VIII. YEARS OF POTENTIAL LIFE LOST

In 2017, accidents once again out ranked cancer in years of potential years lost (YPLL). For the five-year period 2013 to 2017, cancer ranked number one in YPLL. The number of years lost are shown in Figures 9 and 10 by race. There were 10,870 years of potential years lost due to cancer in 2017, compared to 9,904 years in 2008.

Table 11: Leading Causes of Years of Potential Life Lost (to 75 years of age), South Dakota, 2017

<table>
<thead>
<tr>
<th>Cause</th>
<th>YPLL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accidents</td>
<td>11,589</td>
</tr>
<tr>
<td>Malignant Neoplasms</td>
<td>10,870</td>
</tr>
<tr>
<td>Heart Disease</td>
<td>7,202</td>
</tr>
<tr>
<td>Suicide &amp; Self-Inflicted Injury</td>
<td>6,479</td>
</tr>
<tr>
<td>Chronic Liver Disease and Cirrhosis</td>
<td>3,081</td>
</tr>
<tr>
<td>Diabetes Mellitus</td>
<td>2,016</td>
</tr>
<tr>
<td>Chronic Lower Respiratory Diseases</td>
<td>1,600</td>
</tr>
<tr>
<td>Homicide</td>
<td>1,522</td>
</tr>
<tr>
<td>Cerebrovascular Diseases</td>
<td>1,306</td>
</tr>
<tr>
<td>Influenza and Pneumonia</td>
<td>843</td>
</tr>
<tr>
<td>Septicemia</td>
<td>579</td>
</tr>
<tr>
<td>All Other Causes</td>
<td>14,923</td>
</tr>
</tbody>
</table>

Source: South Dakota Department of Health
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 2017 for lung and bronchus for whites was 2,154 for 204 deaths whereas the YPLL for American Indians was 239 years for 25 deaths. Not all cancers were present among the American Indian population during 2017, hence the differences in the cancer sites presented.

**Figure 11: Years of Potential Life Lost for Selected Cancers Among Whites, South Dakota, 2017**

- Lung & Bronchus: 2154
- Female Breast: 803
- Colorectal: 789
- Brain & Nervous System: 644
- Pancreas: 590
- Ovary: 468
- Esophagus: 370
- Liver & Intrahepatic Bile Ducts: 367
- Kidney & Renal Pelvis: 290
- Non-Hodgkins Lymphoma: 268
- Melanoma of the Skin: 200
- Leukemia: 193
- Myeloma: 193
- Corpus & Uterus, NOS: 192
- Lips, Oral Cavity & Pharynx: 162
- Stomach: 126
- Cervix: 123
- Bladder: 108
- Immunoproliferative Diseases: 78
- Myeloproliferative & Myelodysplastic: 70
- Prostate: 67
- Thyroid: 31
- Larynx: 20
- Hodgkins Lymphoma: 2
- All Other & Unspecified: 1206

**Figure 12: Years of Potential Life Lost for Selected Cancers Among American Indians, South Dakota, 2017**

- Lung & Bronchus: 239
- Colorectal: 138
- Leukemia: 86
- Pancreas: 67
- Liver & Intrahepatic Bile Ducts: 63
- Kidney & Renal Pelvis: 51
- Female Breast: 44
- Stomach: 44
- Myeloma: 37
- Brain & Nervous System: 35
- Esophagus: 34
- Immunoproliferative Diseases: 24
- Prostate: 24
- Lips, Oral Cavity & Pharynx: 14
- Thyroid: 5
- All Other & Unspecified: 274

Source: South Dakota Department of Health
South Dakota’s average years of life lost (AYLL) due to cancer in 2017 was 12 years, a slight decrease from 12.9 years in 2015. Kidney and renal cell cancer ranked first among cancer sites for American Indians at 25.5 years compared to whites where it ranked twelve with an average of 11.6 years.

**Figure 13: Average Years of Life Lost for Selected Cancers Among Whites, South Dakota, 2017**

- Cervix: 17.6
- Myeloproliferative & Myelodysplastic: 17.5
- Brain & Nervous System: 16.5
- Ovary: 16.1
- Stomach: 15.8
- Melanoma of the Skin: 14.3
- Female Breast: 14.1
- Myeloma: 12.9
- Corpus & Uterus, NOS: 12.0
- Colorectal: 12.0
- Liver & Intrahepatic Bile Ducts: 11.8
- Kidney & Renal Pelvis: 11.6
- Lung & Bronchus: 10.6
- Thyroid: 10.3
- Pancreas: 10.2
- Lips, Oral Cavity & Pharynx: 10.1
- Esophagus: 9.7
- Leukemia: 9.7
- Non-Hodgkins Lymphoma: 9.6
- Bladder: 7.7
- Immunoproliferative Diseases: 6.5
- Prostate: 6.1
- Larynx: 5.0
- Hodgkin Lymphoma: 2.0
- All Other & Unspecified: 13.4

**Figure 14: Average Years of Life Lost for Selected Cancers Among American Indians, South Dakota, 2017**

- Kidney & Renal Pelvis: 25.5
- Immunoproliferative Diseases: 24.0
- Stomach: 22.0
- Leukemia: 21.5
- Myeloma: 18.5
- Brain & Nervous System: 17.5
- Pancreas: 16.8
- Female Breast: 14.7
- Lips, Oral Cavity & Pharynx: 14.0
- Liver & Intrahepatic Bile Ducts: 12.6
- Colorectal: 12.5
- Esophagus: 11.3
- Lung & Bronchus: 9.6
- Prostate: 6.0
- Thyroid: 5.0
- All Other & Unspecified: 19.6

Source: South Dakota Department of Health
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