In 2018, cancer out ranked accidents in years of potential years lost (YPLL). For the five-year period 2014 to 2018, accidents ranked number one in YPLL. The number of years lost are shown in Figures 9 and 10 by race. There were 10,592 years of potential years lost due to cancer in 2018, compared to 9,904 years in 2008.

Table 11: Leading Causes of Years of Potential Life Lost (to 75 years of age), South Dakota, 2018

<table>
<thead>
<tr>
<th>Cause</th>
<th>White</th>
<th>American Indian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malignant Neoplasms</td>
<td>1171</td>
<td>1110</td>
</tr>
<tr>
<td>Accidents</td>
<td>6298</td>
<td>6518</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>3996</td>
<td>2083</td>
</tr>
<tr>
<td>Suicide &amp; Self-Inflicted Injury</td>
<td>1849</td>
<td>1569</td>
</tr>
<tr>
<td>Chronic Liver Disease and Cirrhosis</td>
<td>1826</td>
<td>990</td>
</tr>
<tr>
<td>Diabetes Mellitus</td>
<td>1275</td>
<td>637</td>
</tr>
<tr>
<td>Chronic Lower Respiratory Diseases</td>
<td>1235</td>
<td>173</td>
</tr>
<tr>
<td>Cerebrovascular Diseases</td>
<td>905</td>
<td>241</td>
</tr>
<tr>
<td>Homicide</td>
<td>1323</td>
<td>1705</td>
</tr>
<tr>
<td>Influenza and Pneumonia</td>
<td>577</td>
<td>376</td>
</tr>
<tr>
<td>Septicemia</td>
<td>577</td>
<td>376</td>
</tr>
<tr>
<td>Nephritis, Nephrotic Syndrome, and Nephrosis</td>
<td>149</td>
<td>149</td>
</tr>
<tr>
<td>Human Immunodeficiency Virus</td>
<td>149</td>
<td>149</td>
</tr>
<tr>
<td>Alzheimer's Disease</td>
<td>31</td>
<td>31</td>
</tr>
<tr>
<td>All Other Causes</td>
<td>3159</td>
<td>9227</td>
</tr>
</tbody>
</table>

Source: South Dakota Department of Health

Figure 9: Years of Potential Life Lost (YPLL) Before Age 75 for the Leading Causes of Death by Race, South Dakota, 2018

Figure 10: Years of Potential Life Lost (YPLL) Before Age 75 for the Leading Causes of Death by Race, South Dakota 2014-2018 Average*

* Number of years are averaged over the five-year period.
Source: South Dakota Department of Health

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The differences in YPLL in Figures 11 and 12 reflect the number of cancer cases by primary sites by race. For example, the YPLL in 2018 for lung and bronchus for whites was 2,011 for 202 deaths whereas the YPLL for American Indians was 178 years for 15 deaths. Not all cancers were present among the American Indian population during 2018, hence the differences in the cancer sites presented.

**Figure 11: Years of Potential Life Lost for Selected Cancers Among Whites, South Dakota, 2018**

- Lung & Bronchus: 2,011
- Colorectal: 977
- Female Breast: 835
- Brain & Nervous System: 757
- Pancreas: 718
- Liver & Intrahepatic Bile Ducts: 354
- Ovary: 338
- Esophagus: 331
- Leukemia: 320
- Kidney & Renal Pelvis: 307
- Melanoma of the Skin: 300
- Corpus & Uterus, NOS: 154
- Prostate: 144
- Cervix: 139
- Lips, Oral Cavity & Pharynx: 137
- Non-Hodgkins Lymphoma: 123
- Myeloma: 112
- Bladder: 108
- Myeloproliferative & Myelodysplastic: 98
- Stomach: 76
- Larynx: 35
- Thyroid: 33
- Mesothelioma: 5
- All Other & Unspecified: 909

**Figure 12: Years of Potential Life Lost for Selected Cancers Among American Indians, South Dakota, 2018**

- Lung & Bronchus: 178
- Brain & Nervous System: 145
- Colorectal: 85
- Stomach: 77
- Lips, Oral Cavity & Pharynx: 77
- Prostate: 63
- Female Breast: 63
- Non-Hodgkins Lymphoma: 58
- Liver & Intrahepatic Bile Ducts: 57
- Pancreas: 44
- Ovary: 42
- Cervix: 42
- Melanoma of the Skin: 20
- Bladder: 18
- Esophagus: 14
- Kidney & Renal Pelvis: 9
- Larynx: 4
- Leukemia: 3
- All Other & Unspecified: 172

Source: South Dakota Department of Health
IX. AVERAGE YEARS OF LIFE LOST

South Dakota’s average years of life lost (AYLL) due to cancer in 2018 was 11.8 years, a slight decrease from 12 years in 2017. Brain and nervous system cancer ranked first among cancer sites for American Indians at 36.3 years compared to whites where it ranked second with an average of 22.9 years.

Figure 13: Average Years of Life Lost for Selected Cancers Among Whites, South Dakota, 2018

- Cervix: 23.2
- Brain & Nervous System: 22.9
- Melanoma of the Skin: 16.7
- Female Breast: 15.2
- Corpus & Uterus, NOS: 14.0
- Colorectal: 13.4
- Leukemia: 12.8
- Lips, Oral Cavity & Pharynx: 12.5
- Kidney & Renal Pelvis: 11.8
- Liver & Intrahepatic Bile Ducts: 11.1
- Ovary: 10.9
- Pancreas: 10.4
- Myeloma: 10.2
- Esophagus: 10.0
- Lung & Bronchus: 10.0
- Stomach: 9.5
- Myeloproliferative & Myelodysplastic: 8.9
- Bladder: 8.3
- Thyroid: 8.3
- Prostate: 7.6
- Non-Hodgkins Lymphoma: 7.2
- Larynx: 5.8
- Mesothelioma: 5.0
- All Other & Unspecified: 11.8

Source: South Dakota Department of Health

Figure 14: Average Years of Life Lost for Selected Cancers Among American Indians, South Dakota, 2018

- Brain & Nervous System: 36.3
- Female Breast: 21.0
- Ovary: 21.0
- Cervix: 21.0
- Melanoma of the Skin: 20.0
- Non-Hodgkins Lymphoma: 19.3
- Lips, Oral Cavity & Pharynx: 19.3
- Bladder: 18.0
- Stomach: 15.4
- Lung & Bronchus: 11.9
- Colorectal: 10.6
- Prostate: 10.5
- Liver & Intrahepatic Bile Ducts: 9.5
- Kidney & Renal Pelvis: 9.0
- Pancreas: 8.8
- Esophagus: 7.0
- Larynx: 4.0
- Leukemia: 1.5
- All Other & Unspecified: 17.2

Source: South Dakota Department of Health
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