

## XI: APPENDICES

**Appendix A: 2000 United States Standard Million Population**

Age Group	Number in Group
Total	1,000,000
<5	69,135
5-9	72,533
10-14	73,032
15-19	72,169
20-24	66,478
25-29	64,529
30-34	71,044
35-39	80,762
40-44	81,851
45-49	72,118
50-54	62,716
55-59	48,454
60-64	38,793
65-69	34,264
70-74	31,773
75-79	26,999
80-84	17,842
85+	15,508

**Appendix B: 2008-2017 South Dakota Estimated Population**

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total	804,532	812,383	814,180	824,082	833,354	844,877	853,175	858,469	865,454	869,666
<5	58,582	59,640	59,621	59,591	59,202	59,957	60,610	61,244	61,369	61,759
5-9	52,692	53,496	55,531	56,389	58,010	59,832	60,148	60,266	60,477	60,372
10-14	52,954	52,576	53,960	54,096	53,956	54,899	55,807	56,525	57,842	59,303
15-19	59,184	58,571	57,628	57,916	57,439	57,419	57,823	56,581	56,838	56,675
20-24	62,764	62,919	57,596	58,178	59,174	60,849	61,697	61,382	61,366	59,550
25-29	53,851	56,270	55,570	56,020	56,397	56,103	55,859	55,656	55,852	57,257
30-34	45,387	46,540	49,859	52,216	53,875	55,411	56,075	56,436	56,414	56,348
35-39	46,003	45,707	45,766	45,524	46,326	47,452	49,007	50,813	52,857	54,536
40-44	49,163	47,626	47,346	47,375	47,570	47,255	46,709	46,136	45,735	46,458
45-49	58,526	57,845	57,519	54,849	52,681	50,182	48,446	47,650	47,699	47,425
50-54	57,673	57,850	59,399	59,960	60,037	59,699	58,976	57,094	54,496	52,109
55-59	51,199	52,996	54,231	56,261	57,577	58,434	58,768	59,517	59,850	59,476
60-64	40,441	42,615	43,573	47,054	48,927	51,222	53,027	54,749	55,854	56,774
65-69	30,956	32,303	31,944	33,144	35,738	37,753	40,473	43,381	46,846	48,277
70-74	24,879	25,236	25,683	25,882	26,396	27,834	28,875	29,750	30,618	32,952
75-79	22,287	21,866	21,724	21,660	21,766	21,939	22,209	22,305	22,243	22,463
80-84	18,253	18,122	18,004	18,102	18,112	18,017	17,795	17,616	17,582	17,151
85+	19,738	20,205	19,226	19,865	20,171	20,620	20,871	21,368	21,516	20,781

## Appendix C: Race in South Dakota by County, 2017 Estimated Population

	Total	White	Black	American Indian	Asian	Other
<b>South Dakota</b>	<b>869,666</b>	<b>738,554 85%</b>	<b>18,479 2%</b>	<b>78,456 9%</b>	<b>12,901 1%</b>	<b>21,276 2%</b>
Aurora	2,738	2,595 95%	22 1%	72 3%	20 1%	29 1%
Beadle	18,157	15,561 86%	232 1%	259 1%	1702 9%	403 2%
Bennett	3,454	1,204 35%	19 1%	2,038 59%	15 0%	178 5%
Bon Homme	6,984	6,218 89%	84 1%	566 8%	12 0%	104 1%
Brookings	34,255	31,883 93%	535 2%	397 1%	884 3%	556 2%
Brown	39,178	34,890 89%	862 2%	1,381 4%	1148 3%	897 2%
Brule	5,312	4,528 85%	23 0%	548 10%	21 0%	192 4%
Buffalo	1,999	317 16%	15 1%	1,626 81%	1 0%	40 2%
Butte	10,107	9,521 94%	57 1%	231 2%	44 0%	254 3%
Campbell	1,379	1,348 98%	3 0%	13 1%	6 0%	9 1%
Charles Mix	9,428	6,025 64%	54 1%	3,012 32%	25 0%	312 3%
Clark	3,668	3,539 96%	63 2%	12 0%	18 0%	36 1%
Clay	13,990	12,540 90%	244 2%	495 4%	361 3%	350 3%
Codington	28,099	26,556 95%	199 1%	712 3%	193 1%	439 2%
Corson	4,203	1,279 30%	20 0%	2,738 65%	21 0%	145 3%
Custer	8,691	8,067 93%	52 1%	338 4%	50 1%	184 2%
Davison	19,704	18,354 93%	186 1%	648 3%	127 1%	389 2%
Day	5,521	4,831 88%	21 0%	531 10%	39 1%	99 2%
Deuel	4,281	4,169 97%	37 1%	21 0%	8 0%	46 1%
Dewey	5,835	1,222 21%	23 0%	4,320 74%	14 0%	256 4%
Douglas	2,931	2,805 96%	16 1%	67 2%	3 0%	40 1%
Edmunds	3,919	3,796 97%	16 0%	39 1%	28 1%	40 1%
Fall River	6,687	5,866 88%	90 1%	471 7%	42 1%	218 3%
Faulk	2,329	2,282 98%	9 0%	11 0%	10 0%	17 1%
Grant	7,061	6,799 96%	50 1%	85 1%	28 0%	99 1%
Gregory	4,226	3,757 89%	15 0%	306 7%	19 0%	129 3%
Haakon	1,943	1,822 94%	5 0%	45 2%	5 0%	66 3%
Hamlin	5,948	5,803 98%	25 0%	47 1%	23 0%	50 1%
Hand	3,277	3,209 98%	5 0%	17 1%	12 0%	34 1%
Hanson	3,423	3,343 98%	16 0%	14 0%	12 0%	38 1%
Harding	1,242	1,180 95%	7 1%	26 2%	3 0%	26 2%
Hughes	17,666	14,847 84%	138 1%	2,057 12%	136 1%	488 3%
Hutchinson	7,358	7,079 96%	76 1%	99 1%	19 0%	85 1%
Hyde	1,318	1,155 88%	5 0%	123 9%	3 0%	32 2%
Jackson	3,289	1,387 42%	35 1%	1,694 52%	6 0%	167 5%
Jerauld	2,028	1,984 98%	3 0%	12 1%	4 0%	25 1%
Jones	936	857 92%	3 0%	35 4%	1 0%	40 4%
Kingsbury	4,952	4,762 96%	24 0%	57 1%	33 1%	76 2%
Lake	12,809	12,196 95%	132 1%	159 1%	137 1%	185 1%
Lawrence	25,429	23,862 94%	209 1%	600 2%	238 1%	520 2%
Lincoln	56,664	53,660 95%	837 1%	406 1%	765 1%	996 2%
Lyman	3,904	2,201 56%	22 1%	1,532 39%	12 0%	137 4%
McCook	5,499	5,318 97%	32 1%	65 1%	13 0%	71 1%
McPherson	2,426	2,368 98%	15 1%	6 0%	12 0%	25 1%
Marshall	4,804	4,232 88%	35 1%	437 9%	11 0%	89 2%
Meade	28,018	25,432 91%	583 2%	781 3%	348 1%	874 3%
Mellette	2,088	840 40%	6 0%	1,123 54%	5 0%	114 5%
Miner	2,228	2,147 96%	22 1%	15 1%	10 0%	34 2%
Minnehaha	188,616	163,780 87%	10,644 6%	5,256 3%	4,142 2%	4,794 3%
Moody	6,579	5,189 79%	131 2%	890 14%	151 2%	218 3%
Oglala Lakota	14,354	746 5%	52 0%	13,291 93%	19 0%	246 2%
Pennington	110,141	91,949 83%	1477 1%	11105 10%	1299 1%	4311 4%
Perkins	2,974	2,843 96%	15 1%	65 2%	8 0%	43 1%
Potter	2,231	2,109 95%	10 0%	49 2%	23 1%	40 2%
Roberts	10,278	5,950 58%	76 1%	3888 38%	24 0%	340 3%
Sanborn	2,450	2395 98%	5 0%	10 0%	7 0%	33 1%
Spink	6,410	6,177 96%	43 1%	112 2%	7 0%	71 1%
Stanley	3,011	2,691 89%	23 1%	212 7%	10 0%	75 2%
Sully	1,407	1,337 95%	6 0%	33 2%	2 0%	29 2%
Todd	10,065	882 9%	50 0%	8,855 88%	20 0%	258 3%
Tripp	5,460	4,501 82%	32 1%	776 14%	18 0%	133 2%
Turner	8,315	8,083 97%	42 1%	84 1%	22 0%	84 1%
Union	15,029	14,284 95%	164 1%	133 1%	193 1%	255 2%
Walworth	5,543	4,440 80%	29 1%	791 14%	104 2%	179 3%
Yankton	22,662	20,873 92%	485 2%	686 3%	195 1%	423 2%
Ziebach	2,756	689 25%	13 0%	1,933 70%	10 0%	111 4%

US Census Bureau Estimated Race Population

**Appendix D: SEER Incidence Site Analysis Categories**

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode	
<b>Oral Cavity and Pharynx</b>				
Lip	C000-C009	excluding 9050-9055, 9140, 9590-9992	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		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 9050-9055, 9140, 9590-9992	21010	
Stomach	C160-C169		21020	
Small Intestine	C170-C179		21030	
<b>Colon and Rectum</b>				
<b>Colon excluding Rectum</b>				
Cecum	C180	excluding 9050-9055, 9140, 9590-9992	21041	
Appendix	C181		21042	
Ascending Colon	C182		21043	
Hepatic Flexure	C183		21044	
Transverse Colon	C184		21045	
Splenic Flexure	C185		21046	
Descending Colon	C186		21047	
Sigmoid Colon	C187		21048	
Large Intestine, NOS	C188-C189, C260		21049	
<b>Rectum and Rectosigmoid Junction</b>				
Rectosigmoid Junction	C199	excluding 9050-9055, 9140, 9590-9992	21051	
Rectum	C209		21052	
Anus, Anal Canal and Anorectum	C210-C212, C218		21060	
<b>Liver and Intrahepatic Bile Duct</b>				
Liver	C220	excluding 9050-9055, 9140, 9590-9992	21071	
Intrahepatic Bile Duct	C221		21072	
Gallbladder	C239		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	C300-C301, C310-C319		excluding 9050-9055, 9140, 9590-9992	22010
Larynx	C320-C329	22020		
Lung and Bronchus	C340-C349	22030		
Pleura	C384	22050		
Trachea, Mediastinum and Other Respiratory Organs	C339, C381-C383, C388, C390, C398, C399	22060		

**Appendix D: SEER Incidence Site Analysis Categories (continued)**

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
<b>Bones and Joints</b>	<b>C400-C419</b>	<b>excluding 9050-9055, 9140, 9590-9992</b>	<b>23000</b>
<b>Soft Tissue including Heart</b>	<b>C380, C470-C479, C490-C499</b>	<b>excluding 9050-9055, 9140, 9590-9992</b>	<b>24000</b>
<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, 8010-8046, 8050-8084, 8090-8110, 8720-8790, 9050-9055, 9140, 9590-9992	25020
<b>Breast</b>	<b>C500-C509</b>	<b>excluding 9050-9055, 9140, 9590-9992</b>	<b>26000</b>
<b>Female Genital System</b>			
Cervix Uteri	C530-C539	excluding 9050-9055, 9140, 9590-9992	27010
Corpus and Uterus, NOS			
Corpus Uteri	C540-C549	excluding 9050-9055, 9140, 9590-9992	27020
Uterus, NOS	C559		27030
Ovary	C569		27040
Vagina	C529		27050
Vulva	C510-C519		27060
Other Female Genital Organs	C570-C579, C589		27070
<b>Male Genital System</b>			
Prostate	C619	excluding 9050-9055, 9140, 9590-9992	28010
Testis	C620-C629		28020
Penis	C600-C609		28030
Other Male Genital Organs	C630-C639		28040
<b>Urinary System</b>			
Urinary Bladder	C670-C679	excluding 9050-9055, 9140, 9590-9992	29010
Kidney and Renal Pelvis	C649, C659		29020
Ureter	C669		29030
Other Urinary Organs	C680-C689		29040
<b>Eye and Orbit</b>	<b>C690-C699</b>	<b>excluding 9050-9055, 9140, 9590-9992</b>	<b>30000</b>
<b>Brain and Other Nervous System</b>			
Brain	C710-C719	excluding 9050-9055, 9140, 9530-9539, 9590-9992	31010
Cranial Nerves Other Nervous System	C710-C719	9530-9539	31040
	C700-C709, C720-C729	excluding 9050-9055, 9140, 9590-9992	
<b>Endocrine System</b>			
Thyroid	C739	excluding 9050-9055, 9140, 9590-9992	32010
Other Endocrine including Thymus	C379, C740-C749, C750-C759		32020

**Appendix D: SEER Incidence Site Analysis Categories (continued)**

Site Group	ICD-O-3 Site	ICD-O-3 Histology (Type)	Recode
<b>Lymphoma</b>			
Hodgkin's Lymphoma			
Hodgkin's - Nodal	C024,C098-C099,C111,C142,C379,C422,C770-C779	9650-9667	33011
Hodgkin's - Extranodal	All other sites		33012
<b>Non-Hodgkin's Lymphoma</b>			
NHL - Nodal	C024, C098, C099, C111, C142,C379, C422, C770-C779	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687-9691, 9695, 9698-9702, 9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737-9738, 9811-9818, 9823, 9827, 9837	33041
NHL - Extranodal	All sites except C024, C098-C099, C111, C142, C379, C422, C770-C779	9590-9597, 9670-9671, 9673, 9675, 9678-9680, 9684, 9687, 9688, 9689-9691, 9695, 9698-9702,9705, 9708-9709, 9712, 9714-9719, 9724-9729, 9735, 9737,9738	33042
	All sites except C024, C098-C099, C111, C142, C379, C420-C422, C424, C770-C779	9811-9818, 9823, 9827, 9837	
<b>Myeloma</b>		<b>9731-9732, 9734</b>	<b>34000</b>
<b>Leukemia</b>			
<b>Lymphocytic Leukemia</b>			
Acute Lymphocytic Leukemia		9826, 9835-9836	35011
	C420, C421, C424	9811-9818, 9837	
Chronic Lymphocytic Leukemia	C420, C421, C424	9823	35012
Other Lymphocytic Leukemia		9820, 9832-9834, 9940	35013
<b>Myeloid and Monocytic Leukemia</b>			
Acute Myeloid Leukemia		9840, 9861, 9865-9867, 9869, 9871-9874, 9895-9897, 9898, 9910-9911, 9920	35021
Acute Monocytic Leukemia		9891	35031
Chronic Myeloid Leukemia		9863, 9875-9876, 9945-9946	35022
Other Myeloid/Monocytic Leukemia		9860, 9930	35023
<b>Other Leukemia</b>			
Other Acute Leukemia		9801, 9805-9809, 9931	35041
Aleukemic, subleukemic and NOS		9733, 9742, 9800, 9831, 9870, 9948, 9963-9964	35043
	C420, C421, C424	9827	
<b>Mesothelioma +</b>		<b>9050-9055</b>	<b>36010</b>
<b>Kaposi Sarcoma +</b>		<b>9140</b>	<b>36020</b>
<b>Miscellaneous</b>		<b>9740-9741, 9750-9769, 9950, 9960-9962, 9965-9967, 9970-9971, 9975, 9980, 9982-9987, 9989, 9991-9992</b>	<b>37000</b>
	<b>C760-C768, C809</b>	<b>Excluding 9050-9055, 9140, 9590-9992</b>	
	<b>C420-C424</b> <b>C770-C779</b>		
<b>Invalid</b>	<b>Site or histology code not within valid range or site code not found in this table.</b>		<b>99999</b>

Source: <http://seer.cancer.gov/siterecode>

+ 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.

### **Appendix E: SEER Cancer Cause of Death Analysis Categories**

Cancer Causes of Death	ICD-10
<b>All Malignant Cancers</b>	<b>C00-C97</b>
<b>Oral Cavity and Pharynx</b>	
Lip	C00
Tongue	C01-C02
Salivary Gland	C07-C08
Floor of Mouth	C04
Gum and Other Mouth	C03, C05-C06
Nasopharynx	C11
Tonsil	C09
Oropharynx	C10
Hypopharynx	C12-C13
Other Oral Cavity and Pharynx	C14
<b>Digestive System</b>	
Esophagus	C15
Stomach	C16
Small Intestine	C17
Colon and Rectum	
Colon Excluding Rectum	C18, C26.0
Rectum and Rectosigmoid Junction	C19-C20
Anus, Anal Canal and Anorectum	C21
<b>Liver and Intrahepatic Bile Duct</b>	
Liver	C22.0, C22.2-C22.4, C22.7, C22.9
Intrahepatic Bile Duct	C22.1
Gallbladder	C23
Other Biliary	C24
Pancreas	C25
Retroperitoneum	C48.0
Peritoneum, Omentum and Mesentery	C45.1+, C48.1-C48.2
Other Digestive Organs	C26.8-C26.9, C48.8
<b>Respiratory System</b>	
Nose, Nasal Cavity and Middle Ear	C30-C31
Larynx	C32
Lung and Bronchus	C34
Pleura	C38.4, C45.0+
Trachea, Mediastinum and Other Respiratory Organs	C33, C38.1-C38.3, C38.8, C39
<b>Bones and Joints</b>	C40-C41
<b>Soft Tissue including Heart</b>	C47, C49, C38.0, C45.2+
<b>Skin excluding Basal and Squamous</b>	
Melanoma of the Skin	C43
Other Non-Epithelial Skin	C44, C46+
<b>Breast</b>	C50
<b>Female Genital System</b>	
Cervix Uteri	C53
Corpus and Uterus, NOS	
Corpus Uteri	C54
Uterus, NOS	C55
Ovary	C56
Vagina	C52
Vulva	C51
Other Female Genital Organs	C57-C58

**Appendix E: SEER Cancer Cause of Death Analysis Categories (Continued)**

Cancer Causes of Death	ICD-10
<b>Male Genital System</b>	
Prostate	C61
Testis	C62
Penis	C60
Other Male Genital Organs	C63
<b>Urinary System</b>	
Bladder	C67
Kidney and Renal Pelvis	C64-C65
Ureter	C66
Other Urinary Organs	C68
<b>Eye and Orbit</b>	C69
<b>Brain and Other Nervous System</b>	C70, C71, C72
<b>Endocrine System</b>	
Thyroid	C73
Other Endocrine Including Thymus	C37, C74-C75
<b>Lymphoma</b>	
Hodgkin's Lymphoma	C81
Non-Hodgkin's Lymphoma	C82-C85, C96.3
<b>Myeloma</b>	C90.0, C90.2
<b>Leukemia</b>	
Lymphocytic Leukemia	
Acute Lymphocytic Leukemia	C91.0
Chronic Lymphocytic Leukemia	C91.1
Other Lymphocytic Leukemia	C91.2-C91.4, C91.7, C91.9
Myeloid and Monocytic Leukemia	
Acute Myeloid	C92.0, C92.4-C92.5, C94.0, C94.2
Acute Monocytic Leukemia	C93.0
Chronic Myeloid Leukemia	C92.1
Other Myeloid/Monocytic Leukemia	C92.2-C92.3, C92.7, C92.9, C93.1-C93.2, C93.7, C93.9
Other Acute Leukemia	C94.4, C94.5, C95.0
Aleukemic, Subleukemic and NOS	C90.1, C91.5, C94.1, C94.3, C94.7, C95.1, C95.2, C95.7, C95.9
<b>Mesothelioma (ICD-10 only)+</b>	C45+
<b>Kaposi Sarcoma (ICD-10 only)+</b>	C46+
<b>Miscellaneous Malignant Cancer</b>	C26.1, C45.7+, C45.9+, C76-C80, C88, C96.0-C96.2, C96.7, C96.9, C97

Source: <http://seer.cancer.gov/codrecode>