

**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	1,695	1,277	Renewable energy producing systems (see text) - Con.		
Solar panels ..... farms	1,573	1,081	Geothermal/geoexchange systems ..... farms	111	115
Wind turbines ..... farms	65	97	Small hydro systems ..... farms	44	31
Methane digesters ..... farms	12	7	Wind rights leased to others ..... farms	30	35

**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	68	79	Market value of agricultural products sold - Con.		
Land in farms ..... acres	4,194,030	4,254,412	Crops, including nursery and greenhouse crops ..... \$1,000	20,685	12,463
Average size of farm ..... acres	61,677	53,853	Livestock, poultry, and their products ..... \$1,000	55,843	43,467
Estimated market value of land and buildings ..... \$1,000	1,600,448	1,149,926	Total farm production expenses <sup>1</sup> ..... \$1,000	68,305	41,821
Average per farm ..... dollars	23,535,995	14,556,027	Average per farm ..... dollars	1,004,486	529,379
Average per acre ..... dollars	382	270	Government payments ..... farms	2	7
Estimated market value of all machinery and equipment ..... \$1,000	29,942	31,361	Average per farm ..... \$1,000 (D)	(D)	110
Land in farms according to use:			Average per farm ..... dollars (D)	(D)	15,729
Total cropland ..... farms	30	46	Total income from farm-related sources ..... farms	25	32
Harvested cropland ..... acres	31,102	37,510	Average per farm ..... \$1,000	3,975	4,832
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	1	1	Average per farm ..... dollars	159,019	150,997
Other cropland ..... acres (D)	(D)	(D)	Tenure:		
Total woodland ..... farms	5	5	Full owners ..... farms	62	69
Woodland pastured ..... acres (D)	(D)	(D)	Part owners ..... farms	5	8
Woodland not pastured ..... farms	5	5	Tenants ..... farms	1	2
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	38	37	Farms by North American Industry Classification System:		
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	33	41	Oilseed and grain farming (1111) ..... farms	4	7
Irrigated land ..... acres	27,068	22,074	Vegetable and melon farming (1112) ..... farms	3	7
Market value of agricultural products sold ..... \$1,000	76,528	55,930	Fruit and tree nut farming (1113) ..... farms	1	1
Average per farm ..... dollars	1,125,410	707,979	Greenhouse, nursery, and floriculture production (1114) ..... farms	3	1
			Other crop farming (1119) ..... farms	13	21
			Tobacco farming (1191) ..... farms	-	-
			Cotton farming (1192) ..... farms	-	-
			Sugarcane farming, hay farming, and all other crop farming (1193, 11194, 11199) ..... farms	13	21
			Beef cattle ranching and farming (11211) ..... farms	11	10
			Cattle feedlots (11212) ..... farms	-	1
			Dairy cattle and milk production (11212) ..... farms	1	2
			Hog and pig farming (1122) ..... farms	-	-
			Poultry and egg production (1123) ..... farms	3	1
			Sheep and goat farming (1124) ..... farms	-	-
			Aquaculture and other animal production (1125, 1129) ..... farms	29	28

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