-	2	1	1	-	-	-
Myeloid Leukemia	90	48	42	5.0	6.0	4.2	48	25	23	2.7	3.2	2.4
Acute Myeloid Leukemia	70	37	33	3.9	4.6	3.3	35	18	17	2.0	2.3	1.7
Chronic Myeloid Leukemia	17	10	7	0.9	-	-	11	6	5	-	-	-
Other Myeloid Leukemia	3	1	2	-	-	-	2	1	1	-	-	-
Monocytic Leukemia	6	3	3	-	-	-	-	-	-	-	-	-
Acute Monocytic Leukemia	6	3	3	-	-	-	-	-	-	-	-	-
Chronic Monocytic Leukemia	-	-	-	-	-	-	-	-	-	-	-	-
Other Monocytic Leukemia	-	-	-	-	-	-	-	-	-	-	-	-
Other Leukemia	13	3	10	-	-	-	38	19	19	2.4	3.0	2.0
Other Acute Leukemia	4	1	3	-	-	-	14	7	7	-	-	-
Other Chronic Leukemia	-	-	-	-	-	-	1	1	-	-	-	-
Other and NOS Leukemia	9	2	7	-	-	-	23	11	12	1.5	-	-
Ill Defined/Unknown	231	114	117	13.8	16.2	12.3	261	121	140	16.1	17.6	15.1
<i>In Situ</i>												
<i>In Situ</i> Colon and Rectum	68	37	31	4.2	5.2	3.4	-	-	-	-	-	-
<i>In Situ</i> Melanoma of the Skin	8	4	4	-	-	-	-	-	-	-	-	-
<i>In Situ</i> Breast	228	1	227	12.5	-	22.7	-	-	-	-	-	-

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 1 *In situ* cancers of the urinary bladder are included with invasive cancers.

CANCER IN CALIFORNIA, 2003

Table 1
Cancer Incidence, Mortality, and Age-Adjusted (2000 U.S. Population) Rates per 100,000 Population by Primary Site, Race/Ethnicity, and Sex, California, 2000 (Continued)

	Hispanic											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive¹	17,198	8,641	8,557	340.9	420.8	290.7	6,436	3,255	3,181	129.8	153.9	114.3
All Sites	313	205	108	6.1	8.8	3.9	85	61	24	1.7	2.7	0.9
Oral Cavity and Pharynx	26	22	4	0.6	1.4	-	2	2	-	-	-	-
Lip	70	37	33	1.4	1.5	1.3	26	19	7	0.5	0.8	-
Tongue	38	17	21	0.6	0.6	0.6	7	4	3	-	-	-
Salivary Gland	21	15	6	0.4	0.6	-	5	4	1	-	-	-
Floor of Mouth	46	24	22	0.9	0.9	0.9	12	9	3	-	-	-
Gum and Other Mouth	20	17	3	0.3	0.5	-	4	3	1	-	-	-
Nasopharynx	47	36	11	0.8	1.3	-	6	5	1	-	-	-
Tonsil	8	6	2	-	-	-	4	4	-	-	-	-
Oropharynx	32	26	6	0.7	1.4	-	7	4	3	-	-	-
Hypopharynx	5	5	-	-	-	-	12	7	5	-	-	-
Other Oral Cavity and Pharynx	3,561	1,995	1,566	80.8	104.0	63.8	2,015	1,100	915	42.1	51.7	34.7
Digestive System	125	100	25	3.0	5.6	1.1	111	87	24	2.3	4.1	0.9
Esophagus	578	333	245	12.7	17.3	9.5	371	218	153	7.4	10.0	5.5
Stomach	37	16	21	0.8	0.8	0.8	16	7	9	0.3	-	-
Small Intestine	1,643	912	731	37.6	48.2	29.9	627	318	309	13.3	15.5	11.7
Colon and Rectum	406	236	170	9.2	12.5	6.8	-	-	-	-	-	-
Stage I Colon and Rectum	421	228	193	10.1	12.8	8.2	-	-	-	-	-	-
Stage II Colon and Rectum	366	206	160	8.1	10.3	6.5	-	-	-	-	-	-
Stage III Colon and Rectum	326	169	157	7.1	8.5	6.1	-	-	-	-	-	-
Stage IV Colon and Rectum	79	50	29	2.2	3.1	1.5	-	-	-	-	-	-
Unknown Stage Colon and Rectum	1,102	584	518	25.8	31.6	21.6	526	265	261	11.3	13.2	10.0
Colon	235	142	93	5.5	7.6	3.9	-	-	-	-	-	-
Stage I Colon	306	156	150	7.3	8.8	6.3	-	-	-	-	-	-
Stage II Colon	243	121	122	5.6	6.3	5.1	-	-	-	-	-	-
Stage III Colon	326	169	157	7.1	8.5	6.1	-	-	-	-	-	-
Stage IV Colon	50	33	17	1.5	2.2	1.0	-	-	-	-	-	-
Unknown Stage Colon	541	328	213	11.8	16.5	8.3	101	53	48	2.0	2.4	1.7
Rectum and Rectosigmoid Junction	171	94	77	3.7	4.9	2.9	-	-	-	-	-	-
Stage I Rectum	115	72	43	2.7	4.0	1.9	-	-	-	-	-	-
Stage II Rectum	123	85	38	2.5	4.0	1.4	-	-	-	-	-	-
Stage III Rectum	86	50	36	1.7	2.4	1.3	-	-	-	-	-	-
Stage IV Rectum	29	17	12	0.7	0.9	-	-	-	-	-	-	-
Unknown Stage Rectum	60	32	28	1.2	1.3	1.1	9	5	4	-	-	-
Anus, Anal Canal, and Anorectum	397	282	115	8.4	13.2	4.6	317	213	104	6.4	9.3	4.0
Liver	36	16	20	0.9	0.9	0.8	61	24	37	1.2	1.1	1.3
Intrahepatic Bile Duct	108	26	82	2.5	1.6	3.3	61	19	42	1.3	0.9	1.6
Gallbladder	99	49	50	2.3	2.6	2.1	35	13	22	0.8	-	0.8
Other Biliary	410	199	211	10.1	11.3	9.2	381	187	194	8.3	9.1	7.7
Pancreas	23	10	13	0.4	-	-	6	3	3	-	-	-
Retroperitoneum	25	9	16	0.5	-	0.6	9	-	9	-	-	-
Peritoneum, Omentum, and Mesentery	20	11	9	0.5	-	-	11	6	5	-	-	-
Other Digestive	1,526	960	566	36.1	54.3	23.2	1,076	663	413	23.5	33.5	16.0
Respiratory System	41	26	15	0.8	1.0	0.6	6	3	3	-	-	-
Nasal Cavity, Middle Ear, and Sinuses	126	104	22	2.8	5.4	0.8	35	31	4	0.8	1.7	-
Larynx	1,301	784	517	31.4	45.6	21.4	1,026	622	404	22.4	31.5	15.7
Lung and Bronchus	39	32	7	1.0	1.9	-	-	-	-	-	-	-
Pleura	19	14	5	0.2	-	-	9	7	2	-	-	-
Trachea, Mediastinum, and Other Respiratory	45	36	9	1.1	2.0	-	27	22	5	0.6	1.0	-
Mesothelioma, All Sites	95	58	37	1.0	1.2	0.8	33	15	18	0.4	0.4	0.4
Bones and Joints	201	102	99	2.6	2.6	2.6	68	36	32	1.1	1.2	0.9
Soft Tissue including Heart	299	173	126	5.1	6.4	4.1	69	40	29	1.3	1.6	1.0
Skin	196	93	103	3.4	3.9	3.1	50	30	20	0.9	1.1	0.7
Melanoma of the Skin	103	80	23	1.7	2.5	0.9	19	10	9	0.4	-	-
Other Non-Epithelial Skin	68	65	3	0.9	1.9	-	3	2	1	-	-	-
Kaposi's Sarcoma, All Sites	2,509	10	2,499	44.8	-	82.3	497	7	490	8.8	-	16.1
Breast	898	2	896	17.3	-	31.4	-	-	-	-	-	-
Stage I Breast	649	5	644	11.2	-	20.6	-	-	-	-	-	-
Stage IIa Breast	420	1	419	6.9	-	12.9	-	-	-	-	-	-
Stage IIb Breast	269	1	268	4.5	-	8.3	-	-	-	-	-	-
Stage III Breast	130	1	129	2.4	-	4.3	-	-	-	-	-	-
Stage IV Breast	126	-	126	2.4	-	4.3	-	-	-	-	-	-
Unknown Stage Breast												

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Note: Stage at diagnosis is based on Surveillance, Epidemiology, and End Results (SEER) extent of disease converted to summary stage consistent with the Manual Staging of Cancer, third edition of the American Joint Committee on Cancer, as modified by SEER.

Cases which could not be staged due to coding error are excluded. Breast cancer rates by stage of diagnosis exclude Stage II, NOS

- = Incidence/Mortality data are not available or site is gender specific. NOS = not otherwise specified. Race/ethnicity categories are mutually exclusive.

Person of Hispanic origin may be of any race.

1 *In situ* cancers of the urinary bladder are included with invasive cancers.

CANCER IN CALIFORNIA, 2003

Table 1
Cancer Incidence, Mortality, and Age-Adjusted (2000 U.S. Population) Rates per 100,000 Population by Primary Site, Race/Ethnicity, and Sex, California, 2000 (Continued)

	Hispanic											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive¹												
Female Genital System	1,592	-	1,592	25.7	-	48.0	463	-	463	8.8	-	16.1
Cervix	617	-	617	8.6	-	16.6	146	-	146	2.3	-	4.5
Stage I Cervix	329	-	329	4.2	-	8.2	-	-	-	-	-	-
Stage II Cervix	119	-	119	1.8	-	3.4	-	-	-	-	-	-
Stage III Cervix	89	-	89	1.3	-	2.4	-	-	-	-	-	-
Stage IV Cervix	56	-	56	1.0	-	1.8	-	-	-	-	-	-
Unknown Stage Cervix	23	-	23	0.4	-	0.7	-	-	-	-	-	-
Corpus Uteri including NOS	486	-	486	8.8	-	16.2	95	-	95	1.9	-	3.5
Corpus Uteri	464	-	464	8.4	-	15.5	37	-	37	0.8	-	1.4
Uterus, NOS	22	-	22	0.4	-	0.8	58	-	58	1.2	-	2.1
Ovary	406	-	406	6.7	-	12.4	199	-	199	4.0	-	7.3
Vagina	22	-	22	0.4	-	0.7	10	-	10	-	-	-
Vulva	42	-	42	0.9	-	1.6	9	-	9	-	-	-
Other Female Genital	19	-	19	0.2	-	0.5	4	-	4	-	-	-
Male Genital System	2,783	2,783	-	61.6	144.0	-	308	308	-	7.4	18.7	-
Prostate	2,502	2,502	-	59.0	138.7	-	289	289	-	7.2	18.2	-
Testis	257	257	-	2.2	4.2	-	15	15	-	0.1	0.3	-
Penis	17	17	-	0.3	0.7	-	2	2	-	-	-	-
Other Male Genital	7	7	-	-	-	-	2	2	-	-	-	-
Urinary System	1,036	699	337	22.8	36.3	13.0	273	181	92	5.8	8.7	3.6
Urinary Bladder, including <i>in situ</i>	470	352	118	11.6	21.1	5.0	83	58	25	2.0	3.4	1.0
Invasive Urinary Bladder	250	189	61	6.3	11.8	2.6	-	-	-	-	-	-
<i>In Situ</i> Urinary Bladder	220	163	57	5.2	9.3	2.4	-	-	-	-	-	-
Kidney and Renal Pelvis	545	331	214	10.6	14.1	7.7	187	122	65	3.7	5.3	2.5
Ureter	10	7	3	-	-	-	3	1	2	-	-	-
Other Urinary	11	9	2	-	-	-	-	-	-	-	-	-
Eye and Orbit	41	24	17	0.6	0.7	0.4	3	3	-	-	-	-
Brain and Central Nervous System	357	201	156	4.6	5.6	3.8	227	127	100	3.4	4.1	2.9
Brain	333	190	143	4.4	5.4	3.6	220	124	96	3.3	4.1	2.8
Other Central Nervous System	24	11	13	0.3	-	-	7	3	4	-	-	-
Endocrine System	499	116	383	6.2	2.9	9.4	46	25	21	0.8	0.9	0.7
Thyroid	465	99	366	5.9	2.7	9.0	28	11	17	0.6	-	0.6
Other Endocrine including Thymus	34	17	17	0.3	0.3	0.4	18	14	4	0.2	-	-
Lymphomas	1,007	572	435	17.7	21.9	14.5	339	191	148	6.9	8.5	5.6
Hodgkin's Disease	157	97	60	1.9	2.8	1.3	19	13	6	0.4	-	-
Non-Hodgkin's Lymphoma	850	475	375	15.8	19.2	13.2	320	178	142	6.5	8.0	5.4
Multiple Myeloma	236	139	97	5.1	6.7	3.9	138	64	74	3.0	3.2	2.8
Leukemia	684	380	304	9.3	12.4	7.3	340	199	141	5.5	6.9	4.3
Lymphocytic Leukemia	359	210	149	3.9	5.2	2.9	109	62	47	1.5	1.7	1.3
Acute Lymphocytic Leukemia	291	162	129	2.3	2.5	2.0	84	52	32	0.9	1.1	0.7
Chronic Lymphocytic Leukemia	61	44	17	1.5	2.6	0.8	21	9	12	0.5	-	-
Other Lymphocytic Leukemia	7	4	3	-	-	-	4	1	3	-	-	-
Myeloid Leukemia	274	146	128	4.6	6.1	3.7	167	99	68	2.7	3.5	2.1
Acute Myeloid Leukemia	198	102	96	3.4	4.7	2.7	117	66	51	2.0	2.6	1.5
Chronic Myeloid Leukemia	74	43	31	1.1	1.3	1.0	43	29	14	0.6	0.7	-
Other Myeloid Leukemia	2	1	1	-	-	-	7	4	3	-	-	-
Monocytic Leukemia	19	12	7	0.3	-	-	2	2	-	-	-	-
Acute Monocytic Leukemia	19	12	7	0.3	-	-	2	2	-	-	-	-
Chronic Monocytic Leukemia	-	-	-	-	-	-	-	-	-	-	-	-
Other Monocytic Leukemia	-	-	-	-	-	-	-	-	-	-	-	-
Other Leukemia	32	12	20	0.6	-	0.6	62	36	26	1.2	1.7	0.9
Other Acute Leukemia	14	6	8	-	-	-	34	20	14	0.7	0.9	-
Other Chronic Leukemia	-	-	-	-	-	-	1	-	1	-	-	-
Other and NOS Leukemia	18	6	12	0.3	-	-	27	16	11	0.5	0.8	-
III Defined/Unknown	459	224	235	10.9	12.5	9.7	426	211	215	8.9	10.4	8.0
<i>In Situ</i>												
<i>In Situ</i> Colon and Rectum	87	43	44	1.8	2.1	1.6	-	-	-	-	-	-
<i>In Situ</i> Melanoma of the Skin	88	28	60	1.8	1.5	2.0	-	-	-	-	-	-
<i>In Situ</i> Breast	452	1	451	8.3	-	15.2	-	-	-	-	-	-

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CANCER IN CALIFORNIA, 2003

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	Non-Hispanic White											
	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive¹												
All Sites	94,516	47,189	47,327	486.0	541.9	450.1	38,552	19,278	19,274	187.2	222.1	165.7
Oral Cavity and Pharynx	2,278	1,543	735	11.8	17.4	6.9	545	331	214	2.7	3.7	1.9
Lip	279	199	80	1.4	2.3	0.7	6	5	1	-	-	-
Tongue	622	420	202	3.2	4.7	1.9	148	85	63	0.7	0.9	0.6
Salivary Gland	262	169	93	1.4	2.0	0.9	41	31	10	0.2	0.4	-
Floor of Mouth	144	101	43	0.7	1.1	0.4	16	9	7	0.1	-	-
Gum and Other Mouth	300	160	140	1.5	1.8	1.2	92	46	46	0.4	0.5	0.4
Nasopharynx	80	52	28	0.4	0.6	0.3	40	21	19	0.2	0.2	0.2
Tonsil	337	266	71	1.8	2.9	0.7	45	29	16	0.2	0.3	0.1
Oropharynx	51	36	15	0.3	0.4	0.1	39	24	15	0.2	0.3	0.1
Hypopharynx	151	107	44	0.8	1.2	0.4	30	23	7	0.1	0.2	-
Other Oral Cavity and Pharynx	52	33	19	0.3	0.4	0.2	88	58	30	0.4	0.6	0.3
Digestive System	16,732	8,745	7,987	84.1	100.8	70.5	8,778	4,625	4,153	42.4	52.8	34.3
Esophagus	858	623	235	4.3	7.1	2.1	906	677	229	4.4	7.5	1.9
Stomach	1,331	844	487	6.7	9.8	4.3	757	441	316	3.7	5.1	2.6
Small Intestine	289	135	154	1.5	1.5	1.4	69	31	38	0.3	0.4	0.3
Colon and Rectum	10,162	5,124	5,038	50.9	59.3	44.1	3,712	1,824	1,888	17.9	21.2	15.4
Stage I Colon and Rectum	2,577	1,359	1,218	13.0	15.6	10.8	-	-	-	-	-	-
Stage II Colon and Rectum	2,879	1,416	1,463	14.3	16.5	12.6	-	-	-	-	-	-
Stage III Colon and Rectum	2,239	1,067	1,172	11.3	12.3	10.4	-	-	-	-	-	-
Stage IV Colon and Rectum	1,698	901	797	8.6	10.3	7.2	-	-	-	-	-	-
Unknown Stage Colon and Rectum	523	247	276	2.5	3.1	2.1	-	-	-	-	-	-
Colon	7,353	3,546	3,807	36.6	41.3	32.9	3,155	1,504	1,651	15.2	17.6	13.4
Stage I Colon	1,587	802	785	7.9	9.3	6.8	-	-	-	-	-	-
Stage II Colon	2,254	1,064	1,190	11.1	12.4	10.2	-	-	-	-	-	-
Stage III Colon	1,674	754	920	8.4	8.7	8.0	-	-	-	-	-	-
Stage IV Colon	1,698	901	797	8.6	10.3	7.2	-	-	-	-	-	-
Unknown Stage Colon	355	156	199	1.7	1.9	1.5	-	-	-	-	-	-
Rectum and Rectosigmoid Junction	2,809	1,578	1,231	14.3	18.0	11.2	557	320	237	2.7	3.6	2.0
Stage I Rectum	990	557	433	5.0	6.3	4.0	-	-	-	-	-	-
Stage II Rectum	625	352	273	3.2	4.0	2.5	-	-	-	-	-	-
Stage III Rectum	565	313	252	2.9	3.6	2.4	-	-	-	-	-	-
Stage IV Rectum	375	221	154	1.9	2.5	1.4	-	-	-	-	-	-
Unknown Stage Rectum	168	91	77	0.8	1.1	0.6	-	-	-	-	-	-
Anus, Anal Canal, and Anorectum	375	157	218	1.9	1.8	2.1	68	32	36	0.3	0.4	0.3
Liver	704	506	198	3.6	5.7	1.9	629	430	199	3.1	4.8	1.7
Intrahepatic Bile Duct	129	71	58	0.6	0.8	0.5	196	110	86	1.0	1.3	0.7
Gallbladder	168	46	122	0.8	0.6	1.1	112	29	83	0.5	0.4	0.7
Other Biliary	291	158	133	1.4	1.8	1.1	142	56	86	0.7	0.6	0.7
Pancreas	2,093	978	1,115	10.5	11.3	9.7	2,047	953	1,094	9.9	10.8	9.1
Retroperitoneum	69	44	25	0.4	0.5	0.2	19	10	9	0.1	-	-
Peritoneum, Omentum, and Mesentery	177	18	159	0.9	0.2	1.5	58	5	53	0.3	-	0.5
Other Digestive	86	41	45	0.4	0.5	0.4	63	27	36	0.3	0.3	0.3
Respiratory System	14,066	7,570	6,496	71.1	86.8	59.5	10,885	5,761	5,124	52.9	64.9	44.3
Nasal Cavity, Middle Ear, and Sinuses	121	73	48	0.6	0.8	0.5	28	18	10	0.1	0.2	-
Larynx	665	532	133	3.4	6.0	1.3	180	141	39	0.9	1.6	0.4
Lung and Bronchus	13,026	6,769	6,257	65.8	77.7	57.2	10,645	5,583	5,062	51.7	62.9	43.8
Pleura	230	177	53	1.1	2.0	0.5	11	5	6	-	-	-
Trachea, Mediastinum, and Other Respiratory	24	19	5	0.1	0.2	-	21	14	7	0.1	-	-
Mesothelioma, All Sites	247	190	57	1.2	2.2	0.5	204	166	38	1.0	1.9	0.3
Bones and Joints	146	89	57	0.9	1.1	0.7	85	44	41	0.5	0.5	0.4
Soft Tissue including Heart	546	296	250	3.0	3.5	2.6	266	152	114	1.3	1.7	1.0
Skin	5,270	3,187	2,083	28.0	36.4	21.5	905	581	324	4.5	6.7	2.9
Melanoma of the Skin	4,720	2,796	1,924	25.1	31.8	20.0	698	431	267	3.5	4.9	2.4
Other Non-Epithelial Skin	550	391	159	2.9	4.6	1.5	207	150	57	1.0	1.8	0.5
Kaposi's Sarcoma, All Sites	146	134	12	0.8	1.5	-	4	2	2	-	-	-
Breast	15,974	125	15,849	82.6	1.5	154.2	3,134	26	3,108	15.3	0.3	27.6
Stage I Breast	7,853	47	7,806	40.4	0.6	75.2	-	-	-	-	-	-
Stage IIa Breast	3,966	45	3,921	20.6	0.5	38.5	-	-	-	-	-	-
Stage IIb Breast	1,858	17	1,841	9.8	0.2	18.5	-	-	-	-	-	-
Stage III Breast	958	6	952	5.0	-	9.4	-	-	-	-	-	-
Stage IV Breast	564	4	560	2.9	-	5.3	-	-	-	-	-	-
Unknown Stage Breast	637	5	632	3.2	-	5.9	-	-	-	-	-	-

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	Incidence						Mortality					
	New Cases, 2000			Rate			Deaths, 2000			Rate		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Invasive¹												
Female Genital System	5,611	-	5,611	29.3	-	55.1	1,919	-	1,919	9.4	-	16.9
Cervix	728	-	728	4.0	-	7.9	222	-	222	1.1	-	2.1
Stage I Cervix	418	-	418	2.4	-	4.7	-	-	-	-	-	-
Stage II Cervix	78	-	78	0.4	-	0.8	-	-	-	-	-	-
Stage III Cervix	109	-	109	0.6	-	1.2	-	-	-	-	-	-
Stage IV Cervix	91	-	91	0.5	-	0.9	-	-	-	-	-	-
Unknown Stage Cervix	29	-	29	0.2	-	0.3	-	-	-	-	-	-
Corpus Uteri including NOS	2,614	-	2,614	13.4	-	24.9	439	-	439	2.1	-	3.8
Corpus Uteri	2,573	-	2,573	13.2	-	24.6	204	-	204	1.0	-	1.7
Uterus, NOS	41	-	41	0.2	-	0.4	235	-	235	1.1	-	2.0
Ovary	1,888	-	1,888	9.9	-	18.7	1,177	-	1,177	5.7	-	10.3
Vagina	83	-	83	0.4	-	0.8	22	-	22	0.1	-	0.2
Vulva	213	-	213	1.1	-	2.0	41	-	41	0.2	-	0.3
Other Female Genital	85	-	85	0.4	-	0.8	18	-	18	0.1	-	0.2
Male Genital System	14,178	14,178	-	73.0	161.4	-	2,307	2,307	-	10.9	28.7	-
Prostate	13,487	13,487	-	68.9	153.2	-	2,265	2,265	-	10.7	28.3	-
Testis	601	601	-	3.6	7.2	-	30	30	-	0.2	0.3	-
Penis	61	61	-	0.3	0.7	-	9	9	-	-	-	-
Other Male Genital	29	29	-	0.2	0.4	-	3	3	-	-	-	-
Urinary System	6,860	4,902	1,958	34.6	56.7	17.7	1,716	1,153	563	8.3	13.5	4.7
Urinary Bladder, including <i>in situ</i>	4,618	3,486	1,132	23.1	40.6	10.0	907	631	276	4.3	7.6	2.2
Invasive Urinary Bladder	2,257	1,676	581	11.2	19.7	5.0	-	-	-	-	-	-
<i>In Situ</i> Urinary Bladder	2,361	1,810	551	11.9	21.0	5.0	-	-	-	-	-	-
Kidney and Renal Pelvis	2,078	1,308	770	10.7	14.8	7.3	764	492	272	3.7	5.5	2.3
Ureter	100	59	41	0.5	0.7	0.3	26	18	8	0.1	0.2	-
Other Urinary	64	49	15	0.3	0.6	0.1	19	12	7	0.1	-	-
Eye and Orbit	185	114	71	1.0	1.3	0.7	18	11	7	0.1	-	-
Brain and Central Nervous System	1,341	762	579	7.4	8.9	6.1	1,025	573	452	5.1	6.3	4.2
Brain	1,275	732	543	7.0	8.5	5.6	1,009	567	442	5.0	6.2	4.1
Other Central Nervous System	66	30	36	0.4	0.4	0.4	16	6	10	0.1	-	-
Endocrine System	1,459	429	1,030	8.3	5.0	11.6	144	73	71	0.7	0.8	0.6
Thyroid	1,329	351	978	7.5	4.0	11.0	84	39	45	0.4	0.4	0.4
Other Endocrine including Thymus	130	78	52	0.8	1.0	0.6	60	34	26	0.3	0.4	0.2
Lymphomas	4,236	2,278	1,958	22.3	26.2	18.9	1,787	932	855	8.7	10.7	7.2
Hodgkin's Disease	476	270	206	2.9	3.2	2.5	99	48	51	0.5	0.5	0.5
Non-Hodgkin's Lymphoma	3,760	2,008	1,752	19.4	23.0	16.4	1,688	884	804	8.2	10.2	6.8
Multiple Myeloma	895	488	407	4.5	5.6	3.6	626	344	282	3.0	4.0	2.4
Leukemia	2,184	1,273	911	11.5	15.1	8.8	1,516	866	650	7.4	10.1	5.5
Lymphocytic Leukemia	894	528	366	4.9	6.4	3.7	475	275	200	2.3	3.2	1.6
Acute Lymphocytic Leukemia	234	132	102	1.6	1.8	1.4	110	60	50	0.6	0.7	0.5
Chronic Lymphocytic Leukemia	630	377	253	3.2	4.4	2.2	347	204	143	1.7	2.4	1.1
Other Lymphocytic Leukemia	30	19	11	0.2	0.2	-	18	11	7	0.1	-	-
Myeloid Leukemia	1,016	581	435	5.3	6.8	4.1	668	390	278	3.3	4.5	2.5
Acute Myeloid Leukemia	706	395	311	3.7	4.6	2.9	491	280	211	2.4	3.2	1.9
Chronic Myeloid Leukemia	298	176	122	1.5	2.0	1.1	118	69	49	0.6	0.8	0.4
Other Myeloid Leukemia	12	10	2	-	-	-	59	41	18	0.3	0.5	0.1
Monocytic Leukemia	67	41	26	0.4	0.5	0.3	9	6	3	-	-	-
Acute Monocytic Leukemia	63	39	24	0.3	0.5	0.3	6	4	2	-	-	-
Chronic Monocytic Leukemia	2	-	2	-	-	-	-	-	-	-	-	-
Other Monocytic Leukemia	2	2	-	-	-	-	3	2	1	-	-	-
Other Leukemia	207	123	84	1.0	1.4	0.7	364	195	169	1.8	2.3	1.4
Other Acute Leukemia	66	39	27	0.3	0.5	0.2	196	103	93	1.0	1.2	0.8
Other Chronic Leukemia	3	1	2	-	-	-	11	6	5	-	-	-
Other and NOS Leukemia	138	83	55	0.7	0.9	0.5	157	86	71	0.8	1.1	0.6
Ill Defined/Unknown	2,555	1,210	1,345	12.7	14.1	11.7	2,688	1,331	1,357	13.0	15.3	11.4
<i>In Situ</i>												
<i>In Situ</i> Colon and Rectum	561	308	253	2.8	3.5	2.3	-	-	-	-	-	-
<i>In Situ</i> Melanoma of the Skin	2,886	1,711	1,175	15.1	19.5	11.9	-	-	-	-	-	-
<i>In Situ</i> Breast	3,141	19	3,122	16.4	0.2	31.1	-	-	-	-	-	-

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APPENDICES

CANCER IN CALIFORNIA, 2003

APPENDIX A

SEER Site Recode for ICD-O-2 Incidence Data, 2000

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Site Description	Site	Types
Buccal cavity and pharynx		
Lip	C000-C009	(EXC TYPES 9590-9989)
Tongue	C019-C029	(EXC TYPES 9590-9989)
Salivary Glands	C079-C089	(EXC TYPES 9590-9989)
Floor of mouth	C040-C049	(EXC TYPES 9590-9989)
Gum and other mouth	C030-C039, C050-C059, C060-C069	(EXC TYPES 9590-9989)
Nasopharynx	C110-C119	(EXC TYPES 9590-9989)
Tonsil	C090-C099	(EXC TYPES 9590-9989)
Oropharynx	C100-C109	(EXC TYPES 9590-9989)
Hypopharynx	C129, C130-C139, C141	(EXC TYPES 9590-9989)
Other buccal cavity and pharynx	C140, C142-C148	(EXC TYPES 9590-9989)
Digestive system		
Esophagus	C150-159	(EXC TYPES 9590-9989)
Stomach	C160-C169	(EXC TYPES 9590-9989)
Small intestine	C170-C179	(EXC TYPES 9590-9989)
Colon excluding rectum		
Cecum	C180	(EXC TYPES 9590-9989)
Appendix	C181	(EXC TYPES 9590-9989)
Ascending colon	C182	(EXC TYPES 9590-9989)
Hepatic flexure	C183	(EXC TYPES 9590-9989)
Transverse colon	C184	(EXC TYPES 9590-9989)
Splenic flexure	C185	(EXC TYPES 9590-9989)
Descending colon	C186	(EXC TYPES 9590-9989)
Sigmoid colon	C187	(EXC TYPES 9590-9989)
Large intestine, NOS	C188-C189, C260	(EXC TYPES 9590-9989)
Rectum and rectosigmoid		
Rectosigmoid junction	C199	(EXC TYPES 9590-9989)
Rectum	C209	(EXC TYPES 9590-9989)
Anus, anal canal, and anorectum	C210-C212, C218	(EXC TYPES 9590-9989)
Liver	C220	(EXC TYPES 9590-9989)
Intrahepatic bile ducts	C221	(EXC TYPES 9590-9989)
Gallbladder	C239	(EXC TYPES 9590-9989)
Other biliary	C240-C249	(EXC TYPES 9590-9989)
Pancreas	C250-C259	(EXC TYPES 9590-9989)
Retroperitoneum	C480	(EXC TYPES 9590-9989)
Peritoneum, omentum and mesentery	C481-C482	(EXC TYPES 9590-9989)
Other digestive organs	C268-C269, C488	(EXC TYPES 9590-9989)
Respiratory system		
Nasal cavity, middle ear and accessory sinuses	C300-C301, C310-C319	(EXC TYPES 9590-9989)
Larynx	C320-C329	(EXC TYPES 9590-9989)
Lung and bronchus	C340-C349	(EXC TYPES 9590-9989)
Pleura	C384	(EXC TYPES 9590-9989)
Trachea, mediastinum, and other respiratory organs	C339, C381-C383, C388, C390, C398, C399	(EXC TYPES 9590-9989)

CANCER IN CALIFORNIA, 2003

SEER Site Recode for ICD-O-2 Incidence Data, 2000 (continued)

Site Description	Site	Types
Bones and joints	C400-C419	(EXC TYPES 9590-9989)
Soft Tissue (including heart)	C380, C470-C479, C490-C499	(EXC TYPES 9590-9989)
Skin (excluding basal and squamous)		
Melanomas-skin	C440-C449	(TYPES 872-879)
Other non-epithelial skin	C440-C449	(EXC TYPES 8000-8004, 8010-8012, 8070-8076, 8090-8096, 8720-8790, 49590-9989)
Breast	C500-C509	(EXC TYPES 9590-9989)
Female genital system		
Cervix	C530-C539	(EXC TYPES 9590-9989)
Corpus	C540-C549	(EXC TYPES 9590-9989)
Uterus, NOS	C559	(EXC TYPES 9590-9989)
Ovary	C569	(EXC TYPES 9590-9989)
Vagina	C529	(EXC TYPES 9590-9989)
Vulva	C510-C519	(EXC TYPES 9590-9989)
Other female genital organs	C570-C589	(EXC TYPES 9590-9989)
Male genital system		
Prostate	C619	(EXC TYPES 9590-9989)
Testis	C620-C629	(EXC TYPES 9590-9989)
Penis	C600-C609	(EXC TYPES 9590-9989)
Other male genital organs	C630-C639	(EXC TYPES 9590-9989)
Urinary system		
Bladder	C670-C679	(EXC TYPES 9590-9989)
Kidney and renal pelvis	C649,659	(EXC TYPES 9590-9989)
Ureter	C669	(EXC TYPES 9590-9989)
Other urinary organs	C680-C689	(EXC TYPES 9590-9989)
Eye and orbit	C690-C699	(EXC TYPES 9590-9989)
Brain and other nervous system		
Brain	C710-C719	(EXC TYPE 953, 9590-9989)
Other nervous system	C710-C719 C700-C709, C720-C729	(TYPE 953) (EXC TYPES 9590-9989)
Endocrine system		
Thyroid	C739	(EXC TYPES 9590-9989)
Other endocrine (includes thymus)	C379, C740-C749, C750-C759	(EXC TYPES 9590-9989)

(Table continues)

CANCER IN CALIFORNIA, 2003

SEER Site Recode for ICD-O-2 Incidence Data, 2000 (continued)

Site Description	Site	Types
Lymphomas		
Hodgkin's Disease	All sites	(TYPES 9650-9667)
Non-Hodgkin's lymphoma	All sites	(TYPES 9590-9595, 9670-9717)
Multiple myeloma	All sites	(TYPES 9731-9732)
Leukemias	All sites	
Lymphocytic		
Acute lymphocytic		(TYPE 9821, 9828)
Chronic lymphocytic		(TYPE 9823)
Other lymphocytic		(TYPES 9820, 9822, 9824, 9825, 9826)
Granulocytic		
Acute granulocytic		(TYPES 9861, 9867, 9871-9874)
Chronic granulocytic		(TYPES 9863, 9868)
Other granulocytic		(TYPES 9860, 9862, 9864-9866)
Monocytic		
Acute monocytic		(TYPE 9891)
Chronic monocytic		(TYPE 9893)
Other monocytic		(TYPES 9890, 9892, 9894)
Other		
Acute other		(TYPES 9801, 9841)
Chronic other		(TYPES 9803, 9842)
Aleukemic, subleukemic, and NOS		(TYPES 9800, 9802, 9804, 9827, 9830, 9840, 9850, 9870, 9880, 9900, 9910, 9930-994)
III Defined and unspecified sites		(TYPES 9720-9723, 9740, 9741, 9760-9764, 9950-9989)
	C760-C768, C809	(TYPES 8000-9589)
	C420-C424	(TYPES 8000-9589)
	C770-C779	(TYPES 8000-9589)
Invalid sites		Site or histology code not in valid range or site/histology combination not found in this table.

NOS = not otherwise specified.

APPENDIX B

SEER Site Recode for ICD-10 Mortality Data, 2000

Site Description	Site Codes
Buccal cavity and pharynx	
Lip	C00
Tongue	C01-C02
Salivary Gland	C07-C08
Floor of mouth	C04
Gum and other mouth	C03, C05-C06, C46.2#
Nasopharynx	C11
Tonsil	C09
Oropharynx	C10
Hypopharynx	C12-C13
Other buccal cavity and pharynx	C14
Digestive system	
Esophagus	C15
Stomach	C16
Small intestine	C17
Colon excluding rectum	C18, C26.0
Rectum and rectosigmoid	C19-C20
Anus, anal canal, and anorectum	C21
Liver and intrahepatic bile ducts	
Liver	C22.0, C22.2-C22.4, C22.7, C22.9
Intrahepatic bile ducts	C22.1
Gallbladder	C23
Other biliary	C24
Pancreas	C25
Retroperitoneum	C48.0
Peritoneum, omentum and mesentery	C45.1#, C48.1-C48.2
Other digestive organs	C26.8-C26.9, C48.8
Respiratory system	
Nose, nasal cavity, middle ear	C30-C31
Larynx	C32
Lung and bronchus	C34
Pleura	C38.4, C45.0#
Trachea, mediastinum, and other respiratory organs	C33, C38.1-C38.3, C38.8, C39, C45.7#, C45.9#
Bones and joints	C40-C41
Soft tissue (including heart)	C47, C49, C38.0, C45.2#, C46.1#
Skin (excluding basal and squamous)	
Melanomas-skin	C43
Other non-epithelial skin	C44, C46.0#
Breast	C50

(Table continues)

CANCER IN CALIFORNIA, 2003

SEER Site Recode for ICD-10 Mortality Data, 2000 (continued)

Site Description	Site Codes
Female genital system	
Cervix	C53
Corpus	C54
Uterus, NOS	C55
Ovary	C56
Vagina	C52
Vulva	C51
Other female genital organs	C57-C58
Male genital system	
Prostate	C61
Testis	C62
Penis	C60
Other male genital organs	C63
Urinary system	
Bladder	C67
Kidney and renal pelvis	C64-C65
Ureter	C66
Other urinary organs	C68
Eye and orbit	C69
Brain and other nervous system	
Brain	C71
Cranial nerves and other nervous system	C70, C72
Endocrine system	
Thyroid	C73
Other endocrine (includes thymus)	C37, C74-C75
Lymphomas	
Hodgkin's Disease	C81
Non-Hodgkin's lymphoma	C82-C85
Multiple myeloma	C90.0, C90.2

(Table continues)

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CANCER IN CALIFORNIA, 2003

SEER Site Recode for ICD-10 Mortality Data, 2000 (continued)

Site Description	Site Codes
Leukemias	
Lymphocytic	
Acute lymphocytic	C91.0
Chronic lymphocytic	C91.1
Other lymphocytic	C91.2-C91.3, C91.7, C91.9
Myeloid	
Acute myeloid	C92.0, C92.5
Chronic myeloid	C92.1
Other myeloid	C92.2, C92.4, C92.7, C92.9
Monocytic	
Acute monocytic	C93.0
Chronic monocytic	C93.1
Other monocytic	C93.2, C93.7, C93.9
Other	
Other acute	C94.0, C95.0
Other chronic	C94.1, C95.1
Aleukemic, subleukemic, and NOS	C90.1, C91.4-C91.5, C92.3, C94.2-C94.5, C94.7, C95.2, C95.7, C95.9
<hr/>	
Mesothelioma (ICD-10 only)#	C45#
Kaposi's sarcoma (ICD-10 only)#	C46#
Ill defined and unspecified sites	C26.1, C46.3#, C46.7-C46.9#, C76-C80, C88, C96-C97

NOS = not otherwise specified.

This variable can be created with or without Mesothelioma (C45) and Kaposi's Sarcoma (C46) as separate groupings. The table above documents both possibilities. Note this is only possible with ICD-10.

CANCER IN CALIFORNIA, 2003

APPENDIX C

Population Estimates by Year, Age, Race/Ethnicity, and Sex, California, 2000

Age	Asian/Pacific Islander		Black		Hispanic		White		All Races	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
00-04	127,784	120,898	93,845	90,218	606,583	581,295	436,919	414,225	1,272,884	1,214,097
05-09	140,837	133,134	110,601	106,950	632,224	604,544	503,536	475,739	1,396,480	1,329,400
10-14	144,433	134,592	108,059	104,650	533,143	510,290	521,652	494,544	1,317,135	1,253,687
15-19	152,826	145,930	94,001	88,502	520,598	468,885	494,783	466,773	1,271,626	1,179,262
20-24	148,693	149,926	81,576	79,386	551,509	470,167	455,393	428,446	1,245,530	1,135,758
25-29	166,720	174,403	80,698	81,564	554,421	489,376	501,861	479,018	1,311,445	1,232,096
30-34	163,110	175,840	91,219	91,747	529,296	463,953	590,356	563,325	1,382,355	1,303,166
35-39	164,168	179,342	100,788	102,154	455,133	419,265	700,696	673,816	1,430,293	1,384,450
40-44	155,733	175,514	93,956	95,863	359,257	347,813	723,976	699,052	1,342,201	1,328,397
45-49	139,011	159,928	74,716	79,629	264,977	268,369	665,957	661,755	1,152,957	1,178,835
50-54	114,928	131,893	58,819	65,683	189,131	200,477	610,848	613,093	980,804	1,019,039
55-59	79,096	90,213	42,344	48,705	126,643	141,886	457,968	469,638	711,203	756,049
60-64	64,158	76,220	35,571	40,306	93,966	110,586	348,722	369,569	546,105	600,736
65-69	52,197	68,103	27,241	32,592	72,803	90,766	301,977	333,412	456,776	527,759
70-74	43,460	58,772	19,649	27,008	56,491	76,046	276,449	341,252	397,927	505,361
75-79	32,492	42,414	14,557	21,910	37,976	52,372	241,459	333,217	327,683	451,664
80-84	17,716	24,559	7,974	14,717	18,078	29,491	152,890	235,721	197,306	305,525
85+	11,768	17,744	5,435	13,947	12,802	25,944	103,746	232,909	134,182	291,475
Total	1,919,130	2,059,425	1,141,049	1,185,531	5,615,031	5,351,525	8,089,188	8,285,504	16,874,892	16,996,756

Prepared by the California Department of Health Services, Cancer Surveillance Section.
 Note: Estimates for American Indians not shown, but are included in all races combined.
 Race/ethnicity categories are mutually exclusive. Persons of Hispanic origin may be of any race.

APPENDIX D

Formulae for Rates and Standard Errors

Mathematical definitions used in rate calculations:

Age-specific rate:

$$r_i = \left(\frac{c_i}{n_i} \right)$$

Where r_i is the age-specific rate for age and/or gender group i , c_i is the count of cases for that age and/or gender group, and n_i is the count of persons at risk (i.e., the population) for that age and/or gender group; rates in all tables are presented per 100,000 population.

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Standard error of age-specific rate:

$$S.E._i = \sqrt{\left(\frac{c_i}{n_i^2} \right) 100,000^2}$$

Age-adjusted rate:

$$A.A.R. = \sum_{i=0-4}^{85+} (w_i r_i)$$

Where w_i is the proportion of that age group in the standard population.

Standard error of age-adjusted rate¹:

$$S.E.A.A.R. = \sqrt{\sum_{i=0-4}^{85+} w_i^2 (S.E._i)^2}$$

Standard error of the natural logarithm of a rate ratio:

$$S.E.L.R.R. = \sqrt{\left(\frac{S.E.A.A.R._1}{A.A.R._1} \right)^2 + \left(\frac{S.E.A.A.R._2}{A.A.R._2} \right)^2}$$

¹ Breslow, N.E. and Day, N.E. *Statistical Methods in Cancer Research: Vol. II, The Design and Analysis of Cohort Studies*. IARC Scientific Publication No. 82. International Agency for Research on Cancer, Lyon, 1987 (page 59).

Appendix E

Standard Populations

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	<u>2000 United States Standard Population¹</u>	<u>World Standard Population²</u>
All Ages	1,000,000	1,000,000
<5	69,135	120,000
5-9	72,533	100,000
10-14	73,032	90,000
15-19	72,169	90,000
20-24	66,478	80,000
25-29	64,529	80,000
30-34	71,044	60,000
35-39	80,762	60,000
40-44	81,851	60,000
45-49	72,118	60,000
50-54	62,716	50,000
55-59	48,454	40,000
60-64	38,793	40,000
65-69	34,264	30,000
70-74	31,773	20,000
75-79	26,999	10,000
80-84	17,842	5,000
85+	15,508	5,000

¹ Day, JC. U.S. Bureau of the Census. Population Projections of the United States by Age, Sex, Race, and Hispanic Origin: 1995 to 2050. Current Population Reports; Series P-25, no. 1130. U.S. Government Printing Office, Washington, D.C., 1996.

² Waterhouse J, Muir C, Correa P, and Powell J (eds). *Cancer Incidence in Five Continents, Volume III*. IARC Scientific Publications No. 15. International Agency for Research on Cancer, Lyon, 1976.

APPENDIX F

Directory of Regional Registries

Region 1/8

Northern California Cancer Center
32960 Alvarado-Niles Rd., Suite 600
Union City, CA 94587
(510) 429-2500, FAX (510) 429-2550

Counties: Region 1: Santa Clara Region (Monterey, San Benito, Santa Clara, and Santa Cruz Counties).

Region 8: Bay Area Region (Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties).

Region 2

Cancer Registry of Central California
1625 East Shaw Ave., Suite 155
Fresno, CA 93710,
(559) 244-4550, FAX (559) 221-1821

Counties: Central Region (Fresno, Kern, Kings, Madera, Mariposa, Merced, Stanislaus, Tulare, and Tuolumne Counties).

Region 3

Cancer Surveillance Program
2800 L Street, Suite 440
Sacramento, CA 95816,
(916) 454-6522, FAX (916) 454-6523

Counties: Sacramento Region (Alpine, Amador, Calaveras, El Dorado, Nevada, Placer, Sacramento, San Joaquin, Sierra, Solano, Sutter, Yolo, and Yuba Counties).

Region 4

Tri-Counties Regional Cancer Registry
524 West Pueblo Street
Santa Barbara, CA 93105
(805) 563-0457, FAX (805) 563-0362

Counties: Tri-County Region (San Luis Obispo, Santa Barbara, and Ventura Counties).

Region 5

Desert Sierra Cancer Surveillance Program
11368 Mountain View Ave., Suite C
Loma Linda, CA 92354,
(909) 558-6170, FAX (909) 558-6178

Counties: Inland Empire Region (Inyo, Mono, Riverside, and San Bernardino Counties).

Region 6

Cancer Registry of Northern California
1560 Humboldt Road, Suite 4,
Chico, CA 95928,
(530) 345-2483, FAX (530) 345-3214

Counties: North Region (Butte, Colusa, Del Norte, Glenn, Humboldt, Lake, Lassen, Mendocino, Modoc, Napa, Plumas, Shasta, Siskiyou, Sonoma, Tehama, and Trinity Counties).

Region 7/10

Cancer Surveillance Program of Orange County and San Diego Imperial Organization for Cancer Control
224 Irvine Hall, University of California Irvine, CA 92697-7555,
(949) 824-7401, FAX (949) 824-4773

Counties: Region 7: San Diego Region (Imperial and San Diego Counties).
Region 10: Orange County.

Region 9

Cancer Surveillance Program, University of Southern California
1540 Alcazar St., CHP-204
Los Angeles, CA 90033
(323) 442-2300, FAX (323) 442-2301

Counties: Los Angeles County.



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