

**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	1,461	1,421	Renewable energy producing systems (see text) - Con.		
Solar panels ..... farms	1,352	1,245	Geothermal/geoexchange systems ..... farms	57	73
Wind turbines ..... farms	165	158	Small hydro systems ..... farms	15	5
Methane digesters ..... farms	6	4	Wind rights leased to others ..... farms	115	139

**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	135	118	Market value of agricultural products sold - Con.		
Land in farms ..... acres	3,142,923	2,307,104	Crops, including nursery and greenhouse crops ..... \$1,000	1,287	510
Average size of farm ..... acres	23,281	19,552	Livestock, poultry, and their products ..... \$1,000	13,129	9,096
Estimated market value of land and buildings ..... \$1,000	2,081,223	891,794	Total farm production expenses <sup>1</sup> ..... \$1,000	23,198	12,234
Average per farm ..... dollars	15,416,470	7,557,580	Average per farm ..... dollars	171,835	103,676
Average per acre ..... dollars	662	387	Government payments ..... farms	2	7
Estimated market value of all machinery and equipment ..... \$1,000	18,683	14,641	Average per farm ..... \$1,000 (D)	(D)	79
Land in farms according to use:			Average per farm ..... dollars (D)	(D)	11,237
Total cropland ..... farms	24	21	Total income from farm-related sources ..... farms	24	27
Harvested cropland ..... acres	10,916	10,610	Average per farm ..... \$1,000	7,339	2,007
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	11	7	Average per farm ..... dollars	305,789	74,332
Other cropland ..... acres	3,823	(D)	Tenure:		
Other cropland ..... farms	4	5	Full owners ..... farms	56	64
Other cropland ..... acres	(D)	(D)	Part owners ..... farms	68	47
Total woodland ..... farms	5	10	Tenants ..... farms	11	7
Woodland pastured ..... acres	(D)	8,255	Farms by North American Industry Classification System:		
Woodland not pastured ..... farms	3	6	Oilseed and grain farming (1111) ..... farms	2	-
Woodland not pastured ..... acres	(D)	6,806	Vegetable and melon farming (112) ..... farms	-	-
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	120	102	Fruit and tree nut farming (1113) ..... farms	-	-
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	35	39	Greenhouse, nursery, and floriculture production (1114) ..... farms	-	-
Irrigated land ..... acres	18,272	6,301	Other crop farming (1119) ..... farms	10	15
Market value of agricultural products sold ..... \$1,000	14,416	9,606	Tobacco farming (1191) ..... farms	-	-
Average per farm ..... dollars	106,783	81,406	Cotton farming (1192) ..... farms	-	-
			Sugarcane farming, hay farming, and all other crop farming (1193, 11194, 11199) ..... farms	10	15
			Beef cattle ranching and farming (112111) ..... farms	15	18
			Cattle feedlots (112112) ..... farms	1	1
			Dairy cattle and milk production (11212) ..... farms	2	-
			Hog and pig farming (1122) ..... farms	-	-
			Poultry and egg production (1123) ..... farms	-	-
			Sheep and goat farming (1124) ..... farms	5	4
			Aquaculture and other animal production (1125, 1129) ..... farms	100	80

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