

**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	1,810	961	Renewable energy producing systems - Con.		
Solar panels ..... farms	1,364	635	Small hydro systems ..... farms	64	84
Wind turbines ..... farms	86	76	Biodiesel production systems (see text) ..... farms	82	143
Methane digesters ..... farms	21	46	Ethanol production systems (see text) ..... farms	54	86
Geothermal/geoexchange systems (see text) ..... farms	320	176	Other ..... farms	35	22
			Wind rights leased to others ..... farms	111	32

**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	167	129	Market value of agricultural products sold (see text) - Con.		
Land in farms ..... acres	44,362	37,497	Crops, including nursery and greenhouse crops ..... \$1,000	9,747	8,340
Average size of farm ..... acres	266	291	Livestock, poultry, and their products ..... \$1,000	13,290	7,533
Estimated market value of land and buildings ..... \$1,000	241,232	212,613	Total farm production expenses ..... \$1,000	23,887	20,467
Average per farm ..... dollars	1,444,502	1,648,163	Average per farm ..... dollars	143,036	158,660
Average per acre ..... dollars	5,438	5,670	Government payments <sup>1</sup> (see text) ..... farms	6	16
Estimated market value of all machinery and equipment ..... \$1,000	26,001	17,818	..... \$1,000	22	162
Land in farms according to use:			Average per farm ..... dollars	3,736	10,115
Total cropland ..... farms	114	105	Total income from farm-related sources ..... farms	33	56
..... acres	15,125	11,971	..... \$1,000	1,420	879
Harvested cropland ..... farms	103	93	Average per farm ..... dollars	43,038	15,704
..... acres	11,744	10,569	Tenure of producer (see text):		
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	16	9	Full owners ..... farms	125	98
..... acres	1,734	316	Part owners ..... farms	27	20
Other cropland ..... farms	41	26	Tenants ..... farms	15	11
..... acres	1,647	1,086	Farms by North American Industry Classification System:		
Total woodland ..... farms	84	67	Oilseed and grain farming (1111) ..... farms	5	6
..... acres	20,231	15,109	Vegetable and melon farming (1112) ..... farms	7	7
Woodland pastured ..... farms	29	24	Fruit and tree nut farming (1113) ..... farms	6	2
..... acres	645	612	Greenhouse, nursery, and floriculture production (1114) ..... farms	48	47
Woodland not pastured ..... farms	67	55	Other crop farming (1119) ..... farms	20	25
..... acres	19,586	14,497	Tobacco farming (11191) ..... farms	2	2
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	75	51	Cotton farming (11192) ..... farms	-	2
..... acres	4,458	5,762	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	18	21
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	113	76	Beef cattle ranching and farming (112111) ..... farms	3	7
..... acres	4,548	4,655	Cattle feedlots (112112) ..... farms	1	-
Irrigated land ..... farms	69	61	Dairy cattle and milk production (11212) ..... farms	6	3
..... acres	2,021	1,267	Hog and pig farming (1122) ..... farms	8	1
Market value of agricultural products sold (see text) ..... \$1,000	23,037	15,874	Poultry and egg production (1123) ..... farms	1	1
Average per farm ..... dollars	137,944	123,051	Sheep and goat farming (1124) ..... farms	5	2
			Aquaculture and other animal production (1125, 1129) (see text) ..... farms	57	28

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