### Table 49. Renewable Energy: 2017 and 2012

<table>
<thead>
<tr>
<th>Item</th>
<th>2017</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable energy producing systems ......................................</td>
<td>4,609</td>
<td>2,013</td>
</tr>
<tr>
<td>Solar panels ........................................................................</td>
<td>3,768</td>
<td>1,363</td>
</tr>
<tr>
<td>Wind turbines ........................................................................</td>
<td>627</td>
<td>339</td>
</tr>
<tr>
<td>Methane digesters ..................................................................</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Geothermal/geoexchange systems (see text) ................................</td>
<td>438</td>
<td>153</td>
</tr>
</tbody>
</table>

### Table 50. Institutional, Research, Experimental, and American Indian Reservation Farms: 2017 and 2012

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>2017</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farms .................................................................................</td>
<td>180</td>
<td>132</td>
</tr>
<tr>
<td>Land in farms .....................................................................</td>
<td>1,136,625</td>
<td>1,016,944</td>
</tr>
<tr>
<td>Average size of farm ................................................................</td>
<td>6,316</td>
<td>7,701</td>
</tr>
<tr>
<td>Estimated market value of land and buildings ................................</td>
<td>$1,000</td>
<td>$1,000</td>
</tr>
<tr>
<td>Average per farm ...................................................................</td>
<td>3,812,384</td>
<td>3,194,042</td>
</tr>
<tr>
<td>Average per acre ...................................................................</td>
<td>561</td>
<td>415</td>
</tr>
<tr>
<td>Estimated market value of all machinery and equipment .......................</td>
<td>$1,000</td>
<td>$1,000</td>
</tr>
<tr>
<td>Land in farms according to use: ............................................</td>
<td>33,387</td>
<td>24,511</td>
</tr>
<tr>
<td>Total rent on land and buildings ...........................................</td>
<td>$1,000</td>
<td>$1,000</td>
</tr>
<tr>
<td>Average per farm ...................................................................</td>
<td>999</td>
<td>999</td>
</tr>
<tr>
<td>Harvested cropland ...................................................................</td>
<td>43,102</td>
<td>39,326</td>
</tr>
<tr>
<td>Other pasture and grazing land that could be used for crops without additional improvements</td>
<td>1,512</td>
<td>394</td>
</tr>
<tr>
<td>Other cropland .......................................................................</td>
<td>24,986</td>
<td>20,768</td>
</tr>
<tr>
<td>Total cropland ......................................................................</td>
<td>1,16,652</td>
<td>17,826</td>
</tr>
<tr>
<td>Woodland pastured ...................................................................</td>
<td>5,090</td>
<td>5,100</td>
</tr>
<tr>
<td>Woodland not pastured ..........................................................</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>Permanent pasture and rangeland other than cropland and woodland pastured</td>
<td>983,980</td>
<td>852,913</td>
</tr>
<tr>
<td>Irrigated land .......................................................................</td>
<td>27,799</td>
<td>17,312</td>
</tr>
<tr>
<td>Market value of agricultural products sold (see text) .......................</td>
<td>$1,000</td>
<td>$1,000</td>
</tr>
<tr>
<td>Average per farm ...................................................................</td>
<td>211,872</td>
<td>295,638</td>
</tr>
</tbody>
</table>

1 Data for 2012 include loan deficiency payments, marketing loan gains, and net value of commodity certificates.