

**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	3,512	1,208	Renewable energy producing systems - Con.		
Solar panels .....farms	1,614	578	Small hydro systems .....farms	80	96
Wind turbines .....farms	78	73	Biodiesel production systems (see text) .....farms	85	193
Methane digesters .....farms	-	43	Ethanol production systems (see text) .....farms	67	101
Geothermal/geoexchange systems (see text) .....farms	1,695	454	Other .....farms	151	12
			Wind rights leased to others .....farms	149	27

**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	90	56	Market value of agricultural products sold (see text) - Con.		
Land in farms ..... acres	44,919	28,171	Crops, including nursery and greenhouse crops ..... \$1,000	3,140	(D)
Average size of farm ..... acres	499	503	Livestock, poultry, and their products ..... \$1,000	5,224	(D)
Estimated market value of land and buildings .....\$1,000	307,531	84,720	Total farm production expenses ..... \$1,000	14,603	14,942
Average per farm ..... dollars	3,417,008	1,512,852	Average per farm ..... dollars	162,256	266,829
Average per acre ..... dollars	6,846	3,007	Government payments <sup>1</sup> (see text) ..... farms	14	15
Estimated market value of all machinery and equipment .....\$1,000	19,643	11,447	..... \$1,000	198	69
Land in farms according to use:			Average per farm ..... dollars	14,121	4,584
Total cropland .....farms	74	48	Total income from farm-related sources ..... farms	38	18
..... acres	12,890	10,840	..... \$1,000	6,396	2,174
Harvested cropland .....farms	62	41	Average per farm ..... dollars	168,329	120,802
..... acres	8,440	7,394	Tenure of producer (see text):		
Other pasture and grazing land that could have been used for crops without additional improvements .....farms	12	10	Full owners ..... farms	80	50
..... acres	2,160	871	Part owners ..... farms	6	2
Other cropland .....farms	17	16	Tenants ..... farms	4	4
..... acres	2,290	2,575	Farms by North American Industry Classification System:		
Total woodland .....farms	48	25	Oilseed and grain farming (1111) ..... farms	6	5
..... acres	17,964	6,811	Vegetable and melon farming (1112) ..... farms	5	4
Woodland pastured .....farms	13	5	Fruit and tree nut farming (1113) ..... farms	3	-
..... acres	1,025	332	Greenhouse, nursery, and floriculture production (1114) ..... farms	10	12
Woodland not pastured .....farms	36	23	Other crop farming (1119) ..... farms	25	11
..... acres	16,939	6,479	Tobacco farming (11191) ..... farms	2	1
Permanent pasture and rangeland other than cropland and woodland pastured .....farms	43	27	Cotton farming (11192) ..... farms	-	-
..... acres	7,140	7,691	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	23	10
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. ....farms	61	42	Beef cattle ranching and farming (112111) ..... farms	19	11
..... acres	6,925	2,829	Cattle feedlots (112112) ..... farms	-	-
Irrigated land .....farms	23	24	Dairy cattle and milk production (11212) ..... farms	1	1
..... acres	94	129	Hog and pig farming (1122) ..... farms	2	-
Market value of agricultural products sold (see text) .....\$1,000	8,364	7,842	Poultry and egg production (1123) ..... farms	1	-
Average per farm ..... dollars	92,931	140,028	Sheep and goat farming (1124) ..... farms	-	-
			Aquaculture and other animal production (1125, 1129) (see text) ..... farms	18	12

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