

Table A.1

Number of Incidence Cases, 2005-2009

By Primary Cancer Site, Race and Sex
18 SEER Geographic Areas

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	45,554	31,466	14,088	37,612	26,186	11,426	4,192	2,857	1,335
Esophagus	18,572	14,319	4,253	15,510	12,157	3,353	2,088	1,466	622
Stomach	30,963	18,757	12,206	21,884	13,641	8,243	4,386	2,486	1,900
Colon & Rectum	190,152	97,551	92,601	152,032	78,535	73,497	21,745	10,569	11,176
Colon	135,590	66,497	69,093	108,807	53,749	55,058	16,103	7,592	8,511
Rectum	54,562	31,054	23,508	43,225	24,786	18,439	5,642	2,977	2,665
Liver & IBD ^a	31,640	22,636	9,004	22,136	15,915	6,221	3,825	2,801	1,024
Pancreas	49,621	24,666	24,955	40,149	20,154	19,995	5,831	2,752	3,079
Larynx	14,427	11,587	2,840	11,759	9,421	2,338	2,104	1,692	412
Lung & Bronchus	253,634	134,760	118,874	211,951	110,996	100,955	26,886	15,319	11,567
Melanoma of the skin	87,406	50,531	36,875	82,359	47,917	34,442	378	171	207
Breast	281,249	2,215	279,034	229,220	1,810	227,410	28,997	264	28,733
Cervix uteri	17,257	-	17,257	13,022	-	13,022	2,386	-	2,386
Corpus & Uterus, NOS	54,867	-	54,867	45,159	-	45,159	5,025	-	5,025
Ovary ^b	28,761	-	28,761	24,160	-	24,160	2,260	-	2,260
Prostate	287,904	287,904	-	224,485	224,485	-	38,968	38,968	-
Testis	11,401	11,401	-	10,365	10,365	-	313	313	-
Urinary bladder	83,931	63,276	20,655	74,760	56,758	18,002	4,464	2,989	1,475
Kidney & Renal pelvis	62,832	39,233	23,599	51,990	32,616	19,374	6,957	4,237	2,720
Brain & ONS ^a	26,898	14,988	11,910	23,411	13,174	10,237	1,822	926	896
Thyroid	48,798	11,701	37,097	40,049	9,940	30,109	3,141	619	2,522
Hodgkin lymphoma	11,714	6,417	5,297	9,655	5,297	4,358	1,366	735	631
Non-Hodgkin lymphoma	80,714	43,762	36,952	68,359	37,084	31,275	6,003	3,258	2,745
Myeloma	23,885	13,205	10,680	17,868	10,154	7,714	4,432	2,218	2,214
Leukemia	51,124	29,131	21,993	43,195	24,819	18,376	3,891	2,089	1,802
Acute lymphocytic	6,820	3,846	2,974	5,696	3,198	2,498	500	307	193
Chronic lymphocytic	17,066	10,172	6,894	14,933	8,905	6,028	1,030	605	425
Acute myeloid	14,620	7,791	6,829	12,097	6,577	5,520	1,239	589	650
Chronic myeloid	6,460	3,763	2,697	5,240	3,070	2,170	620	332	288
All others	6,158	3,559	2,599	5,229	3,069	2,160	502	256	246
Kaposi Sarcoma	2,337	2,122	215	1,617	1,471	146	536	485	51
Mesothelioma	4,187	3,197	990	3,840	2,945	895	208	151	57
All Sites	1,922,239	992,678	929,561	1,577,573	813,839	763,734	194,295	102,813	91,482

Source: SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

^a IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

^b Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

- Count not shown due to fewer than 16 cases during the time period.

Table A.1

Number of Incidence Cases, 2005-2009

By Primary Cancer Site, Race and Sex
18 SEER Geographic Areas

Site	Asian/Pacific Islander			American Indian/Alaska Native ^a			Hispanic ^b		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	2,888	1,857	1,031	178	118	60	3,227	2,123	1,104
Esophagus	781	562	219	84	53	31	1,250	1,007	243
Stomach	4,256	2,368	1,888	212	130	82	5,082	2,926	2,156
Colon & Rectum	13,584	6,941	6,643	875	445	430	17,275	9,376	7,899
Colon	8,951	4,257	4,694	601	287	314	11,686	6,033	5,653
Rectum	4,633	2,684	1,949	274	158	116	5,589	3,343	2,246
Liver & IBD ^c	5,143	3,546	1,597	291	197	94	5,604	3,988	1,616
Pancreas	3,181	1,537	1,644	223	107	116	4,645	2,238	2,407
Larynx	398	348	50	51	38	-	1,082	931	151
Lung & Bronchus	12,977	7,491	5,486	856	443	413	13,248	7,190	6,058
Melanoma of the skin	510	260	250	97	44	53	2,485	1,085	1,400
Breast	19,353	113	19,240	1,042	-	1,036	26,618	146	26,472
Cervix uteri	1,471	-	1,471	115	-	115	3,894	-	3,894
Corpus & Uterus, NOS	3,860	-	3,860	254	-	254	5,481	-	5,481
Ovary ^d	1,995	-	1,995	139	-	139	3,252	-	3,252
Prostate	12,628	12,628	-	706	706	-	24,286	24,286	-
Testis	397	397	-	75	75	-	2,395	2,395	-
Urinary bladder	3,029	2,275	754	167	133	34	4,672	3,428	1,244
Kidney & Renal pelvis	2,841	1,738	1,103	439	256	183	7,405	4,454	2,951
Brain & ONS ^c	1,312	704	608	107	54	53	3,437	1,890	1,547
Thyroid	4,624	947	3,677	194	39	155	6,872	1,281	5,591
Hodgkin lymphoma	514	283	231	29	-	-	1,807	990	817
Non-Hodgkin lymphoma	4,617	2,498	2,119	273	149	124	8,708	4,655	4,053
Myeloma	1,174	625	549	95	48	47	2,436	1,291	1,145
Leukemia	2,631	1,411	1,220	193	107	86	6,402	3,563	2,839
Acute lymphocytic	501	278	223	40	24	16	2,423	1,335	1,088
Chronic lymphocytic	330	188	142	30	22	-	776	436	340
Acute myeloid	1,103	545	558	65	28	37	1,761	937	824
Chronic myeloid	387	241	146	33	18	-	786	459	327
All others	310	159	151	25	-	-	656	396	260
Kaposi Sarcoma	70	66	-	-	-	-	534	493	41
Mesothelioma	109	79	30	17	-	-	394	275	119
All Sites	111,376	51,928	59,448	7,255	3,433	3,822	175,955	86,124	89,831

Source: SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

^a Incidence data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

^c Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

^d IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

^e Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

- Count not shown due to fewer than 16 cases during the time period.

Table A.2

Standard Errors of Incidence Rates, 2005-2009

By Primary Cancer Site, Race and Sex
18 SEER Geographic Areas

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.05	0.09	0.05	0.06	0.10	0.06	0.16	0.30	0.16
Esophagus	0.03	0.07	0.03	0.04	0.07	0.03	0.12	0.25	0.11
Stomach	0.04	0.08	0.05	0.04	0.08	0.05	0.19	0.37	0.20
Colon & Rectum	0.11	0.18	0.13	0.12	0.19	0.15	0.40	0.70	0.48
Colon	0.09	0.15	0.11	0.10	0.16	0.13	0.35	0.61	0.43
Rectum	0.06	0.10	0.07	0.06	0.10	0.07	0.19	0.34	0.23
Liver & IBD ^a	0.04	0.08	0.04	0.04	0.08	0.04	0.15	0.30	0.14
Pancreas	0.05	0.09	0.07	0.06	0.10	0.08	0.21	0.36	0.26
Larynx	0.03	0.06	0.02	0.03	0.06	0.03	0.12	0.26	0.09
Lung & Bronchus	0.13	0.21	0.15	0.14	0.23	0.18	0.45	0.86	0.50
Melanoma of the skin	0.07	0.12	0.09	0.09	0.15	0.11	0.05	0.09	0.06
Breast	0.13	0.03	0.24	0.14	0.03	0.27	0.42	0.11	0.72
Cervix uteri	0.03	-	0.06	0.04	-	0.07	0.11	-	0.20
Corpus & Uterus, NOS	0.06	-	0.10	0.06	-	0.12	0.18	-	0.31
Ovary ^b	0.04	-	0.08	0.05	-	0.09	0.12	-	0.21
Prostate	0.13	0.29	-	0.14	0.32	-	0.51	1.26	-
Testis	0.03	0.05	-	0.03	0.06	-	0.03	0.07	-
Urinary bladder	0.07	0.15	0.06	0.08	0.17	0.07	0.19	0.42	0.19
Kidney & Renal pelvis	0.06	0.11	0.07	0.07	0.12	0.08	0.21	0.40	0.23
Brain & ONS ^a	0.04	0.06	0.05	0.05	0.07	0.06	0.10	0.17	0.12
Thyroid	0.05	0.05	0.09	0.06	0.06	0.11	0.13	0.14	0.20
Hodgkin lymphoma	0.03	0.04	0.03	0.03	0.05	0.04	0.07	0.12	0.10
Non-Hodgkin lymphoma	0.07	0.12	0.09	0.08	0.13	0.10	0.19	0.33	0.23
Myeloma	0.04	0.07	0.05	0.04	0.07	0.05	0.18	0.33	0.22
Leukemia	0.06	0.10	0.07	0.06	0.11	0.08	0.16	0.30	0.19
Acute lymphocytic	0.02	0.03	0.03	0.02	0.04	0.03	0.04	0.07	0.05
Chronic lymphocytic	0.03	0.06	0.04	0.04	0.07	0.04	0.09	0.19	0.10
Acute myeloid	0.03	0.05	0.04	0.03	0.06	0.04	0.09	0.16	0.11
Chronic myeloid	0.02	0.03	0.02	0.02	0.04	0.03	0.06	0.11	0.07
All others	0.02	0.03	0.02	0.02	0.04	0.03	0.06	0.11	0.07
Kaposi Sarcoma	0.01	0.02	0.01	0.01	0.03	0.01	0.05	0.10	0.03
Mesothelioma	0.02	0.03	0.01	0.02	0.04	0.02	0.04	0.10	0.03
All Sites	0.34	0.55	0.43	0.38	0.61	0.49	1.14	2.09	1.34

Source: SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

^a IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

^b Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

- Statistic could not be calculated due to fewer than 16 cases during the time period.

Table A.2

Standard Errors of Incidence Rates, 2005-2009

By Primary Cancer Site, Race and Sex
18 SEER Geographic Areas

Site	Asian/Pacific Islander			American Indian/Alaska Native ^a			Hispanic ^b		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.15	0.26	0.16	0.58	0.98	0.67	0.12	0.21	0.13
Esophagus	0.08	0.16	0.08	0.47	0.86	0.51	0.08	0.17	0.07
Stomach	0.20	0.35	0.23	0.72	1.29	0.83	0.16	0.29	0.19
Colon & Rectum	0.34	0.55	0.42	1.47	2.32	1.90	0.30	0.50	0.37
Colon	0.28	0.44	0.36	1.25	1.94	1.65	0.25	0.42	0.32
Rectum	0.19	0.33	0.22	0.77	1.27	0.93	0.16	0.28	0.18
Liver & IBD ^c	0.21	0.38	0.21	0.79	1.39	0.87	0.16	0.29	0.17
Pancreas	0.17	0.28	0.22	0.76	1.21	0.99	0.17	0.26	0.21
Larynx	0.06	0.13	0.04	0.35	0.72	-	0.08	0.16	0.05
Lung & Bronchus	0.34	0.62	0.39	1.55	2.62	1.90	0.29	0.50	0.34
Melanoma of the skin	0.06	0.10	0.08	0.43	0.69	0.56	0.10	0.16	0.13
Breast	0.38	0.07	0.69	1.41	-	2.57	0.32	0.06	0.59
Cervix uteri	0.10	-	0.19	0.41	-	0.78	0.10	-	0.20
Corpus & Uterus, NOS	0.16	-	0.30	0.67	-	1.24	0.14	-	0.27
Ovary ^d	0.12	-	0.22	0.55	-	0.99	0.11	-	0.21
Prostate	0.33	0.78	-	1.36	3.15	-	0.37	0.85	-
Testis	0.05	0.10	-	0.26	0.53	-	0.05	0.10	-
Urinary bladder	0.17	0.35	0.15	0.68	1.37	0.57	0.17	0.35	0.15
Kidney & Renal pelvis	0.15	0.27	0.17	0.99	1.67	1.19	0.18	0.32	0.21
Brain & ONS ^c	0.10	0.16	0.13	0.39	0.56	0.53	0.10	0.16	0.13
Thyroid	0.18	0.18	0.29	0.53	0.54	0.90	0.13	0.13	0.22
Hodgkin lymphoma	0.06	0.09	0.08	0.17	-	-	0.06	0.10	0.08
Non-Hodgkin lymphoma	0.20	0.33	0.24	0.80	1.31	1.00	0.20	0.32	0.25
Myeloma	0.10	0.17	0.12	0.48	0.77	0.64	0.11	0.19	0.14
Leukemia	0.15	0.24	0.18	0.61	1.06	0.74	0.14	0.24	0.17
Acute lymphocytic	0.06	0.09	0.08	0.20	0.33	0.24	0.05	0.08	0.08
Chronic lymphocytic	0.05	0.09	0.06	0.27	0.57	-	0.07	0.12	0.08
Acute myeloid	0.10	0.15	0.12	0.38	0.52	0.54	0.08	0.13	0.10
Chronic myeloid	0.06	0.10	0.06	0.24	0.46	-	0.05	0.09	0.06
All others	0.05	0.08	0.06	0.23	-	-	0.05	0.09	0.06
Kaposi Sarcoma	0.02	0.05	-	-	-	-	0.04	0.07	0.03
Mesothelioma	0.03	0.07	0.03	0.23	-	-	0.05	0.10	0.05
All Sites	0.96	1.54	1.24	4.07	6.52	5.26	0.90	1.50	1.13

Source: SEER 18 areas (San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah, Atlanta, San Jose-Monterey, Los Angeles, Alaska Native Registry, Rural Georgia, California excluding SF/SJM/LA, Kentucky, Louisiana, New Jersey and Georgia excluding ATL/RG).

^a Incidence data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.

^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

^c Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

^d IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

- Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

- Statistic could not be calculated due to fewer than 16 cases during the time period.

Table A.3

Number of Deaths, 2005-2009

By Primary Cancer Site, Race and Sex
United States

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	39,501	27,009	12,492	32,914	22,211	10,703	5,129	3,823	1,306
Esophagus	68,398	53,959	14,439	59,896	47,772	12,124	7,163	5,195	1,968
Stomach	56,783	33,562	23,221	42,660	25,371	17,289	9,904	5,805	4,099
Colon & Rectum	264,125	134,325	129,800	222,413	113,438	108,975	34,207	17,048	17,159
Liver & IBD ^a	87,311	57,987	29,324	69,055	45,391	23,664	11,760	8,248	3,512
Pancreas	171,192	85,223	85,969	146,368	73,611	72,757	20,027	9,279	10,748
Larynx	18,641	14,679	3,962	15,087	11,790	3,297	3,245	2,625	620
Lung & Bronchus	793,172	443,946	349,226	693,512	384,844	308,668	82,088	48,849	33,239
Melanoma of the skin	43,069	27,930	15,139	42,104	27,444	14,660	642	309	333
Breast	205,771	1,972	203,799	171,464	1,645	169,819	29,294	299	28,995
Cervix uteri	19,838	-	19,838	14,963	-	14,963	3,993	-	3,993
Corpus & Uterus, NOS	37,324	-	37,324	29,959	-	29,959	6,370	-	6,370
Ovary	73,063	-	73,063	65,050	-	65,050	6,022	-	6,022
Prostate	142,929	142,929	-	116,604	116,604	-	23,810	23,810	-
Testis	1,777	1,777	-	1,602	1,602	-	114	114	-
Urinary bladder	68,807	48,079	20,728	62,807	44,608	18,199	4,977	2,781	2,196
Kidney & Renal pelvis	63,489	39,973	23,516	55,911	35,239	20,672	5,986	3,696	2,290
Brain & ONS ^a	67,172	37,374	29,798	61,673	34,411	27,262	4,061	2,159	1,902
Thyroid	7,898	3,337	4,561	6,753	2,976	3,777	725	215	510
Hodgkin lymphoma	6,291	3,489	2,802	5,494	3,026	2,468	671	386	285
Non-Hodgkin lymphoma	102,751	55,235	47,516	93,026	49,960	43,066	7,063	3,854	3,209
Myeloma	53,638	28,823	24,815	43,344	23,679	19,665	9,103	4,503	4,600
Leukemia	110,779	62,909	47,870	98,945	56,476	42,469	9,200	4,970	4,230
Acute lymphocytic	7,118	4,034	3,084	6,258	3,522	2,736	597	362	235
Chronic lymphocytic	22,312	13,276	9,036	20,297	12,045	8,252	1,829	1,108	721
Acute myeloid	43,559	24,456	19,103	38,894	22,092	16,802	3,348	1,646	1,702
Chronic myeloid	5,131	2,871	2,260	4,410	2,448	1,962	585	341	244
All others	32,659	18,272	14,387	29,086	16,369	12,717	2,841	1,513	1,328
All Sites	2,815,124	1,465,345	1,349,779	2,421,504	1,261,999	1,159,505	318,884	164,805	154,079

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^a IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

- Count not shown due to fewer than 16 cases during the time period.

Table A.3

Number of Deaths, 2005-2009

By Primary Cancer Site, Race and Sex
United States

Site	Asian/Pacific Islander			American Indian/Alaska Native ^a			Hispanic ^b		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	1,241	824	417	134	94	40	1,765	1,299	466
Esophagus	1,024	749	275	216	166	50	2,615	2,126	489
Stomach	3,797	2,123	1,674	339	213	126	6,660	3,807	2,853
Colon & Rectum	6,184	3,152	3,032	949	489	460	14,040	7,630	6,410
Liver & IBD ^c	5,782	3,884	1,898	517	333	184	9,834	6,525	3,309
Pancreas	4,120	1,993	2,127	500	253	247	9,241	4,653	4,588
Larynx	215	185	30	57	51	-	914	806	108
Lung & Bronchus	14,153	8,392	5,761	2,241	1,189	1,052	22,950	14,357	8,593
Melanoma of the skin	228	119	109	72	46	26	957	562	395
Breast	4,170	22	4,148	575	-	570	10,498	59	10,439
Cervix uteri	698	-	698	130	-	130	2,339	-	2,339
Corpus & Uterus, NOS	857	-	857	99	-	99	2,146	-	2,146
Ovary	1,667	-	1,667	220	-	220	3,871	-	3,871
Prostate	1,949	1,949	-	375	375	-	6,957	6,957	-
Testis	45	45	-	-	-	-	319	319	-
Urinary bladder	842	568	274	110	80	30	2,304	1,597	707
Kidney & Renal pelvis	1,114	723	391	364	229	135	4,054	2,601	1,453
Brain & ONS ^c	1,205	676	529	162	91	71	4,053	2,221	1,832
Thyroid	389	130	259	23	-	-	673	274	399
Hodgkin lymphoma	108	61	47	-	-	-	582	336	246
Non-Hodgkin lymphoma	2,287	1,232	1,055	268	128	140	5,996	3,275	2,721
Myeloma	934	498	436	176	94	82	3,037	1,608	1,429
Leukemia	2,244	1,234	1,010	284	174	110	6,562	3,658	2,904
Acute lymphocytic	211	120	91	40	21	19	1,426	797	629
Chronic lymphocytic	133	88	45	33	23	-	498	281	217
Acute myeloid	1,161	623	538	113	72	41	2,421	1,331	1,090
Chronic myeloid	105	59	46	24	18	-	324	191	133
All others	634	344	290	74	40	34	1,893	1,058	835
All Sites	61,826	31,849	29,977	9,034	4,634	4,400	138,810	73,077	65,733

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^a Mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Mortality data for Hispanics excludes deaths from District of Columbia, North Dakota and South Carolina.

^c IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

- Count not shown due to fewer than 16 cases during the time period.

Table A.4
Standard Errors of Death Rates, 2005-2009
By Primary Cancer Site, Race and Sex
United States

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.01	0.02	0.01	0.01	0.02	0.01	0.05	0.10	0.04
Esophagus	0.02	0.03	0.01	0.02	0.04	0.01	0.06	0.12	0.05
Stomach	0.02	0.03	0.02	0.02	0.03	0.02	0.07	0.14	0.08
Colon & Rectum	0.03	0.06	0.04	0.03	0.06	0.04	0.13	0.25	0.15
Liver & IBD ^a	0.02	0.03	0.02	0.02	0.04	0.02	0.07	0.14	0.07
Pancreas	0.03	0.04	0.03	0.03	0.05	0.03	0.10	0.17	0.12
Larynx	0.01	0.02	0.01	0.01	0.02	0.01	0.04	0.09	0.03
Lung & Bronchus	0.06	0.10	0.07	0.06	0.11	0.07	0.20	0.40	0.21
Melanoma of the skin	0.01	0.02	0.01	0.02	0.03	0.02	0.02	0.03	0.02
Breast	0.03	0.01	0.05	0.03	0.01	0.06	0.11	0.03	0.19
Cervix uteri	0.01	-	0.02	0.01	-	0.02	0.04	-	0.07
Corpus & Uterus, NOS	0.01	-	0.02	0.01	-	0.02	0.06	-	0.09
Ovary	0.02	-	0.03	0.02	-	0.03	0.05	-	0.09
Prostate	0.02	0.06	-	0.02	0.06	-	0.12	0.36	-
Testis	0.00	0.01	-	0.00	0.01	-	0.01	0.01	-
Urinary bladder	0.02	0.04	0.02	0.02	0.04	0.02	0.05	0.11	0.06
Kidney & Renal pelvis	0.02	0.03	0.02	0.02	0.03	0.02	0.05	0.11	0.06
Brain & ONS ^a	0.02	0.03	0.02	0.02	0.03	0.02	0.04	0.07	0.05
Thyroid	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03
Hodgkin lymphoma	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.02
Non-Hodgkin lymphoma	0.02	0.04	0.02	0.02	0.04	0.03	0.06	0.11	0.06
Myeloma	0.01	0.03	0.02	0.02	0.03	0.02	0.07	0.13	0.08
Leukemia	0.02	0.04	0.02	0.02	0.04	0.03	0.07	0.13	0.07
Acute lymphocytic	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02
Chronic lymphocytic	0.01	0.02	0.01	0.01	0.02	0.01	0.03	0.07	0.03
Acute myeloid	0.01	0.02	0.02	0.01	0.03	0.02	0.04	0.07	0.05
Chronic myeloid	0.00	0.01	0.01	0.00	0.01	0.01	0.02	0.03	0.02
All others	0.01	0.02	0.01	0.01	0.02	0.01	0.04	0.08	0.04
All Sites	0.11	0.18	0.13	0.11	0.20	0.14	0.39	0.76	0.45

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^a IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

- Statistic could not be calculated due to fewer than 16 cases during the time period.

Table A.4

Standard Errors of Death Rates, 2005-2009

By Primary Cancer Site, Race and Sex
United States

Site	Asian/Pacific Islander			American Indian/Alaska Native ^a			Hispanic ^b		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.06	0.11	0.06	0.20	0.38	0.20	0.04	0.07	0.04
Esophagus	0.06	0.12	0.05	0.26	0.53	0.22	0.05	0.10	0.04
Stomach	0.11	0.20	0.13	0.32	0.61	0.35	0.07	0.13	0.08
Colon & Rectum	0.15	0.24	0.18	0.56	0.92	0.70	0.11	0.19	0.13
Liver & IBD ^c	0.13	0.24	0.14	0.40	0.70	0.45	0.09	0.16	0.09
Pancreas	0.12	0.20	0.15	0.41	0.69	0.52	0.09	0.14	0.11
Larynx	0.03	0.06	0.02	0.13	0.30	-	0.03	0.06	0.02
Lung & Bronchus	0.22	0.41	0.25	0.87	1.49	1.05	0.14	0.27	0.15
Melanoma of the skin	0.03	0.04	0.03	0.14	0.28	0.15	0.03	0.05	0.03
Breast	0.11	0.02	0.19	0.41	-	0.72	0.08	0.02	0.15
Cervix uteri	0.04	-	0.08	0.17	-	0.31	0.03	-	0.06
Corpus & Uterus, NOS	0.05	-	0.09	0.18	-	0.31	0.04	-	0.07
Ovary	0.07	-	0.12	0.27	-	0.47	0.05	-	0.10
Prostate	0.09	0.23	-	0.41	1.07	-	0.09	0.22	-
Testis	0.01	0.02	-	-	-	-	0.01	0.02	-
Urinary bladder	0.06	0.12	0.06	0.21	0.44	0.19	0.05	0.10	0.05
Kidney & Renal pelvis	0.06	0.11	0.06	0.34	0.63	0.37	0.06	0.10	0.06
Brain & ONS ^c	0.06	0.09	0.07	0.20	0.33	0.25	0.05	0.08	0.06
Thyroid	0.04	0.05	0.05	0.10	-	-	0.02	0.03	0.03
Hodgkin lymphoma	0.02	0.03	0.02	-	-	-	0.02	0.03	0.02
Non-Hodgkin lymphoma	0.09	0.16	0.11	0.30	0.48	0.39	0.07	0.12	0.08
Myeloma	0.06	0.10	0.07	0.24	0.42	0.28	0.05	0.09	0.06
Leukemia	0.08	0.15	0.10	0.29	0.53	0.32	0.06	0.11	0.08
Acute lymphocytic	0.02	0.04	0.03	0.08	0.11	0.11	0.02	0.03	0.03
Chronic lymphocytic	0.02	0.05	0.02	0.12	0.25	-	0.02	0.04	0.03
Acute myeloid	0.06	0.10	0.07	0.18	0.34	0.20	0.04	0.07	0.05
Chronic myeloid	0.02	0.03	0.02	0.08	0.14	-	0.01	0.03	0.02
All others	0.05	0.08	0.05	0.16	0.27	0.19	0.04	0.07	0.04
All Sites	0.45	0.78	0.55	1.72	2.94	2.11	0.33	0.58	0.40

Source: US Mortality Files, National Center for Health Statistics, Centers for Disease Control and Prevention.

^a Mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.^b Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Mortality data for Hispanics excludes deaths from District of Columbia, North Dakota and South Carolina.

^c IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

- Statistic could not be calculated due to fewer than 16 cases during the time period.

Table A.5

SEER Site Recode ICD-O-3 (1/27/2003) Definition

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
Oral Cavity and Pharynx			
Lip	C000-C009		20010
Tongue	C019-C029		20020
Salivary Gland	C079-C089		20030
Floor of Mouth	C040-C049		20040
Gum and Other Mouth	C030-C039, C050-C059, C060-C069	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	20050
Nasopharynx	C110-C119		20060
Tonsil	C090-C099		20070
Oropharynx	C100-C109		20080
Hypopharynx	C129, C130-C139		20090
Other Oral Cavity and Pharynx	C140, C142-C148		20100
Digestive System			
Esophagus	C150-C159	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	21010
Stomach	C160-C169		21020
Small Intestine	C170-C179		21030
Colon and Rectum			
Colon excluding Rectum			
Cecum	C180		21041
Appendix	C181		21042
Ascending Colon	C182		21043
Hepatic Flexure	C183	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	21044
Transverse Colon	C184		21045
Splenic Flexure	C185		21046
Descending Colon	C186		21047
Sigmoid Colon	C187		21048
Large Intestine, NOS	C188-C189, C260		21049
Rectum and Rectosigmoid Junction			
Rectosigmoid Junction	C199	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	21051
Rectum	C209		21052
Anus, Anal Canal and Anorectum	C210-C212, C218		21060
Liver and Intrahepatic Bile Duct			
Liver	C220		21071
Intrahepatic Bile Duct	C221		21072
Gallbladder	C239	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	21080
Other Biliary	C240-C249		21090
Pancreas	C250-C259		21100
Retroperitoneum	C480		21110
Peritoneum, Omentum and Mesentery	C481-C482		21120
Other Digestive Organs	C268-C269, C488		21130
Respiratory System			
Nose, Nasal Cavity and Middle Ear	C300-C301, C310-C319		22010
Larynx	C320-C329		22020
Lung and Bronchus	C340-C349	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	22030
Pleura	C384		22050
Trachea, Mediastinum and Other Respiratory Organs	C339, C381-C383, C388 C390, C398, C399		22060
Bones and Joints	C400-C419	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	23000
Soft Tissue including Heart	C380, C470-C479, C490-C499	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	24000
Skin excluding Basal and Squamous			
Melanoma of the Skin	C440-C449	8720-8790	25010
Other Non-Epithelial Skin	C440-C449	excluding 8000-8005, 8010-8045, 8050-8084, 8090-8110, 8720-8790, 9590-9989, and sometimes 9050-9055, 9140 ⁺	25020
Breast	C500-C509	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	26000
Female Genital System			
Cervix Uteri	C530-C539		27010
Corpus and Uterus, NOS			
Corpus Uteri	C540-C549		27020
Uterus, NOS	C559	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	27030
Ovary	C569		27040
Vagina	C529		27050
Vulva	C510-C519		27060
Other Female Genital Organs	C570-C589		27070

Table A.5 - continued

SEER Site Recode ICD-O-3 (1/27/2003) Definition

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
Male Genital System			
Prostate	C619		28010
Testis	C620-C629	excluding 9590-9989, and	28020
Penis	C600-C609	sometimes 9050-9055, 9140 ⁺	28030
Other Male Genital Organs	C630-C639		28040
Urinary System			
Urinary Bladder	C670-C679		29010
Kidney and Renal Pelvis	C649, C659	excluding 9590-9989, and	29020
Ureter	C669	sometimes 9050-9055, 9140 ⁺	29030
Other Urinary Organs	C680-C689		29040
Eye and Orbit	C690-C699	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	30000
Brain and Other Nervous System			
Brain	C710-C719	excluding 9530-9539, 9590-9989, and sometimes 9050-9055, 9140 ⁺	31010
Cranial Nerves Other Nervous System	C710-C719 C700-C709, C720-C729	9530-9539 excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	31040
Endocrine System			
Thyroid	C739	excluding 9590-9989, and	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759	sometimes 9050-9055, 9140 ⁺	32020
Lymphoma			
Hodgkin Lymphoma			
Hodgkin - Nodal	C024, C098-C099, C111, C142, C379, C422, C770-C779	9650-9667	33011
Hodgkin - Extranodal	All other sites		33012
Non-Hodgkin Lymphoma			
NHL - Nodal	C024, C098-C099, C111, C142, C379, C422, C770-C779	9590-9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691, 9695, 9698-9702, 9705, 9708-9709, 9714-9719, 9727-9729, 9823, 9827	33041
NHL - Extranodal	All sites except C024, C098-C099, C111, C142, C379, C422, C770-C779	9590-9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691, 9695, 9698-9702, 9705, 9708-9709, 9714-9719, 9727-9729	33042
	All sites except C024, C098- C099, C111, C142, C379, C420-C422, C424, C770-C779	9823, 9827	
Myeloma		9731-9732, 9734	34000
Leukemia			
Lymphocytic Leukemia			
Acute Lymphocytic Leukemia		9826, 9835-9837	35011
Chronic Lymphocytic Leukemia	C420-C421, C424	9823	35012
Other Lymphocytic Leukemia		9820, 9832-9834, 9940	35013
Myeloid and Monocytic Leukemia			
Acute Myeloid Leukemia		9840, 9861, 9866, 9867, 9871-9874, 9895-9897, 9910, 9920	35021
Acute Monocytic Leukemia		9891	35031
Chronic Myeloid Leukemia		9863, 9875, 9876, 9945, 9946	35022
Other Myeloid/Monocytic Leukemia		9860, 9930	35023
Other Leukemia			
Other Acute Leukemia		9801, 9805, 9931	35041
Aleukemic, Subleukemic and NOS		9733, 9742, 9800, 9831, 9870, 9948, 9963, 9964	35043
	C420, C421, C424	9827	
Mesothelioma ⁺		9050-9055	36010
Kaposi Sarcoma ⁺		9140	36020
Miscellaneous		9740-9741, 9750-9758, 9760-9769, 9950, 9960-9962, 9970, 9975, 9980, 9982-9987, 9989	37000
	C420-C424, C760-C768 C770-C779, C809	excluding 9590-9989, and sometimes 9050-9055, 9140 ⁺	
Invalid	Site or histology code not within valid range or site code not found in this table		99999

⁺ The Site Recode variable can be created with or without Mesothelioma (9050-9055) and Kaposi Sarcoma (9140) as separate groupings. The table above documents both possibilities.

Table A.6

International Classification of Childhood Cancer (ICCC)^a Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
I. Leukemias, myeloproliferative diseases, and myelodysplastic diseases		
a. Lymphoid leukemias	9820, 9823, 9826, 9827, 9831-9837, 9940, 9948	
b. Acute myeloid leukemias	9840, 9861, 9866, 9867, 9870-9874, 9891, 9895-9897, 9910, 9920, 9931	
c. Chronic myeloproliferative diseases	9863, 9875, 9876, 9950, 9960-9964	
d. Myelodysplastic syndrome and other myeloproliferative diseases	9945, 9946, 9975, 9980, 9982-9987, 9989	
e. Unspecified and other specified leukemias	9800, 9801, 9805, 9860, 9930	
II. Lymphomas and reticuloendothelial neoplasms		
a. Hodgkin lymphomas	9650-9655, 9659, 9661-9665, 9667	
b. Non-Hodgkin lymphomas (except Burkitt lymphoma)	9591, 9670, 9671, 9673, 9675, 9678-9680, 9684, 9689-9691, 9695, 9698-9702, 9705, 9708, 9709, 9714, 9716-9719, 9727-9729, 9731-9734, 9760-9762, 9764-9769, 9970	
c. Burkitt lymphoma	9687	
d. Miscellaneous lymphoreticular neoplasms	9740-9742, 9750, 9754-9758	
e. Unspecified lymphomas	9590, 9596	
III. CNS and miscellaneous intracranial and intraspinal neoplasms		
a. Ependymomas and choroid plexus tumor	9383, 9390-9394 ^b	
b. Astrocytomas	9380 ^b	C72.3
	9384, 9400-9411, 9420, 9421-9424, 9440-9442 ^b	
c. Intracranial and intraspinal embryonal tumors	9470-9474, 9480, 9508 ^b	C70.0-C72.9
d. Other gliomas	9501-9504 ^b	C70.0-C72.2, C72.4-C72.9, C75.1, C75.3
	9381, 9382, 9430, 9444, 9450, 9451, 9460 ^b	
e. Other specified intracranial and intraspinal neoplasms	8270-8281, 8300, 9350-9352, 9360-9362, 9412, 9413, 9492, 9493, 9505-9507, 9530-9539, 9582 ^b	
f. Unspecified intracranial and intraspinal neoplasms	8000-8005 ^b	C70.0-C72.9, C75.1-C75.3
IV. Neuroblastoma and other peripheral nervous cell tumors		
a. Neuroblastoma and ganglioneuroblastoma	9490, 9500	
b. Other peripheral nervous cell tumors	8680-8683, 8690-8693, 8700, 9520-9523	
	9501-9504	C00.0-C69.9, C73.9-C76.8, C80.9
V. Retinoblastoma	9510-9514	
VI. Renal tumors		
a. Nephroblastoma and other nonepithelial renal tumors	8959, 8960, 8964-8967	
	8963, 9364	C64.9
b. Renal carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8143, 8155, 8190-8201, 8210, 8211, 8221-8231, 8240, 8241, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8401, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8576	C64.9
	8311, 8312, 8316-8319, 8361	
c. Unspecified malignant renal tumors	8000-8005	C64.9
VII. Hepatic tumors		
a. Hepatoblastoma	8970	
b. Hepatic carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8140, 8141, 8143, 8155, 8190-8201, 8210, 8211, 8230, 8231, 8240, 8241, 8244-8246, 8260-8264, 8310, 8320, 8323, 8401, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8576	C22.0, C22.1
	8160-8180	
c. Unspecified malignant hepatic tumors	8000-8005	C22.0, C22.1

^a International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005; Vol 103, No. 7, pg 1457-1467.

^b Tumors with nonmalignant behavior are included for all morphology codes on the line. CNS: central nervous system.

Table A.6 - continued

International Classification of Childhood Cancer (ICCC)^a Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
VIII. Malignant bone tumors		
a. Osteosarcomas	9180-9187, 9191-9195, 9200	C40.0-C41.9, C76.0-C76.8, C80.9
b. Chondrosarcomas	9210, 9220, 9240	C40.0-C41.9, C76.0-C76.8, C80.9
	9221, 9230, 9241-9243	
c. Ewing tumor and related sarcomas of bone	9260	C40.0-C41.9, C76.0-C76.8, C80.9
	9363-9365	C40.0-C41.9
d. Other specified malignant bone tumors	8810, 8811, 8823, 8830 8812, 9250, 9261, 9262, 9270-9275, 9280-9282, 9290, 9300-9302, 9310-9312, 9320-9322, 9330, 9340-9342, 9370-9372	C40.0-C41.9
e. Unspecified malignant bone tumors	8000-8005, 8800, 8801, 8803-8805	C40.0-C41.9
IX. Soft tissue and <STYLE> other extraosseous sarcomas		
a. Rhabdomyosarcomas	8900-8905, 8910, 8912, 8920, 8991	
b. Fibrosarcomas, peripheral nerve sheath tumors, and other fibrous neoplasms	8810, 8811, 8813-8815, 8821, 8823, 8834-8835	C00.0-C39.9, C44.0-C76.8, C80.9
	8820, 8822, 8824-8827, 9150, 9160, 9491, 9540-9571, 9580	
c. Kaposi sarcoma	9140	
d. Other specified soft tissue sarcomas	8587, 8710-8713, 8806, 8831-8833, 8836, 8840-8842, 8850-8858, 8860-8862, 8870, 8880, 8881, 8890-8898, 8921, 8982, 8990, 9040-9044, 9120-9125, 9130-9133, 9135, 9136, 9141, 9142, 9161, 9170-9175, 9231, 9251, 9252, 9373, 9581	
	8830	C00.0-C39.9, C44.0-C76.8, C80.9
	8963	C00.0-C63.9, C65.9- C69.9, C73.9-C76.8, C80.9
	9180, 9210, 9220, 9240	C49.0-C49.9
	9260	C00.0-C39.9, C47.0-C75.9
	9364	C00.0-C39.9, C47.0- C63.9, C65.9-C69.9, C73.9-C76.8, C80.9
	9365	C00.0-C39.9, C47.0- C63.9, C65.9-C76.8, C80.9
e. Unspecified soft tissue sarcomas	8800-8805	C00.0-C39.9, C44.0-C76.8
X. Germ cell tumors, trophoblastic tumors, and neoplasms of gonads		
a. Intracranial and intraspinal germ cell tumors	9060-9065, 9070-9072, 9080-9085, 9100, 9101 ^b	C70.0-C72.9, C75.1-C75.3
b. Malignant extracranial and extragonadal germ cell tumors	9060-9065, 9070-9072, 9080-9085, 9100-9105	C00.0-C55.9, C57.0- C61.9, C63.0-C69.9, C73.9-C75.0, C75.4- C76.8, C80.9
c. Malignant gonadal germ cell tumors	9060-9065, 9070-9073, 9080-9085, 9090, 9091, 9100, 9101	C56.9, C62.0-C62.9
d. Gonadal carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8143, 8190-8201, 8210, 8211, 8221-8241, 8244-8246, 8260-8263, 8290, 8310, 8313, 8320, 8323, 8380-8384, 8430, 8440, 8480-8490, 8504, 8510, 8550, 8560-8573, 9000, 9014, 9015	C56.9, C62.0-C62.9
	8441-8444, 8450, 8451, 8460-8473	
e. Other and unspecified malignant gonadal tumors	8590-8671 8000-8005	C56.9, C62.0-C62.9

^a International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005: Vol 103, No. 7, pg 1457-1467.

^b Tumors with nonmalignant behavior are included for all morphology codes on the line. CNS: central nervous system.

Table A.6 - continued

International Classification of Childhood Cancer (ICCC)^a Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
XI. Other malignant epithelial neoplasms and malignant melanomas		
a. Adrenocortical carcinomas	8370-8375	
b. Thyroid carcinomas	8010-8041, 8050-8075, 8082, 8120-8122, 8130-8141, 8190, 8200, 8201, 8211, 8230, 8231, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8430, 8440, 8480, 8481, 8510, 8560-8573	C73.9
c. Nasopharyngeal carcinomas	8330-8337, 8340-8347, 8350	
d. Malignant melanomas	8010-8041, 8050-8075, 8082, 8083, 8120-8122, 8130-8141, 8190, 8200, 8201, 8211, 8230, 8231, 8244-8246, 8260-8263, 8290, 8310, 8320, 8323, 8430, 8440, 8480, 8481, 8500-8576	C11.0-C11.9
e. Skin carcinomas	8720-8780, 8790	
f. Other and unspecified carcinomas	8010-8041, 8050-8075, 8078, 8082, 8090-8110, 8140, 8143, 8147, 8190, 8200, 8240, 8246, 8247, 8260, 8310, 8320, 8323, 8390-8420, 8430, 8480, 8542, 8560, 8570-8573, 8940, 8941	C44.0-C44.9
	8010-8084, 8120-8157, 8190-8264, 8290, 8310, 8313-8315, 8320-8325, 8360, 8380-8384, 8430-8440, 8452-8454, 8480-8586, 8588-8589, 8940, 8941, 8983, 9000, 9010-9016, 9020, 9030	C00.0-C10.9, C12.9-C21.8, C23.9-C39.9, C48.0-C48.8, C50.0-C55.9, C57.0-C61.9, C63.0-C63.9, C65.9-C72.9, C75.0-C76.8, C80.9
XII. Other and unspecified malignant neoplasms		
a. Other specified malignant tumors	8930-8936, 8950, 8951, 8971-8981, 9050-9055, 9110	
	9363	C00.0-C39.9, C47.0-C75.9
b. Other unspecified malignant tumors	8000-8005	C00.0-C21.8, C23.9-C39.9, C42.0-C55.9, C57.0-C61.9, C63.0-C63.9, C65.9-C69.9, C73.9-C75.0, C75.4-C80.9

^a International Classification of Childhood Cancer is based on ICD-0-3. Steliarova-Foucher E, Stiller C, Lacour B, Kaatsch P. International Classification of Childhood Cancer, Third Edition. Cancer. April 1, 2005; Vol 103, No. 7, pg 1457-1467.

^b Tumors with nonmalignant behavior are included for all morphology codes on the line. CNS: central nervous system.

Table A.7

Adapted Classification Scheme for Tumors of Adolescents and Young Adults^a Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
1. Leukemias		
1.1 Acute lymphoid leukemia	9826-9827, 9835-9837	
1.2 Acute myeloid leukemia	9840, 9861, 9866-9867, 9871-9874, 9891, 9895-9897, 9910, 9920	
1.3 Chronic myeloid leukemia	9863, 9875-9876	
1.4 Other and unspecified leukemia	9742, 9800-9801, 9805, 9820, 9823, 9831-9834, 9860, 9870, 9930-9931, 9940, 9945-9946, 9948, 9963-9964	
2. Lymphomas		
2.1 Non-Hodgkin lymphoma	9590-9591, 9596, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9689-9691, 9695, 9698-9702, 9705, 9708-9709, 9714, 9716-9719, 9727-9729	
2.2 Hodgkin lymphoma	9650-9655, 9659, 9661-9665, 9667	
3. CNS and Other Intracranial and Intraspinal Neoplasms		
3.1 Astrocytoma		
3.1.1 Specified low-grade astrocytic tumors	9410-9411, 9420-9421, 9424 9380	C72.3
3.1.2 Glioblastoma and anaplastic astrocytoma	9401, 9440-9442	
3.1.3 Astrocytoma, NOS	9400	
3.2 Other glioma	9380	C00.0-C72.2, C72.4-C80.9
3.3 Ependymoma		
3.4 Medulloblastoma and other PNET	9391-9394	
3.4.1 Medulloblastoma		
3.4.2 Supratentorial PNET	9470-9474	C71.6
3.5 Other specified intracranial intraspinal neoplasms		
	9350-9351, 9360-9362, 9390, 9480, 9530-9535, 9537-9539, 9541, 9550, 9562, 9570 9161, 9361-9362, 9390, 9530-9531, 9535, 9538, 9540, 9560, 9571 9532, 9534, 9537, 9539 9360 9480, 9539 9480, 9533 9350 9480 9539	C00.0-C69.9, C73.0-C75.0, C75.4-C80.9 C70.0-C72.9, C75.1-C75.3 C70.0 C75.3 C71.1 C71.3 C71.9 C71.4, C71.7 C70.9
3.6 Unspecified intracranial and intraspinal neoplasms	8000-8005	C70.0-C72.9, C75.1-C75.3
4. Osseous & Chondromatous Neoplasms		
4.1 Osteosarcoma	9180-9187, 9192-9194	
4.2 Chondrosarcoma	9220-9221, 9230-9231, 9240, 9242-9243	
4.3 Ewing tumor	9260, 9364-9365	
4.4 Other specified and unspecified bone tumors	8812, 9250, 9261, 9370-9372 8000-8005, 8800-8803, 8805-8806, 9200	C40.0-C41.9
5. Soft Tissue Sarcomas		
5.1 Fibromatous neoplasms	8810-8811, 8813-8815, 8820-8824, 8830, 8832-8833, 8835-8836, 9252	
5.2 Rhabdomyosarcoma		
5.3 Other specified soft tissue sarcoma		
5.3.1 Specified soft tissue sarcoma		
5.3.1.1 Specified (excluding Kaposi sarcoma)	8804, 8825, 8840-8897, 8982-8983, 8990, 9040-9044, 9120-9150, 9170, 9251, 9561, 9580-9581, 9970 9540, 9560, 9571	C00.0-C69.9, C73.0-C75.0, C75.4-C80.9
5.3.1.2 Kaposi sarcoma	9140	
5.3.2 Unspecified soft tissue sarcoma	8800-8803, 8805-8806	C00.0-C39.9, C42.0-C80.9

^a Adapted from: RD Barr, EJ Holowaty, JM Birch. Classification Scheme for tumors diagnosed in adolescents and young adults. Cancer. 106:7; 1425-1430. (Restricted to malignant tumors and updated based on ICD-0-3 definitions).
CNS: central nervous system.

Table A.7 - continued

Adapted Classification Scheme for Tumors of Adolescents and Young Adults^a Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
6. Germ Cell and Trophoblastic Neoplasms		
6.1 Germ cell and trophoblastic neoplasms of gonads	9060-9065, 9070-9073, 9080-9085, 9090-9091, 9100-9102, 9105	C56.9, C62.0-C62.9
6.2 Germ cell and trophoblastic neoplasms of nongonadal sites		
6.2.1 Intracranial sites	9060-9065, 9070-9073, 9080-9085, 9090-9091, 9100-9102, 9105	C70.0-C72.9, C75.1, C75.3
6.2.2 Other nongonadal sites	9060-9065, 9070-9073, 9080-9085, 9090-9091, 9100-9102, 9104-9105	C00.0-C56.8, C57.0-C61.9, C63.0-C69.9, C73.0-C75.0, C75.2, C75.4-C80.9
7. Melanoma and Skin Carcinomas		
7.1 Melanoma	8720-8723, 8726, 8728, 8730, 8740-8746, 8761, 8770-8774, 8780	
7.2 Skin carcinomas	8010-8589	C44.0-C44.9
8. Carcinomas		
8.1 Thyroid carcinoma	8010-8589	C73.9
8.2 Other carcinoma of head and neck		
8.2.1 Nasopharyngeal carcinoma	8010-8589	C11.0-C11.9
8.2.2 Other sites in lip, oral cavity and pharynx	8010-8589	C00.0-C10.9, C12.0-C14.8
8.2.3 Nasal cavity, middle ear, sinuses, larynx, other ill-defined head/neck	8010-8589	C30.0-C32.9, C76.0
8.3 Carcinoma of trachea, bronchus and lung	8010-8589	C33.0-C34.9
8.4 Carcinoma of breast	8010-8589	C50.0-C50.9
8.5 Carcinoma of genitourinary tract		
8.5.1 Carcinoma of kidney	8010-8589	C64.9
8.5.2 Carcinoma of bladder	8010-8589	C67.0-C67.9
8.5.3 Carcinoma of gonads	8590-8593 8010-8589	C56.9, C62.0-C62.9
8.5.4 Carcinoma of cervix and uterus	8010-8589	C53.0-C55.9
8.5.5 Carcinoma of other and ill-defined sites, genitourinary tract	8010-8589 8473	C51.0-C52.9, C57.0-C57.9, C60.0-C61.9, C63.0-C63.9, C65.9, C66.9, C68.0-C68.9 C57.7
8.6 Carcinoma of gastrointestinal tract		
8.6.1 Carcinoma of colon and rectum	8010-8589	C18.0-C21.8
8.6.2 Carcinoma of stomach	8010-8589	C16.0-C16.9
8.6.3 Carcinoma of liver and intrahepatic bile ducts	8010-8589	C22.0-C22.1
8.6.4 Carcinoma of pancreas	8010-8589 8473	C25.0-C25.9 C25.0-C25.1, C25.8-C25.9
8.6.5 Carcinoma of other and ill-defined sites, gastrointestinal tract	8010-8589	C15.0-C15.9, C17.0-C17.9, C23.0-C24.9, C26.0-C26.9
8.7 Carcinoma of other and ill-defined sites, NOS		
8.7.1 Adrenocortical carcinoma	8010-8589	C74.0-C74.9
8.7.2 Carcinoma of other and ill-defined sites, NOS	8010-8589 8442, 9010,	C14.9, C21.9, C22.2-C22.9, C27.0-C29.9, C35.0-C43.9, C45.0-C49.9, C56.0-C56.8, C58.0-C59.9, C64.0-C64.8, C65.0-C65.8, C66.0-C66.8, C69.0-C73.8, C75.0-C75.9, C76.1-C80.9 C80.9

^a Adapted from: RD Barr, EJ Holowaty, JM Birch. Classification Scheme for tumors diagnosed in adolescents and young adults. Cancer. 106:7; 1425-1430. (Restricted to malignant tumors and updated based on ICD-0-3 definitions).

Table A.7 - continued

Adapted Classification Scheme for Tumors of Adolescents and Young Adults^a Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
9. Miscellaneous specified neoplasms, NOS		
9.1 Other pediatric and embryonal tumors, NOS		
9.1.1 Wilms tumor	8959-8960	
9.1.2 Neuroblastoma	9490,9500	
9.1.3 Other pediatric and embryonal tumors, NOS	8963-8964, 8970-8973, 8981, 9363, 9501-9523	
9.2 Other specified and embryonal tumors, NOS		
9.2.1 Paraganglioma and glomus tumors	8680-8711	
9.2.2 Other specified gonadal tumors	8670, 9013-9015, 9054	C56.9
	8600-8650,9000	
9.2.3 Myeloma, mast cell, miscellaneous lymphoreticular neoplasms, NOS	9731-9741, 9743-9764, 9766, 9769, 9960	
9.2.4 Other specified neoplasms, NOS ^b	8930-8951, 8980, 9020, 9050-9053, 9110, 9160, 9270-9330, 9950, 9962, 9980, 9982	
	9961, 9975, 9989	C42.1
	9161	C00.0-C69.6, C73.0-C75.0, C75.4-C80.9
10. Unspecified Malignant Neoplasms	8000-8005	C00.0-C39.9, C42.0-C69.9, C73.0-C75.0, C75.2, C75.4-C80.9

^a Adapted from: RD Barr, EJ Holowaty, JM Birch. Classification Scheme for tumors diagnosed in adolescents and young adults. Cancer. 106:7; 1425-1430. (Restricted to malignant tumors and updated based on ICD-O-3 definitions).

^b Myeloproliferative disorders and myelodysplastic syndromes were first reported effective January 1, 2001 with the implementation of ICD-O 3.

Table A.8

SEER Cause of Death Recode 1969+ (9/17/2004) Definition

Cancer Causes of Death	ICD-9 (1979-1998) #	ICD-10 (1999+) #
All Malignant Cancers	140-208, 238.6	C00-C97
Oral Cavity and Pharynx		
Lip	140	C00
Tongue	141	C01-C02
Salivary Gland	142	C07-C08
Floor of Mouth	144	C04
Gum and Other Mouth	143, 145	C03, C05-C06
Nasopharynx	147	C11
Tonsil	146.0-146.2	C09
Oropharynx	146.3-146.9	C10
Hypopharynx	148	C12-C13
Other Oral Cavity and Pharynx	149	C14
Digestive System		
Esophagus	150	C15
Stomach	151	C16
Small Intestine	152	C17
Colon and Rectum		
Colon excluding Rectum	153, 159.0	C18, C26.0
Rectum and Rectosigmoid Junction	154.0-154.1	C19-C20
Anus, Anal Canal and Anorectum	154.2-154.3, 154.8	C21
Liver and Intrahepatic Bile Duct		
Liver	155.0, 155.2	C22.0, C22.2-C22.4, C22.7, C22.9
Intrahepatic Bile Duct	155.1	C22.1
Gallbladder	156.0	C23
Other Biliary	156.1-156.2, 156.8-156.9	C24
Pancreas	157	C25
Retroperitoneum	158.0	C48.0
Peritoneum, Omentum and Mesentery	158.8-158.9	C45.1 ⁺ , C48.1-C48.2
Other Digestive Organs	159.8-159.9	C26.8-C26.9, C48.8
Respiratory System		
Nose, Nasal Cavity and Middle Ear	160	C30-C31
Larynx	161	C32
Lung and Bronchus	162.2-162.5, 162.8-162.9	C34
Pleura	163	C38.4, C45.0 ⁺
Trachea, Mediastinum and Other Respiratory Organs	162.0, 164.2-164.3, 164.8-164.9, 165	C33, C38.1-C38.3, C38.8, C39
Bones and Joints	170	C40-C41
Soft Tissue including Heart §	164.1, 171	C47, C49, C38.0, C45.2 ⁺
Skin excluding Basal and Squamous		
Melanoma of the Skin	172	C43
Other Non-Epithelial Skin	173	C44, C46 ⁺
Breast	174-175	C50
Female Genital System		
Cervix Uteri	180	C53
Corpus and Uterus, NOS		
Corpus Uteri	182	C54
Uterus, NOS	179	C55
Ovary	183.0	C56
Vagina	184.0	C52
Vulva	184.1-184.4	C51
Other Female Genital Organs	181, 183.2-183.5, 183.8-183.9, 184.8-184.9	C57-C58
Male Genital System		
Prostate	185	C61
Testis	186	C62
Penis	187.1-187.4	C60
Other Male Genital Organs	187.5-187.9	C63
Urinary System		
Urinary Bladder	188	C67
Kidney and Renal Pelvis	189.0-189.1	C64-C65
Ureter	189.2	C66
Other Urinary Organs	189.3-189.4, 189.8-189.9	C68
Eye and Orbit	190	C69
Brain and Other Nervous System	191, 192	C70, C71, C72
Endocrine System		
Thyroid	193	C73
Other Endocrine including Thymus [§]	164.0, 194	C37, C74-C75
Lymphoma		
Hodgkin Lymphoma	201	C81
Non-Hodgkin Lymphoma	200, 202.0-202.2, 202.8-202.9	C82-C85, C96.3

Table A.8 - continued

SEER Cause of Death Recode 1969+ (9/17/2004) Definition

Cancer Causes of Death	ICD-9 (1979-1998) #	ICD-10 (1999+) #
Myeloma	203.0, 238.6	C90.0, C90.2
Leukemia		
Lymphocytic Leukemia		
Acute Lymphocytic Leukemia	204.0	C91.0
Chronic Lymphocytic Leukemia	204.1	C91.1
Other Lymphocytic Leukemia	202.4, 204.2, 204.8-204.9	C91.2-C91.4, C91.7, C91.9
Myeloid and Monocytic Leukemia		
Acute Myeloid Leukemia	205.0, 207.0, 207.2	C92.0, C92.4-C92.5, C94.0, C94.2
Acute Monocytic Leukemia	206.0	C93.0
Chronic Myeloid Leukemia	205.1	C92.1
Other Myeloid/Monocytic Leukemia	205.2-205.3, 205.8-205.9, 206.1-206.2, 206.8-206.9	C92.2-C92.3, C92.7, C92.9, C93.1-C93.2, C93.7, C93.9
Other Leukemia		
Other Acute Leukemia	208.0	C94.4, C94.5, C95.0
Aleukemic, Subleukemic and NOS	203.1, 207.1, 207.8, 208.1-208.2, 208.8-208.9	C90.1, C91.5, C94.1, C94.3, C94.7, C95.1, C95.2, C95.7, C95.9
Mesothelioma (ICD-10 only) *	N/A	C45*
Kaposi Sarcoma (ICD-10 only) *	N/A	C46*
Miscellaneous	159.1, 195-199, 202.3, 202.5-202.6, 203.8	C26.1, C45.7*, C45.9*, C76-C80, C88, C96.0-C96.2, C96.7, C96.9, C97

Non-Cancer Causes of Death	ICD-8 (1968-1978) #	ICD-9 (1979-1998) #	ICD-10 (1999+) #
In situ, benign or unknown behavior neoplasm	208-239	210-237, 238.0-238.5, 238.7-238.9, 239	D00-D48
Tuberculosis	010-018	010-018	A15-A19
Syphilis	090-097	090-097	A50-A53
Human Immunodeficiency Virus (1987+)	N/A	042-044	B20-B24
Septicemia	038	038	A40-A41
Other Infectious and Parasitic Diseases	001-009, 020-037, 039-043, 045-065, 067-076, 078-089, 098-130.1, 130.3-136	001-009, 020-037, 039- 041, 045-088, 098-139	A00-A09, A20-A33, A35- A39, A42-A49, A54-B19 B25-B99
Diabetes Mellitus	250	250	E10-E14
Alzheimers (ICD-9 and 10 only)	N/A	331.0	G30
Diseases of Heart	390-398, 402, 404, 410-429	390-398, 402, 404, 410-429	I00-I09, I11, I13, I20-I51
Hypertension without Heart Disease	400-401, 403	401, 403	I10, I12
Cerebrovascular Diseases	430-438	430-438	I60-I69
Atherosclerosis	440	440	I70
Aortic Aneurysm and Dissection	441	441	I71
Other Diseases of Arteries, Arterioles, Capillaries	442-448	442-448	I72-I78
Pneumonia and Influenza	470-474, 480-486	480-487	J10-J18
Chronic Obstructive Pulmonary Disease and Allied Cond	490-493, 519.3	490-496	J40-J47
Stomach and Duodenal Ulcers	531-533	531-533	K25-K28
Chronic Liver Disease and Cirrhosis	571	571	K70, K73-K74
Nephritis, Nephrotic Syndrome and Nephrosis	580-584, 593.0-593.3, 593.5	580-589	N00-N07, N17-N19, N25-N27
Complications of Pregnancy, Childbirth, Puerperium	630-678	630-676	A34, O00-O95, O98-O99
Congenital Anomalies	740-759	740-759	Q00-Q99
Certain Conditions Originating in Perinatal Period	760-779	760-779	P00-P96
Symptoms, Signs and Ill-Defined Conditions	780-796	780-799	R00-R99
Accidents and Adverse Effects	800-949*	800-949*	V01-X59, Y85-Y86
Suicide and Self-Inflicted Injury	950-959*	950-959*	U03, X60-X84, Y87.0
Homicide and Legal Intervention	960-978*	960-978*	U01-U02, X85-Y09, Y35, Y87.1, Y89.0

All ICD codes are tested for validity prior to generating this variable. Those deemed invalid are classified as Unknown/missing/invalid COD. Those deemed valid but not meeting the definition of any above grouping are classified as Other Cause of Death.

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

\$ ICD-8 code 192.5 is coded to Other Endocrine including Thymus for age at death less than 20 years and Soft Tissue including Heart for age at death 20+ years.

* External causes of injury and poisoning.

Table A.9

Annual Populations Averaged Over 2005-2009

By State, Race/Ethnicity and Sex

State	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Total U.S.	301,461,531	148,551,457	152,910,073	243,261,485	120,555,307	122,706,179	39,982,086	19,102,503	20,879,583
Alabama	4,632,619	2,243,145	2,389,474	3,324,380	1,632,165	1,692,215	1,231,380	573,573	657,807
Alaska	683,142	355,411	327,730	496,703	261,684	235,020	32,856	17,439	15,417
Arizona	6,324,866	3,168,727	3,156,139	5,529,157	2,774,795	2,754,363	284,477	146,430	138,047
Arkansas	2,838,145	1,389,829	1,448,316	2,320,972	1,144,315	1,176,658	455,285	215,635	239,650
California	36,308,524	18,158,832	18,149,692	28,307,065	14,265,462	14,041,603	2,604,617	1,282,308	1,322,310
Colorado	4,843,209	2,437,891	2,405,317	4,397,272	2,214,129	2,183,143	230,011	119,418	110,593
Connecticut	3,494,486	1,703,815	1,790,671	2,976,913	1,452,824	1,524,090	375,658	180,413	195,245
Delaware	863,831	419,316	444,515	649,023	317,350	331,673	184,879	87,147	97,732
Dist. of Columbia	588,433	277,457	310,976	230,977	116,173	114,804	335,151	151,225	183,926
Florida	18,222,422	8,957,296	9,265,125	14,693,438	7,253,635	7,439,803	2,958,155	1,429,672	1,528,484
Georgia	9,497,665	4,667,998	4,829,667	6,289,050	3,147,562	3,141,488	2,880,132	1,356,249	1,523,883
Hawaii	1,280,241	646,525	633,716	316,124	170,237	145,887	45,135	25,831	19,304
Idaho	1,492,565	749,729	742,836	1,429,269	718,229	711,040	16,576	8,881	7,696
Illinois	12,785,049	6,291,874	6,493,174	10,199,043	5,061,756	5,137,287	1,963,081	923,361	1,039,721
Indiana	6,342,471	3,122,936	3,219,535	5,626,697	2,776,134	2,850,563	597,090	287,360	309,730
Iowa	2,978,881	1,469,355	1,509,525	2,826,168	1,392,133	1,434,034	88,822	45,885	42,937
Kansas	2,777,836	1,377,458	1,400,378	2,494,473	1,235,003	1,259,470	182,779	92,295	90,484
Kentucky	4,251,998	2,085,115	2,166,883	3,850,021	1,887,122	1,962,899	342,395	168,493	173,901
Louisiana	4,383,629	2,130,877	2,252,752	2,872,500	1,413,982	1,458,517	1,413,287	668,296	744,991
Maine	1,316,379	642,658	673,721	1,277,719	623,177	654,542	16,344	9,167	7,177
Maryland	5,637,418	2,730,494	2,906,924	3,621,023	1,781,863	1,839,160	1,692,799	792,438	900,361
Massachusetts	6,511,177	3,159,571	3,351,606	5,673,720	2,750,441	2,923,280	481,649	235,467	246,182
Michigan	10,039,210	4,938,265	5,100,945	8,234,154	4,074,480	4,159,675	1,476,239	699,540	776,699
Minnesota	5,188,579	2,580,024	2,608,555	4,659,412	2,310,737	2,348,675	257,819	134,459	123,360
Mississippi	2,916,885	1,413,429	1,503,455	1,786,102	880,066	906,036	1,088,256	512,771	575,485

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

Table A.9 - continued

Annual Populations Averaged Over 2005-2009

By State, Race/Ethnicity and Sex

State	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Missouri	5,904,390	2,882,748	3,021,642	5,070,447	2,488,019	2,582,428	700,280	329,630	370,650
Montana	956,256	478,454	477,802	875,175	438,122	437,053	8,127	4,499	3,628
Nebraska	1,772,127	878,317	893,810	1,632,845	808,926	823,919	86,631	43,555	43,076
Nevada	2,545,764	1,296,234	1,249,530	2,095,645	1,078,249	1,017,395	220,557	110,221	110,336
New Hampshire	1,315,420	648,424	666,996	1,265,463	622,721	642,742	19,102	10,275	8,827
New Jersey	8,650,548	4,232,288	4,418,259	6,654,517	3,266,406	3,388,112	1,288,254	614,094	674,160
New Mexico	1,964,862	971,472	993,391	1,667,170	825,438	841,732	63,752	33,219	30,533
New York	19,423,895	9,424,390	9,999,505	14,451,621	7,067,591	7,384,030	3,453,410	1,609,223	1,844,187
North Carolina	9,045,704	4,424,623	4,621,081	6,744,726	3,336,727	3,407,999	1,990,764	935,391	1,055,373
North Dakota	639,721	321,172	318,549	589,265	295,644	293,621	8,178	4,712	3,465
Ohio	11,511,858	5,613,129	5,898,728	9,846,778	4,816,852	5,029,926	1,437,841	684,543	753,298
Oklahoma	3,610,073	1,781,836	1,828,237	2,908,226	1,435,230	1,472,996	305,922	151,820	154,102
Oregon	3,727,404	1,847,918	1,879,486	3,414,510	1,692,958	1,721,553	88,167	46,430	41,737
Pennsylvania	12,516,594	6,086,556	6,430,038	10,774,681	5,250,884	5,523,797	1,395,315	665,144	730,171
Rhode Island	1,057,381	512,435	544,946	945,124	456,739	488,385	72,971	36,658	36,314
South Carolina	4,416,870	2,150,569	2,266,301	3,057,404	1,510,271	1,547,133	1,278,237	600,700	677,537
South Dakota	796,511	397,268	399,242	707,707	352,681	355,026	10,674	6,147	4,527
Tennessee	6,158,955	3,002,298	3,156,656	4,991,994	2,450,845	2,541,149	1,054,373	496,102	558,271
Texas	23,818,417	11,879,188	11,939,229	19,830,215	9,937,248	9,892,966	2,906,428	1,404,004	1,502,424
Utah	2,651,814	1,333,358	1,318,457	2,491,967	1,253,250	1,238,718	39,462	21,349	18,112
Vermont	620,414	305,208	315,206	603,474	296,814	306,660	6,531	3,532	2,999
Virginia	7,721,729	3,792,676	3,929,054	5,712,368	2,828,404	2,883,965	1,576,995	755,218	821,777
Washington	6,465,754	3,223,464	3,242,291	5,553,613	2,773,201	2,780,412	282,634	149,668	132,966
West Virginia	1,811,401	886,792	924,609	1,725,901	843,365	882,536	68,185	34,863	33,322
Wisconsin	5,599,416	2,780,002	2,819,414	5,054,973	2,512,486	2,542,487	360,123	175,791	184,332
Wyoming	523,950	265,955	257,994	496,957	252,222	244,734	7,851	4,300	3,551

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

Table A.9 - continued

Annual Populations Averaged Over 2005-2009

By State, Race/Ethnicity and Sex

State	Asian/Pacific Islander			American Indian/Alaska Native			Hispanic ^a		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Total U.S.	14,844,213	7,207,143	7,637,070	3,373,746	1,686,504	1,687,242	45,483,283	23,518,158	21,965,125
CHSDA counties ^b	-	-	-	1,879,556	929,375	950,181	-	-	-
Non-CHSDA counties ^b	-	-	-	1,494,041	757,053	736,988	-	-	-
Alabama	50,631	24,268	26,363	26,227	13,139	13,088	132,839	72,948	59,891
Alaska	39,954	19,145	20,809	113,629	57,144	56,485	41,320	21,834	19,486
Arizona	184,044	87,646	96,398	327,188	159,856	167,331	1,881,877	978,594	903,284
Arkansas	36,326	17,220	19,105	25,562	12,659	12,903	154,187	83,521	70,666
California	4,888,915	2,355,148	2,533,766	507,927	255,914	252,013	13,102,163	6,734,384	6,367,779
Colorado	148,165	70,013	78,153	67,760	34,332	33,428	955,816	499,623	456,192
Connecticut	126,773	62,860	63,913	15,142	7,718	7,423	406,475	205,662	200,813
Delaware	26,190	12,979	13,211	3,740	1,841	1,899	57,807	30,764	27,043
Dist. of Columbia	19,716	8,819	10,897	2,589	1,240	1,349	49,813	25,969	23,844
Florida	474,139	223,255	250,884	96,689	50,734	45,955	3,746,499	1,906,378	1,840,121
Georgia	291,289	144,269	147,020	37,194	19,917	17,277	736,225	415,547	320,678
Hawaii	911,187	446,371	464,815	7,796	4,086	3,710	98,714	51,741	46,972
Idaho	21,503	10,009	11,494	25,217	12,611	12,606	150,014	79,807	70,206
Illinois	572,184	280,886	291,298	50,741	25,872	24,869	1,872,178	986,343	885,835
Indiana	96,267	47,883	48,384	22,417	11,558	10,859	321,449	173,528	147,921
Iowa	50,562	24,695	25,867	13,328	6,642	6,686	122,275	65,815	56,460
Kansas	67,361	33,329	34,032	33,222	16,831	16,392	245,061	130,318	114,743
Kentucky	48,301	23,716	24,585	11,282	5,784	5,498	102,340	57,338	45,002
Louisiana	68,078	33,629	34,449	29,765	14,971	14,794	145,566	76,497	69,069
Maine	13,453	6,013	7,439	8,864	4,301	4,563	16,641	8,330	8,311
Maryland	300,364	144,672	155,693	23,232	11,522	11,710	371,310	196,204	175,106
Massachusetts	332,527	162,011	170,516	23,281	11,652	11,629	543,290	273,449	269,842
Michigan	253,457	126,771	126,685	75,361	37,474	37,887	405,910	213,158	192,751
Minnesota	200,524	99,575	100,949	70,823	35,253	35,570	209,240	112,620	96,620
Mississippi	27,232	12,976	14,256	15,294	7,616	7,678	65,971	37,585	28,387

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

^a Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

^b American Indian/Alaska Native statistics are reported based on the CHSDA (Contract Health Service Delivery Area) counties. All other race/ethnicities are not shown for these areas.

Table A.9 - continued

Annual Populations Averaged Over 2005-2009

By State, Race/Ethnicity and Sex

State	Asian/Pacific Islander			American Indian/Alaska Native			Hispanic ^a		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Missouri	97,805	46,948	50,857	35,859	18,151	17,708	185,199	97,541	87,658
Montana	7,741	3,362	4,379	65,212	32,470	32,742	27,938	14,318	13,620
Nebraska	32,293	15,724	16,569	20,359	10,113	10,246	137,516	74,100	63,416
Nevada	187,158	86,595	100,562	42,404	21,169	21,236	641,590	340,666	300,924
New Hampshire	26,447	13,145	13,302	4,409	2,283	2,126	33,779	17,463	16,316
New Jersey	673,013	333,878	339,135	34,763	17,911	16,853	1,375,786	702,799	672,987
New Mexico	33,812	15,624	18,188	200,128	97,190	102,938	879,483	439,821	439,663
New York	1,392,533	685,062	707,471	126,331	62,514	63,818	3,172,412	1,576,249	1,596,164
North Carolina	191,996	93,971	98,025	118,218	58,533	59,684	632,675	354,887	277,788
North Dakota	5,790	2,885	2,905	36,488	17,931	18,557	13,090	6,925	6,165
Ohio	191,752	93,997	97,755	35,486	17,737	17,749	301,674	157,240	144,434
Oklahoma	67,705	33,267	34,439	328,219	161,519	166,700	272,048	145,054	126,994
Oregon	158,185	74,629	83,555	66,542	33,901	32,641	393,462	212,127	181,335
Pennsylvania	316,222	155,571	160,651	30,376	14,957	15,418	585,024	301,935	283,089
Rhode Island	31,778	15,364	16,414	7,507	3,674	3,833	120,586	60,828	59,758
South Carolina	61,736	29,657	32,078	19,494	9,941	9,553	178,434	100,770	77,665
South Dakota	7,506	3,645	3,861	70,624	34,795	35,829	21,010	11,203	9,807
Tennessee	91,054	44,175	46,879	21,533	11,176	10,357	229,041	128,208	100,833
Texas	887,047	438,777	448,270	194,728	99,160	95,568	8,554,619	4,386,663	4,167,955
Utah	80,121	38,689	41,432	40,264	20,069	20,195	306,712	162,731	143,981
Vermont	7,513	3,418	4,095	2,896	1,444	1,452	8,437	4,203	4,234
Virginia	401,782	193,430	208,352	30,583	15,624	14,960	516,568	274,361	242,208
Washington	501,004	236,375	264,629	128,503	64,219	64,283	624,039	331,248	292,791
West Virginia	13,135	6,442	6,692	4,181	2,122	2,059	20,296	10,274	10,022
Wisconsin	124,314	61,778	62,536	60,005	29,947	30,059	276,175	147,344	128,831
Wyoming	4,929	2,221	2,708	14,213	7,212	7,001	39,781	20,776	19,005

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

^a Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

Table A.10

Annual Populations Averaged Over 2005-2009

By SEER Registry, Race/Ethnicity and Sex

Area	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
California	36,308,524	18,158,832	18,149,692	28,307,065	14,265,462	14,041,603	2,604,617	1,282,308	1,322,310
Greater Bay Area	6,658,982	3,343,339	3,315,643	4,503,189	2,293,080	2,210,109	484,525	236,630	247,896
San Francisco-Oakland, SMSA	4,218,533	2,096,603	2,121,930	2,765,665	1,400,973	1,364,692	408,144	194,857	213,287
San Jose-Monterey	2,440,449	1,246,737	1,193,712	1,737,524	892,107	845,417	76,382	41,773	34,609
Los Angeles	9,785,295	4,850,085	4,935,210	7,334,076	3,687,565	3,646,511	967,931	452,993	514,937
Greater California	19,864,247	9,965,407	9,898,839	16,469,800	8,284,817	8,184,983	1,152,161	592,685	559,477
Connecticut	3,494,486	1,703,815	1,790,671	2,976,913	1,452,824	1,524,090	375,658	180,413	195,245
Metropolitan Detroit	4,009,754	1,949,698	2,060,056	2,811,946	1,390,013	1,421,933	1,030,207	475,477	554,730
Georgia	9,497,665	4,667,998	4,829,667	6,289,050	3,147,562	3,141,488	2,880,132	1,356,249	1,523,883
Metropolitan Atlanta	3,449,203	1,700,575	1,748,627	1,909,793	972,538	937,255	1,323,765	619,150	704,615
Rural Georgia	124,483	59,996	64,487	72,264	35,731	36,533	51,434	23,866	27,568
Greater Georgia	5,923,980	2,907,427	3,016,553	4,306,993	2,139,293	2,167,700	1,504,932	713,232	791,700
Hawaii	1,280,241	646,525	633,716	316,124	170,237	145,887	45,135	25,831	19,304
Iowa	2,978,881	1,469,355	1,509,525	2,826,168	1,392,133	1,434,034	88,822	45,885	42,937
Kentucky	4,251,998	2,085,115	2,166,883	3,850,021	1,887,122	1,962,899	342,395	168,493	173,901
Louisiana	4,383,629	2,130,877	2,252,752	2,872,500	1,413,982	1,458,517	1,413,287	668,296	744,991
New Jersey	8,650,548	4,232,288	4,418,259	6,654,517	3,266,406	3,388,112	1,288,254	614,094	674,160
New Mexico	1,964,862	971,472	993,391	1,667,170	825,438	841,732	63,752	33,219	30,533
Seattle-Puget Sound	4,416,854	2,201,939	2,214,915	3,648,956	1,823,945	1,825,010	243,708	128,215	115,493
Utah	2,651,814	1,333,358	1,318,457	2,491,967	1,253,250	1,238,718	39,462	21,349	18,112
9 SEER areas ^a	28,464,628	14,073,340	14,391,288	21,414,702	10,681,351	10,733,352	3,618,654	1,724,398	1,894,256
11 SEER areas ^a	40,690,372	20,170,162	20,520,210	30,486,302	15,261,023	15,225,279	4,662,966	2,219,164	2,443,802
13 SEER areas ^a	41,497,996	20,585,569	20,912,428	31,055,269	15,558,438	15,496,832	4,747,256	2,260,469	2,486,787
18 SEER areas ^a	84,572,397	41,906,683	42,665,714	65,209,101	32,550,058	32,659,042	10,448,285	5,017,269	5,431,016

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

^a The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.

The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

The SEER 18 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana, New Jersey and Greater Georgia (Georgia excluding ATL/RG).

Table A.10 - continued

Annual Populations Averaged Over 2005-2009

By SEER Registry, Race/Ethnicity and Sex

Area	Asian/Pacific Islander			Hispanic ^a		
	Both Sexes	Males	Females	Both Sexes	Males	Females
California	4,888,915	2,355,148	2,533,766	13,102,163	6,734,384	6,367,779
Greater Bay Area	1,610,523	782,266	828,257	1,602,367	843,214	759,153
San Francisco-Oakland, SMSA	1,010,518	483,095	527,422	845,666	443,472	402,194
San Jose-Monterey	600,005	299,170	300,835	756,701	399,742	356,959
Los Angeles	1,372,134	652,958	719,176	4,627,543	2,343,120	2,284,424
Greater California	1,906,258	919,925	986,333	6,872,253	3,548,050	3,324,203
Connecticut	126,773	62,860	63,913	406,475	205,662	200,813
Metropolitan Detroit	149,478	75,381	74,098	151,132	79,249	71,883
Georgia	291,289	144,269	147,020	736,225	415,547	320,678
Metropolitan Atlanta	198,624	99,766	98,858	391,879	223,010	168,869
Rural Georgia	533	276	257	2,988	1,697	1,291
Greater Georgia	92,132	44,228	47,905	341,358	190,840	150,518
Hawaii	911,187	446,371	464,815	98,714	51,741	46,972
Iowa	50,562	24,695	25,867	122,275	65,815	56,460
Kentucky	48,301	23,716	24,585	102,340	57,338	45,002
Louisiana	68,078	33,629	34,449	145,566	76,497	69,069
New Jersey	673,013	333,878	339,135	1,375,786	702,799	672,987
New Mexico	33,812	15,624	18,188	879,483	439,821	439,663
Seattle-Puget Sound	445,587	210,537	235,050	319,105	170,501	148,603
Utah	80,121	38,689	41,432	306,712	162,731	143,981
9 SEER areas ^b	3,006,662	1,457,018	1,549,643	3,521,441	1,842,002	1,679,438
11 SEER areas ^b	4,978,801	2,409,147	2,569,654	8,905,685	4,584,864	4,320,820
13 SEER areas ^b	5,019,287	2,428,567	2,590,720	8,949,992	4,608,395	4,341,597
18 SEER areas ^b	7,807,069	3,783,942	4,023,127	17,787,295	9,183,919	8,603,376

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

^a Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.

^b The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.

The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

The SEER 18 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana, New Jersey and Greater Georgia (Georgia excluding ATL/RG).

Table A.10 - continued

Annual Populations Averaged Over 2005-2009

American Indian/Alaska Native By SEER Registry, CHSDA County Status and Sex

Area	American Indian/Alaska Native Total U.S.			American Indian/Alaska Native CHSDA			American Indian/Alaska Native Non-CHSDA		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
	Alaska	113,629	57,144	56,485	113,629	57,144	56,485	0	0
California	507,927	255,914	252,013	222,936	111,079	111,857	284,991	144,835	140,156
Greater Bay Area	60,745	31,364	29,381	0	0	0	60,745	31,364	29,381
San Francisco- Oakland, SMSA	34,207	17,678	16,529	0	0	0	34,207	17,678	16,529
San Jose-Monterey	26,539	13,687	12,852	0	0	0	26,539	13,687	12,852
Los Angeles	111,155	56,569	54,586	0	0	0	111,155	56,569	54,586
Greater California	336,027	167,981	168,046	222,936	111,079	111,857	113,091	56,902	56,189
Connecticut	15,142	7,718	7,423	15,142	7,718	7,423	0	0	0
Metropolitan Detroit	18,122	8,827	9,296	0	0	0	18,122	8,827	9,296
Georgia	37,194	19,917	17,277	0	0	0	37,194	19,917	17,277
Metropolitan Atlanta	17,020	9,121	7,899	0	0	0	17,020	9,121	7,899
Rural Georgia	253	123	130	0	0	0	253	123	130
Greater Georgia	19,922	10,673	9,249	0	0	0	19,922	10,673	9,249
Hawaii	7,796	4,086	3,710	0	0	0	7,796	4,086	3,710
Iowa	13,328	6,642	6,686	4,323	2,120	2,202	9,006	4,522	4,484
Kentucky	11,282	5,784	5,498	0	0	0	11,282	5,784	5,498
Louisiana	29,765	14,971	14,794	3,227	1,602	1,624	26,538	13,368	13,170
New Jersey	34,763	17,911	16,853	0	0	0	34,763	17,911	16,853
New Mexico	200,128	97,190	102,938	190,548	92,306	98,242	9,580	4,884	4,696
Seattle-Puget Sound	78,603	39,242	39,361	78,459	39,168	39,291	144	74	70
Utah	40,264	20,069	20,195	18,834	9,148	9,686	21,430	10,921	10,509
9 SEER areas ^a	424,610	210,573	214,037	307,305	150,461	156,845	117,304	60,112	57,192
11 SEER areas ^a	562,303	280,828	281,475	307,305	150,461	156,845	254,998	130,368	124,630
13 SEER areas ^a	676,185	338,095	338,089	420,934	207,605	213,329	255,250	130,491	124,760
18 SEER areas ^a	1,107,943	555,414	552,529	647,097	320,286	326,810	460,846	235,128	225,718

Source: NCI estimates based on Census Bureau population data. Male and female populations may not sum to both sexes due to rounding.

^a The SEER 9 areas are San Francisco, Connecticut, Detroit, Hawaii, Iowa, New Mexico, Seattle, Utah and Atlanta.

The SEER 11 areas comprise the SEER 9 areas plus San Jose-Monterey and Los Angeles.

The SEER 13 areas comprise the SEER 11 areas plus the Alaska Native Registry and Rural Georgia.

The SEER 18 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana, New Jersey and Greater Georgia (Georgia excluding ATL/RG).

Table A.11

Standard Populations, By Age

Age	2000 United States Standard Population (Census P25-1130)
All Ages	274,633,642
Age <1	3,794,901
Ages 1-4	15,191,619
Ages 5-9	19,919,840
Ages 10-14	20,056,779
Ages 15-19	19,819,518
Ages 20-24	18,257,225
Ages 25-29	17,722,067
Ages 30-34	19,511,370
Ages 35-39	22,179,956
Ages 40-44	22,479,229
Ages 45-49	19,805,793
Ages 50-54	17,224,359
Ages 55-59	13,307,234
Ages 60-64	10,654,272
Ages 65-69	9,409,940
Ages 70-74	8,725,574
Ages 75-79	7,414,559
Ages 80-84	4,900,234
Ages 85+	4,259,173

Age	IARC World Standard Million Population
All Ages	1,000,000
Age <1	24,000
Ages 1-4	96,000
Ages 5-9	100,000
Ages 10-14	90,000
Ages 15-19	90,000
Ages 20-24	80,000
Ages 25-29	80,000
Ages 30-34	60,000
Ages 35-39	60,000
Ages 40-44	60,000
Ages 45-49	60,000
Ages 50-54	50,000
Ages 55-59	40,000
Ages 60-64	40,000
Ages 65-69	30,000
Ages 70-74	20,000
Ages 75-79	10,000
Ages 80-84	5,000
Ages 85+	5,000

Source: U.S. Bureau of the Census, Census of Population 2000.

Muir C, Waterhouse J, Mack T, Powell J, Whelan S. Cancer Incidence In Five Continents, Volume V, pg. 792.

Table A.12
All Cancer Sites (Invasive)

SEER Follow-Up Rates^a for Cases Diagnosed 1975-2008
By Registry, Sex, and Age

	Males				Females			
	All Ages	0-19	20-64	65+	All Ages	0-19	20-64	65+
<u>Followed Into 2008</u>								
Registry								
Standard 9 registries	99.08	95.07	98.56	99.56	98.18	93.93	97.09	99.31
San Francisco-Oakland	98.70	95.07	98.08	99.29	97.88	93.96	96.71	99.07
Connecticut	98.39	85.37	97.40	99.32	96.53	81.09	94.32	98.68
Metropolitan Detroit	99.04	96.10	98.46	99.54	97.88	95.41	96.41	99.34
Hawaii	98.77	98.01	97.97	99.34	97.33	97.25	95.94	98.96
Iowa	99.84	98.82	99.67	99.95	99.60	98.74	99.29	99.84
New Mexico	99.03	94.04	98.64	99.42	98.08	93.13	97.38	98.95
Seattle-Puget Sound	99.49	95.80	99.27	99.75	99.07	94.19	98.60	99.66
Utah	99.40	98.82	98.86	99.82	98.72	98.64	97.81	99.76
Metropolitan Atlanta	99.25	96.51	99.00	99.62	98.93	97.06	98.43	99.68
<u>Followed Into 2009</u>								
Registry								
Standard 9 registries	98.68	93.27	97.93	99.37	97.21	91.73	95.68	98.80
San Francisco-Oakland	98.45	92.36	97.73	99.16	97.22	90.66	95.78	98.71
Connecticut	97.81	82.82	96.43	99.05	95.45	78.65	92.51	98.24
Metropolitan Detroit	98.72	94.86	97.94	99.40	97.22	93.49	95.37	99.07
Hawaii	98.37	97.35	97.42	99.04	96.60	96.29	94.94	98.57
Iowa	99.73	98.42	99.43	99.93	98.80	98.18	98.23	99.21
New Mexico	98.14	89.12	97.37	98.89	94.67	87.50	93.34	96.25
Seattle-Puget Sound	99.04	94.32	98.53	99.54	98.17	92.17	97.23	99.26
Utah	99.17	97.63	98.49	99.74	98.25	97.07	97.06	99.66
Metropolitan Atlanta	98.58	94.85	98.06	99.31	97.78	94.89	96.67	99.40

^a Represents the percentage of first primaries diagnosed 1975-2008 and followed into the specified year.