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

[For meaning of abbreviations and symbols, see introductory text.]

<table>
<thead>
<tr>
<th>Item</th>
<th>2017</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable energy producing systems .............................................. farms</td>
<td>1,444</td>
<td>794</td>
</tr>
<tr>
<td>Solar panels .............................................................................. farms</td>
<td>1,337</td>
<td>739</td>
</tr>
<tr>
<td>Wind turbines ............................................................................. farms</td>
<td>135</td>
<td>135</td>
</tr>
<tr>
<td>Methane digesters ........................................................................ farms</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Geothermal/geoexchange systems (see text) ..................................... farms</td>
<td>7</td>
<td>3</td>
</tr>
</tbody>
</table>

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

[For meaning of abbreviations and symbols, see introductory text.]

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>2017</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farms number</td>
<td>105</td>
<td>80</td>
</tr>
<tr>
<td>Land in farms acres</td>
<td>12,104,730</td>
<td>19,807,495</td>
</tr>
<tr>
<td>Average size of farm acres</td>
<td>115,283</td>
<td>247,594</td>
</tr>
<tr>
<td>Estimated market value of land and buildings $1,000</td>
<td>2,529,506</td>
<td>3,932,343</td>
</tr>
<tr>
<td>Average per farm dollars</td>
<td>24,090,535</td>
<td>49,154,291</td>
</tr>
<tr>
<td>Average per acre dollars</td>
<td>209</td>
<td>199</td>
</tr>
<tr>
<td>Estimated market value of all machinery and equipment $1,000</td>
<td>33,241</td>
<td>23,865</td>
</tr>
<tr>
<td>Land in farms according to use:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total cropland ............................................................................. farms</td>
<td>49</td>
<td>31</td>
</tr>
<tr>
<td>Harvested cropland ................................................................... farms</td>
<td>46</td>
<td>25</td>
</tr>
<tr>
<td>Other pasture and grazing land that could have been used for crops without additional improvements ............................................................................. farms</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Other cropland ........................................................................... acres</td>
<td>40</td>
<td>19</td>
</tr>
<tr>
<td>Total woodland ........................................................................... farms</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Woodland pastured ..................................................................... farms</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Woodland not pastured ............................................................... farms</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Permanent pasture and rangeland other than cropland and woodland pastured ............................................................................. farms</td>
<td>55</td>
<td>62</td>
</tr>
<tr>
<td>Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. ............................................................................. farms</td>
<td>57</td>
<td>57</td>
</tr>
<tr>
<td>Irrigated land ............................................................................. farms</td>
<td>46</td>
<td>27</td>
</tr>
<tr>
<td>Market value of agricultural products sold (see text) $1,000</td>
<td>82,676</td>
<td>83,514</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>2017</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Renewable energy producing systems - Con. farms</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>Small hydro systems .............................................. farms</td>
<td>12</td>
<td>17</td>
</tr>
<tr>
<td>Biodiesel production systems (see text) ................................ farmers</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Ethanol production systems (see text) ................................ farmers</td>
<td>100</td>
<td>38</td>
</tr>
<tr>
<td>Wind rights leased to others .................................................. farms</td>
<td>25</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>2017</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Market value of agricultural products sold (see text) $1,000</td>
<td>78,720</td>
<td>80,450</td>
</tr>
<tr>
<td>Crops, including nursery and greenhouse crops $1,000</td>
<td>72,164</td>
<td>67,824</td>
</tr>
<tr>
<td>Livestock, poultry, and their products $1,000</td>
<td>687,273</td>
<td>847,806</td>
</tr>
<tr>
<td>Government payments 1 (see text) .................................................. farms</td>
<td>13</td>
<td>26</td>
</tr>
<tr>
<td>Average per farm dollars</td>
<td>1,043,927</td>
<td>1,009,277</td>
</tr>
<tr>
<td>Total income from farm-related sources $1,000</td>
<td>116,042</td>
<td>99,107</td>
</tr>
<tr>
<td>Average per farm dollars</td>
<td>2,746,468</td>
<td>4,681</td>
</tr>
<tr>
<td>Average per acre dollars</td>
<td>94,692</td>
<td>246,359</td>
</tr>
<tr>
<td>Oliseed and grain farming (1111)</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Vegetable and melon farming (1112)</td>
<td>9</td>
<td>3</td>
</tr>
<tr>
<td>Greenhouse, nursery, and floriculture production (1114)</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Other crop farming (1119)</td>
<td>18</td>
<td>17</td>
</tr>
<tr>
<td>Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199)</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Beef cattle ranching and farming (112111)</td>
<td>29</td>
<td>30</td>
</tr>
<tr>
<td>Cattle feedlots (112112)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Dairy cattle and milk production (112122)</td>
<td>9</td>
<td>1</td>
</tr>
<tr>
<td>Hog and pig farming (11222)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Poultry and egg production (1123)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Sheep and goat farming (1124)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Aquaculture and other animal production (1125, 1129) (see text)</td>
<td>32</td>
<td>24</td>
</tr>
</tbody>
</table>

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