

**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	14,552	5,845	Renewable energy producing systems - Con.		
Solar panels ..... farms	13,900	5,445	Small hydro systems ..... farms	186	190
Wind turbines ..... farms	415	324	Biodiesel production systems (see text) ..... farms	113	165
Methane digesters ..... farms	57	41	Ethanol production systems (see text) ..... farms	79	56
Geothermal/geoexchange systems (see text) ..... farms	120	104	Other ..... farms	324	49
			Wind rights leased to others ..... farms	200	113

**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	299	304	Market value of agricultural products sold (see text) - Con.		
Land in farms ..... acres	295,318	189,704	Crops, including nursery and greenhouse crops ..... \$1,000	52,070	61,234
Average size of farm ..... acres	988	624	Livestock, poultry, and their products ..... \$1,000	46,399	49,191
Estimated market value of land and buildings ..... \$1,000	1,482,161	927,228	Total farm production expenses ..... \$1,000	108,388	105,981
Average per farm ..... dollars	4,957,060	3,050,092	Average per farm ..... dollars	362,502	348,622
Average per acre ..... dollars	5,019	4,888	Government payments <sup>1</sup> (see text) ..... farms	3	6
Estimated market value of all machinery and equipment ..... \$1,000	46,343	50,891	..... \$1,000	(D)	56
Land in farms according to use:			Average per farm ..... dollars	(D)	9,411
Total cropland ..... farms	217	218	Total income from farm-related sources ..... farms	53	101
..... acres	33,758	34,749	..... \$1,000	4,083	4,624
Harvested cropland ..... farms	198	184	Average per farm ..... dollars	77,042	45,783
..... acres	25,641	27,474	Tenure of producer (see text):		
Other pasture and grazing land that could have been used for crops without additional improvements ..... farms	18	18	Full owners ..... farms	230	236
..... acres	1,841	1,222	Part owners ..... farms	24	23
Other cropland ..... farms	79	68	Tenants ..... farms	45	45
..... acres	6,276	6,053	Farms by North American Industry Classification System:		
Total woodland ..... farms	31	40	Oilseed and grain farming (1111) ..... farms	9	10
..... acres	54,904	28,091	Vegetable and melon farming (1112) ..... farms	27	15
Woodland pastured ..... farms	13	19	Fruit and tree nut farming (1113) ..... farms	76	81
..... acres	(D)	22,332	Greenhouse, nursery, and floriculture production (1114) ..... farms	26	25
Woodland not pastured ..... farms	18	27	Other crop farming (1119) ..... farms	34	58
..... acres	(D)	5,759	Tobacco farming (11191) ..... farms	-	-
Permanent pasture and rangeland other than cropland and woodland pastured ..... farms	96	107	Cotton farming (11192) ..... farms	2	-
..... acres	161,217	(D)	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	32	58
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. .... farms	199	205	Beef cattle ranching and farming (112111) ..... farms	27	24
..... acres	45,439	(D)	Cattle feedlots (112112) ..... farms	4	2
Irrigated land ..... farms	200	181	Dairy cattle and milk production (11212) ..... farms	4	5
..... acres	23,676	21,766	Hog and pig farming (1122) ..... farms	14	13
Market value of agricultural products sold (see text) ..... \$1,000	98,469	110,424	Poultry and egg production (1123) ..... farms	3	1
Average per farm ..... dollars	329,328	363,238	Sheep and goat farming (1124) ..... farms	18	6
			Aquaculture and other animal production (1125, 1129) (see text) ..... farms	61	64

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