VII. CANCER MORTALITY

Cancer age-adjusted death rates for 2011 ranged from a low of 83.0 in Faulk County to a high of 723.3 in Buffalo County. South Dakota’s age adjusted death rate was 167.3 in 2011 compared to a 5-year death rate of 165.5.

In 2011, only three counties had a significantly lower rate than that of the entire state and one had a significantly higher rate. The five-year rates show nine counties having significantly lower rates and three counties with significantly higher rates. South Dakota’s mortality rate for 2007-2011 was 165.5 per 100,000 persons.

The United States mortality rate for 2011 is not available. The United States mortality rate was 171.8 and the South Dakota mortality rate was 169.7 per 100,000 persons in 2010. South Dakota’s mortality rate for 2011 is 167.3 per 100,000 persons.

The South Dakota 2011 mortality rates are displayed in a state map on page 15 of this report.

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* Counts less than three are suppressed. Mortality rates with counts less than 20 are generally considered unstable. ▲ Rate significantly higher; ▼ Rate significantly lower.

^ Number of the cases and rates are averaged over the five-year period.

Rates per 100,000 age-adjusted to 2000 US standard population and SD 2011 estimated population. Source: South Dakota Department of Health.
### Table 8: Age-adjusted Mortality Rates by County for Selected Sites, 2011

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- **Aurora**: 0 0.0 4 103.2 0 0.0 0 0.0 0 0.0
- **Beadle**: 3 11.2 11 40.2 6 45.7 * 17.2 0 0.0 * 6.3
- **Bennett**: * 55.5 * 28.9 0 0.0 * 70.5 0 0.0 * 0.0
- **Bon Homme**: 0 0.0 8 82.6 * 32.1 * 33.8 * 9.3 0 0.0 * 0.0
- **Brookings**: * 8.6 7 25.1 4 29.3 * 16.6 * 3.6 * 3.7
- **Brown**: 6 12.5 16 32.4 5 14.1 4 20.9 0 0.0 3 5.6
- **Brule**: * 35.5 4 44.8 * 22.0 0 0.0 * 8.5
- **Buffle**: 0 0.0 128.6 0 0.0 0 0.0 * 0.0
- **Butte**: 4 33.4 14 117.2 4 53.1 * 16.6 * 3.6 * 3.7
- **Campbell**: * 27.4 0 0.0 0 0.0 * 6.3
- **Charles Mix**: 4 28.1 4 31.4 0 0.0 * 31.7 * 5.9 3 20.9
- **Clark**: 0 0.0 3 25.3 * 31.4 * 22.5 0 0.0 * 8.2
- **Codington**: * 5.0 13 37.7 4 22.6 * 13.7 * 5.0 * 3.5
- **Corson**: * 23.6 * 14.6 * 23.5 0 0.0 * 14.6
- **Custer**: 4 31.5 6 49.4 * 20.0 0 0.0 0 0.0 0 0.0
- **Davison**: 3 8.6 7 25.1 4 29.3 * 16.6 * 3.6 * 3.7
- **Deuel**: * 27.4 0 0.0 0 0.0 * 6.3
- **Douglas**: 6 12.5 16 32.4 5 14.1 4 20.9 0 0.0 3 5.6
- **Edmunds**: * 27.4 * 14.6 * 23.5 0 0.0 * 14.6
- **Faulk**: 0 0.0 4 30.6 0 0.0 0 0.0 0 0.0
- **Grant**: * 18.9 3 27.6 * 39.9 3 55.4 0 0.0 * 6.7
- **Gregory**: * 14.8 3 67.9 0 0.0 0 0.0 0 0.0
- **Haakon**: 0 0.0 * 31.5 0 0.0 0 0.0 0 0.0 0 0.0
- **Hamlin**: 0 0.0 * 11.7 0 0.0 0 0.0 0 0.0
- **Hand**: 0 0.0 * 8.8 0 0.0 0 0.0 0 0.0
- **Hanson**: 0 0.0 3 84.0 0 0.0 * 63.7 0 0.0 0 0.0
- **Harding**: * 84.4 * 42.6 0 0.0 * 77.6 0 0.0 * 0.0
- **Hughes**: 5 24.7 7 36.3 * 21.8 * 14.8 * 11.5 * 8.8
- **Hutchinson**: 0 0.0 4 24.0 * 70.0 0 0.0 * 25.5
- **Hyde**: 0 0.0 * 47.4 0 0.0 0 0.0 0 0.0
- **Jackson**: * 30.8 3 90.6 0 0.0 0 0.0 * 36.0
- **Jerauld**: * 18.8 * 17.8 * 58.1 * 58.1 0 0.0 * 13.6
- **Jones**: * 48.2 * 60.9 * 167.1 0 0.0 * 45.6 0 0.0
- **Kingsbury**: 0 0.0 5 57.1 0 0.0 0 0.0 * 7.8
- **Lake**: * 14.0 5 28.3 * 25.4 0 0.0 * 4.7
- **Lawrence**: 4 10.7 17 53.9 4 21.0 7 46.9 4 11.3 * 3.7
- **Lincoln**: 7 20.3 18 48.8 5 21.5 3 19.6 * 2.2 0 0.0
- **Lyman**: 0 0.0 3 84.0 0 0.0 * 63.7 0 0.0 0 0.0
- **McCook**: * 13.0 7 82.1 * 26.0 * 22.6 0 0.0 0 0.0
- **McPherson**: * 39.2 * 55.7 0 0.0 * 56.3 0 0.0 0 0.0
- **Marshall**: * 27.0 * 23.4 * 14.6 * 26.6 * 12.8 0 0.0
- **Meade**: * 4.5 15 61.8 0 0.0 4 34.6 0 0.0
- **Melette**: * 54.0 5 220.5 0 0.0 * 96.4 0 0.0
- **Miner**: * 28.5 * 60.3 0 0.0 * 57.4 0 0.0
- **Minnehaha**: 22 11.9 93 55.7 29 31.5 11 17.2 12 6.9 17 10.1
- **Moody**: * 19.9 * 14.4 * 27.9 * 20.7 0 0.0 0 0.0
- **Pennington**: 11 9.3 60 50.2 15 24.4 9 18.2 * 1.5 8 6.1
- **Perkins**: 4 70.8 3 60.1 * 30.8 0 0.0 0 0.0 * 10.5
- **Potter**: * 17.0 4 69.3 0 0.0 0 0.0 0 0.0
- **Roberts**: * 11.4 6 41.1 * 21.9 * 33.7 * 7.5 * 6.8
- **Sanborn**: * 60.8 0 0.0 * 68.5 0 0.0 0 0.0
- **Shannon**: 3 37.6 3 46.8 * 30.8 3 99.6 0 0.0
- **Spink**: 0 0.0 3 31.2 * 14.3 0 0.0 0 0.0
- **Stanley**: * 17.4 3 77.7 * 52.1 0 0.0 0 0.0
- **Sully**: 0 0.0 * 47.5 0 0.0 * 108.0 0 0.0
- **Todd**: 0 0.0 4 79.6 * 48.9 * 59.6 * 27.0 0 0.0
- **Tripp**: * 13.3 3 29.4 0 0.0 0 0.0 * 6.5
- **Turner**: * 14.3 7 58.4 * 16.0 0 0.0 * 9.0 0 0.0
- **Union**: * 7.3 7 40.3 * 22.4 * 20.5 * 4.9
- **Walworth**: 3 29.1 4 36.0 * 12.6 0 0.0 0 0.0
- **Yankton**: 4 15.1 10 33.6 * 10.8 * 12.9 0 0.0 * 3.2
- **Ziebach**: 0 0.0 0 0.0 * 63.3 0 0.0 0 0.0

Note: * Counts less than 3 are suppressed. Mortality rates with counts less than 20 are generally considered unstable.

Rates per 100,000 age-adjusted to the 2000 US standard population and 2011 SD estimated population.

Source: South Dakota Department of Health
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<td>2</td>
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<td>0.6</td>
<td>2</td>
<td>7.1</td>
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<td>31</td>
<td>5.7</td>
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<td>11</td>
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Table 9: Age-adjusted Mortality Rates by Site, Gender, and Race, South Dakota, 2011 (continued)

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<tr>
<th>Site</th>
<th>TOTAL</th>
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<th>FEMALE</th>
<th>WHITE</th>
<th>AMERICAN INDIAN</th>
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<td>Deaths</td>
<td>Rate</td>
<td>Deaths</td>
<td>Rate</td>
<td>Deaths</td>
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<tr>
<td>------------------------------</td>
<td>--------</td>
<td>----------</td>
<td>-----------</td>
<td>----------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Male</td>
<td>88</td>
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<td>88</td>
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<td>82</td>
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<td>0</td>
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<td>Prostate</td>
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<td>88</td>
<td>20.8</td>
<td>82</td>
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<td>0.0</td>
<td>0</td>
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<td>58</td>
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<td>31</td>
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<td>3.3</td>
<td>24</td>
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<td>10</td>
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<td>Kidney and Renal Pelvis</td>
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<td>31</td>
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<td>0.7</td>
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<td>2</td>
<td>0.4</td>
<td>0</td>
</tr>
<tr>
<td>Brain and CNS</td>
<td>54</td>
<td>5.8</td>
<td>27</td>
<td>6.1</td>
<td>27</td>
</tr>
<tr>
<td>Brain</td>
<td>52</td>
<td>5.5</td>
<td>26</td>
<td>6.9</td>
<td>26</td>
</tr>
<tr>
<td>Meninges and CNS</td>
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<td>0.2</td>
<td>1</td>
</tr>
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<td>4</td>
<td>0.9</td>
<td>3</td>
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<td>4</td>
<td>0.9</td>
<td>3</td>
</tr>
<tr>
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<td>0</td>
<td>0.0</td>
<td>0</td>
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<td>Lymphomas</td>
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<td>43</td>
<td>9.8</td>
<td>22</td>
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<td>0.6</td>
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<td>41</td>
<td>9.3</td>
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<td>17</td>
<td>3.9</td>
<td>22</td>
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<td>77</td>
<td>7.9</td>
<td>51</td>
<td>11.6</td>
<td>26</td>
</tr>
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<td>Acute Lymphocytic</td>
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<td>2</td>
<td>0.4</td>
<td>1</td>
</tr>
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<td>13</td>
<td>3.0</td>
<td>10</td>
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<td>Other Lymphocytic</td>
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<td>1</td>
<td>0.3</td>
<td>0</td>
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<td>16</td>
<td>3.6</td>
<td>9</td>
</tr>
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<td>0</td>
<td>0.0</td>
<td>1</td>
</tr>
<tr>
<td>Chronic Myeloid</td>
<td>4</td>
<td>0.4</td>
<td>4</td>
<td>0.9</td>
<td>0</td>
</tr>
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<td>0.0</td>
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<td>9</td>
<td>2.1</td>
<td>3</td>
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<td>Other Leukemia</td>
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<td>1.4</td>
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<td>60</td>
<td>14.4</td>
<td>54</td>
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</table>

Rates per 100,000 age-adjusted to the 2000 US standard population and 2011 SD estimated population.
Source: South Dakota Department of Health

Table 9 shows death and age-adjusted death rates by SEER recode primary sites (Appendix D), gender and race. Approximately 1,600 persons die from cancer in South Dakota each year with little or no change in counts. Overall more males than females die from cancer, but that is starting to change as recent years of data have started to show.
### Table 10: Percentage of Cancer Deaths by Age Groups and Selected Primary Sites, South Dakota, 2011

<table>
<thead>
<tr>
<th>Age Group</th>
<th>0-19</th>
<th>20-34</th>
<th>35-49</th>
<th>50-64</th>
<th>65-74</th>
<th>75-84</th>
<th>85+</th>
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<tbody>
<tr>
<td>All Sites</td>
<td>0%</td>
<td>0%</td>
<td>4%</td>
<td>20%</td>
<td>22%</td>
<td>31%</td>
<td>22%</td>
</tr>
<tr>
<td>Bladder</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>15%</td>
<td>15%</td>
<td>29%</td>
<td>41%</td>
</tr>
<tr>
<td>Female Breast</td>
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<td>0%</td>
<td>7%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>17%</td>
</tr>
<tr>
<td>Colorectal</td>
<td>0%</td>
<td>0%</td>
<td>4%</td>
<td>13%</td>
<td>24%</td>
<td>33%</td>
<td>27%</td>
</tr>
<tr>
<td>Corpus and Uterus, NOS</td>
<td>0%</td>
<td>0%</td>
<td>10%</td>
<td>19%</td>
<td>19%</td>
<td>19%</td>
<td>32%</td>
</tr>
<tr>
<td>Meninges, Brain and CNS</td>
<td>4%</td>
<td>0%</td>
<td>7%</td>
<td>31%</td>
<td>19%</td>
<td>28%</td>
<td>11%</td>
</tr>
<tr>
<td>Kidney and Renal Pelvis</td>
<td>0%</td>
<td>0%</td>
<td>2%</td>
<td>20%</td>
<td>33%</td>
<td>25%</td>
<td>20%</td>
</tr>
<tr>
<td>Leukemia</td>
<td>4%</td>
<td>0%</td>
<td>3%</td>
<td>22%</td>
<td>16%</td>
<td>34%</td>
<td>22%</td>
</tr>
<tr>
<td>Lung and Bronchus</td>
<td>0%</td>
<td>0%</td>
<td>2%</td>
<td>22%</td>
<td>26%</td>
<td>36%</td>
<td>14%</td>
</tr>
<tr>
<td>Melanoma of the Skin</td>
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<td>0%</td>
<td>2%</td>
<td>20%</td>
<td>20%</td>
<td>20%</td>
<td>20%</td>
</tr>
<tr>
<td>Non-Hodgkin's Lymphoma</td>
<td>2%</td>
<td>2%</td>
<td>2%</td>
<td>16%</td>
<td>23%</td>
<td>24%</td>
<td>32%</td>
</tr>
<tr>
<td>Pancreas</td>
<td>0%</td>
<td>0%</td>
<td>3%</td>
<td>20%</td>
<td>21%</td>
<td>28%</td>
<td>27%</td>
</tr>
<tr>
<td>Prostate</td>
<td>0%</td>
<td>0%</td>
<td>1%</td>
<td>13%</td>
<td>17%</td>
<td>40%</td>
<td>30%</td>
</tr>
</tbody>
</table>

Source: South Dakota Department of Health

Overall, in 2011 more persons 75 to 84 years of age died from cancer in South Dakota than any other age group (Table 10). However, there would be cause for concern if too many people die from cancer at a young age.

**Figure 8: All Sites Cancer Mortality Rates by Race, and Gender, South Dakota, 2011**

Note: Rates per 100,000 age-adjusted to 2000 US standard population and 2011 SD estimated population. Source: South Dakota Department of Health

Figure 8 illustrates that males had higher death rates than females. American Indian males and females had higher death rates than whites.