

**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	4,570	1,823	Renewable energy producing systems - Con.		
Solar panels ..... farms	2,328	826	Small hydro systems ..... farms	81	38
Wind turbines ..... farms	335	192	Biodiesel production systems (see text) ..... farms	119	227
Methane digesters ..... farms	71	21	Ethanol production systems (see text) ..... farms	139	225
Geothermal/geoexchange systems (see text) ..... farms	2,075	536	Other ..... farms	1	76
			Wind rights leased to others ..... farms	639	233

**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	83	91	Market value of agricultural products sold (see text) - Con.		
Land in farms ..... acres	44,093	41,735	Crops, including nursery and greenhouse crops ..... \$1,000	4,795	3,001
Average size of farm ..... acres	531	459	Livestock, poultry, and their products ..... \$1,000	12,529	16,227
Estimated market value of land and buildings ..... \$1,000	203,507	139,595	Total farm production expenses ..... \$1,000	37,285	25,005
Average per farm ..... dollars	2,451,894	1,534,016	Average per farm ..... dollars	449,212	274,777
Average per acre ..... dollars	4,615	3,345	Government payments <sup>1</sup> (see text) ..... farms	19	23
Estimated market value of all machinery and equipment ..... \$1,000	13,415	12,844	..... \$1,000	124	87
			Average per farm ..... dollars	6,507	3,789
Land in farms according to use:			Total income from farm-related sources ..... farms	26	29
Total cropland ..... farms	63	61	..... \$1,000	1,011	696
Harvested cropland ..... farms	54	46	Average per farm ..... dollars	38,887	23,998
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	6	8	Tenure of producer (see text):		
..... acres	871	816	Full owners ..... farms	64	67
Other cropland ..... farms	19	21	Part owners ..... farms	17	19
..... acres	1,744	2,412	Tenants ..... farms	2	5
Total woodland ..... farms	47	49	Farms by North American Industry Classification System:		
Woodland pastured ..... farms	21	21	Oilseed and grain farming (1111) ..... farms	23	18
Woodland not pastured ..... farms	35	40	Vegetable and melon farming (1112) ..... farms	-	-
..... acres	9,275	6,852	Fruit and tree nut farming (1113) ..... farms	2	4
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	47	55	Greenhouse, nursery, and floriculture production (1114) ..... farms	1	1
..... acres	11,398	13,844	Other crop farming (1119) ..... farms	14	15
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	66	64	Tobacco farming (11191) ..... farms	-	-
Irrigated land ..... farms	16	20	Cotton farming (11192) ..... farms	-	-
..... acres	1,600	1,772	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	14	15
Market value of agricultural products sold (see text) ..... \$1,000	17,324	19,228	Beef cattle ranching and farming (112111) ..... farms	21	17
Average per farm ..... dollars	208,723	211,296	Cattle feedlots (112112) ..... farms	1	1
			Dairy cattle and milk production (11212) ..... farms	1	5
			Hog and pig farming (1122) ..... farms	3	2
			Poultry and egg production (1123) ..... farms	1	3
			Sheep and goat farming (1124) ..... farms	-	-
			Aquaculture and other animal production (1125, 1129) (see text) ..... farms	16	25

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