

# 10 Leading causes of death by year, South Dakota, 1997– 2018\*

Rank	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
1	Heart 2,124	Heart 2,102	Heart 2,016	Heart 2,105	Heart 1,984	Heart 1,933	Heart 1,942	Heart 1,775	Heart 1,764	Heart 1,743	Heart 1,623	Heart 1,677	Heart 1,778	Cancer 1,651	Cancer 1,655	Heart 1,652	Heart 1,617	Heart 1,695	Heart 1,712	Heart 1,732	Cancer 1,717	Heart 1,797
2	Cancer 1,548	Cancer 1,569	Cancer 1,635	Cancer 1,604	Cancer 1,598	Cancer 1,561	Cancer 1,645	Cancer 1,559	Cancer 1,610	Cancer 1,561	Cancer 1,606	Cancer 1,561	Cancer 1,506	Heart 1,611	Heart 1,615	Cancer 1,623	Cancer 1,574	Cancer 1,679	Cancer 1,632	Cancer 1,691	Heart 1,708	Cancer 1,632
3	Stroke 568	Stroke 537	Stroke 544	Stroke 561	Stroke 491	Stroke 518	Stroke 475	Stroke 463	Stroke 511	Accident 443	CLRD 458	CLRD 486	CLRD 440	CLRD 451	CLRD 485	CLRD 479	Accident 424	Accident 461	CLRD 500	Accident 503	Accident 537	CLRD 498
4	CLRD 337	Accident 347	Accident 340	CLRD 387	Accident 382	CLRD 382	Accident 390	Accident 407	CLRD 440	Stroke 437	Stroke 408	Alzheimer 401	Stroke 417	Stroke 411	Stroke 442	Alzheimer 462	Alzheimer 420	CLRD 440	Accident 467	Alzheimer 449	CLRD 505	Accident 452
5	Accident 300	CLRD 315	CLRD 338	Accident 318	CLRD 360	Accident 344	CLRD 379	CLRD 393	Accident 396	CLRD 375	Accident 357	Stroke 391	Alzheimer 402	Alzheimer 401	Alzheimer 423	Accident 417	Stroke 414	Stroke 439	Alzheimer 421	CLRD 427	Alzheimer 444	Alzheimer 437
6	I & P 268	I & P 283	I & P 262	I & P 208	Diabetes 210	I & P 239	I & P 223	Alzheimer 255	Alzheimer 289	Alzheimer 330	Alzheimer 345	Accident 372	Accident 348	Accident 391	Accident 407	Stroke 410	CLRD 413	Alzheimer 433	Stroke 381	Stroke 420	Stroke 410	Stroke 387
7	Diabetes 195	Diabetes 210	Diabetes 195	Alzheimer 180	I & P 186	Diabetes 193	Diabetes 201	Diabetes 227	I & P 242	Diabetes 261	Diabetes 246	Diabetes 216	Diabetes 200	Diabetes 241	Diabetes 267	Diabetes 219	Diabetes 239	Diabetes 223	Diabetes 282	Diabetes 253	Diabetes 262	Diabetes 252
8	Suicide 126	Suicide 115	Alzheimer 156	Diabetes 179	Alzheimer 159	Alzheimer 169	Alzheimer 175	I & P 180	Diabetes 239	I & P 173	I & P 189	I & P 186	I & P 135	I & P 166	I & P 178	I & P 188	I & P 186	I & P 180	I & P 213	I & P 195	I & P 217	I & P 246
9	Senility 88	Kidney 93	Suicide 103	Kidney 130	Mental 135	Mental 144	Mental 159	Suicide 114	Suicide 123	Suicide 125	Suicide 101	Suicide 123	Suicide 128	Suicide 139	Suicide 125	Suicide 135	Suicide 147	Suicide 141	Suicide 173	Suicide 161	Suicide 192	Liver 185
10	Kidney 75	Senility 77	Kidney 99	Suicide 95	Suicide 108	Kidney 128	Kidney 131	Liver 97	Liver 83	Liver 83	Liver 94	Liver 100	Kidney 99	EHPRD 93	Dementia 117	Liver 113	Liver 121	Liver 128	Liver 137	Liver 158	Liver 152	Suicide 168
Total	6,855	6,850	6,941	7,014	6,915	6,886	7,109	6,811	7,074	7,038	6,800	7,056	6,913	7,087	7,287	7,283	7,079	7,500	7,724	7,838	7,991	7,971
CDR*				929	911	904	927	880	907	893	853	877	851	870	882	874	838	879	900	906	919	904
AADR*				805	786	772	787	742	758	732	695	712	689	713	716	707	677	710	715	719	736	716

\*ICD-9 codes 1994-1998; ICD-10 codes 1999-2017.

Heart: Heart disease

CLRD: Chronic lower respiratory disease, also as COPD chronic obstructive pulmonary disease

Liver: Chronic liver disease and cirrhosis

Kidney: Nephritis, nephrotic syndrome and nephrosis

CDR: Crude death rate per 100,000 population

Cancer: Malignant neoplasms

I & P: Influenza and pneumonia

EHPRD: Essential (primary) Hypertension & Hypertensive Renal Disease

Senility: Senile and presenile organic psychotic conditions

AADR: Age-adjusted death rate per 100,000 population

Stroke: Cerebrovascular diseases

Mental: Organic, including symptomatic, mental disorders

\*There was a methodology change for calculating crude and age-adjusted death rates in 2000. Therefore, prior years are not comparable.

Local physicians or coroners submit death certificates to the South Dakota Department of Health. Over the past 22 years, 1997-2018, the two most common causes of death were heart disease and cancer. During these two decades, heart disease deaths have dramatically decreased, whereas cancer deaths increased slightly. Stroke deaths declined and were the sixth leading cause of death in 2018. Death causes that have increased during the two decades include deaths due to accidents, chronic lower respiratory disease, Alzheimer's, diabetes, suicide, and liver disease.

Age-grouped deaths during the 5-year period, 2014-2018, show accidental deaths as the leading cause of death in children and young adults in the 1-44 year age groups, cancer death is most common in the 45-84 year age groups, and heart disease death is most common in the elderly, 85 years and older.



Source: South Dakota Vital Statistics Reports, 1997-2018.

# 10 Leading causes of death by age group, South Dakota, 2014-2018

Rank	Age Groups											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
	Total 385	Total 84	Total 138	Total 524	Total 736	Total 1021	Total 2,101	Total 4,502	Total 6,374	Total 8,908	Total 14,237	Total 39,010
1	Conditions originating in perinatal period 141	Accidents 38	Accidents 55	Accidents 243	Accidents 250	Accidents 214	Cancer 481	Cancer 1,483	Cancer 2,162	Cancer 2,268	Heart disease 3,784	Heart disease 8,462
2	Congenital abnormalities 95	Congenital abnormalities 8	Suicide 27	Suicide 173	Suicide 159	Heart disease 130	Heart disease 381	Heart disease 986	Heart disease 1,390	Heart disease 1,916	Cancer 1,758	Cancer 8,290
3	Accidents 44	Homicide 7	Cancer 14	Homicide 32	Liver disease 58	Suicide 128	Accidents 244	Accidents 285	Chronic lower respiratory diseases 521	Chronic lower respiratory diseases 760	Alzheimer's disease 1,575	Accidents 2,390
4	SIDS 32	Cancer 4	Homicide 8	Cancer 15	Heart disease 43	Cancer 126	Liver disease 200	Chronic lower respiratory diseases 218	Diabetes 255	Stroke 506	Stroke 1,081	Chronic lower respiratory diseases 2,285
5	Unknown causes 24	Influenza & pneumonia 4	Congenital abnormalities 7	Heart disease 11	Homicide 40	Liver disease 121	Suicide 142	Diabetes 205	Stroke 228	Alzheimer's disease 505	Chronic lower respiratory diseases 819	Alzheimer's disease 2,167
6	Homicide 10	Other viral diseases 3	Other metabolic disorders 3	Episodic & paroxysmal disorders 5	Cancer 35	Diabetes 50	Diabetes 86	Liver Disease 184	Accidents 199	Diabetes 308	Influenza & pneumonia 597	Stroke 2,064
7	Influenza & pneumonia 6	Disease of myoneural junction & muscle 2	Stroke 3	Cerebral Palsy 4	Diabetes 16	Homicide 28	Stroke 50	Stroke 140	Liver Disease 130	Accidents 302	Accidents 544	Diabetes 1,259
8	Other metabolic disorders 5	Other disorders of nervous system 2	Cerebral Palsy 2	Undetermined Intent 4	Influenza & pneumonia 12	Stroke 20	Chronic lower respiratory diseases 43	Suicide 105	Influenza & pneumonia 115	Influenza & pneumonia 206	Unspecified dementia 456	Influenza & pneumonia 991
9	Stroke 4	Undetermined intent 2	Episodic & paroxysmal disorders 2		Episodic & paroxysmal disorders 9	Mental & behavioral disorders due to alcohol 18	Mental & behavioral disorders due to alcohol 41	Septicemia 63	Alzheimer's disease 84	Parkinson's disease 186	Diabetes 350	Suicide 814
10	Other viral diseases 3	Unknown causes 2	Chronic lower respiratory diseases 2		Pregnancy & childbirth 8	Septicemia 16	Septicemia 33	Influenza & pneumonia 61	Septicemia 79	Septicemia 132	Hypertension 326	Liver disease 695
11	Undetermined intent 3	Cerebral Palsy 2	Undetermined Intent 2				Influenza & pneumonia 33					
	All other 18	All other 10	All other 13	All other 36	All other 99	All other 170	All other 367	All other 732	All other 1,211	All other 1,819	All other 2,947	All other 9,094

Top 5 causes of death are highlighted.

Source: South Dakota Vital Statistics Reports, 2014-2018