

**Table 49. Renewable Energy: 2017 and 2012**

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

Item	2017	2012	Item	2017	2012
Renewable energy producing systems ..... farms	2,555	1,087	Renewable energy producing systems - Con.		
Solar panels ..... farms	1,999	847	Small hydro systems ..... farms	35	39
Wind turbines ..... farms	274	189	Biodiesel production systems (see text) ..... farms	22	22
Methane digesters ..... farms	2	4	Ethanol production systems (see text) ..... farms	7	11
Geothermal/geoexchange systems (see text) ..... farms	337	124	Other ..... farms	129	31
			Wind rights leased to others ..... farms	186	101

**Table 50. Institutional, Research, Experimental, and American Indian Reservation Farms: 2017 and 2012**

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

Characteristics	2017	2012	Characteristics	2017	2012
Farms ..... number	183	124	Market value of agricultural products sold (see text) - Con.		
Land in farms ..... acres	4,241,165	3,498,691	Crops, including nursery and greenhouse crops ..... \$1,000	5,541	6,489
Average size of farm ..... acres	23,176	28,215	Livestock, poultry, and their products ..... \$1,000	17,422	15,732
Estimated market value of land and buildings ..... \$1,000	1,536,974	1,241,565	Total farm production expenses ..... \$1,000	22,995	39,528
Average per farm ..... dollars	8,398,763	10,012,625	Average per farm ..... dollars	125,658	318,776
Average per acre ..... dollars	362	355	Government payments <sup>1</sup> (see text) ..... farms	40	23
Estimated market value of all machinery and equipment ..... \$1,000	23,531	16,525	..... \$1,000	1,617	1,143
Land in farms according to use:			Average per farm ..... dollars	40,430	49,675
Total cropland ..... farms	82	68	Total income from farm-related sources ..... farms	103	57
..... acres	76,907	64,222	..... \$1,000	9,127	18,298
Harvested cropland ..... farms	46	48	Average per farm ..... dollars	88,611	321,024
..... acres	23,916	23,924	Tenure of producer (see text):		
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	15	3	Full owners ..... farms	130	92
..... acres	13,426	46	Part owners ..... farms	32	10
Other cropland ..... farms	52	39	Tenants ..... farms	21	22
..... acres	39,565	40,252	Farms by North American Industry Classification System:		
Total woodland ..... farms	38	40	Oilseed and grain farming (1111) ..... farms	8	11
..... acres	1,085,822	911,561	Vegetable and melon farming (1112) ..... farms	3	3
Woodland pastured ..... farms	27	30	Fruit and tree nut farming (1113) ..... farms	1	-
..... acres	418,270	661,503	Greenhouse, nursery, and floriculture production (1114) ..... farms	5	5
Woodland not pastured ..... farms	21	19	Other crop farming (1119) ..... farms	49	31
..... acres	667,552	250,058	Tobacco farming (11191) ..... farms	-	-
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	130	70	Cotton farming (11192) ..... farms	-	-
..... acres	3,023,789	2,510,836	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	49	31
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	92	83	Beef cattle ranching and farming (112111) ..... farms	22	14
..... acres	54,647	12,072	Cattle feedlots (112112) ..... farms	-	-
Irrigated land ..... farms	52	39	Dairy cattle and milk production (11212) ..... farms	1	2
..... acres	27,693	10,247	Hog and pig farming (1122) ..... farms	1	1
Market value of agricultural products sold (see text) ..... \$1,000	22,963	22,221	Poultry and egg production (1123) ..... farms	1	-
Average per farm ..... dollars	125,481	179,204	Sheep and goat farming (1124) ..... farms	3	1
			Aquaculture and other animal production (1125, 1129) (see text) ..... farms	89	56

<sup>1</sup> Data for 2012 include loan deficiency payments, marketing loan gains, and net value of commodity certificates.