

**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	3,689	1,464	Renewable energy producing systems - Con.		
Solar panels .....farms	1,589	577	Small hydro systems .....farms	36	17
Wind turbines .....farms	625	366	Biodiesel production systems (see text) .....farms	53	103
Methane digesters .....farms	16	7	Ethanol production systems (see text) .....farms	53	34
Geothermal/geoexchange systems (see text) .....farms	1,464	401	Other .....farms	236	24
			Wind rights leased to others .....farms	1,519	824

**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	180	144	Market value of agricultural products sold (see text) - Con.		
Land in farms ..... acres	56,729	51,635	Crops, including nursery and greenhouse crops ..... \$1,000	6,871	7,721
Average size of farm ..... acres	315	359	Livestock, poultry, and their products ..... \$1,000	10,162	13,259
Estimated market value of land and buildings .....\$1,000	294,361	310,420	Total farm production expenses ..... \$1,000	21,193	22,566
Average per farm ..... dollars	1,635,340	2,155,694	Average per farm ..... dollars	117,739	156,711
Average per acre ..... dollars	5,189	6,012	Government payments <sup>1</sup> (see text) ..... farms	22	23
Estimated market value of all machinery and equipment .....\$1,000	21,625	14,844	..... \$1,000	167	79
Land in farms according to use:			Average per farm ..... dollars	7,579	3,455
Total cropland .....farms	115	94	Total income from farm-related sources ..... farms	69	34
..... acres	10,753	12,324	..... \$1,000	2,305	1,479
Harvested cropland .....farms	104	74	Average per farm ..... dollars	33,400	43,498
..... acres	7,646	10,954	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	144	112
..... acres	198	(D)	Part owners ..... farms	16	16
Other cropland .....farms	46	41	Tenants ..... farms	20	16
..... acres	2,909	(D)	Farms by North American Industry Classification System:		
Total woodland .....farms	72	53	Oilseed and grain farming (1111) ..... farms	22	25
..... acres	25,987	23,377	Vegetable and melon farming (1112) ..... farms	20	6
Woodland pastured .....farms	14	5	Fruit and tree nut farming (1113) ..... farms	10	2
..... acres	2,318	961	Greenhouse, nursery, and floriculture production (1114) ..... farms	15	16
Woodland not pastured .....farms	67	51	Other crop farming (1119) ..... farms	36	39
..... acres	23,669	22,416	Tobacco farming (11191) ..... farms	-	-
Permanent pasture and rangeland other than cropland and woodland pastured .....farms	66	46	Cotton farming (11192) ..... farms	-	-
..... acres	4,166	2,954	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	36	39
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. ....farms	118	87	Beef cattle ranching and farming (112111) ..... farms	11	10
..... acres	15,823	12,980	Cattle feedlots (112112) ..... farms	2	-
Irrigated land .....farms	48	46	Dairy cattle and milk production (11212) ..... farms	3	4
..... acres	1,121	5,710	Hog and pig farming (1122) ..... farms	5	10
Market value of agricultural products sold (see text) .....\$1,000	17,033	20,980	Poultry and egg production (1123) ..... farms	4	3
Average per farm ..... dollars	94,629	145,696	Sheep and goat farming (1124) ..... farms	6	7
			Aquaculture and other animal production (1125, 1129) (see text) ..... farms	46	22

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