

**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	2,041	748	Renewable energy producing systems - Con.		
Solar panels .....farms	1,662	646	Small hydro systems .....farms	50	18
Wind turbines .....farms	101	38	Biodiesel production systems (see text) .....farms	65	49
Methane digesters .....farms	21	4	Ethanol production systems (see text) .....farms	31	28
Geothermal/geoexchange systems (see text) .....farms	80	20	Other .....farms	197	33
			Wind rights leased to others .....farms	80	7

**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	164	166	Market value of agricultural products sold (see text) - Con.		
Land in farms ..... acres	433,776	450,290	Crops, including nursery and greenhouse crops ..... \$1,000	20,166	24,831
Average size of farm ..... acres	2,645	2,713	Livestock, poultry, and their products ..... \$1,000	34,292	40,224
Estimated market value of land and buildings .....\$1,000	2,182,491	2,346,600	Total farm production expenses ..... \$1,000	57,593	61,585
Average per farm ..... dollars	13,307,872	14,136,147	Average per farm ..... dollars	351,177	370,992
Average per acre ..... dollars	5,031	5,211	Government payments <sup>1</sup> (see text) ..... farms	3	5
Estimated market value of all machinery and equipment .....\$1,000	30,508	16,331	..... \$1,000	(D)	(D)
Land in farms according to use:			Average per farm ..... dollars	(D)	(D)
Total cropland .....farms	99	107	Total income from farm-related sources ..... farms	48	65
Harvested cropland .....farms	87	98	..... \$1,000	1,478	2,723
Other pasture and grazing land that could have been used for crops without additional improvements .....farms	17	15	Average per farm ..... dollars	30,784	41,897
..... acres	2,654	570	Tenure of producer (see text):		
Other cropland .....farms	23	10	Full owners ..... farms	143	135
..... acres	2,972	1,944	Part owners ..... farms	14	20
Total woodland .....farms	47	47	Tenants ..... farms	7	11
Woodland pastured .....farms	18	25	Farms by North American Industry Classification System:		
Woodland not pastured .....farms	30	28	Oilseed and grain farming (1111) ..... farms	-	3
..... acres	78,980	54,136	Vegetable and melon farming (1112) ..... farms	10	12
Permanent pasture and rangeland other than cropland and woodland pastured .....farms	94	82	Fruit and tree nut farming (1113) ..... farms	25	24
..... acres	227,138	213,098	Greenhouse, nursery, and floriculture production (1114) ..... farms	21	30
Land in farmsteads, homes, buildings, livestock facilities, ponds, roads, wasteland, etc. ....farms	97	103	Other crop farming (1119) ..... farms	13	9
..... acres	29,936	30,712	Tobacco farming (11191) ..... farms	-	-
Irrigated land .....farms	73	77	Cotton farming (11192) ..... farms	-	-
..... acres	46,744	33,891	Sugarcane farming, hay farming, and all other crop farming (11193, 11194, 11199) ..... farms	13	9
Market value of agricultural products sold (see text) .....\$1,000	54,458	65,056	Beef cattle ranching and farming (11211) ..... farms	50	35
Average per farm ..... dollars	332,063	391,901	Cattle feedlots (11212) ..... farms	-	-
			Dairy cattle and milk production (11212) ..... farms	-	1
			Hog and pig farming (1122) ..... farms	6	2
			Poultry and egg production (1123) ..... farms	2	6
			Sheep and goat farming (1124) ..... farms	4	2
			Aquaculture and other animal production (1125, 1129) (see text) ..... farms	33	42

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