

**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	1,656	565	Renewable energy producing systems - Con.		
Solar panels ..... farms	870	268	Small hydro systems ..... farms	26	-
Wind turbines ..... farms	330	142	Biodiesel production systems (see text) ..... farms	-	-
Methane digesters ..... farms	-	-	Ethanol production systems (see text) ..... farms	-	-
Geothermal/geoexchange systems (see text) ..... farms	540	161	Other ..... farms	2	7
			Wind rights leased to others ..... farms	490	239

**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	43	42	Market value of agricultural products sold (see text) - Con.		
Land in farms ..... acres	823,123	739,291	Crops, including nursery and greenhouse crops ..... \$1,000	4,063	6,565
Average size of farm ..... acres	19,142	17,602	Livestock, poultry, and their products ..... \$1,000	9,255	5,470
Estimated market value of land and buildings ..... \$1,000	801,806	584,674	Total farm production expenses ..... \$1,000	11,516	13,209
Average per farm ..... dollars	18,646,662	13,920,798	Average per farm ..... dollars	267,826	314,493
Average per acre ..... dollars	974	791	Government payments <sup>1</sup> (see text) ..... farms	10	16
Estimated market value of all machinery and equipment ..... \$1,000	21,013	16,517	..... \$1,000	284	328
Land in farms according to use:			Average per farm ..... dollars	28,403	20,508
Total cropland ..... farms	30	26	Total income from farm-related sources ..... farms	19	21
..... acres	34,539	27,736	..... \$1,000	994	431
Harvested cropland ..... farms	25	18	Average per farm ..... dollars	52,342	20,539
..... acres	19,412	18,819	Tenure of producer (see text):		
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	6	2	Full owners ..... farms	26	24
..... acres	2,424	(D)	Part owners ..... farms	16	15
Other cropland ..... farms	20	17	Tenants ..... farms	1	3
..... acres	12,703	(D)	Farms by North American Industry Classification System:		
Total woodland ..... farms	4	6	Oilseed and grain farming (1111) ..... farms	5	5
..... acres	20,161	(D)	Vegetable and melon farming (1112) ..... farms	-	-
Woodland pastured ..... farms	3	-	Fruit and tree nut farming (1113) ..... farms	-	-
..... acres	(D)	-	Greenhouse, nursery, and floriculture production (1114) ..... farms	3	-
Woodland not pastured ..... farms	3	6	Other crop farming (1119) ..... farms	8	9
..... acres	(D)	(D)	Tobacco farming (11191) ..... farms	-	-
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	23	25	Cotton farming (11192) ..... farms	-	-
..... acres	755,014	685,236	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	8	9
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	23	17	Beef cattle ranching and farming (112111) ..... farms	7	5
..... acres	13,409	(D)	Cattle feedlots (112112) ..... farms	2	1
Irrigated land ..... farms	7	4	Dairy cattle and milk production (11212) ..... farms	2	1
..... acres	921	(D)	Hog and pig farming (1122) ..... farms	-	-
Market value of agricultural products sold (see text) ..... \$1,000	13,318	12,034	Poultry and egg production (1123) ..... farms	-	-
Average per farm ..... dollars	309,719	286,533	Sheep and goat farming (1124) ..... farms	1	1
			Aquaculture and other animal production (1125, 1129) (see text) ..... farms	15	20

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