

**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	2,729	2,587	Renewable energy producing systems (see text) - Con.		
Solar panels ..... farms	2,543	2,428	Geothermal/geoexchange systems ..... farms	50	32
Wind turbines ..... farms	207	186	Small hydro systems ..... farms	51	23
Methane digesters ..... farms	13	-	Wind rights leased to others ..... farms	245	213

**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	149	115	Market value of agricultural products sold - Con.		
Land in farms ..... acres	4,827,896	3,373,704	Crops, including nursery and greenhouse crops ..... \$1,000	(D)	(D)
Average size of farm ..... acres	32,402	29,337	Livestock, poultry, and their products ..... \$1,000	(D)	(D)
Estimated market value of land and buildings ..... \$1,000	1,132,013	832,745	Total farm production expenses <sup>1</sup> ..... \$1,000	79,750	40,385
Average per farm ..... dollars	7,597,402	7,241,262	Average per farm ..... dollars	535,237	351,178
Average per acre ..... dollars	234	247	Government payments ..... farms	29	8
Estimated market value of all machinery and equipment ..... \$1,000	23,972	16,518	Average per farm ..... \$1,000	1,418	919
Land in farms according to use:			Average per farm ..... dollars	48,887	114,865
Total cropland ..... farms	67	44	Total income from farm-related sources ..... farms	24	14
Harvested cropland ..... acres	(D)	(D)	Average per farm ..... \$1,000	4,796	(D)
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	6	9	Tenure:		
Other cropland ..... acres	(D)	685	Full owners ..... farms	86	98
Other cropland ..... farms	40	19	Part owners ..... farms	14	9
Other cropland ..... acres	16,484	22,379	Tenants ..... farms	49	8
Total woodland ..... farms	13	17	Farms by North American Industry Classification System:		
Woodland pastured ..... acres	981,147	825,307	Oilseed and grain farming (1111) ..... farms	9	3
Woodland not pastured ..... acres	898,228	816,551	Vegetable and melon farming (1112) ..... farms	8	8
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	94	80	Fruit and tree nut farming (1113) ..... farms	4	5
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... acres	3,761,607	2,484,830	Greenhouse, nursery, and floriculture production (1114) ..... farms	3	3
Irrigated land ..... farms	57	50	Other crop farming (1119) ..... farms	33	19
Irrigated land ..... acres	(D)	(D)	Tobacco farming (11191) ..... farms	-	-
Market value of agricultural products sold ..... \$1,000	71,318	36,456	Cotton farming (11192) ..... farms	-	-
Average per farm ..... dollars	478,646	317,009	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	33	19
			Beef cattle ranching and farming (112111) ..... farms	29	19
			Cattle feedlots (112112) ..... farms	1	-
			Dairy cattle and milk production (11212) ..... farms	-	-
			Hog and pig farming (1122) ..... farms	-	-
			Poultry and egg production (1123) ..... farms	-	-
			Sheep and goat farming (1124) ..... farms	1	2
			Aquaculture and other animal production (1125, 1129) ..... farms	61	56

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