

Table A.1

Number of Incidence Cases, 2012-2016

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

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	75,483	52,951	22,532	62,534	44,352	18,182	6,437	4,374	2,063
Esophagus	28,434	22,044	6,390	24,148	18,974	5,174	2,743	1,893	850
Stomach	47,636	28,879	18,757	33,566	20,835	12,731	6,899	3,922	2,977
Colon & Rectum	250,162	130,031	120,131	195,462	101,940	93,522	31,127	15,549	15,578
Colon	175,113	86,701	88,412	137,516	68,235	69,281	22,549	10,883	11,666
Rectum	75,049	43,330	31,719	57,946	33,705	24,241	8,578	4,666	3,912
Liver & IBD <sup>a</sup>	60,650	43,491	17,159	43,251	31,103	12,148	8,379	6,105	2,274
Pancreas	84,630	42,852	41,778	67,953	34,892	33,061	10,304	4,842	5,462
Larynx	19,953	15,925	4,028	16,157	12,883	3,274	2,927	2,298	629
Lung & Bronchus	357,295	181,992	175,303	295,478	148,337	147,141	38,419	20,735	17,684
Melanoma of the skin	142,610	83,755	58,855	133,849	79,110	54,739	674	310	364
Breast	441,381	3,659	437,722	350,089	2,906	347,183	50,854	540	50,314
Cervix uteri	22,610	-	22,610	16,382	-	16,382	3,484	-	3,484
Corpus & Uterus, NOS	98,909	-	98,909	78,459	-	78,459	11,497	-	11,497
Ovary <sup>b</sup>	39,543	-	39,543	32,061	-	32,061	3,768	-	3,768
Prostate	345,138	345,138	-	257,913	257,913	-	56,294	56,294	-
Testis	16,789	16,789	-	14,871	14,871	-	590	590	-
Urinary bladder	130,091	98,352	31,739	115,243	87,783	27,460	7,590	5,107	2,483
Kidney & Renal pelvis	104,821	66,827	37,994	85,138	54,614	30,524	12,647	7,735	4,912
Brain & ONS <sup>a</sup>	39,632	22,092	17,540	33,944	19,015	14,929	2,892	1,573	1,319
Thyroid	96,253	24,012	72,241	76,526	19,909	56,617	7,146	1,310	5,836
Hodgkin lymphoma	15,829	8,717	7,112	12,604	6,950	5,654	2,076	1,119	957
Non-Hodgkin lymphoma	125,854	69,114	56,740	104,666	57,781	46,885	10,531	5,541	4,990
Myeloma	45,190	25,309	19,881	32,807	18,972	13,835	9,315	4,641	4,674
Leukemia	88,755	51,601	37,154	74,148	43,506	30,642	7,561	4,043	3,518
Acute lymphocytic	9,739	5,462	4,277	7,878	4,466	3,412	763	403	360
Chronic lymphocytic	32,445	19,703	12,742	28,154	17,111	11,043	2,272	1,345	927
Acute myeloid	26,824	14,729	12,095	22,026	12,286	9,740	2,542	1,245	1,297
Chronic myeloid	11,858	6,967	4,891	9,529	5,633	3,896	1,245	663	582
All others	7,889	4,740	3,149	6,561	4,010	2,551	739	387	352
Kaposi Sarcoma	3,080	2,725	355	1,890	1,650	240	836	765	71
Mesothelioma	5,736	4,290	1,446	5,205	3,908	1,297	290	204	86
All Sites	2,876,963	1,430,742	1,446,221	2,318,668	1,155,801	1,162,867	316,178	158,721	157,457

Source: SEER 21 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, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

<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, 2012-2016

By Primary Cancer Site, Race and Sex  
21 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	5,143	3,299	1,844	320	217	103	4,436	2,982	1,454
Esophagus	1,246	954	292	129	96	33	1,651	1,312	339
Stomach	6,291	3,632	2,659	290	177	113	6,544	3,556	2,988
Colon & Rectum	19,016	10,156	8,860	1,336	640	696	22,174	11,870	10,304
Colon	12,270	6,179	6,091	900	410	490	14,722	7,467	7,255
Rectum	6,746	3,977	2,769	436	230	206	7,452	4,403	3,049
Liver & IBD <sup>c</sup>	7,814	5,424	2,390	519	356	163	8,844	6,234	2,610
Pancreas	5,607	2,695	2,912	306	164	142	6,739	3,226	3,513
Larynx	594	516	78	70	57	-	1,207	1,036	171
Lung & Bronchus	20,600	11,483	9,117	1,200	596	604	15,627	8,046	7,581
Melanoma of the skin	809	416	393	202	94	108	3,525	1,563	1,962
Breast	33,910	172	33,738	1,584	-	1,581	37,316	205	37,111
Cervix uteri	2,148	-	2,148	158	-	158	3,938	-	3,938
Corpus & Uterus, NOS	7,185	-	7,185	413	-	413	9,240	-	9,240
Ovary <sup>d</sup>	3,160	-	3,160	163	-	163	4,116	-	4,116
Prostate	14,872	14,872	-	846	846	-	24,509	24,509	-
Testis	693	693	-	130	130	-	3,187	3,187	-
Urinary bladder	4,937	3,738	1,199	281	199	82	6,075	4,538	1,537
Kidney & Renal pelvis	5,069	3,260	1,809	629	366	263	11,417	6,882	4,535
Brain & ONS <sup>c</sup>	2,245	1,205	1,040	127	75	52	4,083	2,206	1,877
Thyroid	9,841	2,229	7,612	385	78	307	11,355	2,156	9,199
Hodgkin lymphoma	779	437	342	54	30	24	2,022	1,108	914
Non-Hodgkin lymphoma	7,885	4,303	3,582	384	190	194	11,868	6,283	5,585
Myeloma	2,248	1,254	994	175	86	89	3,867	2,129	1,738
Leukemia	4,531	2,540	1,991	332	195	137	8,508	4,773	3,735
Acute lymphocytic	817	440	377	91	52	39	2,885	1,634	1,251
Chronic lymphocytic	627	391	236	55	37	18	1,213	696	517
Acute myeloid	1,952	1,031	921	95	51	44	2,577	1,352	1,225
Chronic myeloid	731	454	277	56	35	21	1,101	643	458
All others	404	224	180	35	20	-	732	448	284
Kaposi Sarcoma	114	107	-	-	-	-	523	472	51
Mesothelioma	185	141	44	17	-	-	483	345	138
All Sites	178,399	79,014	99,385	10,922	5,013	5,909	231,156	106,929	124,227

Source: SEER 21 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, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

<sup>a</sup> Incidence data for American Indian/Alaska Native are based on the Purchased/Referred Care Delivery Area (PRCDA) 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, 2012-2016

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

Site	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Oral Cavity & Pharynx	0.04	0.08	0.04	0.05	0.09	0.05	0.11	0.21	0.11
Esophagus	0.03	0.05	0.02	0.03	0.06	0.03	0.08	0.16	0.07
Stomach	0.03	0.06	0.04	0.04	0.06	0.04	0.13	0.24	0.14
Colon & Rectum	0.08	0.13	0.10	0.09	0.14	0.11	0.26	0.45	0.32
Colon	0.07	0.10	0.09	0.07	0.12	0.10	0.23	0.38	0.28
Rectum	0.04	0.07	0.05	0.05	0.08	0.06	0.13	0.23	0.16
Liver & IBD <sup>a</sup>	0.04	0.07	0.04	0.04	0.07	0.04	0.12	0.24	0.12
Pancreas	0.05	0.07	0.06	0.05	0.08	0.06	0.15	0.26	0.19
Larynx	0.02	0.04	0.02	0.02	0.05	0.02	0.08	0.17	0.06
Lung & Bronchus	0.09	0.15	0.12	0.11	0.17	0.14	0.30	0.55	0.34
Melanoma of the skin	0.06	0.10	0.07	0.07	0.12	0.09	0.04	0.07	0.05
Breast	0.11	0.02	0.20	0.12	0.02	0.23	0.32	0.08	0.56
Cervix uteri	0.03	-	0.05	0.03	-	0.06	0.08	-	0.15
Corpus & Uterus, NOS	0.05	-	0.09	0.05	-	0.10	0.15	-	0.26
Ovary <sup>b</sup>	0.03	-	0.06	0.04	-	0.07	0.09	-	0.15
Prostate	0.09	0.19	-	0.09	0.21	-	0.33	0.79	-
Testis	0.02	0.05	-	0.03	0.06	-	0.03	0.07	-
Urinary bladder	0.06	0.11	0.05	0.07	0.13	0.06	0.14	0.29	0.13
Kidney & Renal pelvis	0.05	0.09	0.06	0.06	0.10	0.07	0.16	0.29	0.18
Brain & ONS <sup>a</sup>	0.03	0.05	0.04	0.04	0.06	0.05	0.07	0.12	0.09
Thyroid	0.05	0.05	0.09	0.06	0.06	0.11	0.12	0.12	0.19
Hodgkin lymphoma	0.02	0.03	0.03	0.03	0.04	0.03	0.06	0.09	0.08
Non-Hodgkin lymphoma	0.06	0.09	0.07	0.07	0.11	0.08	0.15	0.25	0.18
Myeloma	0.03	0.06	0.04	0.04	0.06	0.04	0.15	0.25	0.18
Leukemia	0.05	0.08	0.06	0.06	0.09	0.07	0.13	0.23	0.15
Acute lymphocytic	0.02	0.03	0.02	0.02	0.03	0.03	0.04	0.06	0.05
Chronic lymphocytic	0.03	0.05	0.03	0.03	0.06	0.04	0.07	0.14	0.08
Acute myeloid	0.03	0.04	0.03	0.03	0.05	0.04	0.08	0.13	0.09
Chronic myeloid	0.02	0.03	0.02	0.02	0.03	0.02	0.05	0.09	0.06
All others	0.01	0.02	0.02	0.02	0.03	0.02	0.04	0.07	0.05
Kaposi Sarcoma	0.01	0.02	0.01	0.01	0.02	0.01	0.04	0.08	0.02
Mesothelioma	0.01	0.02	0.01	0.01	0.03	0.01	0.03	0.06	0.02
All Sites	0.27	0.41	0.35	0.30	0.46	0.41	0.81	1.39	1.01

Source: SEER 21 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, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

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

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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	0.12	0.21	0.13	0.49	0.86	0.54	0.10	0.19	0.11
Esophagus	0.06	0.12	0.05	0.33	0.65	0.31	0.07	0.14	0.06
Stomach	0.14	0.24	0.16	0.54	0.94	0.63	0.13	0.23	0.16
Colon & Rectum	0.23	0.39	0.29	1.14	1.78	1.50	0.24	0.39	0.29
Colon	0.19	0.31	0.24	0.97	1.49	1.29	0.20	0.33	0.25
Rectum	0.14	0.23	0.16	0.60	0.98	0.76	0.13	0.22	0.15
Liver & IBD <sup>c</sup>	0.15	0.28	0.15	0.63	1.09	0.70	0.15	0.27	0.16
Pancreas	0.13	0.21	0.17	0.58	0.98	0.70	0.14	0.23	0.19
Larynx	0.04	0.09	0.03	0.26	0.53	-	0.06	0.12	0.04
Lung & Bronchus	0.26	0.44	0.30	1.15	1.92	1.44	0.23	0.39	0.28
Melanoma of the skin	0.05	0.08	0.06	0.41	0.66	0.54	0.09	0.14	0.12
Breast	0.30	0.05	0.55	1.13	-	2.07	0.28	0.06	0.51
Cervix uteri	0.08	-	0.14	0.33	-	0.64	0.08	-	0.15
Corpus & Uterus, NOS	0.14	-	0.25	0.54	-	1.00	0.14	-	0.25
Ovary <sup>d</sup>	0.09	-	0.17	0.37	-	0.66	0.09	-	0.17
Prostate	0.21	0.47	-	0.89	2.07	-	0.26	0.59	-
Testis	0.04	0.09	-	0.24	0.47	-	0.05	0.10	-
Urinary bladder	0.13	0.26	0.11	0.57	1.15	0.53	0.14	0.30	0.13
Kidney & Renal pelvis	0.12	0.22	0.13	0.70	1.20	0.84	0.16	0.28	0.18
Brain & ONS <sup>c</sup>	0.08	0.13	0.10	0.29	0.47	0.36	0.08	0.14	0.11
Thyroid	0.16	0.17	0.26	0.49	0.49	0.83	0.13	0.13	0.22
Hodgkin lymphoma	0.05	0.07	0.06	0.20	0.30	0.26	0.05	0.09	0.07
Non-Hodgkin lymphoma	0.15	0.26	0.19	0.61	0.96	0.80	0.17	0.28	0.22
Myeloma	0.08	0.14	0.10	0.43	0.70	0.55	0.10	0.18	0.13
Leukemia	0.12	0.20	0.14	0.50	0.88	0.59	0.13	0.21	0.15
Acute lymphocytic	0.05	0.08	0.07	0.20	0.29	0.26	0.05	0.08	0.07
Chronic lymphocytic	0.04	0.08	0.05	0.25	0.48	0.24	0.06	0.11	0.07
Acute myeloid	0.08	0.13	0.10	0.28	0.46	0.36	0.08	0.13	0.10
Chronic myeloid	0.05	0.08	0.05	0.20	0.36	0.22	0.05	0.08	0.06
All others	0.04	0.06	0.04	0.19	0.34	-	0.04	0.07	0.05
Kaposi Sarcoma	0.02	0.04	-	-	-	-	0.03	0.06	0.02
Mesothelioma	0.02	0.05	0.02	0.14	-	-	0.04	0.08	0.03
All Sites	0.72	1.10	0.96	3.12	4.88	4.14	0.74	1.19	0.97

Source: SEER 21 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, Georgia excluding ATL/RG, Idaho, New York and Massachusetts).

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<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.

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

Table A.3

## Number of Deaths, 2012-2016

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	47,102	33,290	13,812	39,601	27,889	11,712	5,475	4,002	1,473
Esophagus	74,943	59,885	15,058	66,705	53,948	12,757	6,498	4,593	1,905
Stomach	56,526	33,788	22,738	41,630	25,010	16,620	10,029	6,073	3,956
Colon & Rectum	259,662	136,380	123,282	214,846	113,013	101,833	34,959	18,219	16,740
Liver & IBD <sup>a</sup>	124,031	83,743	40,288	97,463	65,482	31,981	17,395	12,150	5,245
Pancreas	202,583	103,617	98,966	170,912	88,627	82,285	24,539	11,591	12,948
Larynx	18,777	14,997	3,780	15,271	12,154	3,117	3,120	2,515	605
Lung & Bronchus	771,712	421,626	350,086	666,644	361,325	305,319	82,607	47,638	34,969
Melanoma of the skin	45,042	29,649	15,393	44,025	29,131	14,894	654	337	317
Breast	208,492	2,261	206,231	170,305	1,833	168,472	31,527	385	31,142
Cervix uteri	20,769	-	20,769	15,814	-	15,814	3,904	-	3,904
Corpus & Uterus, NOS	48,792	-	48,792	37,700	-	37,700	9,333	-	9,333
Ovary	71,018	-	71,018	61,759	-	61,759	6,684	-	6,684
Prostate	142,486	142,486	-	115,646	115,646	-	23,566	23,566	-
Testis	1,985	1,985	-	1,796	1,796	-	113	113	-
Urinary bladder	79,677	56,999	22,678	72,181	52,446	19,735	5,942	3,488	2,454
Kidney & Renal pelvis	69,631	45,440	24,191	60,919	39,836	21,083	6,668	4,260	2,408
Brain & ONS <sup>a</sup>	79,718	44,805	34,913	72,180	40,720	31,460	5,226	2,845	2,381
Thyroid	9,308	4,219	5,089	7,858	3,701	4,157	912	304	608
Hodgkin lymphoma	5,417	3,138	2,279	4,709	2,734	1,975	562	321	241
Non-Hodgkin lymphoma	101,310	56,398	44,912	90,258	50,450	39,808	7,517	4,004	3,513
Myeloma	60,231	32,791	27,440	47,736	26,662	21,074	10,909	5,264	5,645
Leukemia	116,556	67,342	49,214	103,119	60,041	43,078	9,957	5,316	4,641
Acute lymphocytic	7,346	4,201	3,145	6,329	3,655	2,674	652	348	304
Chronic lymphocytic	22,147	13,396	8,751	20,192	12,231	7,961	1,733	1,022	711
Acute myeloid	49,539	28,237	21,302	43,563	25,098	18,465	4,090	2,074	2,016
Chronic myeloid	5,297	3,014	2,283	4,632	2,641	1,991	533	296	237
All others	32,227	18,494	13,733	28,403	16,416	11,987	2,949	1,576	1,373
All Sites	2,953,115	1,552,879	1,400,236	2,509,474	1,327,034	1,182,440	344,428	175,109	169,319

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.

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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	1,774	1,209	565	192	146	46	2,524	1,819	705
Esophagus	1,343	1,025	318	286	224	62	3,287	2,662	625
Stomach	4,363	2,399	1,964	397	244	153	8,496	4,772	3,724
Colon & Rectum	8,208	4,257	3,951	1,234	670	564	18,093	10,233	7,860
Liver & IBD <sup>c</sup>	7,971	5,317	2,654	907	589	318	15,468	10,317	5,151
Pancreas	6,137	2,898	3,239	686	353	333	13,221	6,633	6,588
Larynx	271	234	37	68	59	-	1,094	983	111
Lung & Bronchus	18,468	10,499	7,969	2,651	1,399	1,252	27,329	16,219	11,110
Melanoma of the skin	288	139	149	53	31	22	1,185	701	484
Breast	5,698	38	5,660	644	-	643	13,909	111	13,798
Cervix uteri	874	-	874	142	-	142	2,771	-	2,771
Corpus & Uterus, NOS	1,534	-	1,534	167	-	167	3,617	-	3,617
Ovary	2,189	-	2,189	286	-	286	4,876	-	4,876
Prostate	2,567	2,567	-	501	501	-	8,729	8,729	-
Testis	43	43	-	27	27	-	388	388	-
Urinary bladder	1,309	898	411	165	109	56	3,196	2,203	993
Kidney & Renal pelvis	1,474	969	505	452	297	155	5,688	3,698	1,990
Brain & ONS <sup>c</sup>	1,980	1,048	932	222	123	99	5,650	3,044	2,606
Thyroid	485	190	295	36	16	20	980	387	593
Hodgkin lymphoma	127	72	55	-	-	-	662	379	283
Non-Hodgkin lymphoma	3,113	1,695	1,418	313	186	127	7,398	4,157	3,241
Myeloma	1,290	716	574	223	107	116	4,180	2,263	1,917
Leukemia	3,006	1,702	1,304	338	202	136	8,312	4,638	3,674
Acute lymphocytic	292	161	131	59	29	30	1,710	994	716
Chronic lymphocytic	179	115	64	25	18	-	634	373	261
Acute myeloid	1,678	942	736	146	85	61	3,310	1,778	1,532
Chronic myeloid	110	63	47	-	-	-	408	255	153
All others	747	421	326	93	58	35	2,250	1,238	1,012
All Sites	83,166	42,195	40,971	11,466	6,051	5,415	182,807	95,610	87,197

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 Purchased/Referred Care Delivery Area (PRCDA) counties.<sup>b</sup> Hispanic is not mutually exclusive from whites, blacks, Asian/Pacific Islanders, and American Indians/Alaska Natives.<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, 2012-2016  
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	0.08	0.04
Esophagus	0.01	0.03	0.01	0.02	0.03	0.01	0.04	0.09	0.04
Stomach	0.01	0.02	0.02	0.01	0.02	0.02	0.06	0.11	0.06
Colon & Rectum	0.03	0.05	0.03	0.03	0.05	0.04	0.10	0.19	0.12
Liver & IBD <sup>a</sup>	0.02	0.03	0.02	0.02	0.04	0.02	0.07	0.13	0.07
Pancreas	0.02	0.04	0.03	0.03	0.04	0.03	0.09	0.15	0.11
Larynx	0.01	0.01	0.01	0.01	0.02	0.01	0.03	0.07	0.02
Lung & Bronchus	0.05	0.08	0.06	0.05	0.09	0.07	0.16	0.31	0.18
Melanoma of the skin	0.01	0.02	0.01	0.01	0.03	0.02	0.01	0.03	0.02
Breast	0.03	0.01	0.05	0.03	0.01	0.05	0.10	0.03	0.16
Cervix uteri	0.01	-	0.02	0.01	-	0.02	0.03	-	0.06
Corpus & Uterus, NOS	0.01	-	0.02	0.01	-	0.02	0.05	-	0.09
Ovary	0.01	-	0.03	0.02	-	0.03	0.05	-	0.08
Prostate	0.02	0.05	-	0.02	0.05	-	0.10	0.27	-
Testis	0.00	0.01	-	0.00	0.01	-	0.01	0.01	-
Urinary bladder	0.02	0.03	0.01	0.02	0.04	0.02	0.05	0.10	0.05
Kidney & Renal pelvis	0.01	0.03	0.02	0.02	0.03	0.02	0.05	0.09	0.05
Brain & ONS <sup>a</sup>	0.02	0.03	0.02	0.02	0.03	0.02	0.04	0.07	0.04
Thyroid	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02
Hodgkin lymphoma	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.02	0.01
Non-Hodgkin lymphoma	0.02	0.03	0.02	0.02	0.03	0.02	0.05	0.09	0.06
Myeloma	0.01	0.02	0.02	0.01	0.02	0.02	0.06	0.11	0.07
Leukemia	0.02	0.03	0.02	0.02	0.04	0.03	0.06	0.11	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	0.05	0.03
Acute myeloid	0.01	0.02	0.02	0.01	0.02	0.02	0.04	0.06	0.04
Chronic myeloid	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.02	0.02
All others	0.01	0.02	0.01	0.01	0.02	0.01	0.03	0.06	0.04
All Sites	0.10	0.16	0.12	0.10	0.17	0.13	0.33	0.60	0.39

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, 2012-2016  
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	0.05	0.09	0.05	0.17	0.34	0.16	0.03	0.06	0.03
Esophagus	0.04	0.09	0.04	0.22	0.46	0.19	0.04	0.08	0.03
Stomach	0.08	0.14	0.10	0.27	0.49	0.30	0.06	0.10	0.07
Colon & Rectum	0.11	0.19	0.14	0.48	0.82	0.57	0.09	0.15	0.10
Liver & IBD <sup>c</sup>	0.11	0.20	0.11	0.38	0.65	0.43	0.08	0.14	0.09
Pancreas	0.10	0.16	0.13	0.36	0.58	0.45	0.08	0.12	0.10
Larynx	0.02	0.05	0.01	0.10	0.23	-	0.02	0.05	0.01
Lung & Bronchus	0.17	0.31	0.20	0.71	1.22	0.87	0.11	0.21	0.13
Melanoma of the skin	0.02	0.03	0.03	0.10	0.19	0.11	0.02	0.04	0.02
Breast	0.09	0.02	0.15	0.33	-	0.59	0.07	0.02	0.12
Cervix uteri	0.03	-	0.06	0.13	-	0.24	0.03	-	0.05
Corpus & Uterus, NOS	0.04	-	0.08	0.16	-	0.28	0.04	-	0.07
Ovary	0.05	-	0.10	0.22	-	0.39	0.04	-	0.08
Prostate	0.07	0.17	-	0.37	0.92	-	0.07	0.18	-
Testis	0.01	0.01	-	0.04	0.08	-	0.01	0.01	-
Urinary bladder	0.05	0.10	0.05	0.20	0.41	0.20	0.04	0.09	0.04
Kidney & Renal pelvis	0.05	0.09	0.05	0.29	0.52	0.32	0.05	0.09	0.05
Brain & ONS <sup>c</sup>	0.05	0.08	0.06	0.17	0.28	0.22	0.04	0.07	0.05
Thyroid	0.03	0.04	0.04	0.08	0.13	0.10	0.02	0.03	0.03
Hodgkin lymphoma	0.01	0.02	0.02	-	-	-	0.02	0.03	0.02
Non-Hodgkin lymphoma	0.07	0.12	0.08	0.26	0.47	0.30	0.06	0.10	0.07
Myeloma	0.05	0.08	0.05	0.22	0.36	0.27	0.04	0.08	0.05
Leukemia	0.07	0.12	0.08	0.24	0.42	0.27	0.06	0.10	0.07
Acute lymphocytic	0.02	0.03	0.02	0.08	0.11	0.10	0.02	0.03	0.02
Chronic lymphocytic	0.02	0.03	0.02	0.08	0.16	-	0.02	0.04	0.02
Acute myeloid	0.05	0.09	0.06	0.15	0.26	0.18	0.04	0.06	0.04
Chronic myeloid	0.01	0.02	0.02	-	-	-	0.01	0.02	0.01
All others	0.03	0.06	0.04	0.14	0.26	0.15	0.03	0.06	0.04
All Sites	0.36	0.60	0.44	1.46	2.50	1.77	0.28	0.48	0.34

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 Purchased/Referred Care Delivery Area (PRCDA) counties.

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

<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

Cancer Site Coding Definitions

For a complete list of the cancer site coding definitions used in this version of the SEER Cancer Statistics Review, please reference the following pages on the SEER website:

[SEER Site Recode ICD-O-3/WHO 2008 Definition](#)

[SEER Cause of Death Recode 1969+ \(4/16/2012\) Definition](#)

[International Classification of Childhood Cancer \(ICCC\) Recode ICD-O-3/WHO 2008](#)

[Adolescents and Young Adults Site Recode ICD-O-3/WHO 2008 Definition](#)

Table A.6

## Annual Populations Averaged Over 2012-2016

## 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.	318,659,215	156,829,711	161,829,504	250,404,397	124,019,846	126,384,551	44,297,587	21,230,859	23,066,728
Alabama	4,838,609	2,345,599	2,493,010	3,413,508	1,678,272	1,735,236	1,314,425	613,744	700,681
Alaska	736,769	385,387	351,382	517,171	273,834	243,337	35,037	19,415	15,622
Arizona	6,715,535	3,338,430	3,377,105	5,712,566	2,838,622	2,873,945	358,472	185,847	172,625
Arkansas	2,966,929	1,457,289	1,509,640	2,400,949	1,185,962	1,214,988	478,705	228,433	250,272
California	38,679,317	19,212,125	19,467,192	29,036,811	14,547,322	14,489,489	2,788,905	1,379,963	1,408,942
Colorado	5,352,349	2,687,095	2,665,254	4,780,129	2,400,429	2,379,699	273,487	143,900	129,588
Connecticut	3,596,382	1,753,628	1,842,754	2,962,687	1,448,669	1,514,018	439,425	210,174	229,251
Delaware	934,718	452,581	482,138	671,025	327,419	343,606	218,776	103,192	115,584
Dist. of Columbia	660,723	313,453	347,269	294,198	147,474	146,724	332,315	150,901	181,413
Florida	19,949,831	9,753,572	10,196,260	15,747,538	7,733,739	8,013,799	3,467,726	1,672,054	1,795,672
Georgia	10,097,989	4,923,516	5,174,474	6,346,614	3,153,546	3,193,068	3,273,070	1,535,523	1,737,547
Hawaii	1,414,705	710,393	704,312	355,033	191,945	163,088	40,567	23,934	16,633
Idaho	1,632,920	817,950	814,970	1,552,032	777,375	774,658	18,297	10,260	8,037
Illinois	12,869,822	6,318,765	6,551,058	10,094,312	4,999,524	5,094,788	1,965,432	924,992	1,040,441
Indiana	6,588,187	3,245,784	3,342,403	5,732,132	2,830,167	2,901,965	676,759	326,725	350,034
Iowa	3,103,833	1,541,483	1,562,350	2,883,283	1,427,272	1,456,011	125,660	66,399	59,261
Kansas	2,898,258	1,442,662	1,455,596	2,561,160	1,272,398	1,288,762	204,393	104,972	99,421
Kentucky	4,410,276	2,171,978	2,238,297	3,941,176	1,939,493	2,001,683	386,201	192,129	194,072
Louisiana	4,647,128	2,273,935	2,373,193	2,980,088	1,477,827	1,502,261	1,537,920	731,912	806,008
Maine	1,328,600	650,685	677,914	1,277,574	625,025	652,550	23,079	12,738	10,341
Maryland	5,963,978	2,889,873	3,074,106	3,647,426	1,801,635	1,845,791	1,871,459	874,767	996,692
Massachusetts	6,749,283	3,272,152	3,477,131	5,653,688	2,742,677	2,911,011	607,325	294,595	312,730
Michigan	9,910,424	4,870,559	5,039,865	8,023,991	3,967,377	4,056,614	1,487,329	708,051	779,278
Minnesota	5,450,941	2,710,244	2,740,697	4,733,242	2,350,890	2,382,352	361,506	184,442	177,064
Mississippi	2,985,995	1,449,624	1,536,371	1,797,935	889,284	908,651	1,135,647	535,039	600,608

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

Table A.6 - continued

## Annual Populations Averaged Over 2012-2016

## By State, Race/Ethnicity and Sex

State	All Races			Whites			Blacks		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Missouri	6,057,248	2,971,676	3,085,572	5,125,607	2,525,907	2,599,700	755,345	360,347	394,998
Montana	1,020,469	513,135	507,334	927,859	466,989	460,870	8,987	5,218	3,769
Nebraska	1,880,873	936,511	944,361	1,699,438	845,161	854,276	104,882	53,635	51,247
Nevada	2,838,600	1,427,206	1,411,394	2,215,887	1,127,475	1,088,412	290,143	145,340	144,803
New Hampshire	1,327,476	656,310	671,166	1,262,942	623,550	639,392	23,178	12,815	10,362
New Jersey	8,935,451	4,357,857	4,577,594	6,613,674	3,244,429	3,369,245	1,382,326	654,825	727,501
New Mexico	2,083,931	1,031,460	1,052,470	1,747,510	865,484	882,025	61,215	33,046	28,169
New York	19,753,427	9,580,394	10,173,033	14,123,210	6,926,183	7,197,027	3,643,279	1,698,362	1,944,917
North Carolina	9,948,946	4,845,517	5,103,429	7,206,758	3,549,649	3,657,109	2,276,748	1,068,750	1,207,998
North Dakota	734,671	376,061	358,609	660,854	337,653	323,202	19,244	11,229	8,015
Ohio	11,587,427	5,670,800	5,916,628	9,720,473	4,774,688	4,945,785	1,565,585	750,377	815,208
Oklahoma	3,873,141	1,918,735	1,954,406	3,029,615	1,500,994	1,528,621	338,912	169,408	169,503
Oregon	3,975,357	1,968,246	2,007,110	3,575,421	1,770,819	1,804,602	105,351	56,092	49,260
Pennsylvania	12,783,007	6,251,331	6,531,676	10,707,370	5,250,184	5,457,185	1,576,729	759,821	816,908
Rhode Island	1,054,762	511,450	543,312	910,537	440,860	469,677	92,338	45,709	46,629
South Carolina	4,832,375	2,347,483	2,484,892	3,344,669	1,647,158	1,697,511	1,374,238	645,305	728,934
South Dakota	848,024	426,797	421,228	734,849	369,192	365,657	19,168	11,207	7,962
Tennessee	6,544,313	3,191,064	3,353,249	5,232,701	2,567,796	2,664,905	1,153,645	546,618	607,027
Texas	26,974,357	13,390,995	13,583,362	21,871,211	10,905,391	10,965,820	3,466,572	1,679,437	1,787,135
Utah	2,944,418	1,481,015	1,463,403	2,733,899	1,374,025	1,359,873	49,028	27,290	21,738
Vermont	625,025	308,458	316,567	601,354	296,598	304,756	9,929	5,479	4,450
Virginia	8,309,679	4,085,545	4,224,134	5,977,851	2,967,762	3,010,089	1,710,097	820,481	889,616
Washington	7,066,998	3,527,418	3,539,580	5,865,622	2,934,584	2,931,038	352,876	187,859	165,018
West Virginia	1,844,744	911,535	933,209	1,749,964	861,643	888,321	74,019	39,785	34,234
Wisconsin	5,748,336	2,856,435	2,891,901	5,100,177	2,537,628	2,562,549	411,711	202,502	209,209
Wyoming	582,659	297,517	285,142	548,676	279,870	268,806	10,121	5,821	4,300

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

Table A.6 - continued

## Annual Populations Averaged Over 2012-2016

## 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.	19,445,870	9,314,168	10,131,702	4,511,361	2,264,839	2,246,523	55,334,802	27,977,245	27,357,556
PRCDA counties <sup>b</sup>	-	-	-	2,396,011	1,191,108	1,204,903	-	-	-
Non-PRCDA counties <sup>b</sup>	-	-	-	2,115,351	1,073,730	1,041,620	-	-	-
Alabama	74,370	35,247	39,123	36,307	18,336	17,970	197,165	106,283	90,882
Alaska	58,938	28,486	30,452	125,622	63,652	61,971	48,753	25,643	23,110
Arizona	260,918	124,567	136,351	383,579	189,394	194,185	2,057,544	1,034,156	1,023,387
Arkansas	56,047	27,297	28,750	31,228	15,598	15,630	208,662	109,911	98,751
California	6,094,100	2,901,367	3,192,733	759,502	383,474	376,028	14,913,411	7,506,035	7,407,376
Colorado	198,633	92,276	106,356	100,101	50,490	49,611	1,132,502	576,391	556,111
Connecticut	172,273	83,634	88,639	21,996	11,150	10,846	538,668	268,972	269,696
Delaware	38,269	18,653	19,615	6,649	3,316	3,333	82,582	42,447	40,135
Dist. of Columbia	29,517	12,681	16,836	4,693	2,397	2,296	69,188	35,337	33,851
Florida	626,082	291,240	334,842	108,486	56,539	51,947	4,845,010	2,391,460	2,453,550
Georgia	421,579	204,739	216,840	56,725	29,707	27,019	930,363	491,539	438,824
Hawaii	1,012,641	491,011	521,630	6,464	3,503	2,960	136,120	69,852	66,268
Idaho	29,977	13,927	16,050	32,614	16,389	16,225	195,901	101,164	94,737
Illinois	722,531	349,334	373,196	87,547	44,915	42,633	2,138,895	1,096,969	1,041,925
Indiana	148,593	73,321	75,271	30,703	15,571	15,132	430,703	223,939	206,764
Iowa	77,552	39,134	38,418	17,338	8,679	8,659	173,216	90,566	82,650
Kansas	90,844	44,204	46,640	41,862	21,089	20,773	328,877	170,737	158,140
Kentucky	69,344	33,326	36,018	13,555	7,031	6,524	148,734	81,118	67,617
Louisiana	90,435	44,810	45,625	38,685	19,386	19,299	224,013	121,112	102,901
Maine	17,087	7,587	9,500	10,859	5,336	5,524	19,676	9,928	9,747
Maryland	406,039	193,529	212,510	39,055	19,942	19,113	553,014	288,208	264,806
Massachusetts	450,362	215,711	234,651	37,909	19,169	18,739	734,918	363,803	371,115
Michigan	310,393	151,489	158,903	88,712	43,642	45,069	474,746	240,959	233,787
Minnesota	272,630	133,234	139,396	83,563	41,678	41,885	277,384	144,377	133,007
Mississippi	33,947	16,135	17,812	18,467	9,166	9,300	88,216	49,826	38,389

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 Purchased/Referred Care Delivery Area (PRCDA) counties. All other race/ethnicities are not shown for these areas.

Table A.6 - continued

## Annual Populations Averaged Over 2012-2016

## 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	134,609	64,447	70,162	41,687	20,975	20,712	237,749	123,285	114,464
Montana	9,755	4,261	5,494	73,868	36,667	37,201	35,133	17,916	17,217
Nebraska	47,581	23,174	24,407	28,972	14,541	14,431	192,335	100,631	91,704
Nevada	278,818	127,688	151,129	53,752	26,702	27,050	791,190	402,143	389,047
New Hampshire	36,528	17,427	19,101	4,828	2,518	2,310	43,364	21,982	21,382
New Jersey	877,831	427,127	450,705	61,619	31,476	30,143	1,726,739	867,100	859,639
New Mexico	41,907	19,332	22,575	233,299	113,598	119,701	996,755	494,883	501,872
New York	1,763,506	844,327	919,179	223,432	111,522	111,911	3,677,867	1,814,750	1,863,117
North Carolina	299,647	144,974	154,673	165,792	82,143	83,649	889,682	466,318	423,364
North Dakota	11,299	5,833	5,466	43,273	21,346	21,927	23,115	12,492	10,623
Ohio	260,123	125,191	134,932	41,246	20,543	20,702	401,873	206,313	195,559
Oklahoma	95,930	46,129	49,801	408,685	202,204	206,481	382,766	200,803	181,963
Oregon	207,795	97,368	110,428	86,788	43,968	42,821	495,572	257,255	238,317
Pennsylvania	446,099	214,892	231,207	52,809	26,433	26,376	844,167	431,020	413,147
Rhode Island	40,225	19,157	21,068	11,662	5,724	5,937	149,127	74,547	74,580
South Carolina	85,087	40,308	44,779	28,380	14,712	13,668	259,371	139,674	119,697
South Dakota	12,391	6,138	6,252	81,617	40,260	41,357	29,388	15,841	13,547
Tennessee	126,925	60,292	66,632	31,042	16,358	14,685	329,277	175,003	154,274
Texas	1,337,605	652,890	684,715	298,969	153,277	145,692	10,432,994	5,248,037	5,184,958
Utah	110,906	54,250	56,656	50,585	25,450	25,135	398,054	204,381	193,673
Vermont	10,671	4,824	5,847	3,070	1,556	1,514	10,764	5,435	5,329
Virginia	572,765	271,949	300,816	48,965	25,353	23,612	729,348	376,996	352,352
Washington	687,442	324,218	363,223	161,059	80,758	80,301	855,267	442,906	412,362
West Virginia	16,257	7,709	8,548	4,504	2,398	2,106	26,429	14,159	12,271
Wisconsin	164,303	80,162	84,140	72,145	36,142	36,003	371,857	193,030	178,828
Wyoming	6,766	3,158	3,608	17,096	8,667	8,429	56,359	29,612	26,747

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.7

## Annual Populations Averaged Over 2012-2016

## 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	38,679,317	19,212,125	19,467,192	29,036,811	14,547,322	14,489,489	2,788,905	1,379,963	1,408,942
Greater Bay Area	7,241,149	3,600,854	3,640,295	4,599,666	2,324,069	2,275,597	505,723	248,866	256,857
San Francisco-Oakland, SMSA	4,588,983	2,264,520	2,324,463	2,836,175	1,429,117	1,407,058	419,313	202,439	216,874
San Jose-Monterey	2,652,166	1,336,334	1,315,832	1,763,491	894,951	868,539	86,410	46,427	39,983
Los Angeles	10,064,251	4,958,409	5,105,843	7,324,949	3,661,658	3,663,291	976,201	462,024	514,177
Greater California	21,373,917	10,652,863	10,721,054	17,112,196	8,561,596	8,550,601	1,306,981	669,073	637,908
Connecticut	3,596,382	1,753,628	1,842,754	2,962,687	1,448,669	1,514,018	439,425	210,174	229,251
Metropolitan Detroit	3,867,382	1,871,589	1,995,793	2,668,284	1,313,642	1,354,642	998,829	459,586	539,243
Georgia	10,097,989	4,923,516	5,174,474	6,346,614	3,153,546	3,193,068	3,273,070	1,535,523	1,737,547
Metropolitan Atlanta	3,598,091	1,738,247	1,859,844	1,797,402	898,571	898,830	1,501,485	691,941	809,544
Rural Georgia	125,017	61,635	63,382	73,567	36,799	36,768	50,010	24,107	25,903
Greater Georgia	6,374,881	3,123,633	3,251,248	4,475,646	2,218,176	2,257,470	1,721,576	819,476	902,100
Hawaii	1,414,705	710,393	704,312	355,033	191,945	163,088	40,567	23,934	16,633
Idaho	1,632,920	817,950	814,970	1,552,032	777,375	774,658	18,297	10,260	8,037
Iowa	3,103,833	1,541,483	1,562,350	2,883,283	1,427,272	1,456,011	125,660	66,399	59,261
Kentucky	4,410,276	2,171,978	2,238,297	3,941,176	1,939,493	2,001,683	386,201	192,129	194,072
Louisiana	4,647,128	2,273,935	2,373,193	2,980,088	1,477,827	1,502,261	1,537,920	731,912	806,008
Massachusetts	6,749,283	3,272,152	3,477,131	5,653,688	2,742,677	2,911,011	607,325	294,595	312,730
New Jersey	8,935,451	4,357,857	4,577,594	6,613,674	3,244,429	3,369,245	1,382,326	654,825	727,501
New Mexico	2,083,931	1,031,460	1,052,470	1,747,510	865,484	882,025	61,215	33,046	28,169
New York	19,753,427	9,580,394	10,173,033	14,123,210	6,926,183	7,197,027	3,643,279	1,698,362	1,944,917
Seattle-Puget Sound	4,854,466	2,422,711	2,431,755	3,839,973	1,923,881	1,916,092	302,842	160,003	142,840
Utah	2,944,418	1,481,015	1,463,403	2,733,899	1,374,025	1,359,873	49,028	27,290	21,738
SEER 9 Areas <sup>a</sup>	30,052,192	14,815,047	15,237,145	21,824,246	10,872,608	10,951,638	3,938,365	1,874,811	2,063,554
SEER 13 Areas <sup>a</sup>	43,630,395	21,556,812	22,073,584	31,503,423	15,739,850	15,763,573	5,086,023	2,426,784	2,659,239
SEER 18 Areas <sup>a</sup>	89,372,049	44,137,078	45,234,970	66,626,204	33,181,370	33,444,833	11,421,027	5,494,198	5,926,829
SEER 21 Areas <sup>a</sup>	117,507,679	57,807,574	59,700,105	87,955,134	43,627,605	44,327,529	15,689,928	7,497,416	8,192,512

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 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, 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).

The SEER 21 areas comprise the SEER 18 areas plus Idaho, New York and Massachusetts.

Table A.7 - continued

## Annual Populations Averaged Over 2012-2016

## By SEER Registry, Race/Ethnicity and Sex

Area	Asian/Pacific Islander			Hispanic <sup>a</sup>		
	Both Sexes	Males	Females	Both Sexes	Males	Females
California	6,094,100	2,901,367	3,192,733	14,913,411	7,506,035	7,407,376
Greater Bay Area	2,029,857	973,487	1,056,370	1,870,786	951,409	919,377
San Francisco-Oakland, SMSA	1,277,406	603,946	673,460	1,002,187	508,972	493,215
San Jose-Monterey	752,451	369,541	382,910	868,599	442,437	426,162
Los Angeles	1,591,809	748,004	843,805	4,864,369	2,426,001	2,438,368
Greater California	2,472,434	1,179,876	1,292,558	8,178,256	4,128,625	4,049,631
Connecticut	172,273	83,634	88,639	538,668	268,972	269,696
Metropolitan Detroit	179,046	88,350	90,696	167,531	84,354	83,176
Georgia	421,579	204,739	216,840	930,363	491,539	438,824
Metropolitan Atlanta	276,927	135,966	140,960	445,525	233,027	212,498
Rural Georgia	924	450	475	4,809	2,730	2,078
Greater Georgia	143,728	68,323	75,405	480,029	255,781	224,247
Hawaii	1,012,641	491,011	521,630	136,120	69,852	66,268
Idaho	29,977	13,927	16,050	195,901	101,164	94,737
Iowa	77,552	39,134	38,418	173,216	90,566	82,650
Kentucky	69,344	33,326	36,018	148,734	81,118	67,617
Louisiana	90,435	44,810	45,625	224,013	121,112	102,901
Massachusetts	450,362	215,711	234,651	734,918	363,803	371,115
New Jersey	877,831	427,127	450,705	1,726,739	867,100	859,639
New Mexico	41,907	19,332	22,575	996,755	494,883	501,872
New York	1,763,506	844,327	919,179	3,677,867	1,814,750	1,863,117
Seattle-Puget Sound	614,282	290,070	324,212	455,858	237,185	218,673
Utah	110,906	54,250	56,656	398,054	204,381	193,673
SEER 9 Areas <sup>b</sup>	3,762,940	1,805,692	1,957,248	4,313,914	2,192,193	2,121,722
SEER 13 Areas <sup>b</sup>	6,167,063	2,952,174	3,214,889	10,100,443	5,089,003	5,011,440
SEER 18 Areas <sup>b</sup>	9,820,835	4,705,636	5,115,199	20,858,214	10,542,740	10,315,474
SEER 21 Areas <sup>b</sup>	12,064,679	5,779,601	6,285,078	25,466,900	12,822,457	12,644,443

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 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, 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).

The SEER 21 areas comprise the SEER 18 areas plus Idaho, New York and Massachusetts.

Table A.7 - continued

## Annual Populations Averaged Over 2012-2016

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

Area	American Indian/Alaska Native Total U.S.			American Indian/Alaska Native PRCDA			American Indian/Alaska Native Non-PRCDA		
	Both Sexes	Males	Females	Both Sexes	Males	Females	Both Sexes	Males	Females
Alaska	125,622	63,652	61,971	125,622	63,652	61,971	0	0	0
California	759,502	383,474	376,028	373,890	187,379	186,511	385,612	196,095	189,517
Greater Bay Area	105,903	54,432	51,471	0	0	0	105,903	54,432	51,471
San Francisco- Oakland, SMSA	56,089	29,018	27,071	0	0	0	56,089	29,018	27,071
San Jose-Monterey	49,815	25,414	24,400	0	0	0	49,815	25,414	24,400
Los Angeles	171,293	86,723	84,570	0	0	0	171,293	86,723	84,570
Greater California	482,306	242,318	239,988	373,890	187,379	186,511	108,416	54,939	53,477
Connecticut	21,996	11,150	10,846	21,996	11,150	10,846	0	0	0
Metropolitan Detroit	21,223	10,011	11,212	0	0	0	21,223	10,011	11,212
Georgia	56,725	29,707	27,019	0	0	0	56,725	29,707	27,019
Metropolitan Atlanta	22,278	11,769	10,509	0	0	0	22,278	11,769	10,509
Rural Georgia	516	280	237	0	0	0	516	280	237
Greater Georgia	33,931	17,658	16,273	0	0	0	33,931	17,658	16,273
Hawaii	6,464	3,503	2,960	0	0	0	6,464	3,503	2,960
Idaho	32,614	16,389	16,225	15,921	7,920	8,000	16,694	8,468	8,225
Iowa	17,338	8,679	8,659	5,607	2,758	2,849	11,731	5,920	5,811
Kentucky	13,555	7,031	6,524	0	0	0	13,555	7,031	6,524
Louisiana	38,685	19,386	19,299	4,087	2,032	2,055	34,598	17,355	17,244
Massachusetts	37,909	19,169	18,739	16,749	8,567	8,182	21,160	10,602	10,558
New Jersey	61,619	31,476	30,143	0	0	0	61,619	31,476	30,143
New Mexico	233,299	113,598	119,701	219,664	106,668	112,996	13,635	6,930	6,705
New York	223,432	111,522	111,911	45,324	22,426	22,898	178,108	89,096	89,012
Seattle-Puget Sound	97,369	48,757	48,612	97,369	48,757	48,612	0	0	0
Utah	50,585	25,450	25,135	25,214	12,542	12,673	25,371	12,908	12,462
SEER 9 Areas <sup>a</sup>	526,640	261,935	264,705	369,851	181,875	187,976	156,790	80,060	76,729
SEER 13 Areas <sup>a</sup>	873,887	438,004	435,883	495,473	245,527	249,947	378,413	192,477	185,936
SEER 18 Areas <sup>a</sup>	1,503,983	755,873	748,109	873,450	434,937	438,513	630,533	320,936	309,597
SEER 21 Areas <sup>a</sup>	1,797,938	902,953	894,985	951,444	473,850	477,593	846,494	429,102	417,392

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 13 areas comprise the SEER 9 areas plus San Jose-Monterey, Los Angeles, 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).  
The SEER 21 areas comprise the SEER 18 areas plus Idaho, New York and Massachusetts.



Table A.8

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	World (WHO 2000-2025) Standard
All Ages	1,000,000
Ages 0-4	88,569
Ages 5-9	86,870
Ages 10-14	85,970
Ages 15-19	84,670
Ages 20-24	82,171
Ages 25-29	79,272
Ages 30-34	76,073
Ages 35-39	71,475
Ages 40-44	65,877
Ages 45-49	60,379
Ages 50-54	53,681
Ages 55-59	45,484
Ages 60-64	37,187
Ages 65-69	29,590
Ages 70-74	22,092
Ages 75-79	15,195
Ages 80-84	9,097
Ages 85+	6,348

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.

For more information about the standards listed here and additional population standards, please visit the [SEER website](#).

Table A.9  
All Cancer Sites (Invasive)

SEER Follow-Up Rates<sup>a</sup> for Cases Diagnosed 1975-2015  
By Registry, Sex, and Age

	Males				Females			
	All Ages	0-19	20-64	65+	All Ages	0-19	20-64	65+
<u>Followed Into 2015</u>								
Registry								
Standard 9 registries	98.80	94.93	98.13	99.42	97.88	93.98	96.66	99.18
San Francisco-Oakland	98.43	93.86	97.77	99.07	97.69	92.94	96.54	98.92
Connecticut	98.89	93.62	98.11	99.56	97.81	91.63	96.20	99.34
Metropolitan Detroit	98.83	95.40	98.16	99.44	97.60	95.11	96.10	99.13
Hawaii	98.26	92.79	97.35	99.03	96.90	91.89	95.43	98.77
Iowa	99.71	98.66	99.42	99.91	99.50	98.28	99.09	99.82
New Mexico	97.87	92.18	96.71	98.84	96.19	90.66	94.45	98.17
Seattle-Puget Sound	99.23	94.18	98.86	99.65	98.87	92.43	98.36	99.58
Utah	99.01	95.54	98.28	99.74	98.18	93.98	97.16	99.64
Metropolitan Atlanta	97.85	96.20	97.14	98.76	96.08	96.93	94.72	97.98
<u>Followed Into 2016</u>								
Registry								
Standard 9 registries	98.47	93.34	97.62	99.25	97.28	92.20	95.76	98.90
San Francisco-Oakland	97.96	92.24	97.11	98.78	97.04	91.32	95.60	98.57
Connecticut	98.55	92.06	97.58	99.37	96.88	90.10	94.77	98.86
Metropolitan Detroit	98.63	94.59	97.85	99.35	97.21	94.36	95.52	98.91
Hawaii	97.98	92.06	96.93	98.86	96.52	89.92	94.91	98.59
Iowa	99.59	97.59	99.18	99.88	99.28	97.04	98.69	99.76
New Mexico	97.49	90.99	96.15	98.60	95.49	88.80	93.45	97.80
Seattle-Puget Sound	98.95	91.33	98.48	99.51	98.47	89.59	97.81	99.39
Utah	98.71	92.99	97.83	99.65	97.65	90.74	96.36	99.58
Metropolitan Atlanta	97.07	94.99	96.02	98.41	94.79	95.65	92.87	97.49

<sup>a</sup> Represents the percentage of first primaries diagnosed 1975-2015 and followed into the specified year.