

Table A.1

Number of Incidence Cases, 2006-2010

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	47,286	32,823	14,463	39,036	27,272	11,764	4,347	2,990	1,357
Esophagus	18,984	14,702	4,282	15,804	12,447	3,357	2,124	1,480	644
Stomach	31,599	19,124	12,475	22,409	13,978	8,431	4,487	2,528	1,959
Colon & Rectum	190,166	97,800	92,366	150,959	78,148	72,811	22,330	10,905	11,425
Colon	135,206	66,533	68,673	107,785	53,377	54,408	16,476	7,792	8,684
Rectum	54,960	31,267	23,693	43,174	24,771	18,403	5,854	3,113	2,741
Liver & IBD ^a	33,637	24,234	9,403	23,597	17,078	6,519	4,155	3,076	1,079
Pancreas	51,395	25,697	25,698	41,407	20,931	20,476	6,140	2,949	3,191
Larynx	14,693	11,764	2,929	11,886	9,489	2,397	2,189	1,747	442
Lung & Bronchus	255,990	135,823	120,167	213,157	111,501	101,656	27,624	15,664	11,960
Melanoma of the skin	89,930	52,234	37,696	84,487	49,368	35,119	410	186	224
Breast	287,687	2,296	285,391	233,249	1,838	231,411	30,343	305	30,038
Cervix uteri	17,288	-	17,288	13,011	-	13,011	2,434	-	2,434
Corpus & Uterus, NOS	57,190	-	57,190	46,747	-	46,747	5,380	-	5,380
Ovary ^b	29,070	-	29,070	24,333	-	24,333	2,336	-	2,336
Prostate	295,797	295,797	-	229,848	229,848	-	41,027	41,027	-
Testis	11,637	11,637	-	10,518	10,518	-	335	335	-
Urinary bladder	85,752	64,895	20,857	76,384	58,222	18,162	4,662	3,129	1,533
Kidney & Renal pelvis	65,613	41,079	24,534	54,067	34,031	20,036	7,455	4,519	2,936
Brain & ONS ^a	27,410	15,270	12,140	23,772	13,357	10,415	1,914	970	944
Thyroid	52,338	12,517	39,821	42,902	10,631	32,271	3,391	649	2,742
Hodgkin lymphoma	11,775	6,498	5,277	9,649	5,330	4,319	1,405	776	629
Non-Hodgkin lymphoma	83,105	45,135	37,970	70,162	38,158	32,004	6,242	3,403	2,839
Myeloma	25,028	13,914	11,114	18,637	10,655	7,982	4,715	2,373	2,342
Leukemia	53,448	30,545	22,903	45,054	25,918	19,136	4,093	2,225	1,868
Acute lymphocytic	6,974	3,924	3,050	5,831	3,262	2,569	520	318	202
Chronic lymphocytic	18,082	10,777	7,305	15,764	9,386	6,378	1,088	642	446
Acute myeloid	15,392	8,246	7,146	12,709	6,939	5,770	1,310	635	675
Chronic myeloid	6,803	3,973	2,830	5,501	3,228	2,273	668	356	312
All others	6,197	3,625	2,572	5,249	3,103	2,146	507	274	233
Kaposi Sarcoma	2,283	2,061	222	1,570	1,416	154	520	472	48
Mesothelioma	4,184	3,201	983	3,823	2,943	880	217	156	61
All Sites	1,968,702	1,018,709	949,993	1,609,615	832,408	777,207	202,866	107,583	95,283

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, 2006-2010

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	3,022	1,959	1,063	191	133	58	3,416	2,238	1,178
Esophagus	841	622	219	91	62	29	1,307	1,050	257
Stomach	4,251	2,350	1,901	225	130	95	5,328	3,061	2,267
Colon & Rectum	14,017	7,197	6,820	909	462	447	17,882	9,633	8,249
Colon	9,172	4,432	4,740	619	292	327	12,078	6,213	5,865
Rectum	4,845	2,765	2,080	290	170	120	5,804	3,420	2,384
Liver & IBD ^c	5,308	3,662	1,646	325	230	95	6,090	4,351	1,739
Pancreas	3,377	1,601	1,776	235	111	124	4,884	2,357	2,527
Larynx	441	383	58	59	45	-	1,102	951	151
Lung & Bronchus	13,390	7,686	5,704	869	450	419	13,605	7,251	6,354
Melanoma of the skin	494	259	235	98	48	50	2,522	1,105	1,417
Breast	20,455	123	20,332	1,097	-	1,090	27,616	150	27,466
Cervix uteri	1,475	-	1,475	118	-	118	3,840	-	3,840
Corpus & Uterus, NOS	4,195	-	4,195	295	-	295	5,849	-	5,849
Ovary ^d	2,063	-	2,063	142	-	142	3,400	-	3,400
Prostate	13,010	13,010	-	756	756	-	25,092	25,092	-
Testis	412	412	-	82	82	-	2,548	2,548	-
Urinary bladder	3,143	2,377	766	167	133	34	4,771	3,527	1,244
Kidney & Renal pelvis	3,026	1,867	1,159	473	274	199	7,889	4,737	3,152
Brain & ONS ^c	1,387	766	621	104	57	47	3,544	1,935	1,609
Thyroid	5,069	1,017	4,052	218	49	169	7,495	1,381	6,114
Hodgkin lymphoma	551	298	253	32	-	18	1,890	1,056	834
Non-Hodgkin lymphoma	4,894	2,613	2,281	291	153	138	9,202	4,941	4,261
Myeloma	1,279	677	602	85	41	44	2,577	1,388	1,189
Leukemia	2,788	1,516	1,272	196	106	90	6,727	3,734	2,993
Acute lymphocytic	506	277	229	42	24	18	2,511	1,391	1,120
Chronic lymphocytic	367	221	146	30	21	-	860	484	376
Acute myeloid	1,178	582	596	69	31	38	1,862	974	888
Chronic myeloid	428	279	149	33	-	18	824	486	338
All others	309	157	152	22	-	-	670	399	271
Kaposi Sarcoma	75	71	-	-	-	-	519	470	49
Mesothelioma	117	81	36	-	-	-	388	280	108
All Sites	116,445	53,985	62,460	7,687	3,638	4,049	183,428	89,606	93,822

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, 2006-2010

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	0.15	0.29	0.15
Esophagus	0.03	0.06	0.03	0.04	0.07	0.03	0.11	0.24	0.11
Stomach	0.04	0.08	0.05	0.04	0.08	0.05	0.18	0.35	0.20
Colon & Rectum	0.10	0.17	0.13	0.11	0.19	0.14	0.38	0.67	0.47
Colon	0.09	0.14	0.11	0.10	0.16	0.12	0.34	0.58	0.41
Rectum	0.06	0.09	0.07	0.06	0.10	0.07	0.19	0.33	0.22
Liver & IBD ^a	0.04	0.08	0.04	0.04	0.08	0.04	0.15	0.29	0.14
Pancreas	0.05	0.09	0.07	0.06	0.10	0.08	0.21	0.35	0.26
Larynx	0.03	0.06	0.02	0.03	0.06	0.03	0.11	0.25	0.09
Lung & Bronchus	0.12	0.21	0.15	0.14	0.23	0.17	0.43	0.82	0.49
Melanoma of the skin	0.07	0.12	0.09	0.09	0.15	0.11	0.05	0.08	0.07
Breast	0.13	0.03	0.23	0.14	0.03	0.27	0.41	0.12	0.71
Cervix uteri	0.03	-	0.06	0.04	-	0.07	0.11	-	0.20
Corpus & Uterus, NOS	0.05	-	0.10	0.06	-	0.12	0.18	-	0.31
Ovary ^b	0.04	-	0.07	0.05	-	0.09	0.12	-	0.20
Prostate	0.13	0.29	-	0.14	0.31	-	0.49	1.20	-
Testis	0.03	0.05	-	0.03	0.06	-	0.04	0.08	-
Urinary bladder	0.07	0.15	0.06	0.08	0.17	0.07	0.19	0.40	0.18
Kidney & Renal pelvis	0.06	0.11	0.07	0.07	0.12	0.08	0.21	0.38	0.23
Brain & ONS ^a	0.04	0.06	0.05	0.05	0.07	0.06	0.10	0.16	0.12
Thyroid	0.05	0.06	0.09	0.06	0.06	0.11	0.13	0.13	0.20
Hodgkin lymphoma	0.03	0.04	0.03	0.03	0.05	0.04	0.07	0.12	0.09
Non-Hodgkin lymphoma	0.07	0.11	0.09	0.08	0.13	0.10	0.19	0.32	0.23
Myeloma	0.04	0.06	0.05	0.04	0.07	0.05	0.18	0.32	0.21
Leukemia	0.06	0.10	0.07	0.06	0.11	0.08	0.16	0.29	0.18
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	0.18	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	0.02	0.06	0.11	0.07
Kaposi Sarcoma	0.01	0.02	0.01	0.01	0.02	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	0.33	0.54	0.43	0.38	0.60	0.49	1.11	2.00	1.31

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.

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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	0.14	0.26	0.15	0.57	1.05	0.60	0.12	0.22	0.13
Esophagus	0.08	0.16	0.08	0.46	0.85	0.47	0.08	0.17	0.07
Stomach	0.19	0.33	0.22	0.72	1.28	0.83	0.17	0.30	0.19
Colon & Rectum	0.32	0.53	0.40	1.42	2.28	1.82	0.30	0.51	0.36
Colon	0.27	0.43	0.34	1.22	1.94	1.60	0.25	0.42	0.31
Rectum	0.18	0.32	0.22	0.73	1.21	0.87	0.16	0.28	0.18
Liver & IBD ^c	0.20	0.37	0.20	0.80	1.50	0.83	0.16	0.30	0.17
Pancreas	0.17	0.27	0.21	0.76	1.20	0.98	0.17	0.27	0.22
Larynx	0.06	0.13	0.04	0.35	0.76	-	0.07	0.17	0.05
Lung & Bronchus	0.33	0.60	0.38	1.51	2.63	1.82	0.29	0.51	0.34
Melanoma of the skin	0.06	0.10	0.07	0.40	0.66	0.51	0.10	0.16	0.12
Breast	0.36	0.07	0.65	1.33	-	2.43	0.31	0.06	0.57
Cervix uteri	0.09	-	0.17	0.36	-	0.69	0.10	-	0.18
Corpus & Uterus, NOS	0.16	-	0.29	0.66	-	1.22	0.14	-	0.26
Ovary ^d	0.11	-	0.21	0.53	-	0.95	0.11	-	0.20
Prostate	0.32	0.74	-	1.32	3.09	-	0.36	0.84	-
Testis	0.05	0.10	-	0.25	0.50	-	0.05	0.10	-
Urinary bladder	0.16	0.34	0.14	0.64	1.30	0.54	0.17	0.37	0.15
Kidney & Renal pelvis	0.15	0.26	0.16	0.97	1.66	1.16	0.18	0.32	0.21
Brain & ONS ^c	0.10	0.16	0.12	0.35	0.52	0.46	0.10	0.16	0.13
Thyroid	0.17	0.17	0.28	0.52	0.49	0.88	0.13	0.13	0.22
Hodgkin lymphoma	0.06	0.09	0.07	0.18	-	0.29	0.06	0.10	0.08
Non-Hodgkin lymphoma	0.19	0.32	0.23	0.78	1.28	0.97	0.20	0.33	0.25
Myeloma	0.10	0.17	0.12	0.44	0.72	0.58	0.11	0.20	0.14
Leukemia	0.14	0.24	0.17	0.57	1.00	0.70	0.14	0.24	0.17
Acute lymphocytic	0.06	0.09	0.07	0.17	0.27	0.23	0.05	0.08	0.07
Chronic lymphocytic	0.05	0.10	0.06	0.26	0.53	-	0.07	0.13	0.08
Acute myeloid	0.09	0.15	0.12	0.37	0.55	0.51	0.08	0.14	0.10
Chronic myeloid	0.05	0.10	0.06	0.22	-	0.28	0.05	0.09	0.06
All others	0.05	0.08	0.06	0.22	-	-	0.05	0.10	0.06
Kaposi Sarcoma	0.02	0.05	-	-	-	-	0.04	0.07	0.03
Mesothelioma	0.03	0.06	0.03	-	-	-	0.05	0.10	0.04
All Sites	0.92	1.49	1.18	3.96	6.48	5.06	0.90	1.52	1.11

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, 2006-2010

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	40,202	27,551	12,651	33,656	22,849	10,807	5,055	3,709	1,346
Esophagus	69,389	54,764	14,625	60,874	48,556	12,318	7,132	5,164	1,968
Stomach	56,659	33,513	23,146	42,473	25,287	17,186	9,931	5,823	4,108
Colon & Rectum	263,165	134,617	128,548	221,000	113,322	107,678	34,282	17,280	17,002
Liver & IBD ^a	91,540	61,096	30,444	72,268	47,739	24,529	12,469	8,751	3,718
Pancreas	175,321	87,775	87,546	149,690	75,717	73,973	20,571	9,619	10,952
Larynx	18,536	14,648	3,888	15,035	11,813	3,222	3,178	2,557	621
Lung & Bronchus	792,203	441,505	350,698	691,770	382,146	309,624	82,214	48,757	33,457
Melanoma of the skin	43,878	28,649	15,229	42,902	28,165	14,737	653	314	339
Breast	205,715	2,036	203,679	170,984	1,683	169,301	29,545	321	29,224
Cervix uteri	19,853	-	19,853	14,951	-	14,951	4,000	-	4,000
Corpus & Uterus, NOS	38,630	-	38,630	30,905	-	30,905	6,627	-	6,627
Ovary	72,848	-	72,848	64,692	-	64,692	6,084	-	6,084
Prostate	142,584	142,584	-	116,179	116,179	-	23,840	23,840	-
Testis	1,817	1,817	-	1,659	1,659	-	104	104	-
Urinary bladder	70,284	49,317	20,967	64,110	45,731	18,379	5,089	2,850	2,239
Kidney & Renal pelvis	64,191	40,626	23,565	56,479	35,825	20,654	6,016	3,681	2,335
Brain & ONS ^a	68,184	38,034	30,150	62,470	35,001	27,469	4,164	2,185	1,979
Thyroid	8,122	3,448	4,674	6,926	3,057	3,869	747	239	508
Hodgkin lymphoma	6,250	3,519	2,731	5,486	3,077	2,409	640	361	279
Non-Hodgkin lymphoma	102,172	55,151	47,021	92,254	49,749	42,505	7,180	3,927	3,253
Myeloma	53,902	29,001	24,901	43,364	23,733	19,631	9,314	4,592	4,722
Leukemia	111,736	63,548	48,188	99,627	56,981	42,646	9,305	5,021	4,284
Acute lymphocytic	7,094	4,001	3,093	6,237	3,504	2,733	588	349	239
Chronic lymphocytic	22,407	13,355	9,052	20,358	12,101	8,257	1,862	1,130	732
Acute myeloid	44,442	25,005	19,437	39,601	22,540	17,061	3,396	1,691	1,705
Chronic myeloid	5,083	2,870	2,213	4,365	2,454	1,911	565	326	239
All others	32,710	18,317	14,393	29,066	16,382	12,684	2,894	1,525	1,369
All Sites	2,830,559	1,475,960	1,354,599	2,431,059	1,269,792	1,161,267	321,652	166,047	155,605

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, 2006-2010

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	1,271	848	423	145	96	49	1,862	1,360	502
Esophagus	1,074	804	270	216	164	52	2,727	2,211	516
Stomach	3,831	2,135	1,696	345	218	127	6,938	3,933	3,005
Colon & Rectum	6,517	3,314	3,203	992	498	494	14,641	8,050	6,591
Liver & IBD ^c	6,012	4,072	1,940	569	378	191	10,357	6,925	3,432
Pancreas	4,339	2,075	2,264	531	260	271	9,639	4,827	4,812
Larynx	225	196	29	61	52	-	941	828	113
Lung & Bronchus	14,688	8,652	6,036	2,324	1,252	1,072	23,406	14,519	8,887
Melanoma of the skin	226	115	111	71	42	29	1,006	583	423
Breast	4,338	25	4,313	568	-	562	10,868	70	10,798
Cervix uteri	716	-	716	140	-	140	2,369	-	2,369
Corpus & Uterus, NOS	946	-	946	109	-	109	2,284	-	2,284
Ovary	1,730	-	1,730	236	-	236	3,980	-	3,980
Prostate	1,995	1,995	-	379	379	-	7,193	7,193	-
Testis	38	38	-	-	-	-	335	335	-
Urinary bladder	887	601	286	125	89	36	2,389	1,632	757
Kidney & Renal pelvis	1,195	789	406	395	255	140	4,217	2,706	1,511
Brain & ONS ^c	1,288	710	578	181	93	88	4,166	2,304	1,862
Thyroid	416	136	280	25	-	-	698	281	417
Hodgkin lymphoma	104	65	39	-	-	-	589	340	249
Non-Hodgkin lymphoma	2,376	1,284	1,092	270	140	130	6,210	3,396	2,814
Myeloma	981	544	437	166	90	76	3,181	1,697	1,484
Leukemia	2,382	1,301	1,081	299	185	114	6,735	3,701	3,034
Acute lymphocytic	221	125	96	37	16	21	1,445	786	659
Chronic lymphocytic	133	89	44	34	24	-	513	282	231
Acute myeloid	1,263	667	596	125	79	46	2,526	1,375	1,151
Chronic myeloid	122	68	54	25	19	-	321	191	130
All others	643	352	291	78	47	31	1,930	1,067	863
All Sites	64,441	33,138	31,303	9,437	4,852	4,585	143,769	75,631	68,138

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, 2006-2010
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	0.04	0.09	0.04
Esophagus	0.02	0.03	0.01	0.02	0.04	0.01	0.05	0.12	0.05
Stomach	0.02	0.03	0.02	0.02	0.03	0.02	0.07	0.14	0.07
Colon & Rectum	0.03	0.05	0.04	0.03	0.06	0.04	0.13	0.24	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	0.08	0.03
Lung & Bronchus	0.06	0.10	0.07	0.06	0.10	0.07	0.19	0.38	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	0.05	0.11	0.03	0.18
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	0.35	-
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	0.10	0.05
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	0.01	0.03	0.02
Non-Hodgkin lymphoma	0.02	0.04	0.02	0.02	0.04	0.03	0.06	0.10	0.06
Myeloma	0.01	0.03	0.02	0.02	0.03	0.02	0.07	0.12	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	0.07	0.04
All Sites	0.11	0.18	0.13	0.11	0.19	0.14	0.38	0.73	0.44

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, 2006-2010

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	0.21	0.39	0.23	0.04	0.07	0.04
Esophagus	0.06	0.12	0.05	0.26	0.53	0.24	0.05	0.10	0.04
Stomach	0.11	0.20	0.13	0.33	0.61	0.35	0.07	0.13	0.08
Colon & Rectum	0.14	0.24	0.18	0.58	0.95	0.73	0.11	0.20	0.13
Liver & IBD ^c	0.13	0.24	0.14	0.42	0.77	0.46	0.09	0.16	0.09
Pancreas	0.12	0.19	0.15	0.43	0.70	0.54	0.09	0.15	0.11
Larynx	0.03	0.06	0.02	0.14	0.32	-	0.03	0.06	0.02
Lung & Bronchus	0.22	0.40	0.24	0.89	1.54	1.06	0.14	0.28	0.15
Melanoma of the skin	0.03	0.04	0.03	0.15	0.30	0.15	0.03	0.05	0.03
Breast	0.10	0.02	0.18	0.40	-	0.69	0.08	0.02	0.15
Cervix uteri	0.04	-	0.07	0.17	-	0.31	0.03	-	0.06
Corpus & Uterus, NOS	0.05	-	0.09	0.18	-	0.32	0.04	-	0.07
Ovary	0.07	-	0.12	0.28	-	0.49	0.05	-	0.10
Prostate	0.09	0.23	-	0.44	1.15	-	0.09	0.24	-
Testis	0.01	0.02	-	-	-	-	0.01	0.02	-
Urinary bladder	0.06	0.12	0.06	0.23	0.49	0.21	0.05	0.10	0.05
Kidney & Renal pelvis	0.06	0.11	0.06	0.36	0.66	0.39	0.06	0.11	0.06
Brain & ONS ^c	0.06	0.09	0.07	0.21	0.32	0.26	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	0.10	0.31	0.51	0.39	0.07	0.12	0.09
Myeloma	0.06	0.10	0.07	0.24	0.43	0.28	0.05	0.09	0.06
Leukemia	0.08	0.15	0.10	0.30	0.59	0.33	0.07	0.12	0.08
Acute lymphocytic	0.02	0.04	0.03	0.06	0.07	0.09	0.02	0.03	0.03
Chronic lymphocytic	0.02	0.05	0.02	0.13	0.28	-	0.02	0.04	0.03
Acute myeloid	0.06	0.10	0.07	0.19	0.37	0.20	0.04	0.07	0.05
Chronic myeloid	0.02	0.03	0.02	0.08	0.15	-	0.01	0.03	0.02
All others	0.05	0.08	0.05	0.17	0.33	0.18	0.04	0.07	0.04
All Sites	0.44	0.77	0.53	1.77	3.08	2.15	0.34	0.61	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/WHO 2008 Definition^{ab}

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 9050-9055, 9140, 9590-9992	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 9050-9055, 9140, 9590-9992	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 9050-9055, 9140, 9590-9992	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 9050-9055, 9140, 9590-9992	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 9050-9055, 9140, 9590-9992	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 9050-9055, 9140, 9590-9992	22030
Pleura	C384		22050
Trachea, Mediastinum and Other Respiratory Organs	C339, C381-C383, C388 C390, C398, C399		22060
Bones and Joints	C400-C419	excluding 9050-9055, 9140, 9590-9992	23000
Soft Tissue including Heart	C380, C470-C479, C490-C499	excluding 9050-9055, 9140, 9590-9992	24000
Skin excluding Basal and Squamous			
Melanoma of the Skin	C440-C449	8720-8790	25010
Other Non-Epithelial Skin	C440-C449	excluding 8000-8005, 8010-8046, 8050-8084, 8090-8110, 8720-8790, 9050-9055, 9140, 9590-9992	25020
Breast	C500-C509	excluding 9050-9055, 9140, 9590-9992	26000
Female Genital System			
Cervix Uteri	C530-C539		27010
Corpus and Uterus, NOS			
Corpus Uteri	C540-C549		27020
Uterus, NOS	C559	excluding 9050-9055, 9140, 9590-9992	27030
Ovary	C569		27040
Vagina	C529		27050
Vulva	C510-C519		27060
Other Female Genital Organs	C570-C589		27070

^a This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^b Subject to change based on evolving ICD-O-3 coding rules.

Table A.5 - continued

SEER Site Recode ICD-O-3/WHO 2008 Definition^{ab}

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
Male Genital System			
Prostate	C619		28010
Testis	C620-C629	excluding 9050-9055, 9140,	28020
Penis	C600-C609	9590-9992	28030
Other Male Genital Organs	C630-C639		28040
Urinary System			
Urinary Bladder	C670-C679		29010
Kidney and Renal Pelvis	C649, C659	excluding 9050-9055, 9140,	29020
Ureter	C669	9590-9992	29030
Other Urinary Organs	C680-C689		29040
Eye and Orbit	C690-C699	excluding 9050-9055, 9140,	30000
		9590-9992	
Brain and Other Nervous System			
Brain	C710-C719	excluding 9050-9055, 9140,	31010
		9530-9539, 9590-9992	
Cranial Nerves Other	C710-C719	9530-9539	31040
Nervous System	C700-C709, C720-C729	excluding 9050-9055, 9140,	
		9590-9992	
Endocrine System			
Thyroid	C739	excluding 9050-9055, 9140,	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759	9590-9992	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	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737- 9738, 9811-9818, 9823, 9827, 9837	33041
NHL - Extranodal	All sites except C024, C098- C099, C111, C142, C379, C422, C770-C779	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737-9738	33042
	All sites except C024, C098- C099, C111, C142, C379, C420-C422, C424, C770-C779	9811-9818, 9823, 9827, 9837	
Myeloma		9731-9732, 9734	34000
Leukemia			
Lymphocytic Leukemia			
Acute Lymphocytic Leukemia		9826, 9835-9836	35011
	C420-C421, C424	9811-9818, 9837	
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, 9865-9867, 9869, 9871- 9874, 9895-9898, 9910-9911, 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, 9805-9809, 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, 9750-9769, 9950, 9960-9962, 9970-9971, 9975, 9980, 9982-9987, 9989, 9991-9992	37000
	C760-C768, C809	excluding 9050-9055, 9140,	
	C420-C424	9590-9992	
	C770-C779		
Invalid	Site or histology code not within valid range or site code not found in this table		99999

^a This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^b Subject to change based on evolving ICD-O-3 coding rules.

Table A.6

International Classification of Childhood Cancer (ICCC)^a Recode ICD-O-3/WHO 2008^{bc}

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
I. Leukemias, myeloproliferative diseases, and myelodysplastic diseases		
a. Lymphoid leukemias	C000-C809 C420-C421, C424	9820, 9826, 9831-9836, 9940, 9948 9811-9818, 9823, 9827, 9837
b. Acute myeloid leukemias	C000-C809	9840, 9861, 9865-9867, 9869-9874, 9891, 9895-9898, 9910-9911, 9920, 9931
c. Chronic myeloproliferative diseases	C000-C809	9863, 9875-9876, 9950, 9960-9964
d. Myelodysplastic syndrome and other myeloproliferative diseases	C000-C809	9945-9946, 9975, 9980, 9982-9987, 9989, 9991-9992
e. Unspecified and other specified leukemias	C000-C809	9800-9801, 9805-9809, 9860, 9930, 9965-9967, 9971
II. Lymphomas and reticuloendothelial neoplasms		
a. Hodgkin lymphomas	C000-C809	9650-9655, 9659, 9661-9665, 9667
b. Non-Hodgkin lymphomas (except Burkitt lymphoma)	C000-C809 C000-C419, C422-C423, C425-C809	9591, 9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9688-9691, 9695, 9698-9699, 9700-9702, 9705, 9708-9709, 9712, 9714, 9716-9719, 9724-9729, 9731-9735, 9737-9738, 9760-9762, 9764-9769, 9970 9811-9818, 9823, 9827, 9837
c. Burkitt lymphoma	C000-C809	9687
d. Miscellaneous lymphoreticular neoplasms	C000-C809	9740-9742, 9750, 9754-9758
e. Unspecified lymphomas	C000-C809	9590, 9596
III. CNS and miscellaneous intracranial and intraspinal neoplasms		
a. Ependymomas and choroid plexus tumor	C000-C809	9383, 9390-9394 ^d
b. Astrocytomas	C723 C000-C809	9380 ^d 9384, 9400-9411, 9420-9424, 9440-9442 ^d
c. Intracranial and intraspinal embryonal tumors	C000-C809 C700-C729	9470-9474, 9480, 9508 ^d 9501-9504 ^d
d. Other gliomas	C700-C722, C724-C729, C751, C753 C000-C809	9380 ^d 9381-9382, 9430, 9444, 9450, 9451, 9460 ^d
e. Other specified intracranial and intraspinal neoplasms	C000-C809	8270-8281, 8300, 9350-9352, 9360-9362, 9412, 9413, 9492-9493, 9505-9507, 9530-9539, 9582 ^d
f. Unspecified intracranial and intraspinal neoplasms	C700-C729, C751-C753	8000-8005 ^d
IV. Neuroblastoma and other peripheral nervous cell tumors		
a. Neuroblastoma and ganglioneuroblastoma	C000-C809	9490, 9500
b. Other peripheral nervous cell tumors	C000-C809 C000-C699, C739-C768, C809	8680-8683, 8690-8693, 8700, 9520-9523 9501-9504
V. Retinoblastoma	C000-C809	9510-9514
VI. Renal tumors		
a. Nephroblastoma and other nonepithelial renal tumors	C649 C000-C809	8963, 9364 8959, 8960, 8964-8967
b. Renal carcinomas	C649 C000-C809	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 8311, 8312, 8316-8319, 8361
c. Unspecified malignant renal tumors	C649	8000-8005
VII. Hepatic tumors		
a. Hepatoblastoma	C000-C809	8970
b. Hepatic carcinomas	C220, C221 C000-C809	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 8160-8180
c. Unspecified malignant hepatic tumors	C220, C221	8000-8005

^a International Classification of Childhood Cancer is based on ICD-O-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 This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^c Subject to change based on evolving ICD-O-3 coding rules.

^d 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 Recode ICD-O-3/WHO 2008^{bc}

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
VIII. Malignant bone tumors		
a. Osteosarcomas	C400-C419, C760-C768, C809	9180-9187, 9191-9195, 9200
b. Chondrosarcomas	C400-C419, C760-C768, C809	9210, 9220, 9240
	C000-C809	9221, 9230, 9241-9243
c. Ewing tumor and related sarcomas of bone	C400-C419, C760-C768, C809	9260
	C400-C419	9363-9365
d. Other specified malignant bone tumors	C400-C419	8810-8811, 8823, 8830
	C000-C809	8812, 9250, 9261-9262, 9270-9275, 9280-9282, 9290, 9300-9302, 9310-9312, 9320-9322, 9330, 9340-9342, 9370-9372
e. Unspecified malignant bone tumors	C400-C419	8000-8005, 8800, 8801, 8803-8805
IX. Soft tissue and other extraosseous sarcomas		
a. Rhabdomyosarcomas	C000-C809	8900-8905, 8910, 8912, 8920, 8991
b. Fibrosarcomas, peripheral nerve sheath tumors, and other fibrous neoplasms	C000-C399, C440-C768, C809	8810-8811, 8813-8815, 8821, 8823, 8834-8835
	C000-C809	8820, 8822, 8824-8827, 9150, 9160, 9491, 9540-9571, 9580
c. Kaposi sarcoma	C000-C809	9140
d. Other specified soft tissue sarcomas	C000-C809	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
	C000-C399, C440-C768, C809	8830
	C000-C639, C659-C699, C739-C768, C809	8963
	C490-C499	9180, 9210, 9220, 9240
	C000-C399, C470-C759	9260
	C000-C399, C470-C639, C659-C699, C739-C768, C809	9364
	C000-C399, C470-C639, C659-C768, C809	9365
e. Unspecified soft tissue sarcomas	C000-C399, C440-C768, C809	8800-8805
X. Germ cell tumors, trophoblastic tumors, and neoplasms of gonads		
a. Intracranial and intraspinal germ cell tumors	C700-C729, C751-C753	9060-9065, 9070-9072, 9080-9085, 9100, 9101 ^d
b. Malignant extracranial and extragonadal germ cell tumors	C000-C559, C570-C619, C630-C699, C739-C750, C754-C768, C809	9060-9065, 9070-9072, 9080-9085, 9100-9105
c. Malignant gonadal germ cell tumors	C569, C620-C629	9060-9065, 9070-9073, 9080-9085, 9090, 9091, 9100, 9101
d. Gonadal carcinomas	C569, C620-C629	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
	C000-C809	8441-8444, 8450-8451, 8460-8473
e. Other and unspecified malignant gonadal tumors	C569, C620-C629	8000-8005
	C000-C809	8590-8671

^a International Classification of Childhood Cancer is based on ICD-O-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 This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^c Subject to change based on evolving ICD-O-3 coding rules.

^d 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 Recode ICD-O-3/WHO 2008^{bc}

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
XI. Other malignant epithelial neoplasms and malignant melanomas		
a. Adrenocortical carcinomas	C000-C809	8370-8375
b. Thyroid carcinomas	C739	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
	C000-C809	8330-8337, 8340-8347, 8350
c. Nasopharyngeal carcinomas	C110-C119	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
d. Malignant melanomas	C000-C809	8720-8780, 8790
e. Skin carcinomas	C440-C449	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
f. Other and unspecified carcinomas	C000-C069, C079-C109, C129-C189, C199, C209-C218, C239-C349, C379-C399, C480-C488, C500-C549, C559, C570-C619, C630-C639, C659-C699, C700-C729, C750-C768, C809	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
XII. Other and unspecified malignant neoplasms		
a. Other specified malignant tumors	C000-C809	8930-8936, 8950, 8951, 8971-8981, 9050-9055, 9110
	C000-C399, C470-C759	9363
b. Other unspecified malignant tumors	C000-C218, C239-C399, C420-C559, C570-C619, C630-C639, C659-C699, C739-C750, C754-C809	8000-8005

^a International Classification of Childhood Cancer is based on ICD-O-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 This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^c Subject to change based on evolving ICD-O-3 coding rules.

^d 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 ICD-O-3/WHO 2008 Definition^{bc}

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
1. Leukemias		
1.1 Acute lymphoid leukemia	C000-C809	9826, 9835-9836
	C420-C421, C424	9811-9818, 9837
1.2 Acute myeloid leukemia	C000-C809	9840, 9861, 9865-9867, 9869, 9871-9874, 9891, 9895-9898, 9910-9911, 9920
1.3 Chronic myeloid leukemia	C000-C809	9863, 9875-9876, 9945-9946
1.4 Other and unspecified leukemia	C000-C809	9742, 9800-9801, 9805-9809, 9820, 9831-9834, 9860, 9870, 9930-9931, 9940, 9948, 9963-9964
	C420-C421, C424	9823, 9827
2. Lymphomas		
2.1 Non-Hodgkin lymphoma	C000-C809	9590-9591, 9596-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714, 9716-9719, 9725-9729, 9735, 9737-9738
	C000-C419, C422-C423, C425-C809	9811-9818, 9823, 9827, 9837
2.2 Hodgkin lymphoma	C000-C809	9650-9655, 9659, 9661-9665, 9667
3. CNS and Other Intracranial and Intraspinial Neoplasms		
3.1 Astrocytoma		
3.1.1 Specified low-grade astrocytic tumors	C000-C809	9410-9411, 9420-9421, 9424
	C723	9380
3.1.2 Glioblastoma and anaplastic astrocytoma	C000-C809	9401, 9440-9442
3.1.3 Astrocytoma, NOS	C000-C809	9400
3.2 Other glioma	C000-C722, C724-C809	9380
	C000-C809	9381-9384, 9423, 9430, 9450-9451, 9460
3.3 Ependymoma	C000-C809	9391-9394
3.4 Medulloblastoma and other PNET		
3.4.1 Medulloblastoma	C716	9470-9474
3.4.2 Supratentorial PNET	C000-C715, C717-C809	9470-9474
3.5 Other specified intracranial intraspinal neoplasms	C000-C699, C730-C750, C754-C809	9350-9351, 9360-9362, 9390, 9480, 9530-9535, 9537-9539, 9541, 9550, 9562, 9570
	C700-C729, C751-C753	9161, 9361-9362, 9390, 9530-9531, 9535, 9538, 9540, 9560, 9571
	C700	9532, 9534, 9537, 9539
	C753	9360
	C711	9480, 9539
	C713	9480, 9533
	C719	9350
	C714, C717	9480
	C709	9539
3.6 Unspecified intracranial and intraspinal neoplasms	C700-C729, C751-C753	8000-8005
4. Osseous & Chondromatous Neoplasms		
4.1 Osteosarcoma	C000-C809	9180-9187, 9192-9194
4.2 Chondrosarcoma	C000-C809	9220-9221, 9230-9231, 9240, 9242-9243
4.3 Ewing tumor	C000-C809	9260, 9364-9365
4.4 Other specified and unspecified bone tumors	C000-C809	8812, 9250, 9261, 9370-9372
	C400-C419	8000-8005, 8800-8803, 8805-8806, 9200
5. Soft Tissue Sarcomas		
5.1 Fibromatous neoplasms	C000-C809	8810-8811, 8813-8815, 8820-8824, 8830, 8832-8833, 8835-8836, 9252
5.2 Rhabdomyosarcoma	C000-C809	8900-8904, 8910, 8912, 8920-8921, 8991
5.3 Other specified soft tissue sarcoma		
5.3.1 Specified soft tissue sarcoma		
5.3.1.1 Specified (excluding Kaposi sarcoma)	C000-C809	8804, 8825, 8840-8897, 8982-8983, 8990, 9040-9044, 9120-9139, 9141-9150, 9170, 9251, 9561, 9580-9581
	C000-C699, C730-C750, C754-C809	9540, 9560, 9571
5.3.1.2 Kaposi sarcoma	C000-C809	9140
5.3.2 Unspecified soft tissue sarcoma	C000-C399, C420-C809	8800-8803, 8805-8806

^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 This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^c Subject to change based on evolving ICD-O-3 coding rules.
CNS: central nervous system.

Table A.7 - continued

Adapted Classification Scheme for Tumors of Adolescents and Young Adults^a ICD-O-3/WHO 2008 Definition^{bc}

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
6. Germ Cell and Trophoblastic Neoplasms		
6.1 Germ cell and trophoblastic neoplasms of gonads	C569, C620-C629 9091, 9100-9102,	9060-9065, 9070-9073, 9080-9085, 9090-9105
6.2 Germ cell and trophoblastic neoplasms of nongonadal sites		
6.2.1 Intracranial sites	C700-C729, C751, C753	9060-9065, 9070-9073, 9080-9085, 9090-9091, 9100-9102, 9105
6.2.2 Other nongonadal sites	C000-C568, C570- C619, C630-C699, C730-C750, C754- C809	9060-9065, 9070-9073, 9080-9085, 9090-9091, 9100-9102, 9104-9105
7. Melanoma and Skin Carcinomas		
7.1 Melanoma	C000-C809 8761, 8770-8774,	8720-8723, 8726, 8728, 8730, 8740-8746, 8780
7.2 Skin carcinomas	C440-C449	8010-8589
8. Carcinomas		
8.1 Thyroid carcinoma	C739	8010-8589
8.2 Other carcinoma of head and neck		
8.2.1 Nasopharyngeal carcinoma	C110-C119	8010-8589
8.2.2 Other sites in lip, oral cavity and pharynx	C000-C109, C120- C148	8010-8589
8.2.3 Nasal cavity, middle ear, sinuses, larynx, other ill-defined head/neck	C300-C329, C760	8010-8589
8.3 Carcinoma of trachea, bronchus and lung	C330-C349	8010-8589
8.4 Carcinoma of breast	C500-C509	8010-8589
8.5 Carcinoma of genitourinary tract		
8.5.1 Carcinoma of kidney	C649	8010-8589
8.5.2 Carcinoma of bladder	C670-C679	8010-8589
8.5.3 Carcinoma of gonads	8590-8593 C569, C620-C629	8010-8589
8.5.4 Carcinoma of cervix and uterus	C530-C559	8010-8589
8.5.5 Carcinoma of other and ill-defined sites, genitourinary tract	C510-C529, C570- C579, C600-C619, C630-C639, C659, C669, C680-C689	8010-8589
8.6 Carcinoma of gastrointestinal tract		
8.6.1 Carcinoma of colon and rectum	C180-C218	8010-8589
8.6.2 Carcinoma of stomach	C160-C169	8010-8589
8.6.3 Carcinoma of liver and intrahepatic bile ducts	C220-C221	8010-8589
8.6.4 Carcinoma of pancreas	C250-C259	8010-8589
8.6.5 Carcinoma of other and ill-defined sites, gastrointestinal tract	C150-C159, C170- C179, C230-C249, C260-C269	8010-8589
8.7 Carcinoma of other and ill-defined sites, NOS		
8.7.1 Adrenocortical carcinoma	C740-C749	8010-8589
8.7.2 Carcinoma of other and ill-defined sites, NOS	C149, C219, C222- C229, C270-C299, C350-C439, C450- C499, C560-C568, C580-C599, C640- C648, C650-C658, C660-C668, C690- C738, C750-C759, C761-C809 C809	8442, 9010,

^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 This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^c Subject to change based on evolving ICD-O-3 coding rules.

Table A.7 - continued

Adapted Classification Scheme for Tumors of Adolescents and Young Adults^a ICD-O-3/WHO 2008 Definition^{bc}

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)
9. Miscellaneous specified neoplasms, NOS		
9.1 Other pediatric and embryonal tumors, NOS		
9.1.1 Wilms tumor	C000-C809	8959-8960
9.1.2 Neuroblastoma	C000-C809	9490,9500
9.1.3 Other pediatric and embryonal tumors, NOS	C000-C809	8963-8964, 8970-8973, 8981, 9363, 9501-9523
9.2 Other specified and embryonal tumors, NOS		
9.2.1 Paraganglioma and glomus tumors	C000-C809	8680-8711
9.2.2 Other specified gonadal tumors	C569	8670, 9013-9015, 9054
	C000-C809	8600-8650,9000
9.2.3 Myeloma, mast cell, miscellaneous lymphoreticular neoplasms, NOS	C000-C809	9724, 9731-9734, 9740-9741, 9743-9764, 9766, 9769, 9960, 9965-9967, 9970-9971
9.2.4 Other specified neoplasms, NOS ^d	C000-C809	8930-8951, 8980, 9020, 9050-9053, 9110, 9160, 9270-9330, 9950, 9961-9962, 9980, 9982, 9989, 9991-9992
	C000-C696, C730-C750, C754-C809	9161
10. Unspecified Malignant Neoplasms	C000-C399, C420-C699, C730-C750, C754-C809	8000-8005

^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 This table was updated for Hematopoietic codes based on WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues (2008).

^c Subject to change based on evolving ICD-O-3 coding rules.

^d 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+ (4/16/2012) 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+ (4/16/2012) 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-A08, 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	J09-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 2006-2010

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.	303,961,367	149,421,173	154,540,194	242,788,307	120,074,711	122,713,596	41,037,792	19,597,358	21,440,434
Alabama	4,712,673	2,285,856	2,426,817	3,362,323	1,654,385	1,707,938	1,257,594	585,826	671,768
Alaska	691,220	358,970	332,250	496,397	260,921	235,477	30,213	16,221	13,992
Arizona	6,246,699	3,107,710	3,138,990	5,402,967	2,687,292	2,715,676	292,134	151,985	140,149
Arkansas	2,872,679	1,409,482	1,463,198	2,344,615	1,157,718	1,186,897	458,430	217,873	240,558
California	36,635,055	18,221,219	18,413,837	28,014,801	14,047,018	13,967,783	2,669,147	1,316,503	1,352,644
Colorado	4,886,782	2,449,771	2,437,011	4,410,464	2,211,761	2,198,702	232,425	121,304	111,120
Connecticut	3,545,523	1,724,786	1,820,737	2,983,670	1,454,599	1,529,071	402,182	191,869	210,313
Delaware	881,283	427,027	454,255	648,825	316,675	332,150	196,937	93,049	103,888
Dist. of Columbia	584,492	276,194	308,298	237,846	118,957	118,889	320,472	145,638	174,834
Florida	18,510,679	9,053,113	9,457,566	14,825,526	7,282,425	7,543,101	3,079,727	1,483,114	1,596,613
Georgia	9,468,729	4,629,910	4,838,820	6,144,320	3,061,405	3,082,915	2,950,312	1,384,505	1,565,807
Hawaii	1,333,539	667,733	665,806	328,743	176,741	152,002	33,393	19,540	13,853
Idaho	1,526,727	765,459	761,268	1,460,469	732,222	728,247	14,197	7,971	6,225
Illinois	12,745,123	6,252,175	6,492,949	10,099,816	4,997,642	5,102,174	1,956,938	918,732	1,038,205
Indiana	6,417,404	3,157,037	3,260,368	5,657,748	2,790,125	2,867,623	623,583	299,927	323,657
Iowa	3,016,332	1,490,924	1,525,409	2,847,293	1,404,152	1,443,141	99,310	52,147	47,163
Kansas	2,809,328	1,392,670	1,416,658	2,509,443	1,242,151	1,267,291	188,306	95,778	92,527
Kentucky	4,286,017	2,106,148	2,179,870	3,867,723	1,900,074	1,967,650	352,702	174,276	178,426
Louisiana	4,430,165	2,164,736	2,265,429	2,885,283	1,427,059	1,458,224	1,437,213	683,960	753,252
Maine	1,327,627	649,664	677,964	1,284,810	628,167	656,644	18,254	10,121	8,133
Maryland	5,696,362	2,754,093	2,942,268	3,587,490	1,765,689	1,821,801	1,744,720	813,458	931,261
Massachusetts	6,476,738	3,131,986	3,344,752	5,569,165	2,694,295	2,874,871	517,063	249,094	267,969
Michigan	9,952,598	4,884,729	5,067,869	8,121,756	4,008,894	4,112,862	1,487,906	707,705	780,201
Minnesota	5,241,927	2,601,703	2,640,224	4,655,460	2,308,014	2,347,446	292,647	149,387	143,260
Mississippi	2,941,996	1,427,933	1,514,063	1,796,455	887,748	908,707	1,100,415	518,250	582,165

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 2006-2010

By State, Race/Ethnicity and Sex

State	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Missouri	5,922,207	2,898,051	3,024,156	5,055,321	2,485,080	2,570,241	720,355	342,166	378,188
Montana	973,751	488,503	485,248	892,034	447,825	444,208	6,672	3,957	2,715
Nebraska	1,799,067	891,880	907,187	1,647,553	816,188	831,365	91,809	46,385	45,425
Nevada	2,633,262	1,332,264	1,300,998	2,121,292	1,083,944	1,037,348	241,484	121,906	119,578
New Hampshire	1,313,949	648,273	665,676	1,260,789	621,380	639,408	18,838	10,309	8,529
New Jersey	8,721,170	4,244,718	4,476,452	6,619,912	3,239,314	3,380,598	1,314,830	620,090	694,740
New Mexico	2,013,117	993,810	1,019,306	1,709,484	844,296	865,188	54,785	29,274	25,512
New York	19,230,335	9,301,096	9,929,239	14,067,532	6,872,106	7,195,426	3,483,449	1,614,027	1,869,422
North Carolina	9,270,911	4,519,255	4,751,657	6,825,807	3,364,724	3,461,083	2,078,534	975,420	1,103,114
North Dakota	659,882	332,668	327,214	605,647	305,108	300,539	9,212	5,361	3,850
Ohio	11,512,787	5,617,405	5,895,383	9,780,960	4,789,349	4,991,612	1,486,973	709,548	777,425
Oklahoma	3,675,034	1,817,616	1,857,419	2,921,256	1,445,132	1,476,125	309,069	153,604	155,465
Oregon	3,761,796	1,862,295	1,899,501	3,427,609	1,697,180	1,730,429	89,225	47,575	41,650
Pennsylvania	12,614,322	6,140,216	6,474,106	10,747,092	5,244,693	5,502,399	1,468,010	701,369	766,641
Rhode Island	1,056,318	510,033	546,285	930,649	448,548	482,101	81,600	40,452	41,148
South Carolina	4,511,586	2,195,392	2,316,194	3,116,284	1,538,225	1,578,059	1,305,254	613,239	692,015
South Dakota	799,489	399,406	400,083	704,767	351,678	353,090	11,877	6,945	4,932
Tennessee	6,235,072	3,039,533	3,195,539	5,034,301	2,470,993	2,563,308	1,074,749	507,108	567,641
Texas	24,311,166	12,060,053	12,251,113	20,035,448	9,983,557	10,051,891	3,032,608	1,463,588	1,569,020
Utah	2,657,036	1,334,497	1,322,539	2,489,050	1,249,365	1,239,685	38,253	21,362	16,890
Vermont	624,250	307,384	316,866	605,101	297,887	307,213	7,754	4,241	3,513
Virginia	7,841,622	3,847,795	3,993,827	5,739,496	2,842,455	2,897,041	1,604,426	766,863	837,563
Washington	6,560,989	3,267,339	3,293,650	5,577,253	2,783,561	2,793,692	294,461	156,510	137,951
West Virginia	1,840,883	905,757	935,126	1,754,047	860,260	893,787	68,941	36,626	32,315
Wisconsin	5,638,070	2,797,069	2,841,001	5,057,645	2,511,691	2,545,954	381,772	187,393	194,379
Wyoming	545,598	277,841	267,757	518,568	264,044	254,524	6,636	3,805	2,831

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 2006-2010

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.	16,151,248	7,751,372	8,399,876	3,984,019	1,997,733	1,986,287	47,738,900	24,294,362	23,444,538
CHSDA counties ^b	-	-	-	2,090,310	1,037,842	1,052,468	-	-	-
Non-CHSDA counties ^b	-	-	-	1,893,709	959,891	933,819	-	-	-
Alabama	59,200	28,631	30,569	33,556	17,014	16,543	163,085	91,276	71,809
Alaska	46,648	22,227	24,421	117,962	59,601	58,361	37,363	19,224	18,139
Arizona	206,946	98,316	108,630	344,652	170,117	174,535	1,816,232	917,488	898,744
Arkansas	42,431	20,305	22,126	27,203	13,586	13,617	169,311	90,804	78,507
California	5,278,075	2,518,122	2,759,952	673,033	339,576	333,457	13,460,671	6,817,682	6,642,989
Colorado	159,683	74,106	85,577	84,211	42,600	41,611	984,907	504,468	480,439
Connecticut	141,208	69,056	72,152	18,463	9,261	9,202	447,213	223,804	223,409
Delaware	29,622	14,340	15,282	5,899	2,964	2,935	66,768	34,765	32,002
Dist. of Columbia	22,463	9,777	12,686	3,712	1,823	1,889	51,367	26,548	24,820
Florida	510,213	238,093	272,120	95,213	49,481	45,732	3,994,136	1,979,356	2,014,780
Georgia	325,748	158,640	167,109	48,349	25,359	22,989	787,157	430,016	357,141
Hawaii	965,551	468,349	497,202	5,851	3,102	2,749	110,999	56,188	54,811
Idaho	24,188	11,222	12,967	27,873	14,044	13,829	162,507	85,092	77,415
Illinois	611,274	296,546	314,728	77,096	39,254	37,841	1,939,969	1,006,517	933,451
Indiana	109,099	53,295	55,804	26,973	13,689	13,284	359,964	190,578	169,386
Iowa	55,313	27,423	27,890	14,417	7,203	7,214	138,239	73,307	64,932
Kansas	73,282	35,553	37,730	38,297	19,188	19,110	276,756	144,894	131,862
Kentucky	53,508	25,497	28,011	12,084	6,301	5,783	118,367	66,445	51,922
Louisiana	73,728	36,650	37,077	33,942	17,067	16,875	170,600	93,057	77,542
Maine	14,483	6,409	8,074	10,080	4,967	5,114	16,303	8,200	8,103
Maryland	331,226	158,147	173,079	32,926	16,799	16,127	428,513	224,817	203,696
Massachusetts	358,344	172,453	185,890	32,166	16,144	16,022	585,569	288,067	297,502
Michigan	260,082	127,305	132,777	82,854	40,825	42,028	421,063	215,552	205,511
Minnesota	218,638	106,697	111,941	75,182	37,604	37,578	233,045	123,620	109,425
Mississippi	28,432	13,562	14,870	16,694	8,372	8,322	74,236	43,376	30,860

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 2006-2010

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	109,131	52,032	57,099	37,400	18,772	18,628	196,265	102,424	93,841
Montana	7,773	3,341	4,431	67,273	33,379	33,893	27,219	13,815	13,404
Nebraska	35,481	17,130	18,351	24,224	12,178	12,046	153,141	81,169	71,972
Nevada	223,375	102,848	120,528	47,110	23,566	23,544	674,360	348,075	326,286
New Hampshire	29,791	14,266	15,524	4,531	2,317	2,215	34,905	17,582	17,323
New Jersey	734,761	358,841	375,920	51,666	26,473	25,193	1,469,046	741,280	727,766
New Mexico	35,566	16,478	19,088	213,281	103,763	109,518	916,945	454,806	462,139
New York	1,484,269	717,869	766,400	195,085	97,094	97,992	3,291,930	1,621,705	1,670,225
North Carolina	219,512	105,868	113,644	147,058	73,243	73,815	721,317	391,194	330,124
North Dakota	7,180	3,550	3,630	37,843	18,648	19,194	12,529	6,690	5,840
Ohio	207,318	99,832	107,486	37,536	18,676	18,860	329,769	170,286	159,483
Oklahoma	73,840	35,494	38,346	370,869	183,386	187,482	301,644	160,899	140,745
Oregon	168,707	79,043	89,664	76,254	38,497	37,757	419,342	221,262	198,081
Pennsylvania	356,679	172,953	183,726	42,541	21,201	21,340	656,172	335,565	320,607
Rhode Island	34,292	16,282	18,010	9,777	4,751	5,025	124,299	61,494	62,805
South Carolina	65,359	31,086	34,273	24,689	12,842	11,847	208,990	117,389	91,601
South Dakota	8,143	3,901	4,242	74,702	36,882	37,820	20,603	11,172	9,431
Tennessee	99,671	47,619	52,053	26,351	13,814	12,537	260,535	143,354	117,181
Texas	998,302	487,843	510,459	244,807	125,065	119,743	8,925,270	4,503,206	4,422,064
Utah	86,792	42,211	44,581	42,941	21,559	21,382	327,395	169,997	157,399
Vermont	8,353	3,729	4,624	3,042	1,527	1,515	8,823	4,415	4,408
Virginia	455,569	216,836	238,733	42,132	21,641	20,491	576,445	301,464	274,981
Washington	548,946	256,943	292,003	140,330	70,325	70,005	690,547	361,418	329,129
West Virginia	13,748	6,626	7,123	4,147	2,246	1,902	20,970	11,208	9,763
Wisconsin	134,041	65,673	68,368	64,611	32,312	32,300	310,344	163,372	146,972
Wyoming	5,264	2,358	2,906	15,131	7,635	7,496	45,754	23,982	21,773

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 2006-2010

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	36,635,055	18,221,219	18,413,837	28,014,801	14,047,018	13,967,783	2,669,147	1,316,503	1,352,644
Greater Bay Area	6,702,333	3,331,888	3,370,445	4,410,960	2,225,740	2,185,220	491,827	240,462	251,366
San Francisco-Oakland, SMSA	4,244,501	2,092,852	2,151,649	2,708,419	1,360,990	1,347,429	412,058	197,535	214,523
San Jose-Monterey	2,457,832	1,239,036	1,218,795	1,702,541	864,749	837,791	79,769	42,927	36,842
Los Angeles	9,757,527	4,811,590	4,945,937	7,172,711	3,588,465	3,584,246	974,125	457,990	516,135
Greater California	20,175,196	10,077,741	10,097,455	16,431,130	8,232,813	8,198,317	1,203,194	618,051	585,144
Connecticut	3,545,523	1,724,786	1,820,737	2,983,670	1,454,599	1,529,071	402,182	191,869	210,313
Metropolitan Detroit	3,908,765	1,890,241	2,018,524	2,721,557	1,337,268	1,384,289	1,016,357	468,778	547,579
Georgia	9,468,729	4,629,910	4,838,820	6,144,320	3,061,405	3,082,915	2,950,312	1,384,505	1,565,807
Metropolitan Atlanta	3,287,726	1,601,148	1,686,578	1,734,927	873,431	861,496	1,315,138	609,182	705,956
Rural Georgia	126,664	62,404	64,260	73,124	36,737	36,387	52,469	25,129	27,340
Greater Georgia	6,054,339	2,966,358	3,087,982	4,336,270	2,151,238	2,185,032	1,582,705	750,195	832,511
Hawaii	1,333,539	667,733	665,806	328,743	176,741	152,002	33,393	19,540	13,853
Iowa	3,016,332	1,490,924	1,525,409	2,847,293	1,404,152	1,443,141	99,310	52,147	47,163
Kentucky	4,286,017	2,106,148	2,179,870	3,867,723	1,900,074	1,967,650	352,702	174,276	178,426
Louisiana	4,430,165	2,164,736	2,265,429	2,885,283	1,427,059	1,458,224	1,437,213	683,960	753,252
New Jersey	8,721,170	4,244,718	4,476,452	6,619,912	3,239,314	3,380,598	1,314,830	620,090	694,740
New Mexico	2,013,117	993,810	1,019,306	1,709,484	844,296	865,188	54,785	29,274	25,512
Seattle-Puget Sound	4,483,706	2,231,988	2,251,719	3,654,312	1,825,917	1,828,395	254,660	134,127	120,534
Utah	2,657,036	1,334,497	1,322,539	2,489,050	1,249,365	1,239,685	38,253	21,362	16,890
9 SEER areas ^a	28,490,245	14,027,978	14,462,267	21,177,456	10,526,760	10,650,696	3,626,137	1,723,813	1,902,324
11 SEER areas ^a	40,705,604	20,078,605	20,626,999	30,052,708	14,979,975	15,072,733	4,680,031	2,224,730	2,455,301
13 SEER areas ^a	41,523,488	20,499,978	21,023,509	30,622,229	15,277,632	15,344,597	4,762,712	2,266,080	2,496,633
18 SEER areas ^a	85,190,375	42,059,678	43,130,697	64,762,547	32,228,128	32,534,418	10,653,356	5,112,651	5,540,705

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 2006-2010

By SEER Registry, Race/Ethnicity and Sex

Area	Asian/Pacific Islander			Hispanic ^a		
	Both Sexes	Males	Females	Both Sexes	Males	Females
California	5,278,075	2,518,122	2,759,952	13,460,671	6,817,682	6,642,989
Greater Bay Area	1,706,187	817,906	888,282	1,672,124	859,322	812,802
San Francisco-Oakland, SMSA	1,074,760	508,947	565,813	887,393	455,026	432,367
San Jose-Monterey	631,427	308,958	322,469	784,731	404,296	380,435
Los Angeles	1,455,104	686,401	768,702	4,599,260	2,301,679	2,297,582
Greater California	2,116,784	1,013,816	1,102,968	7,189,287	3,656,681	3,532,606
Connecticut	141,208	69,056	72,152	447,213	223,804	223,409
Metropolitan Detroit	150,609	74,528	76,082	151,035	77,052	73,983
Georgia	325,748	158,640	167,109	787,157	430,016	357,141
Metropolitan Atlanta	217,419	107,733	109,686	389,270	212,341	176,929
Rural Georgia	668	325	343	4,002	2,344	1,658
Greater Georgia	107,661	50,581	57,080	393,885	215,332	178,554
Hawaii	965,551	468,349	497,202	110,999	56,188	54,811
Iowa	55,313	27,423	27,890	138,239	73,307	64,932
Kentucky	53,508	25,497	28,011	118,367	66,445	51,922
Louisiana	73,728	36,650	37,077	170,600	93,057	77,542
New Jersey	734,761	358,841	375,920	1,469,046	741,280	727,766
New Mexico	35,566	16,478	19,088	916,945	454,806	462,139
Seattle-Puget Sound	488,897	229,005	259,891	362,305	190,964	171,341
Utah	86,792	42,211	44,581	327,395	169,997	157,399
9 SEER areas ^b	3,216,115	1,543,730	1,672,385	3,730,793	1,913,485	1,817,309
11 SEER areas ^b	5,302,646	2,539,090	2,763,556	9,114,784	4,619,459	4,495,325
13 SEER areas ^b	5,349,962	2,561,642	2,788,320	9,156,150	4,641,027	4,515,123
18 SEER areas ^b	8,436,403	4,047,028	4,389,375	18,497,335	9,413,822	9,083,513

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 2006-2010

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	117,962	59,601	58,361	117,962	59,601	58,361	0	0
California	673,033	339,576	333,457	279,843	140,378	139,465	393,190	199,198	193,992
Greater Bay Area	93,358	47,781	45,577	0	0	0	93,358	47,781	45,577
San Francisco- Oakland, SMSA	49,263	25,379	23,884	0	0	0	49,263	25,379	23,884
San Jose-Monterey	44,095	22,402	21,693	0	0	0	44,095	22,402	21,693
Los Angeles	155,587	78,733	76,854	0	0	0	155,587	78,733	76,854
Greater California	424,088	213,062	211,026	279,843	140,378	139,465	144,245	72,684	71,561
Connecticut	18,463	9,261	9,202	18,463	9,261	9,202	0	0	0
Metropolitan Detroit	20,242	9,667	10,575	0	0	0	20,242	9,667	10,575
Georgia	48,349	25,359	22,989	0	0	0	48,349	25,359	22,989
Metropolitan Atlanta	20,242	10,803	9,439	0	0	0	20,242	10,803	9,439
Rural Georgia	404	213	191	0	0	0	404	213	191
Greater Georgia	27,703	14,344	13,360	0	0	0	27,703	14,344	13,360
Hawaii	5,851	3,102	2,749	0	0	0	5,851	3,102	2,749
Iowa	14,417	7,203	7,214	5,041	2,461	2,580	9,376	4,742	4,634
Kentucky	12,084	6,301	5,783	0	0	0	12,084	6,301	5,783
Louisiana	33,942	17,067	16,875	3,893	1,918	1,974	30,049	15,148	14,900
New Jersey	51,666	26,473	25,193	0	0	0	51,666	26,473	25,193
New Mexico	213,281	103,763	109,518	202,137	98,103	104,034	11,144	5,660	5,485
Seattle-Puget Sound	85,837	42,938	42,899	85,837	42,938	42,899	0	0	0
Utah	42,941	21,559	21,382	22,275	10,985	11,290	20,666	10,573	10,092
9 SEER areas ^a	470,537	233,675	236,862	333,754	163,750	170,004	136,783	69,926	66,858
11 SEER areas ^a	670,219	334,810	335,409	333,754	163,750	170,004	336,466	171,061	165,405
13 SEER areas ^a	788,585	394,624	393,960	451,716	223,351	228,365	336,869	171,274	165,596
18 SEER areas ^a	1,338,069	671,871	666,198	735,451	365,647	369,804	602,618	306,224	296,394

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 1975-2009
By Registry, Sex, and Age

	Males				Females			
	All Ages	0-19	20-64	65+	All Ages	0-19	20-64	65+
<u>Followed Into 2009</u>								
Registry								
Standard 9 registries	98.95	94.97	98.34	99.50	97.81	93.61	96.58	99.09
San Francisco-Oakland	98.77	93.89	98.11	99.41	97.79	92.72	96.51	99.11
Connecticut	98.36	87.47	97.38	99.25	96.53	82.97	94.36	98.63
Metropolitan Detroit	98.93	96.44	98.25	99.51	97.69	95.74	96.10	99.25
Hawaii	98.59	99.15	97.75	99.16	97.09	97.88	95.61	98.83
Iowa	99.82	98.86	99.61	99.96	99.18	98.78	98.73	99.52
New Mexico	98.47	90.17	97.85	99.10	95.71	89.29	94.58	97.06
Seattle-Puget Sound	99.18	95.38	98.74	99.60	98.45	93.05	97.67	99.37
Utah	99.22	98.00	98.67	99.68	98.55	97.35	97.60	99.71
Metropolitan Atlanta	99.00	97.29	98.66	99.47	98.62	97.57	97.98	99.55
<u>Followed Into 2010</u>								
Registry								
Standard 9 registries	98.64	92.89	97.85	99.37	96.96	90.89	95.40	98.59
San Francisco-Oakland	98.57	91.95	97.82	99.32	97.43	90.55	95.97	98.96
Connecticut	97.81	85.93	96.42	99.01	95.56	81.35	92.70	98.24
Metropolitan Detroit	98.67	94.37	97.85	99.39	96.64	93.51	94.78	98.50
Hawaii	98.14	97.55	96.99	98.96	95.11	97.08	93.16	97.36
Iowa	99.69	98.51	99.30	99.94	98.70	98.24	97.87	99.29
New Mexico	98.10	89.01	97.31	98.87	94.71	87.60	93.39	96.28
Seattle-Puget Sound	98.87	91.89	98.29	99.48	97.20	86.79	96.24	98.43
Utah	98.79	93.32	98.08	99.56	97.64	91.16	96.33	99.52
Metropolitan Atlanta	98.73	96.23	98.23	99.40	98.23	96.77	97.36	99.49

^a Represents the percentage of first primaries diagnosed 1975-2009 and followed into the specified year.