

Table 14.—USE OF COMMERCIAL FERTILIZER AND FERTILIZING MATERIAL, BY DIVISIONS AND STATES: 1959 AND 1954

[Data for conterminous United States are based on reports for only a sample of farms. See text.]

Region, division, and State	Farms reporting				Tons used					
	Total		Percent of all farms		1959			1954	Average per farm reporting	
	1959	1954	1959	1954	Total	Dry materials	Liquid materials		1959	1954
1 U. S.	2,378,454	NA	64.1	NA	19,802,175	18,210,679	1,591,496	NA	8.3	NA
2 Contiguous U. S.	2,374,015	2,916,406	64.1	61.0	19,603,104	18,079,661	1,523,443	18,953,360	8.3	6.5
3 The North.	1,076,143	1,192,140	62.8	58.3	8,513,821	7,877,685	636,136	7,924,853	7.9	6.6
4 The South.	1,153,026	1,582,518	70.1	68.3	9,112,822	8,679,316	433,506	9,535,730	7.9	6.0
5 The West.	149,285	NA	42.8	NA	2,175,532	1,653,678	521,854	NA	14.6	NA
6 Contiguous area.	144,846	141,748	42.4	33.5	1,976,461	1,522,660	453,801	1,492,777	13.6	10.5
Geographic Divisions:										
7 New England.	28,636	37,190	50.4	45.4	361,658	359,743	1,915	363,134	12.6	9.8
8 Middle Atlantic.	137,615	171,729	69.5	66.7	1,286,299	1,272,085	14,214	1,363,120	9.3	7.9
9 East North Central.	504,885	570,948	75.8	71.5	4,237,378	3,958,837	278,541	4,056,775	8.4	7.1
10 West North Central.	405,007	412,273	51.0	45.5	2,628,486	2,287,020	341,466	2,141,824	6.5	5.2
11 South Atlantic.	483,984	680,454	81.8	79.2	5,300,226	5,151,582	148,644	5,520,538	11.0	8.1
12 East South Central.	464,228	620,200	82.5	78.6	2,478,281	2,397,238	81,043	2,758,444	5.3	4.4
13 West South Central.	204,814	281,864	41.7	42.2	1,334,315	1,130,496	203,819	1,256,748	6.5	4.5
14 Mountain.	53,424	49,538	36.0	27.5	505,356	437,277	68,079	373,364	9.5	7.5
15 Pacific.	95,861	NA	47.9	NA	1,670,176	1,216,401	453,775	NA	17.4	NA
16 Contiguous area.	91,422	92,210	47.3	38.0	1,471,105	1,085,383	385,722	1,119,413	16.1	12.1
New England:										
17 Maine.	7,419	10,602	42.8	45.4	152,116	151,486	630	169,870	20.5	16.0
18 New Hampshire.	2,674	3,495	40.9	33.6	19,421	19,247	174	17,829	7.3	5.1
19 Vermont.	7,732	8,264	63.5	51.7	63,027	62,821	206	45,664	8.2	5.5
20 Massachusetts.	5,822	7,984	52.2	46.0	52,960	52,757	203	57,156	9.1	7.2
21 Rhode Island.	750	836	53.6	41.7	12,437	12,165	272	5,788	16.6	6.9
22 Connecticut.	4,239	6,009	51.3	47.1	61,697	61,267	430	66,827	14.6	11.1
Middle Atlantic:										
23 New York.	54,363	65,390	66.0	61.9	491,720	486,985	4,735	516,900	9.0	7.9
24 New Jersey.	9,152	12,819	59.2	56.5	204,173	200,070	4,103	237,580	22.3	18.5
25 Pennsylvania.	74,100	93,520	74.1	72.6	590,406	585,030	5,376	608,640	8.0	6.5
East North Central:										
26 Ohio.	112,006	137,615	79.8	77.7	933,396	902,525	30,871	968,929	8.3	7.0
27 Indiana.	102,338	118,681	79.9	77.3	1,004,912	934,018	70,894	1,041,298	9.8	8.8
28 Illinois.	107,618	111,544	69.6	63.5	1,219,821	1,073,572	146,249	1,047,217	11.3	9.4
29 Michigan.	86,348	98,755	77.3	71.1	616,570	599,311	17,259	567,238	7.1	5.7
30 Wisconsin.	96,575	104,353	73.6	68.0	462,679	449,411	13,268	432,093	4.8	4.1
West North Central:										
31 Minnesota.	83,231	74,717	57.1	45.2	510,792	460,364	50,428	317,009	6.1	4.2
32 Iowa.	98,562	112,724	56.4	58.4	660,912	581,206	79,706	614,570	6.7	5.5
33 Missouri.	98,909	113,418	58.6	56.3	670,059	625,821	44,238	674,252	6.8	5.9
34 North Dakota.	23,771	9,984	4.3	16.1	157,117	155,956	1,161	53,998	6.6	5.4
35 South Dakota.	9,452	10,464	17.0	16.7	43,327	41,621	1,706	38,490	4.6	3.7
36 Nebraska.	40,312	42,406	44.7	42.1	294,442	159,089	135,353	218,027	7.3	5.1
37 Kansas.	50,770	48,560	48.8	40.4	291,837	262,963	28,874	225,478	5.7	4.6
South Atlantic:										
38 Delaware.	3,713	4,884	71.4	77.6	74,040	70,501	3,539	75,080	19.9	15.4
39 Maryland.	19,421	24,439	77.3	75.2	249,807	244,447	5,360	264,630	12.9	10.8
40 District of Columbia.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
41 Virginia.	75,300	98,718	77.1	72.4	629,020	618,424	10,596	642,366	8.4	6.5
42 West Virginia.	19,723	33,898	44.8	49.4	67,286	67,282	4	67,810	3.4	2.0
43 North Carolina.	173,764	231,144	91.2	86.3	1,311,689	1,249,965	61,724	1,396,400	7.5	6.0
44 South Carolina.	70,650	108,274	90.4	87.2	689,275	672,474	16,801	776,745	9.8	7.2
45 Georgia.	87,332	135,581	82.2	81.9	1,197,593	1,157,043	40,550	1,240,538	13.7	9.1
46 Florida.	34,041	43,516	75.6	75.6	1,081,516	1,070,446	11,070	1,056,969	31.8	24.3
East South Central:										
47 Kentucky.	126,046	142,400	83.5	73.6	562,297	550,802	11,495	556,880	4.5	3.9
48 Tennessee.	127,810	153,055	81.0	75.3	525,986	515,845	10,141	531,456	4.1	3.5
49 Alabama.	96,331	144,296	83.2	81.5	803,662	798,100	5,562	962,434	6.3	6.7
50 Mississippi.	114,041	180,449	82.6	83.6	586,336	532,491	53,845	707,674	5.1	3.9
West South Central:										
51 Arkansas.	56,583	86,810	59.6	59.8	335,525	302,536	32,989	346,810	5.9	4.0
52 Louisiana.	47,278	73,908	63.6	66.5	249,056	218,859	30,197	293,181	5.3	4.0
53 Oklahoma.	28,622	30,049	30.2	25.3	146,116	140,717	5,399	126,017	5.1	4.2
54 Texas.	72,331	91,097	31.9	31.1	603,618	468,384	135,234	490,740	8.3	5.4
Mountain:										
55 Montana.	8,506	6,485	29.5	19.6	49,207	46,422	2,785	27,432	5.8	4.2
56 Idaho.	17,794	17,357	52.9	44.8	152,147	139,830	12,317	110,620	8.6	6.4
57 Wyoming.	2,398	2,289	24.7	20.1	16,636	14,838	1,798	11,784	6.9	5.1
58 Colorado.	10,789	9,633	32.5	23.6	73,499	62,165	11,334	45,958	6.8	4.8
59 New Mexico.	3,908	3,417	24.6	16.2	42,773	36,128	6,645	28,901	10.9	8.5
60 Arizona.	3,139	3,397	43.8	36.4	138,984	113,304	25,680	123,961	44.3	36.5
61 Utah.	6,264	6,530	35.2	28.6	24,504	23,496	1,008	21,423	3.9	3.3
62 Nevada.	626	430	27.0	15.1	7,606	7,094	512	3,285	12.2	7.6
Pacific:										
63 Washington.	22,738	23,458	44.1	36.0	190,043	121,560	68,483	156,246	8.4	6.7
64 Oregon.	20,376	21,712	47.9	39.9	175,197	148,137	27,060	148,425	8.6	6.8
65 California.	48,308	47,040	48.7	38.2	1,105,865	815,686	290,179	814,742	22.9	17.3
66 Alaska.	261	NA	71.1	NA	2,187	2,187	NA	NA	8.4	NA
67 Hawaii.	4,178	NA	66.9	NA	196,884	128,831	68,053	NA	47.1	NA

NA Not available.

FARM LABOR, USE OF FERTILIZER, FARM EXPENDITURES, AND CASH RENT 329

Table 14.—USE OF COMMERCIAL FERTILIZER AND FERTILIZING MATERIAL, BY DIVISIONS AND STATES: 1959 AND 1954—Continued

[Data for conterminous United States are based on reports for only a sample of farms. See text.]

	Region, division, and State	Acres fertilized						Percent distribution					
		Total		Percent of acres fertilized ¹		Pounds used per acre		Farms reporting		Tons used		Acres fertilized	
		1959	1954	1959	1954	1959	1954	1959	1954	1959	1954	1959	1954
1	U. S.	133,258,950	NA	17.7	NA	297	NA	100.0	NA	100.0	NA	100.0	NA
2	Contemrinous U. S.	132,946,944	122,809,445	17.7	14.3	295	309	99.8	100.0	99.0	100.0	99.8	100.0
3	The North	73,928,542	64,389,194	22.9	19.0	230	246	45.2	40.9	43.0	41.7	55.5	52.5
4	The South	44,787,386	48,091,598	30.2	19.5	407	397	48.5	54.3	46.0	50.4	33.6	39.1
5	The West	14,543,022	NA	5.1	NA	299	NA	6.3	NA	11.0	NA	10.9	NA
6	Contemrinous area	14,231,016	10,328,653	5.1	3.8	278	289	6.1	4.9	10.0	7.9	10.7	8.4
	Geographic Divisions:												
7	New England	995,178	861,042	26.1	18.9	727	843	1.2	1.3	1.8	1.9	0.7	0.7
8	Middle Atlantic	5,683,760	6,087,665	33.3	31.4	453	448	5.8	5.9	6.5	7.2	4.3	5.0
9	East North Central	32,304,588	31,025,850	42.7	38.8	262	262	21.2	19.6	21.4	21.3	24.2	25.2
10	West North Central	34,945,016	26,414,637	15.4	11.2	150	162	17.0	14.1	13.3	11.3	26.2	21.5
11	South Atlantic	18,660,590	20,921,535	50.2	48.9	568	528	20.3	23.3	26.8	29.2	14.0	17.0
12	East South Central	12,797,160	15,223,086	35.4	37.8	387	362	19.5	21.3	12.5	14.6	9.6	12.4
13	West South Central	13,329,636	11,946,977	17.8	7.3	200	210	8.6	9.7	6.7	6.6	10.0	9.7
14	Mountain	4,922,451	3,359,908	2.2	1.5	205	222	2.2	1.7	2.6	2.0	3.7	2.7
15	Pacific	9,620,571	NA	17.0	NA	347	NA	4.0	NA	8.4	NA	7.2	NA
16	Contemrinous area	9,308,565	6,968,745	17.0	13.0	316	321	3.8	3.2	7.4	5.9	7.0	5.7
	New England:												
17	Maine	266,000	247,611	26.3	19.9	1,144	1,372	0.3	0.4	0.8	0.9	0.2	0.2
18	New Hampshire	79,096	69,416	23.3	15.4	491	514	0.1	0.1	0.1	0.1	0.1	0.1
19	Vermont	298,516	211,634	20.2	12.7	422	432	0.3	0.3	0.3	0.2	0.2	0.2
20	Massachusetts	167,790	165,324	34.5	27.6	631	691	0.2	0.3	0.3	0.3	0.1	0.1
21	Rhode Island	21,755	15,801	35.4	27.2	1,143	733	(Z)	(Z)	0.1	(Z)	(Z)	(Z)
22	Connecticut	162,021	151,256	37.6	28.1	762	884	0.2	0.2	0.3	0.4	0.1	0.1
	Middle Atlantic:												
23	New York	2,170,683	2,276,847	24.5	22.7	453	454	2.3	2.2	2.5	2.7	1.6	1.9
24	New Jersey	523,106	612,597	59.5	56.3	781	776	0.4	0.4	1.0	1.3	0.4	0.5
25	Pennsylvania	2,989,971	3,198,221	40.7	38.7	395	381	3.1	3.2	3.1	3.2	2.2	2.6
	East North Central:												
26	Ohio	6,386,399	6,659,173	46.6	44.3	292	291	4.7	4.7	4.7	5.1	4.8	5.4
27	Indiana	8,016,650	8,050,566	57.1	54.9	251	259	4.3	4.1	5.1	5.5	6.0	6.5
28	Illinois	9,181,935	7,918,567	36.8	31.4	266	264	4.5	3.8	6.2	5.5	6.9	6.5
29	Michigan	4,716,211	4,527,501	50.5	42.9	561	251	3.6	3.4	3.1	3.0	3.5	3.7
30	Wisconsin	4,003,393	3,870,043	29.3	26.5	231	223	4.1	3.6	2.3	2.3	3.0	3.2
	West North Central:												
31	Minnesota	6,664,329	4,186,811	29.7	17.6	153	151	3.5	2.6	2.6	1.7	5.0	3.4
32	Iowa	7,412,793	7,038,509	25.5	23.8	178	175	4.1	3.9	3.3	3.2	5.6	5.8
33	Missouri	5,925,970	6,122,630	26.5	26.5	226	220	4.2	3.9	3.4	3.5	4.4	5.0
34	North Dakota	5,232,841	1,679,632	16.7	5.0	60	64	1.0	0.3	0.8	0.3	3.9	1.4
35	South Dakota	781,155	550,533	2.0	1.3	111	140	0.4	0.4	0.2	0.2	0.6	0.5
36	Nebraska	3,893,797	2,983,334	9.2	7.0	151	146	1.7	1.5	1.5	1.2	2.9	2.4
37	Kansas	5,034,031	3,853,188	12.6	9.5	116	117	2.1	1.7	1.5	1.2	3.8	3.1
	South Atlantic:												
38	Delaware	331,151	315,992	67.8	62.4	447	475	0.2	0.2	0.4	0.4	0.2	0.3
39	Maryland	1,104,896	1,190,896	51.8	50.0	452	444	0.8	0.8	1.3	1.4	0.8	1.0
40	District of Columbia	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
41	Virginia	2,237,443	2,361,824	34.3	33.5	562	544	3.2	3.4	3.2	3.4	1.7	1.9
42	West Virginia	307,618	367,621	10.0	9.6	437	369	0.8	1.2	0.3	0.4	0.2	0.3
43	North Carolina	4,300,943	4,877,997	66.1	65.4	610	573	7.3	7.9	6.6	7.4	3.2	4.0
44	South Carolina	2,668,261	3,257,202	69.8	70.1	517	477	3.0	3.7	3.5	4.1	2.0	2.6
45	Georgia	5,243,840	6,231,264	68.0	66.6	398	377	3.7	4.6	6.0	6.6	3.9	5.1
46	Florida	2,466,439	2,318,739	35.8	30.5	877	912	1.4	1.5	5.5	5.6	1.9	1.9
	East South Central:												
47	Kentucky	2,467,638	2,768,319	23.6	24.7	456	402	5.3	4.9	2.8	2.9	1.9	2.3
48	Tennessee	2,932,086	3,224,692	33.0	33.1	359	330	5.4	5.2	2.7	2.8	2.2	2.6
49	Alabama	3,913,698	4,780,271	53.4	53.9	411	403	4.1	4.9	4.1	5.1	2.9	3.9
50	Mississippi	3,483,738	4,449,804	36.9	42.8	337	318	4.8	6.2	3.0	3.7	2.6	3.6
	West South Central:												
51	Arkansas	2,717,081	2,932,956	29.4	29.5	247	236	2.4	3.0	1.7	1.8	2.0	2.4
52	Louisiana	1,983,632	2,477,769	32.3	38.2	251	237	2.0	2.5	1.3	1.5	1.5	2.0
53	Oklahoma	2,475,685	1,971,729	8.9	7.1	118	128	1.2	1.0	0.7	0.7	1.9	1.6
54	Texas	6,153,238	4,564,523	19.4	3.8	196	215	3.0	3.1	3.0	2.6	4.6	3.7
	Mountain:												
55	Montana	1,336,948	637,163	2.5	1.2	74	86	0.4	0.2	0.2	0.1	1.0	0.5
56	Idaho	1,292,278	949,792	11.1	8.6	235	233	0.7	0.6	0.8	0.6	1.0	0.8
57	Wyoming	167,431	121,397	0.5	0.4	199	194	0.1	0.1	0.1	0.1	0.1	0.1
58	Colorado	712,650	422,476	2.2	1.4	206	218	0.5	0.3	0.4	0.2	0.3	0.2
59	New Mexico	351,880	234,876	0.9	0.6	243	246	0.2	0.1	0.2	0.2	0.3	0.2
60	Arizona	814,356	798,823	2.6	2.5	341	310	0.1	0.1	0.7	0.7	0.6	0.7
61	Utah	190,795	166,549	1.8	1.6	257	257	0.3	0.2	0.1	0.1	0.1	0.1
62	Nevada	56,113	28,832	0.6	0.4	271	228	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)
	Pacific:												
63	Washington	2,495,844	1,781,388	22.2	16.7	152	175	1.0	0.8	1.0	0.8	1.9	1.5
64	Oregon	1,742,073	1,313,313	11.2	8.9	201	226	0.9	0.7	0.9	0.8	1.3	1.1
65	California	5,070,648	3,874,044	18.0	13.7	436	421	2.0	1.6	5.6	4.3	3.8	3.2
66	Alaska	13,535	NA	2.5	NA	323	NA	(Z)	NA	(Z)	NA	(Z)	NA
67	Hawaii	298,471	NA	23.7	NA	1,319	NA	0.2	NA	1.0	NA	0.2	NA

NA Not available. Z Less than 0.05 percent.

¹Acres fertilized as a percent of all cropland harvested plus the acres of pasture, other than woodland pasture.