

Class 1-5 Farms

Table 6. Distribution of Fertilizer Use by Crop for the United States: 1969

	Farms reporting use of fertilizer			Acres fertilized		Tons used			Percent distribution of--		
	Total	Percent of class 1-5 farms	Percent of farms using fertilizer	Total	Average per farm reporting	Percent of acreage of crop harvested	Total	Average per farm reporting	Pounds used per acre	Tons used	Ac fertili.
United States, total.....	1,268,840	73.2	100.0	155,219,036	122.4	41.2	26,209,051	20.7	338	100.0	100
Cropland used only for pasture.....	207,752	12.0	16.4	10,197,872	49.1	14.8	1,734,660	8.3	340	6.6	6
Improved pasture.....	76,683	4.4	6.0	6,344,080	82.7	14.5	983,421	12.8	310	3.7	4
Field corn for all purposes.....	680,437	39.2	53.6	47,541,038	69.9	81.4	9,558,347	14.0	402	36.4	30.
Sorghum for all purposes except silage..	108,318	6.2	8.5	9,711,256	89.7	64.1	1,061,702	9.8	219	4.0	6
Wheat.....	337,751	19.5	26.6	24,182,158	71.6	54.9	1,893,562	5.6	157	7.2	15
Oats.....	217,385	12.5	17.1	7,567,859	34.8	46.3	675,198	3.1	178	2.6	4
Barley.....	76,699	4.4	6.0	5,666,279	73.9	63.5	456,576	6.0	161	1.7	3.
Rye.....	13,249	0.8	1.0	415,124	31.3	37.2	47,691	3.6	230	0.2	0.
Rice.....	9,185	0.5	0.7	2,121,724	231.0	99.6	418,696	45.6	395	1.6	1
Mixed grain.....	4,670	0.3	0.4	138,121	29.6	53.2	17,763	3.8	257	0.1	0
Flaxseed.....	4,160	0.2	0.3	299,653	72.0	12.0	14,152	3.4	94	0.1	0
Buckwheat.....	826	(Z)	0.1	15,628	18.9	40.7	1,426	1.7	182	(Z)	(Z)
Proso millet.....	907	0.1	0.1	48,739	53.7	15.4	3,223	3.6	132	(Z)	(Z)
Emmer and smelt.....	3,263	0.2	0.3	36,546	11.2	67.7	4,741	1.5	259	(Z)	(Z)
Peanuts for nuts.....	26,494	1.5	2.1	1,126,033	42.5	81.8	260,073	9.8	462	1.0	0
Safflower.....	615	(Z)	(Z)	200,693	326.3	89.0	26,731	43.5	266	0.1	0
Mustard seed.....	43	(Z)	(Z)	3,589	83.5	46.2	394	9.2	220	(Z)	(Z)
Soybeans for beans.....	136,406	7.9	10.8	9,875,613	72.4	26.5	1,103,718	8.1	224	4.2	6.
Dry field and seed beans.....	12,206	0.7	1.0	808,609	66.2	62.2	101,763	8.3	252	0.4	0.
Dry lima beans.....	261	(Z)	(Z)	26,467	101.4	33.9	3,819	14.6	289	(Z)	(Z)
Dry field and seed peas.....	1,861	0.1	0.1	140,646	75.6	36.1	13,178	7.1	187	0.1	0
Cowpeas for dry peas.....	386	(Z)	(Z)	9,264	24.0	29.7	1,123	2.9	242	(Z)	(Z)
Velvetbeans for beans.....	33	(Z)	(Z)	1,519	46.0	75.5	217	6.6	286	(Z)	(Z)
Mungbeans for beans.....	67	(Z)	(Z)	2,319	34.6	10.0	162	2.4	140	(Z)	(Z)
Cotton.....	108,461	6.3	8.5	8,587,534	79.2	77.6	1,551,627	14.3	361	5.9	5
Sugar beets for sugar.....	17,868	1.0	1.4	1,462,459	81.8	99.9	365,925	20.5	500	1.4	0.
Sugar beets for seed.....	225	(Z)	(Z)	8,249	36.7	99.9	3,207	14.3	778	(Z)	(Z)
Popcorn.....	3,222	0.1	0.3	133,841	41.5	85.2	24,576	7.6	367	0.1	0
Broomcorn.....	224	(Z)	(Z)	22,874	102.1	21.3	1,429	6.4	125	(Z)	(Z)
Mint for Oil.....	970	0.1	0.1	108,163	111.5	99.8	36,120	37.2	668	0.1	0.
Irish potatoes.....	28,270	1.6	2.2	1,245,194	44.0	98.8	675,685	23.9	1,085	2.6	0
Sweet potatoes.....	8,014	0.5	0.6	95,464	11.9	95.5	41,695	5.2	874	0.2	0
Tobacco.....	163,181	9.4	12.9	781,853	4.8	99.1	765,221	4.7	1,957	2.9	0
Hay or grass silage.....	186,429	10.8	14.7	7,917,453	42.5	16.4	1,184,781	6.4	299	4.5	5.
Field seeds.....	9,610	0.6	0.8	720,041	74.9	36.2	134,876	14.0	375	0.5	0
Vegetables, sweet corn, or melons for sale.....	57,103	3.3	4.5	2,918,141	51.1	89.5	1,223,266	21.4	838	4.7	1
Berries for sale.....	7,691	0.4	0.6	94,640	12.3	74.3	33,224	4.3	702	0.1	0.
Land in orchards.....	62,639	3.6	4.9	3,509,298	56.0	87.5	1,357,681	21.7	774	5.2	2
Nursery and greenhouse products.....	11,015	0.6	0.9	208,434	18.9	73.2	102,369	9.3	982	0.4	0
Ginger root ¹	31	(Z)	(Z)	38	1.2	86.4	26	0.8	1,368	(Z)	(Z)
Lotus root ¹	4	(Z)	(Z)	15	3.8	93.8	10	2.5	1,333	(Z)	(Z)
Wetland taro.....	43	(Z)	(Z)	194	4.5	72.4	172	4.0	1,773	(Z)	(Z)
Dryland taro ¹	10	(Z)	(Z)	33	3.3	97.1	39	3.9	2,364	(Z)	(Z)
Pineapples ²	42	(Z)	(Z)	51,237	1,219.9	80.7	20,173	480.3	787	0.1	(
Sugarcane ²	517	(Z)	(Z)	180,221	348.6	75.3	179,123	346.5	1,988	0.7	(
All other crops.....	(NA)	(NA)	(NA)	692,831	(NA)	(NA)	125,490	(NA)	362	0.4	0

¹Data for Hawaii crops only.

²Data for Hawaii crops only; and includes both acres harvested and acres not harvested.

and liquid fertilizers used for some of the major crops on class 1-5 farms.

Of the 1.2 million class 1-5 farms reporting the use of dry fertilizer, 1.1 million or 94 percent used less than 50 tons in 1969. In comparison for liquid fertilizer, 287 thousand of the 426 thousand farms reporting or 67 percent used less than 50

Table 7. Tons of Dry and Liquid Fertilizer Used for Selected Crops: 1969

	Tons of fertilizer			Percent distribution	
	Total	Dry	Liquid	Dry	Liquid
Total.....	22,018,416	16,886,104	5,132,312	76.7	23.3
Cropland pasture.....	1,734,660	1,601,059	133,601	92.3	7.7
Improved pasture.....	983,421	919,154	64,267	93.5	6.5
Corn for all purposes.....	9,558,348	6,573,523	2,984,825	68.8	31.2
Sorghums for all purposes.....	1,061,694	524,592	537,102	49.4	50.6
Wheat.....	1,893,560	1,453,273	440,287	76.8	23.3
Oats.....	675,185	629,313	45,872	93.2	6.8
Barley.....	456,567	356,762	99,805	78.1	21.9
Rice.....	418,696	392,377	26,319	93.7	6.3
Soybeans for beans.....	1,103,715	1,014,552	89,163	91.9	8.1
Cotton.....	1,551,625	1,096,838	454,787	70.7	29.3
Vegetables.....	1,223,264	1,049,525	173,739	85.8	14.2
Land in orchards.....	1,257,681	1,275,136	82,545	93.9	6.1

tons. Table 8 shows the distribution of farms reporting dry and liquid fertilizer on class 1-5 farms.

Table 8. Farms Reporting Use of Dry and Liquid Fertilizer by Amount Used: 1969

	Farms reporting		Percent distribution	
	Dry fertilizer	Liquid fertilizer	Dry	Liquid
Total.....	1,209,250	425,709	100.0	100.0
1 to 49 tons.....	1,134,815	286,893	93.8	67.4
50 to 99 tons.....	50,619	119,971	4.2	28.2
100 to 199 tons.....	16,948	13,040	1.4	3.1
200 to 499 tons.....	5,612	4,333	.5	1.0
500 to 999 tons.....	812	1,228	.1	.3
1,000 tons and over.....	444	244	(¹)	.1

¹Less than .05 percent.

Data by class of farm show that the larger and more productive farms fertilize a higher proportion of the crops harvested than less productive farms. The more productive farms also applied a higher rate of fertilizer per acre than did the farms with less sales. A similar pattern can be found in the average yield per acre for most crops among the various classes of farms. (See table 9.)