

Table A.1

Number of Incidence Cases, 2004-2008

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

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	40,659	27,902	12,757	33,634	23,270	10,364	3,504	2,405	1,099
Esophagus	16,975	13,022	3,953	14,321	11,134	3,187	1,664	1,170	494
Stomach	28,959	17,538	11,421	20,759	12,839	7,920	3,621	2,093	1,528
Colon & Rectum	176,815	90,265	86,550	143,120	73,517	69,603	18,177	8,804	9,373
Colon	126,629	61,843	64,786	102,934	50,642	52,292	13,542	6,344	7,198
Rectum	50,186	28,422	21,764	40,186	22,875	17,311	4,635	2,460	2,175
Liver & IBD <sup>a</sup>	27,949	19,881	8,068	19,353	13,818	5,535	3,222	2,349	873
Pancreas	44,804	22,078	22,726	36,536	18,189	18,347	4,827	2,219	2,608
Larynx	12,903	10,290	2,613	10,628	8,461	2,167	1,762	1,394	368
Lung & Bronchus	228,955	121,024	107,931	192,081	100,078	92,003	22,736	12,778	9,958
Melanoma of the skin	79,221	45,507	33,714	74,670	43,181	31,489	328	149	179
Breast	256,664	1,981	254,683	211,026	1,642	209,384	23,914	224	23,690
Cervix uteri	15,953	-	15,953	12,123	-	12,123	2,054	-	2,054
Corpus & Uterus, NOS	49,723	-	49,723	41,435	-	41,435	3,991	-	3,991
Ovary <sup>b</sup>	26,550	-	26,550	22,399	-	22,399	1,923	-	1,923
Prostate	262,238	262,238	-	207,324	207,324	-	31,955	31,955	-
Testis	10,726	10,726	-	9,808	9,808	-	269	269	-
Urinary bladder	78,104	58,689	19,415	69,887	52,876	17,011	3,856	2,546	1,310
Kidney & Renal pelvis	55,465	34,441	21,024	46,405	28,905	17,500	5,568	3,386	2,182
Brain & ONS <sup>a</sup>	24,633	13,725	10,908	21,579	12,127	9,452	1,486	764	722
Thyroid	42,389	10,174	32,215	35,012	8,671	26,341	2,476	507	1,969
Hodgkin lymphoma	10,880	5,885	4,995	9,038	4,885	4,153	1,182	633	549
Non-Hodgkin lymphoma	74,569	40,282	34,287	63,444	34,287	29,157	5,183	2,797	2,386
Myeloma	21,504	11,841	9,663	16,325	9,224	7,101	3,712	1,853	1,859
Leukemia	46,877	26,742	20,135	39,833	22,864	16,969	3,294	1,800	1,494
Acute lymphocytic	6,373	3,611	2,762	5,350	3,032	2,318	432	256	176
Chronic lymphocytic	15,761	9,362	6,399	13,842	8,198	5,644	897	547	350
Acute myeloid	13,240	7,084	6,156	11,014	6,007	5,007	1,031	484	547
Chronic myeloid	5,833	3,383	2,450	4,784	2,786	1,998	513	278	235
All others	5,670	3,302	2,368	4,843	2,841	2,002	421	235	186
Kaposi Sarcoma	2,293	2,087	206	1,601	1,460	141	505	459	46
Mesothelioma	3,913	2,985	928	3,575	2,741	834	195	142	53
All Sites	1,751,864	902,099	849,765	1,448,932	745,245	703,687	161,703	85,304	76,399

Source: SEER 17 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 and New Jersey).

<sup>a</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.<sup>b</sup> 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, 2004-2008

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

Site	Asian/Pacific Islander			American Indian/Alaska Native <sup>a</sup>			Hispanic <sup>b</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	2,769	1,748	1,021	162	102	60	2,999	1,981	1,018
Esophagus	804	590	214	87	53	34	1,225	969	256
Stomach	4,166	2,360	1,806	213	132	81	4,967	2,814	2,153
Colon & Rectum	13,007	6,642	6,365	847	411	436	16,496	8,877	7,619
Colon	8,562	4,060	4,502	596	268	328	11,188	5,755	5,433
Rectum	4,445	2,582	1,863	251	143	108	5,308	3,122	2,186
Liver & IBD <sup>c</sup>	4,899	3,384	1,515	268	183	85	5,062	3,587	1,475
Pancreas	3,014	1,471	1,543	205	100	105	4,354	2,075	2,279
Larynx	371	321	50	37	27	-	1,030	883	147
Lung & Bronchus	12,429	7,281	5,148	836	423	413	12,658	6,905	5,753
Melanoma of the skin	492	243	249	87	38	49	2,451	1,037	1,414
Breast	18,338	89	18,249	977	-	971	25,053	129	24,924
Cervix uteri	1,438	-	1,438	106	-	106	3,819	-	3,819
Corpus & Uterus, NOS	3,596	-	3,596	213	-	213	5,079	-	5,079
Ovary <sup>d</sup>	1,923	-	1,923	127	-	127	3,121	-	3,121
Prostate	12,349	12,349	-	643	643	-	23,094	23,094	-
Testis	364	364	-	64	64	-	2,197	2,197	-
Urinary bladder	2,896	2,183	713	160	124	36	4,484	3,287	1,197
Kidney & Renal pelvis	2,611	1,610	1,001	383	221	162	6,814	4,104	2,710
Brain & ONS <sup>c</sup>	1,255	662	593	100	50	50	3,316	1,836	1,480
Thyroid	4,101	822	3,279	170	36	134	6,131	1,125	5,006
Hodgkin lymphoma	500	278	222	28	16	-	1,701	930	771
Non-Hodgkin lymphoma	4,418	2,402	2,016	244	127	117	8,204	4,420	3,784
Myeloma	1,100	580	520	92	46	46	2,311	1,218	1,093
Leukemia	2,490	1,352	1,138	185	101	84	6,017	3,370	2,647
Acute lymphocytic	485	269	216	40	23	17	2,301	1,283	1,018
Chronic lymphocytic	312	183	129	29	22	-	754	408	346
Acute myeloid	1,045	527	518	57	25	32	1,638	888	750
Chronic myeloid	355	219	136	33	17	16	728	430	298
All others	293	154	139	26	-	-	596	361	235
Kaposi Sarcoma	67	62	-	-	-	-	533	498	35
Mesothelioma	112	79	33	20	-	-	376	264	112
All Sites	106,280	50,068	56,212	6,785	3,164	3,621	166,328	81,439	84,889

Source: SEER 17 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 and New Jersey).

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

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

<sup>c</sup> Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.

<sup>d</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

<sup>e</sup> 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, 2004-2008

By Primary Cancer Site, Race and Sex  
17 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	0.10	0.05	0.06	0.11	0.06	0.17	0.34	0.17
Esophagus	0.03	0.07	0.03	0.04	0.08	0.03	0.13	0.27	0.12
Stomach	0.05	0.08	0.05	0.05	0.09	0.05	0.20	0.40	0.22
Colon & Rectum	0.11	0.19	0.14	0.12	0.20	0.15	0.44	0.77	0.54
Colon	0.10	0.16	0.12	0.11	0.17	0.13	0.39	0.68	0.47
Rectum	0.06	0.10	0.07	0.07	0.11	0.08	0.21	0.38	0.25
Liver & IBD <sup>a</sup>	0.04	0.08	0.04	0.04	0.08	0.04	0.17	0.33	0.16
Pancreas	0.06	0.09	0.07	0.06	0.10	0.08	0.23	0.39	0.29
Larynx	0.03	0.06	0.03	0.03	0.07	0.03	0.13	0.28	0.10
Lung & Bronchus	0.13	0.22	0.16	0.15	0.24	0.18	0.50	0.94	0.56
Melanoma of the skin	0.07	0.13	0.09	0.09	0.15	0.11	0.06	0.10	0.07
Breast	0.13	0.03	0.25	0.15	0.03	0.28	0.46	0.12	0.79
Cervix uteri	0.03	-	0.06	0.04	-	0.07	0.13	-	0.22
Corpus & Uterus, NOS	0.06	-	0.11	0.07	-	0.12	0.19	-	0.33
Ovary <sup>b</sup>	0.04	-	0.08	0.05	-	0.09	0.14	-	0.23
Prostate	0.14	0.31	-	0.15	0.33	-	0.56	1.38	-
Testis	0.03	0.05	-	0.03	0.07	-	0.04	0.08	-
Urinary bladder	0.08	0.16	0.07	0.09	0.18	0.08	0.22	0.46	0.21
Kidney & Renal pelvis	0.06	0.11	0.07	0.07	0.12	0.08	0.23	0.43	0.25
Brain & ONS <sup>a</sup>	0.04	0.07	0.05	0.05	0.08	0.06	0.11	0.18	0.13
Thyroid	0.05	0.06	0.09	0.06	0.06	0.11	0.13	0.15	0.21
Hodgkin lymphoma	0.03	0.04	0.04	0.03	0.05	0.04	0.08	0.13	0.11
Non-Hodgkin lymphoma	0.07	0.12	0.09	0.08	0.14	0.10	0.21	0.36	0.26
Myeloma	0.04	0.07	0.05	0.04	0.07	0.05	0.20	0.36	0.24
Leukemia	0.06	0.10	0.07	0.07	0.11	0.08	0.18	0.34	0.21
Acute lymphocytic	0.02	0.03	0.03	0.02	0.04	0.03	0.05	0.08	0.06
Chronic lymphocytic	0.03	0.06	0.04	0.04	0.07	0.04	0.10	0.21	0.11
Acute myeloid	0.03	0.05	0.04	0.03	0.06	0.04	0.10	0.17	0.12
Chronic myeloid	0.02	0.04	0.02	0.02	0.04	0.03	0.07	0.13	0.08
All others	0.02	0.04	0.02	0.02	0.04	0.03	0.07	0.13	0.07
Kaposi Sarcoma	0.01	0.03	0.01	0.01	0.03	0.01	0.06	0.11	0.03
Mesothelioma	0.02	0.04	0.01	0.02	0.04	0.02	0.05	0.11	0.04
All Sites	0.35	0.58	0.45	0.39	0.64	0.51	1.26	2.29	1.47

Source: SEER 17 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 and New Jersey).

<sup>a</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.

<sup>b</sup> Ovary excludes borderline cases or histologies 8442, 8451, 8462, 8472, and 8473.

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

Site	Asian/Pacific Islander			American Indian/Alaska Native <sup>a</sup>			Hispanic <sup>b</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.15	0.27	0.17	0.57	0.95	0.68	0.12	0.22	0.13
Esophagus	0.09	0.18	0.08	0.50	0.86	0.57	0.09	0.18	0.07
Stomach	0.20	0.36	0.24	0.77	1.39	0.86	0.17	0.31	0.20
Colon & Rectum	0.35	0.57	0.44	1.50	2.27	1.98	0.31	0.53	0.38
Colon	0.29	0.46	0.37	1.29	1.89	1.76	0.26	0.44	0.33
Rectum	0.20	0.34	0.23	0.76	1.26	0.92	0.17	0.30	0.19
Liver & IBD <sup>c</sup>	0.21	0.39	0.22	0.79	1.39	0.87	0.16	0.30	0.17
Pancreas	0.18	0.28	0.22	0.78	1.24	1.01	0.17	0.27	0.22
Larynx	0.06	0.13	0.04	0.30	0.58	-	0.08	0.17	0.05
Lung & Bronchus	0.35	0.64	0.40	1.60	2.65	2.00	0.30	0.53	0.35
Melanoma of the skin	0.06	0.10	0.08	0.43	0.69	0.55	0.10	0.17	0.14
Breast	0.38	0.06	0.70	1.42	-	2.57	0.33	0.06	0.60
Cervix uteri	0.11	-	0.19	0.41	-	0.77	0.11	-	0.21
Corpus & Uterus, NOS	0.17	-	0.31	0.64	-	1.18	0.15	-	0.27
Ovary <sup>d</sup>	0.12	-	0.23	0.55	-	0.97	0.12	-	0.22
Prostate	0.35	0.81	-	1.36	3.19	-	0.38	0.89	-
Testis	0.05	0.10	-	0.24	0.48	-	0.05	0.10	-
Urinary bladder	0.17	0.36	0.15	0.69	1.35	0.62	0.18	0.37	0.16
Kidney & Renal pelvis	0.15	0.27	0.17	0.95	1.62	1.13	0.19	0.33	0.21
Brain & ONS <sup>c</sup>	0.10	0.16	0.13	0.39	0.57	0.54	0.10	0.17	0.13
Thyroid	0.17	0.17	0.29	0.51	0.58	0.84	0.13	0.13	0.22
Hodgkin lymphoma	0.06	0.09	0.08	0.18	0.25	-	0.07	0.11	0.08
Non-Hodgkin lymphoma	0.20	0.34	0.24	0.78	1.27	0.99	0.20	0.33	0.26
Myeloma	0.10	0.18	0.13	0.49	0.79	0.65	0.12	0.20	0.15
Leukemia	0.15	0.25	0.18	0.61	1.03	0.75	0.14	0.25	0.18
Acute lymphocytic	0.06	0.09	0.08	0.19	0.30	0.24	0.06	0.08	0.08
Chronic lymphocytic	0.06	0.10	0.06	0.29	0.59	-	0.07	0.13	0.09
Acute myeloid	0.10	0.16	0.12	0.35	0.49	0.49	0.08	0.14	0.10
Chronic myeloid	0.06	0.10	0.06	0.26	0.47	0.32	0.05	0.10	0.06
All others	0.05	0.09	0.06	0.24	-	-	0.05	0.10	0.06
Kaposi Sarcoma	0.02	0.05	-	-	-	-	0.04	0.08	0.03
Mesothelioma	0.03	0.07	0.03	0.25	-	-	0.05	0.10	0.05
All Sites	0.98	1.59	1.26	4.10	6.53	5.33	0.93	1.56	1.16

Source: SEER 17 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 and New Jersey).

<sup>a</sup> Incidence data for American Indian/Alaska Native are based on the CHSDA (Contract Health Service Delivery Area) counties.<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.<sup>c</sup> Incidence data for Hispanics are based on NHIA and exclude cases from the Alaska Native Registry.<sup>d</sup> IBD = Intrahepatic Bile Duct. ONS = Other Nervous System.<sup>d</sup> 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, 2004-2008

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	39,405	26,849	12,556	32,703	21,944	10,759	5,308	3,965	1,343
Esophagus	67,513	53,011	14,502	58,889	46,792	12,097	7,332	5,251	2,081
Stomach	57,458	33,855	23,603	43,380	25,704	17,676	9,978	5,834	4,144
Colon & Rectum	265,857	134,400	131,457	224,587	113,839	110,748	34,053	16,859	17,194
Liver & IBD <sup>a</sup>	83,280	54,784	28,496	65,939	42,906	23,033	11,048	7,687	3,361
Pancreas	167,335	83,129	84,206	143,215	71,841	71,374	19,502	9,048	10,454
Larynx	18,679	14,747	3,932	15,131	11,859	3,272	3,257	2,643	614
Lung & Bronchus	793,097	445,827	347,270	693,818	386,660	307,158	82,225	49,149	33,076
Melanoma of the skin	41,822	27,063	14,759	40,905	26,612	14,293	625	296	329
Breast	206,011	1,934	204,077	172,101	1,604	170,497	28,986	300	28,686
Cervix uteri	19,779	-	19,779	14,950	-	14,950	3,960	-	3,960
Corpus & Uterus, NOS	36,601	-	36,601	29,547	-	29,547	6,115	-	6,115
Ovary	73,343	-	73,343	65,433	-	65,433	6,018	-	6,018
Prostate	143,843	143,843	-	117,553	117,553	-	23,831	23,831	-
Testis	1,758	1,758	-	1,569	1,569	-	126	126	-
Urinary bladder	67,636	47,032	20,604	61,816	43,722	18,094	4,865	2,663	2,202
Kidney & Renal pelvis	62,807	39,292	23,515	55,534	34,775	20,759	5,809	3,579	2,230
Brain & ONS <sup>a</sup>	65,825	36,590	29,235	60,467	33,681	26,786	3,954	2,117	1,837
Thyroid	7,600	3,200	4,400	6,541	2,864	3,677	668	200	468
Hodgkin lymphoma	6,317	3,529	2,788	5,520	3,075	2,445	666	376	290
Non-Hodgkin lymphoma	103,300	55,126	48,174	93,697	49,957	43,740	7,031	3,777	3,254
Myeloma	53,526	28,453	25,073	43,285	23,419	19,866	9,098	4,421	4,677
Leukemia	109,563	61,942	47,621	97,872	55,588	42,284	9,195	4,943	4,252
Acute lymphocytic	7,066	3,972	3,094	6,202	3,463	2,739	594	357	237
Chronic lymphocytic	22,097	13,113	8,984	20,076	11,885	8,191	1,840	1,110	730
Acute myeloid	42,550	23,718	18,832	38,035	21,425	16,610	3,307	1,622	1,685
Chronic myeloid	5,292	2,954	2,338	4,553	2,524	2,029	609	344	265
All others	32,558	18,185	14,373	29,006	16,291	12,715	2,845	1,510	1,335
All Sites	2,801,390	1,455,411	1,345,979	2,412,645	1,254,405	1,158,240	316,736	163,805	152,931

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

<sup>a</sup> 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, 2004-2008

By Primary Cancer Site, Race and Sex  
United States

Site	Asian/Pacific Islander			American Indian/Alaska Native <sup>a</sup>			Hispanic <sup>b</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	1,180	784	396	135	98	37	1,707	1,253	454
Esophagus	984	729	255	213	167	46	2,484	2,008	476
Stomach	3,692	2,063	1,629	329	205	124	6,611	3,783	2,828
Colon & Rectum	5,963	3,027	2,936	901	479	422	13,443	7,274	6,169
Liver & IBD <sup>c</sup>	5,595	3,750	1,845	511	314	197	9,154	6,072	3,082
Pancreas	3,935	1,899	2,036	502	252	250	8,755	4,397	4,358
Larynx	198	170	28	58	49	-	907	814	93
Lung & Bronchus	13,645	8,152	5,493	2,228	1,197	1,031	22,451	14,138	8,313
Melanoma of the skin	205	104	101	63	38	25	889	522	367
Breast	4,085	24	4,061	572	-	567	10,170	60	10,110
Cervix uteri	697	-	697	123	-	123	2,286	-	2,286
Corpus & Uterus, NOS	802	-	802	98	-	98	1,970	-	1,970
Ovary	1,596	-	1,596	212	-	212	3,735	-	3,735
Prostate	1,905	1,905	-	372	372	-	6,773	6,773	-
Testis	51	51	-	-	-	-	296	296	-
Urinary bladder	789	536	253	105	75	30	2,201	1,507	694
Kidney & Renal pelvis	990	626	364	353	223	130	3,981	2,561	1,420
Brain & ONS <sup>c</sup>	1,179	661	518	152	90	62	3,838	2,099	1,739
Thyroid	360	121	239	23	-	-	646	265	381
Hodgkin lymphoma	112	62	50	-	-	-	566	325	241
Non-Hodgkin lymphoma	2,210	1,206	1,004	258	125	133	5,748	3,145	2,603
Myeloma	891	469	422	175	98	77	2,953	1,530	1,423
Leukemia	2,111	1,190	921	286	171	115	6,319	3,578	2,741
Acute lymphocytic	218	120	98	40	23	17	1,410	793	617
Chronic lymphocytic	122	84	38	38	24	-	478	277	201
Acute myeloid	1,063	586	477	111	68	43	2,268	1,267	1,001
Chronic myeloid	100	65	35	23	16	-	343	197	146
All others	608	335	273	74	40	34	1,820	1,044	776
All Sites	59,417	30,649	28,768	8,819	4,524	4,295	133,709	70,473	63,236

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

<sup>a</sup> Mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.<sup>b</sup> 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 and North Dakota.

<sup>c</sup> 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, 2004-2008  
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	0.15	0.08
Colon & Rectum	0.03	0.06	0.04	0.04	0.06	0.04	0.13	0.25	0.16
Liver & IBD <sup>a</sup>	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	0.08	0.20	0.41	0.22
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	0.06	-	0.09
Prostate	0.02	0.06	-	0.03	0.07	-	0.12	0.37	-
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 <sup>a</sup>	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	0.07
Myeloma	0.02	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	0.08
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	0.01	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	0.19	0.13	0.12	0.20	0.14	0.40	0.78	0.46

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

<sup>a</sup> 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, 2004-2008

By Primary Cancer Site, Race and Sex  
United States

Site	Asian/Pacific Islander			American Indian/Alaska Native <sup>a</sup>			Hispanic <sup>b</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.06	0.11	0.06	0.21	0.42	0.21	0.04	0.07	0.04
Esophagus	0.06	0.12	0.06	0.27	0.56	0.23	0.05	0.10	0.04
Stomach	0.12	0.21	0.14	0.34	0.64	0.36	0.08	0.14	0.09
Colon & Rectum	0.15	0.25	0.19	0.57	0.98	0.70	0.11	0.19	0.13
Liver & IBD <sup>c</sup>	0.14	0.25	0.15	0.42	0.73	0.49	0.09	0.16	0.10
Pancreas	0.12	0.20	0.16	0.43	0.72	0.54	0.09	0.15	0.12
Larynx	0.03	0.06	0.02	0.14	0.31	-	0.03	0.07	0.02
Lung & Bronchus	0.23	0.42	0.25	0.90	1.56	1.08	0.15	0.28	0.16
Melanoma of the skin	0.03	0.04	0.03	0.14	0.26	0.16	0.03	0.05	0.03
Breast	0.11	0.02	0.19	0.43	-	0.74	0.09	0.02	0.15
Cervix uteri	0.04	-	0.08	0.18	-	0.32	0.04	-	0.07
Corpus & Uterus, NOS	0.05	-	0.09	0.18	-	0.32	0.04	-	0.07
Ovary	0.07	-	0.13	0.27	-	0.47	0.06	-	0.10
Prostate	0.10	0.25	-	0.44	1.14	-	0.09	0.23	-
Testis	0.01	0.02	-	-	-	-	0.01	0.02	-
Urinary bladder	0.06	0.12	0.06	0.21	0.44	0.20	0.05	0.10	0.05
Kidney & Renal pelvis	0.06	0.11	0.07	0.34	0.64	0.37	0.06	0.11	0.06
Brain & ONS <sup>c</sup>	0.06	0.10	0.07	0.20	0.34	0.25	0.05	0.08	0.06
Thyroid	0.04	0.05	0.05	0.10	-	-	0.02	0.04	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	0.31	0.50	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	0.07
Leukemia	0.09	0.15	0.10	0.31	0.54	0.35	0.07	0.12	0.08
Acute lymphocytic	0.02	0.04	0.03	0.07	0.12	0.10	0.02	0.03	0.03
Chronic lymphocytic	0.02	0.05	0.02	0.14	0.26	-	0.02	0.04	0.03
Acute myeloid	0.06	0.11	0.07	0.19	0.34	0.21	0.04	0.07	0.05
Chronic myeloid	0.02	0.03	0.02	0.09	0.15	-	0.02	0.03	0.02
All others	0.05	0.09	0.06	0.16	0.27	0.20	0.04	0.07	0.04
All Sites	0.47	0.81	0.56	1.78	3.07	2.17	0.35	0.60	0.41

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

<sup>a</sup> Mortality data for American Indian/Alaska Native are based on the CHSDA(Contract Health Service Delivery Area) counties.<sup>b</sup> 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 and North Dakota.

<sup>c</sup> 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
<b>Oral Cavity and Pharynx</b>			
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 <sup>+</sup>	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
<b>Digestive System</b>			
Esophagus	C150-C159	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	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 <sup>+</sup>	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 <sup>+</sup>	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 <sup>+</sup>	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
<b>Respiratory System</b>			
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 <sup>+</sup>	22030
Pleura	C384		22050
Trachea, Mediastinum and Other Respiratory Organs	C339, C381-C383, C388 C390, C398, C399		22060
<b>Bones and Joints</b>	C400-C419	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	23000
<b>Soft Tissue including Heart</b>	C380, C470-C479, C490-C499	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	24000
<b>Skin excluding Basal and Squamous</b>			
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 <sup>+</sup>	25020
<b>Breast</b>	C500-C509	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	26000
<b>Female Genital System</b>			
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 <sup>+</sup>	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
<b>Male Genital System</b>			
Prostate	C619		28010
Testis	C620-C629	excluding 9590-9989, and	28020
Penis	C600-C609	sometimes 9050-9055, 9140 <sup>+</sup>	28030
Other Male Genital Organs	C630-C639		28040
<b>Urinary System</b>			
Urinary Bladder	C670-C679		29010
Kidney and Renal Pelvis	C649, C659	excluding 9590-9989, and	29020
Ureter	C669	sometimes 9050-9055, 9140 <sup>+</sup>	29030
Other Urinary Organs	C680-C689		29040
<b>Eye and Orbit</b>	C690-C699	excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	30000
<b>Brain and Other Nervous System</b>			
Brain	C710-C719	excluding 9530-9539, 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	31010
Cranial Nerves Other Nervous System	C710-C719 C700-C709, C720-C729	9530-9539 excluding 9590-9989, and sometimes 9050-9055, 9140 <sup>+</sup>	31040
<b>Endocrine System</b>			
Thyroid	C739	excluding 9590-9989, and	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759	sometimes 9050-9055, 9140 <sup>+</sup>	32020
<b>Lymphoma</b>			
<b>Hodgkin Lymphoma</b>			
Hodgkin - Nodal	C024, C098-C099, C111, C142, C379, C422, C770-C779	9650-9667	33011
Hodgkin - Extranodal	All other sites		33012
<b>Non-Hodgkin Lymphoma</b>			
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	
<b>Myeloma</b>		9731-9732, 9734	34000
<b>Leukemia</b>			
<b>Lymphocytic Leukemia</b>			
Acute Lymphocytic Leukemia		9826, 9835-9837	35011
Chronic Lymphocytic Leukemia	C420-C421, C424	9823	35012
Other Lymphocytic Leukemia		9820, 9832-9834, 9940	35013
<b>Myeloid and Monocytic Leukemia</b>			
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
<b>Other Leukemia</b>			
Other Acute Leukemia		9801, 9805, 9931	35041
Aleukemic, Subleukemic and NOS		9733, 9742, 9800, 9831, 9870, 9948, 9963, 9964	35043
	C420, C421, C424	9827	
<b>Mesothelioma</b> <sup>+</sup>		9050-9055	36010
<b>Kaposi Sarcoma</b> <sup>+</sup>		9140	36020
<b>Miscellaneous</b>		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 <sup>+</sup>	
<b>Invalid</b>	Site or histology code not within valid range or site code not found in this table		99999

<sup>+</sup> 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)<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>I. Leukemias, myeloproliferative diseases, and myelodysplastic diseases</b>		
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	
<b>II. Lymphomas and reticuloendothelial neoplasms</b>		
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	
<b>III. CNS and miscellaneous intracranial and intraspinal neoplasms</b>		
a. Ependymomas and choroid plexus tumor	9383, 9390-9394 <sup>b</sup>	
b. Astrocytomas	9380 <sup>b</sup>	C72.3
	9384, 9400-9411, 9420, 9421-9424, 9440-9442 <sup>b</sup>	
c. Intracranial and intraspinal embryonal tumors	9470-9474, 9480, 9508 <sup>b</sup>	C70.0-C72.9
d. Other gliomas	9501-9504 <sup>b</sup>	C70.0-C72.2, C72.4-C72.9, C75.1, C75.3
	9381, 9382, 9430, 9444, 9450, 9451, 9460 <sup>b</sup>	
e. Other specified intracranial and intraspinal neoplasms	8270-8281, 8300, 9350-9352, 9360-9362, 9412, 9413, 9492, 9493, 9505-9507, 9530-9539, 9582 <sup>b</sup>	
f. Unspecified intracranial and intraspinal neoplasms	8000-8005 <sup>b</sup>	C70.0-C72.9, C75.1-C75.3
<b>IV. Neuroblastoma and other peripheral nervous cell tumors</b>		
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
<b>V. Retinoblastoma</b>	9510-9514	
<b>VI. Renal tumors</b>		
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
<b>VII. Hepatic tumors</b>		
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

<sup>a</sup> 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.

<sup>b</sup> 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)<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>VIII. Malignant bone tumors</b>		
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
<b>IX. Soft tissue and &lt;STYLE&gt; other extraosseous sarcomas</b>		
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
<b>X. Germ cell tumors, trophoblastic tumors, and neoplasms of gonads</b>		
a. Intracranial and intraspinal germ cell tumors	9060-9065, 9070-9072, 9080-9085, 9100, 9101 <sup>b</sup>	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

<sup>a</sup> 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.

<sup>b</sup> 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)<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>XI. Other malignant epithelial neoplasms and malignant melanomas</b>		
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
<b>XII. Other and unspecified malignant neoplasms</b>		
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

<sup>a</sup> 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.

<sup>b</sup> 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<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>1. Leukemias</b>		
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	
<b>2. Lymphomas</b>		
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	
<b>3. CNS and Other Intracranial and Intraspinial Neoplasms</b>		
<b>3.1 Astrocytoma</b>		
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
<b>3.3 Ependymoma</b>		
3.4 Medulloblastoma and other PNET	9391-9394	
<b>3.4.1 Medulloblastoma</b>		
3.4.2 Supratentorial PNET	9470-9474	C71.6
<b>3.5 Other specified intracranial intraspinal neoplasms</b>		
	9350-9351, 9360-9362, 9390, 9480, 9530-9535, 9537-9539, 9541, 9550, 9562, 9570	C00.0-C69.9, C73.0-C75.0, C75.4-C80.9
	9161, 9361-9362, 9390, 9530-9531, 9535, 9538, 9540, 9560, 9571	C70.0-C72.9, C75.1-C75.3
	9532, 9534, 9537, 9539	C70.0
	9360	C75.3
	9480, 9539	C71.1
	9480, 9533	C71.3
	9350	C71.9
	9480	C71.4, C71.7
	9539	C70.9
3.6 Unspecified intracranial and intraspinal neoplasms	8000-8005	C70.0-C72.9, C75.1-C75.3
<b>4. Osseous &amp; Chondromatous Neoplasms</b>		
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
<b>5. Soft Tissue Sarcomas</b>		
5.1 Fibromatous neoplasms	8810-8811, 8813-8815, 8820-8824, 8830, 8832-8833, 8835-8836, 9252	
5.2 Rhabdomyosarcoma	8900-8904, 8910, 8912, 8920-8921, 8991	
<b>5.3 Other specified soft tissue sarcoma</b>		
<b>5.3.1 Specified soft tissue sarcoma</b>		
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

<sup>a</sup> 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<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>6. Germ Cell and Trophoblastic Neoplasms</b>		
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
<b>7. Melanoma and Skin Carcinomas</b>		
7.1 Melanoma	8720-8723, 8726, 8728, 8730, 8740-8746, 8761, 8770-8774, 8780	
7.2 Skin carcinomas	8010-8589	C44.0-C44.9
<b>8. Carcinomas</b>		
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

<sup>a</sup> 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<sup>a</sup> Definition

Site Group	ICD-0-3 Morphology	ICD-0-3 Topography
<b>9. Miscellaneous specified neoplasms, NOS</b>		
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 <sup>b</sup>	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
<b>10. Unspecified Malignant Neoplasms</b>	8000-8005	C00.0-C39.9, C42.0-C69.9, C73.0-C75.0, C75.2, C75.4-C80.9

<sup>a</sup> 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).

<sup>b</sup> 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+) #
<b>All Malignant Cancers</b>	140-208, 238.6	C00-C97
<b>Oral Cavity and Pharynx</b>		
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
<b>Digestive System</b>		
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 <sup>+</sup> , C48.1-C48.2
Other Digestive Organs	159.8-159.9	C26.8-C26.9, C48.8
<b>Respiratory System</b>		
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 <sup>+</sup>
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
<b>Bones and Joints</b>	170	C40-C41
<b>Soft Tissue including Heart</b> §	164.1, 171	C47, C49, C38.0, C45.2 <sup>+</sup>
<b>Skin excluding Basal and Squamous</b>		
Melanoma of the Skin	172	C43
Other Non-Epithelial Skin	173	C44, C46 <sup>+</sup>
<b>Breast</b>	174-175	C50
<b>Female Genital System</b>		
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
<b>Male Genital System</b>		
Prostate	185	C61
Testis	186	C62
Penis	187.1-187.4	C60
Other Male Genital Organs	187.5-187.9	C63
<b>Urinary System</b>		
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
<b>Eye and Orbit</b>	190	C69
<b>Brain and Other Nervous System</b>	191, 192	C70, C71, C72
<b>Endocrine System</b>		
Thyroid	193	C73
Other Endocrine including Thymus <sup>§</sup>	164.0, 194	C37, C74-C75
<b>Lymphoma</b>		
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+) #
<b>Myeloma</b>	203.0, 238.6	C90.0, C90.2
<b>Leukemia</b>		
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
<b>Mesothelioma (ICD-10 only) *</b>	N/A	C45*
<b>Kaposi Sarcoma (ICD-10 only) *</b>	N/A	C46*
<b>Miscellaneous</b>	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 2004-2008

## 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.	298,669,369	147,089,094	151,580,274	241,438,957	119,573,645	121,865,312	39,480,169	18,849,283	20,630,886
Alabama	4,593,315	2,223,341	2,369,974	3,300,175	1,619,688	1,680,487	1,218,932	567,488	651,444
Alaska	675,761	351,563	324,197	492,032	259,190	232,842	32,135	17,057	15,077
Arizona	6,157,595	3,083,358	3,074,237	5,397,000	2,706,691	2,690,309	267,204	137,769	129,435
Arkansas	2,809,487	1,375,468	1,434,020	2,300,331	1,133,871	1,166,460	450,111	213,063	237,048
California	36,027,875	18,007,096	18,020,779	28,138,554	14,168,679	13,969,875	2,593,046	1,275,488	1,317,558
Colorado	4,758,195	2,395,351	2,362,845	4,325,601	2,178,141	2,147,460	223,292	115,970	107,322
Connecticut	3,485,751	1,698,339	1,787,412	2,976,778	1,451,766	1,525,012	371,677	178,268	193,409
Delaware	852,135	413,708	438,427	642,719	314,283	328,436	180,668	85,217	95,451
Dist. of Columbia	584,461	275,406	309,055	224,493	112,996	111,497	338,357	152,669	185,688
Florida	17,989,880	8,835,614	9,154,266	14,544,280	7,173,306	7,370,974	2,898,206	1,399,555	1,498,651
Georgia	9,314,558	4,578,174	4,736,384	6,194,784	3,099,900	3,094,883	2,806,626	1,321,835	1,484,792
Hawaii	1,271,762	641,493	630,269	313,560	168,708	144,852	43,373	24,781	18,591
Idaho	1,461,749	734,505	727,244	1,401,591	704,530	697,061	15,185	8,177	7,007
Illinois	12,732,026	6,262,495	6,469,531	10,167,223	5,043,083	5,124,141	1,958,155	920,616	1,037,538
Indiana	6,300,739	3,101,115	3,199,624	5,599,034	2,761,244	2,837,790	587,624	282,739	304,885
Iowa	2,965,581	1,461,762	1,503,819	2,818,280	1,387,187	1,431,093	85,491	44,222	41,269
Kansas	2,760,239	1,367,671	1,392,568	2,482,146	1,227,994	1,254,151	179,812	90,698	89,114
Kentucky	4,218,769	2,068,296	2,150,473	3,824,387	1,874,137	1,950,250	337,018	165,746	171,273
Louisiana	4,383,079	2,129,394	2,253,686	2,868,369	1,411,090	1,457,279	1,418,350	670,347	748,002
Maine	1,314,369	641,599	672,771	1,277,091	622,829	654,262	15,432	8,671	6,760
Maryland	5,606,054	2,713,325	2,892,729	3,617,775	1,778,577	1,839,198	1,674,380	783,251	891,129
Massachusetts	6,482,716	3,142,980	3,339,736	5,663,017	2,742,673	2,920,344	473,768	231,212	242,556
Michigan	10,063,126	4,949,592	5,113,534	8,258,754	4,085,922	4,172,832	1,480,717	701,845	778,871
Minnesota	5,151,205	2,560,388	2,590,816	4,638,146	2,299,496	2,338,650	249,318	129,920	119,399
Mississippi	2,903,687	1,406,563	1,497,124	1,783,365	878,381	904,984	1,079,090	508,226	570,864

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 2004-2008

## By State, Race/Ethnicity and Sex

State	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Missouri	5,858,563	2,859,066	2,999,497	5,035,606	2,469,674	2,565,931	693,477	326,259	367,219
Montana	946,436	473,324	473,112	867,011	433,792	433,219	7,549	4,206	3,343
Nebraska	1,761,240	872,381	888,859	1,625,450	804,838	820,612	84,695	42,483	42,211
Nevada	2,482,887	1,263,757	1,219,130	2,053,352	1,055,618	997,734	211,244	105,702	105,542
New Hampshire	1,309,058	645,206	663,852	1,261,015	620,492	640,522	18,147	9,765	8,382
New Jersey	8,631,306	4,218,438	4,412,868	6,659,947	3,265,557	3,394,390	1,283,585	611,104	672,481
New Mexico	1,941,294	959,414	981,880	1,649,829	816,456	833,374	60,635	31,631	29,005
New York	19,375,191	9,391,691	9,983,500	14,439,451	7,054,821	7,384,630	3,449,331	1,604,643	1,844,688
North Carolina	8,875,784	4,341,526	4,534,258	6,624,233	3,277,062	3,347,171	1,953,244	917,843	1,035,401
North Dakota	637,612	319,984	317,629	588,455	295,103	293,352	7,713	4,469	3,244
Ohio	11,496,247	5,602,624	5,893,623	9,846,541	4,814,255	5,032,286	1,428,509	679,640	748,869
Oklahoma	3,575,553	1,764,053	1,811,499	2,884,212	1,422,812	1,461,400	300,534	149,057	151,478
Oregon	3,676,973	1,823,018	1,853,955	3,374,215	1,673,055	1,701,160	84,976	44,767	40,209
Pennsylvania	12,473,314	6,060,229	6,413,085	10,758,437	5,238,197	5,520,240	1,380,009	657,215	722,794
Rhode Island	1,061,022	513,697	547,325	949,671	458,511	491,160	72,389	36,302	36,087
South Carolina	4,344,883	2,115,173	2,229,711	3,002,860	1,483,392	1,519,467	1,264,693	594,099	670,594
South Dakota	788,891	393,228	395,662	701,933	349,568	352,365	9,996	5,783	4,213
Tennessee	6,083,056	2,965,480	3,117,576	4,935,631	2,423,089	2,512,542	1,039,453	489,262	550,191
Texas	23,345,621	11,635,549	11,710,072	19,477,926	9,752,900	9,725,026	2,832,805	1,368,088	1,464,718
Utah	2,582,683	1,298,054	1,284,629	2,430,500	1,221,730	1,208,770	36,532	19,845	16,687
Vermont	619,691	304,755	314,936	603,268	296,616	306,651	6,176	3,356	2,820
Virginia	7,638,994	3,749,739	3,889,255	5,665,450	2,803,344	2,862,106	1,557,145	745,168	811,977
Washington	6,369,773	3,172,858	3,196,915	5,487,397	2,737,816	2,749,581	273,394	144,576	128,818
West Virginia	1,808,106	884,579	923,527	1,724,408	842,098	882,310	66,759	34,089	32,670
Wisconsin	5,570,738	2,764,593	2,806,145	5,035,456	2,501,624	2,533,832	355,436	173,420	182,016
Wyoming	515,693	261,425	254,268	489,877	248,299	241,579	7,326	4,019	3,307

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 2004-2008

## By State, Race/Ethnicity and Sex

State	Asian/Pacific Islander			American Indian/Alaska Native			Hispanic <sup>a</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Total U.S.	14,438,670	7,011,380	7,427,290	3,311,573	1,654,786	1,656,787	44,028,547	22,754,530	21,274,017
CHSDA counties <sup>b</sup>	-	-	-	1,849,756	914,397	935,359	-	-	-
Non-CHSDA counties <sup>b</sup>	-	-	-	1,461,667	740,313	721,354	-	-	-
Alabama	48,313	23,175	25,137	25,895	12,990	12,905	123,081	67,848	55,233
Alaska	38,816	18,596	20,220	112,778	56,720	56,058	39,562	20,891	18,671
Arizona	173,056	82,328	90,729	320,335	156,569	163,766	1,796,796	933,923	862,873
Arkansas	34,438	16,341	18,097	24,607	12,192	12,415	143,981	78,337	65,645
California	4,794,327	2,310,071	2,484,256	501,947	252,858	249,089	12,827,174	6,590,262	6,236,912
Colorado	143,290	67,770	75,520	66,012	33,469	32,543	925,475	483,955	441,519
Connecticut	122,463	60,726	61,737	14,832	7,579	7,254	393,577	198,957	194,621
Delaware	25,062	12,386	12,676	3,685	1,822	1,863	54,684	29,152	25,532
Dist. of Columbia	19,079	8,528	10,551	2,532	1,213	1,319	48,860	25,505	23,355
Florida	454,027	213,815	240,212	93,366	48,938	44,428	3,604,208	1,830,322	1,773,886
Georgia	277,670	137,433	140,237	35,478	19,006	16,472	691,684	392,475	299,208
Hawaii	907,437	444,134	463,303	7,393	3,870	3,523	97,185	50,780	46,405
Idaho	20,538	9,578	10,960	24,435	12,219	12,216	142,033	75,770	66,263
Illinois	557,173	273,581	283,592	49,475	25,215	24,260	1,825,909	962,814	863,094
Indiana	92,206	45,854	46,353	21,874	11,278	10,596	305,721	165,341	140,380
Iowa	48,907	23,928	24,979	12,904	6,426	6,478	116,400	62,717	53,683
Kansas	65,468	32,369	33,099	32,813	16,610	16,203	236,357	125,792	110,565
Kentucky	46,390	22,788	23,601	10,974	5,625	5,349	95,829	53,965	41,864
Louisiana	66,952	33,160	33,793	29,408	14,796	14,612	139,166	72,839	66,326
Maine	13,105	5,859	7,246	8,742	4,239	4,502	15,765	7,895	7,870
Maryland	291,207	140,259	150,948	22,692	11,238	11,454	350,193	184,636	165,557
Massachusetts	323,083	157,679	165,405	22,848	11,417	11,431	525,652	263,943	261,709
Michigan	248,457	124,440	124,017	75,198	37,385	37,813	397,383	208,968	188,415
Minnesota	194,226	96,369	97,857	69,514	34,604	34,910	200,359	108,037	92,322
Mississippi	26,327	12,553	13,773	14,905	7,403	7,502	61,761	35,204	26,557

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

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

<sup>b</sup> 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 2004-2008

## By State, Race/Ethnicity and Sex

State	Asian/Pacific Islander			American Indian/Alaska Native			Hispanic <sup>a</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Missouri	94,272	45,324	48,948	35,207	17,809	17,398	175,473	92,405	83,068
Montana	7,470	3,240	4,230	64,405	32,085	32,320	26,641	13,632	13,009
Nebraska	31,308	15,246	16,061	19,788	9,814	9,975	131,450	70,983	60,468
Nevada	177,177	81,940	95,237	41,114	20,498	20,616	607,462	322,567	284,894
New Hampshire	25,573	12,719	12,854	4,324	2,230	2,094	32,139	16,599	15,540
New Jersey	653,902	324,327	329,575	33,872	17,450	16,422	1,340,833	684,357	656,476
New Mexico	32,464	14,995	17,470	198,365	96,333	102,032	861,596	430,450	431,147
New York	1,361,217	670,339	690,878	125,192	61,888	63,303	3,129,168	1,552,374	1,576,794
North Carolina	182,100	89,090	93,010	116,207	57,530	58,677	590,913	333,870	257,043
North Dakota	5,594	2,786	2,808	35,850	17,627	18,224	12,325	6,551	5,774
Ohio	186,227	91,233	94,994	34,971	17,496	17,475	289,272	150,703	138,568
Oklahoma	65,668	32,242	33,426	325,139	159,943	165,196	257,546	137,572	119,975
Oregon	152,905	72,264	80,641	64,878	32,932	31,946	375,611	203,077	172,534
Pennsylvania	305,573	150,422	155,152	29,294	14,395	14,899	553,926	285,556	268,370
Rhode Island	31,513	15,240	16,272	7,449	3,644	3,805	117,155	58,949	58,206
South Carolina	58,549	28,107	30,442	18,782	9,575	9,207	164,356	93,297	71,060
South Dakota	7,128	3,452	3,676	69,834	34,426	35,408	19,735	10,536	9,199
Tennessee	87,215	42,332	44,883	20,758	10,796	9,961	211,797	119,289	92,508
Texas	847,913	419,397	428,516	186,976	95,164	91,812	8,269,624	4,237,214	4,032,410
Utah	76,709	37,071	39,638	38,941	19,408	19,533	288,828	153,441	135,387
Vermont	7,341	3,336	4,004	2,906	1,446	1,460	8,056	4,011	4,045
Virginia	386,664	186,061	200,603	29,735	15,166	14,569	489,409	260,066	229,343
Washington	483,114	227,642	255,472	125,869	62,824	63,044	593,915	315,313	278,603
West Virginia	12,838	6,305	6,533	4,101	2,087	2,015	19,021	9,639	9,382
Wisconsin	120,871	60,111	60,761	58,974	29,438	29,536	264,544	141,432	123,112
Wyoming	4,644	2,084	2,561	13,845	7,024	6,821	38,027	19,848	18,179

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

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

Table A.10

## Annual Populations Averaged Over 2004-2008

## By SEER Registry, Race/Ethnicity and Sex

Area	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Atlanta & Rural GA	3,500,395	1,724,322	1,776,073	1,954,417	993,584	960,833	1,339,194	626,308	712,886
Metropolitan Atlanta	3,376,665	1,664,714	1,711,951	1,883,052	958,301	924,751	1,287,589	602,368	685,221
Rural Georgia	123,730	59,608	64,122	71,365	35,284	36,082	51,605	23,940	27,665
California	36,027,875	18,007,096	18,020,779	28,138,554	14,168,679	13,969,875	2,593,046	1,275,488	1,317,558
Greater Bay Area	6,599,531	3,311,025	3,288,506	4,481,223	2,279,036	2,202,187	483,886	236,149	247,737
San Francisco-Oakland, SMSA	4,183,667	2,077,627	2,106,040	2,751,280	1,391,864	1,359,416	408,213	194,750	213,462
San Jose-Monterey	2,415,864	1,233,398	1,182,466	1,729,942	887,171	842,771	75,674	41,399	34,274
Los Angeles	9,777,392	4,844,131	4,933,260	7,329,988	3,683,227	3,646,761	975,589	456,372	519,217
Greater California	19,650,953	9,851,940	9,799,013	16,327,344	8,206,417	8,120,927	1,133,571	582,967	550,604
Connecticut	3,485,751	1,698,339	1,787,412	2,976,778	1,451,766	1,525,012	371,677	178,268	193,409
Metropolitan Detroit	4,029,485	1,959,052	2,070,433	2,829,943	1,398,354	1,431,589	1,034,619	477,747	556,872
Hawaii	1,271,762	641,493	630,269	313,560	168,708	144,852	43,373	24,781	18,591
Iowa	2,965,581	1,461,762	1,503,819	2,818,280	1,387,187	1,431,093	85,491	44,222	41,269
Kentucky	4,218,769	2,068,296	2,150,473	3,824,387	1,874,137	1,950,250	337,018	165,746	171,273
Louisiana	4,383,079	2,129,394	2,253,686	2,868,369	1,411,090	1,457,279	1,418,350	670,347	748,002
New Jersey	8,631,306	4,218,438	4,412,868	6,659,947	3,265,557	3,394,390	1,283,585	611,104	672,481
New Mexico	1,941,294	959,414	981,880	1,649,829	816,456	833,374	60,635	31,631	29,005
Seattle-Puget Sound	4,353,560	2,168,563	2,184,997	3,610,526	1,803,216	1,807,310	236,250	124,119	112,131
Utah	2,582,683	1,298,054	1,284,629	2,430,500	1,221,730	1,208,770	36,532	19,845	16,687
9 SEER areas <sup>a</sup>	28,190,447	13,929,018	14,261,429	21,263,748	10,597,582	10,666,166	3,564,379	1,697,731	1,866,648
11 SEER areas <sup>a</sup>	40,383,703	20,006,548	20,377,155	30,323,678	15,167,980	15,155,698	4,615,642	2,195,502	2,420,139
13 SEER areas <sup>a</sup>	41,183,193	20,417,719	20,765,475	30,887,076	15,462,454	15,424,621	4,699,381	2,236,499	2,462,882
17 SEER areas <sup>a</sup>	78,067,300	38,685,786	39,381,514	60,567,122	30,219,655	30,347,467	8,871,905	4,266,663	4,605,242

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

<sup>a</sup> 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 17 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana and New Jersey

Table A.10 - continued

Annual Populations Averaged Over 2004-2008

By SEER Registry, Race/Ethnicity and Sex

Area	Asian/Pacific Islander			Hispanic <sup>a</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females
Atlanta & Rural GA	190,649	95,785	94,865	371,335	212,413	158,922
Metropolitan Atlanta	190,138	95,520	94,617	368,521	210,804	157,717
Rural Georgia	512	264	248	2,813	1,608	1,205
California	4,794,327	2,310,071	2,484,256	12,827,174	6,590,262	6,236,912
Greater Bay Area	1,574,417	764,886	809,531	1,565,808	823,305	742,504
San Francisco-Oakland, SMSA	990,396	473,581	516,815	825,710	432,552	393,159
San Jose-Monterey	584,021	291,306	292,716	740,098	390,753	349,345
Los Angeles	1,359,909	647,614	712,295	4,592,351	2,324,280	2,268,071
Greater California	1,860,001	897,570	962,430	6,669,014	3,442,677	3,226,338
Connecticut	122,463	60,726	61,737	393,577	198,957	194,621
Metropolitan Detroit	146,575	74,014	72,561	147,888	77,661	70,227
Hawaii	907,437	444,134	463,303	97,185	50,780	46,405
Iowa	48,907	23,928	24,979	116,400	62,717	53,683
Kentucky	46,390	22,788	23,601	95,829	53,965	41,864
Louisiana	66,952	33,160	33,793	139,166	72,839	66,326
New Jersey	653,902	324,327	329,575	1,340,833	684,357	656,476
New Mexico	32,464	14,995	17,470	861,596	430,450	431,147
Seattle-Puget Sound	429,601	202,723	226,878	302,087	161,427	140,659
Utah	76,709	37,071	39,638	288,828	153,441	135,387
9 SEER areas <sup>b</sup>	2,944,690	1,426,691	1,517,999	3,401,793	1,778,789	1,623,004
11 SEER areas <sup>b</sup>	4,888,621	2,365,611	2,523,010	8,734,242	4,493,823	4,240,419
13 SEER areas <sup>b</sup>	4,927,948	2,384,471	2,543,477	8,776,618	4,516,322	4,260,296
17 SEER areas <sup>b</sup>	7,555,193	3,662,316	3,892,876	17,021,460	8,770,161	8,251,300

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

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

<sup>b</sup> 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 17 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana and New Jersey.



Table A.10 - continued

## Annual Populations Averaged Over 2004-2008

## 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
Atlanta & Rural GA	16,134	8,645	7,489	0	0	0	16,134	8,645	7,489
Metropolitan Atlanta	15,886	8,525	7,361	0	0	0	15,886	8,525	7,361
Rural Georgia	248	120	128	0	0	0	248	120	128
Alaska	112,778	56,720	56,058	112,778	56,720	56,058	0	0	0
California	501,947	252,858	249,089	218,634	108,927	109,707	283,313	143,931	139,382
Greater Bay Area	60,004	30,953	29,051	0	0	0	60,004	30,953	29,051
San Francisco- Oakland, SMSA	33,778	17,431	16,346	0	0	0	33,778	17,431	16,346
San Jose-Monterey	26,226	13,522	12,704	0	0	0	26,226	13,522	12,704
Los Angeles	111,906	56,919	54,987	0	0	0	111,906	56,919	54,987
Greater California	330,037	164,986	165,051	218,634	108,927	109,707	111,403	56,059	55,344
Connecticut	14,832	7,579	7,254	14,832	7,579	7,254	0	0	0
Metropolitan Detroit	18,348	8,937	9,411	0	0	0	18,348	8,937	9,411
Hawaii	7,393	3,870	3,523	0	0	0	7,393	3,870	3,523
Iowa	12,904	6,426	6,478	4,236	2,072	2,164	8,667	4,354	4,314
Kentucky	10,974	5,625	5,349	0	0	0	10,974	5,625	5,349
Louisiana	29,408	14,796	14,612	3,179	1,582	1,597	26,229	13,214	13,014
New Jersey	33,872	17,450	16,422	0	0	0	33,872	17,450	16,422
New Mexico	198,365	96,333	102,032	188,966	91,542	97,424	9,399	4,791	4,608
Seattle-Puget Sound	77,183	38,505	38,678	77,041	38,432	38,609	142	73	69
Utah	38,941	19,408	19,533	18,392	8,937	9,456	20,549	10,471	10,078
9 SEER areas <sup>a</sup>	417,631	207,014	210,617	303,468	148,561	154,906	114,163	58,452	55,710
11 SEER areas <sup>a</sup>	555,763	277,454	278,308	303,468	148,561	154,906	252,295	128,893	123,402
13 SEER areas <sup>a</sup>	668,789	334,294	334,494	416,246	205,282	210,965	252,543	129,013	123,530
17 SEER areas <sup>a</sup>	1,073,081	537,152	535,929	638,060	315,790	322,269	435,021	221,362	213,660

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

<sup>a</sup> 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 17 areas comprise the SEER 13 areas plus Greater California (California excluding SF/SJM/LA), Kentucky, Louisiana and New Jersey

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<sup>a</sup> for Cases Diagnosed 1975-2007  
By Registry, Sex, and Age

	Males				Females			
	All Ages	0-19	20-64	65+	All Ages	0-19	20-64	65+
<u>Followed Into 2007</u>								
Registry								
Standard 9 registries	99.12	95.43	98.61	99.58	98.24	94.20	97.21	99.31
San Francisco-Oakland	98.68	95.09	98.02	99.28	97.86	93.87	96.64	99.09
Connecticut	98.55	85.65	97.69	99.38	96.93	81.27	95.04	98.80
Metropolitan Detroit	99.08	96.32	98.57	99.52	97.92	96.21	96.56	99.24
Hawaii	99.06	96.79	98.38	99.58	97.65	96.31	96.42	99.13
Iowa	99.85	98.45	99.71	99.95	99.52	98.32	99.26	99.73
New Mexico	99.07	94.13	98.66	99.47	98.12	92.38	97.34	99.09
Seattle-Puget Sound	99.54	98.82	99.26	99.76	99.13	96.67	98.64	99.69
Utah	99.40	98.81	98.85	99.82	98.69	98.63	97.78	99.73
Metropolitan Atlanta	99.14	96.10	98.79	99.65	98.79	95.98	98.23	99.66
<u>Followed Into 2008</u>								
Registry								
Standard 9 registries	98.86	93.04	98.24	99.46	97.76	91.74	96.48	99.12
San Francisco-Oakland	98.48	93.18	97.77	99.17	97.50	91.31	96.15	98.91
Connecticut	98.18	80.23	97.16	99.22	96.10	75.24	93.73	98.48
Metropolitan Detroit	98.77	94.03	98.11	99.37	97.38	93.98	95.68	99.07
Hawaii	98.52	94.27	97.67	99.20	96.82	94.46	95.25	98.73
Iowa	99.75	97.86	99.53	99.91	99.25	97.65	98.84	99.58
New Mexico	98.71	93.44	98.12	99.24	97.47	91.29	96.45	98.69
Seattle-Puget Sound	99.35	94.04	99.04	99.71	98.84	92.60	98.25	99.59
Utah	99.28	98.66	98.63	99.78	98.43	98.58	97.31	99.70
Metropolitan Atlanta	98.81	94.99	98.30	99.54	98.34	94.77	97.53	99.57

<sup>a</sup> Represents the percentage of first primaries diagnosed 1975-2007 and followed into the specified year.