

**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	3,234	3,283	Renewable energy producing systems (see text) - Con.		
Solar panels ..... farms	2,683	2,493	Geothermal/geoexchange systems ..... farms	420	306
Wind turbines ..... farms	368	490	Small hydro systems ..... farms	5	51
Methane digesters ..... farms	22	46	Wind rights leased to others ..... farms	466	519

**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	86	78	Market value of agricultural products sold - Con.		
Land in farms ..... acres	38,747	37,032	Crops, including nursery and greenhouse crops ..... \$1,000	8,472	3,669
Average size of farm ..... acres	451	475	Livestock, poultry, and their products ..... \$1,000	19,812	15,420
Estimated market value of land and buildings ..... \$1,000	159,024	196,980	Total farm production expenses <sup>1</sup> ..... \$1,000	28,748	21,088
Average per farm ..... dollars	1,849,115	2,525,390	Average per farm ..... dollars	334,279	270,361
Average per acre ..... dollars	4,104	5,319	Government payments ..... farms	4	1
Estimated market value of all machinery and equipment ..... \$1,000	22,022	14,786	Average per farm ..... \$1,000	(D)	(D)
Land in farms according to use:			Average per farm ..... dollars	(D)	(D)
Total cropland ..... farms	54	48	Total income from farm-related sources ..... farms	27	31
Harvested cropland ..... farms	52	46	Average per farm ..... \$1,000	222	2,217
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	8	3	Average per farm ..... dollars	8,212	71,506
Other cropland ..... farms	547	276	Tenure:		
Woodland ..... farms	21	29	Full owners ..... farms	73	66
Woodland pastured ..... farms	4	7	Part owners ..... farms	6	6
Woodland not pastured ..... farms	45	38	Tenants ..... farms	7	6
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	25	26	Farms by North American Industry Classification System:		
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	68	69	Oilseed and grain farming (1111) ..... farms	5	5
Irrigated land ..... farms	29	28	Vegetable and melon farming (1112) ..... farms	15	12
Market value of agricultural products sold ..... \$1,000	28,284	19,088	Fruit and tree nut farming (1113) ..... farms	7	4
Average per farm ..... dollars	328,883	244,723	Greenhouse, nursery, and floriculture production (1114) ..... farms	7	10
			Other crop farming (1119) ..... farms	10	9
			Tobacco farming (1191) ..... farms	-	-
			Cotton farming (1192) ..... farms	-	-
			Sugarcane farming, hay farming, and all other crop farming (1193, 11194, 11199) ..... farms	10	9
			Beef cattle ranching and farming (11211) ..... farms	-	1
			Cattle feedlots (11212) ..... farms	-	-
			Dairy cattle and milk production (11212) ..... farms	6	7
			Hog and pig farming (1122) ..... farms	-	-
			Poultry and egg production (1123) ..... farms	4	-
			Sheep and goat farming (1124) ..... farms	2	4
			Aquaculture and other animal production (1125, 1129) ..... farms	30	26

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