

**Table 49. Renewable Energy: 2022 and 2017**

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

Item	2022	2017	Item	2022	2017
Renewable energy producing systems (see text) ..... farms	153,101	133,176	Renewable energy producing systems (see text) - Con.		
Solar panels ..... farms	116,758	90,142	Geothermal/geoexchange systems ..... farms	28,527	30,343
Wind turbines ..... farms	14,511	14,136	Small hydro systems ..... farms	2,559	1,710
Methane digesters ..... farms	680	686	Wind rights leased to others ..... farms	20,476	20,072

**Table 50. Institutional, Research, Experimental, and American Indian Reservation Farms: 2022 and 2017**

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

Characteristics	2022	2017	Characteristics	2022	2017
Farms ..... number	5,142	5,037	Market value of agricultural products sold - Con.		
Land in farms ..... acres	49,092,504	39,507,636	Crops, including nursery and greenhouse crops ..... \$1,000	730,766	500,926
Average size of farm ..... acres	9,547	7,843	Livestock, poultry, and their products ..... \$1,000	981,917	929,449
Estimated market value of land and buildings ..... \$1,000	32,762,981	26,669,729	Total farm production expenses <sup>1</sup> ..... \$1,000	1,716,650	1,488,047
Average per farm ..... dollars	6,371,642	5,294,765	Average per farm ..... dollars	333,849	295,423
Average per acre ..... dollars	667	675	Government payments ..... farms	351	629
Estimated market value of all machinery and equipment ..... \$1,000	1,099,032	980,228	Average per farm ..... \$1,000	12,235	14,857
Land in farms according to use:			Average per farm ..... dollars	34,857	23,621
Total cropland ..... farms	3,112	3,082	Total income from farm-related sources ..... farms	1,544	1,599
Harvested cropland ..... farms	1,179,810	1,054,588	Average per farm ..... \$1,000	159,083	136,097
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	309	328	Tenure:		
Other cropland ..... farms	81,619	74,306	Full owners ..... farms	3,887	3,897
Other cropland ..... acres	1,046	1,284	Part owners ..... farms	695	630
Total woodland ..... farms	1,363	1,408	Tenants ..... farms	560	510
Woodland pastured ..... farms	4,370,615	4,883,353	Farms by North American Industry Classification System:		
Woodland not pastured ..... farms	2,314,596	2,585,080	Oilseed and grain farming (1111) .....	691	611
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	2,155	2,052	Vegetable and melon farming (1112) .....	300	232
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	3,349	3,309	Fruit and tree nut farming (1113) .....	239	237
Irrigated land ..... farms	1,582	1,483	Greenhouse, nursery, and floriculture production (1114) .....	418	449
Market value of agricultural products sold ..... \$1,000	1,712,683	1,430,375	Other crop farming (1119) .....	805	913
Average per farm ..... dollars	333,077	283,974	Tobacco farming (1191) .....	1	4
			Cotton farming (1192) .....	29	25
			Sugarcane farming, hay farming, and all other crop farming (1193, 11194, 11199) .....	775	884
			Beef cattle ranching and farming (112111) .....	539	550
			Cattle feedlots (112112) .....	36	40
			Dairy cattle and milk production (11212) .....	85	97
			Hog and pig farming (1122) .....	93	95
			Poultry and egg production (1123) .....	65	53
			Sheep and goat farming (1124) .....	89	107
			Aquaculture and other animal production (1125, 1129) .....	1,782	1,653

<sup>1</sup> Landlord production expenses are included within total farm production expenses.