

940 IRRIGATION, LAND IMPROVEMENT PRACTICES, AND USE OF AGRICULTURAL CHEMICALS

TABLE 11. Commercial Fertilizer—Farms, Acres Fertilized, Quantity of Fertilizer and Fertilizing Materials Used, and Expenditures for Fertilizer Materials, by Regions and States: 1964 and 1959

[Data are estimates based upon reports for only a sample of farms. See text.]

Region and State	Farms		Acres fertilized (1,000)		Tons of fertilizer and fertilizer materials used						Expenditures for fertilizer and fertilizing materials, 1964 (\$1,000)
	1964	1959	1964	1959	Total		Dry materials		Liquid materials		
					1964	1959	1964	1959	1964	1959	
1 United States..	2,109,512	2,378,454	150,651	133,260	23,286,168	19,802,175	20,268,665	18,210,679	3,017,763	1,591,496	1,771,618
2 The North..	1,013,133	1,076,143	83,291	73,929	10,124,031	8,513,821	8,710,475	7,877,685	1,413,625	636,136	832,929
3 The South..	949,433	1,153,026	49,405	44,788	10,465,967	9,112,822	9,539,546	8,679,316	926,578	433,906	695,055
4 The West...	146,946	149,285	17,955	14,543	2,696,170	2,175,532	2,018,644	1,653,678	677,560	521,854	243,634
New England:											
5 Maine.....	5,664	7,419	265	266	142,680	152,116	142,433	151,486	248	630	9,501
6 New Hampshire...	1,983	2,674	75	79	16,311	19,421	16,242	19,247	71	174	1,183
7 Vermont.....	5,531	7,732	290	299	47,749	63,027	47,649	62,821	100	206	3,437
8 Massachusetts...	4,626	5,822	161	168	49,571	52,960	49,267	52,757	302	203	3,959
9 Rhode Island.....	639	750	25	22	10,968	12,437	10,968	12,165	-	272	791
10 Connecticut.....	3,211	4,239	147	162	55,366	61,697	55,197	61,267	167	430	4,343
Middle Atlantic:											
11 New York.....	43,389	54,363	2,089	2,171	465,917	491,720	457,789	486,985	8,128	4,735	34,338
12 New Jersey.....	6,835	9,152	458	523	169,549	204,173	166,531	200,070	3,018	4,103	11,869
13 Pennsylvania....	61,326	74,100	2,748	2,990	571,194	590,406	560,595	585,030	10,602	5,376	36,293
East North Central:											
14 Ohio.....	93,677	112,006	5,901	6,386	964,625	933,396	906,138	902,525	58,500	30,871	75,109
15 Indiana.....	85,873	102,338	7,509	8,017	1,137,545	1,004,912	983,165	934,018	154,387	70,894	95,374
16 Illinois.....	104,513	107,618	11,122	9,182	1,626,988	1,219,821	1,259,222	1,073,572	367,767	146,249	136,395
17 Michigan.....	72,745	86,348	4,620	4,716	679,519	616,570	648,939	599,311	30,585	17,259	54,123
18 Wisconsin.....	84,563	96,575	3,813	4,003	493,803	462,679	472,331	449,411	21,474	13,268	38,532
West North Central:											
19 Minnesota.....	83,177	83,231	7,421	6,664	621,806	510,792	550,968	460,364	70,839	50,428	54,868
20 Iowa.....	114,642	98,562	9,280	7,413	979,508	660,912	737,967	581,206	241,547	79,706	88,365
21 Missouri.....	91,844	98,909	6,158	5,926	833,117	670,059	737,486	625,821	95,644	44,238	67,938
22 North Dakota....	23,527	23,771	5,538	5,233	179,222	157,117	175,415	155,956	3,813	1,161	16,775
23 South Dakota....	16,137	9,452	1,717	781	100,285	43,327	87,825	41,621	12,466	1,706	8,921
24 Nebraska.....	51,286	40,312	5,886	3,894	466,229	294,442	241,309	159,089	224,924	135,353	46,007
25 Kansas.....	57,945	50,770	8,068	5,034	512,079	291,837	403,039	262,963	109,043	28,874	44,808
South Atlantic:											
26 Delaware.....	3,020	3,713	356	331	90,187	74,040	88,287	70,501	1,901	3,539	5,755
27 Maryland.....	16,657	19,421	1,116	1,105	272,030	249,807	263,597	244,447	8,435	5,360	18,872
28 Virginia.....	61,212	75,300	1,969	2,237	594,380	629,020	580,701	618,424	13,705	10,596	36,101
29 West Virginia....	15,790	19,723	284	308	60,779	60,621	67,286	60,621	160	4	3,775
30 North Carolina..	132,701	173,764	3,635	4,301	1,306,127	1,311,689	1,203,350	1,249,965	102,786	61,724	88,513
31 South Carolina..	48,624	70,690	2,237	2,668	711,188	689,275	666,332	673,474	44,860	15,801	42,878
32 Georgia.....	63,137	87,332	4,334	5,244	1,227,612	1,197,593	1,100,330	1,157,043	127,330	40,550	73,980
33 Florida.....	31,107	34,041	3,257	2,466	1,481,922	1,081,516	1,443,501	1,070,446	38,434	11,070	84,571
East South Central:											
34 Kentucky.....	106,917	126,046	2,196	2,468	579,051	562,297	558,543	550,802	20,508	11,495	38,620
35 Tennessee.....	101,287	127,810	2,756	2,932	561,290	525,986	532,111	515,845	29,188	10,141	36,845
36 Alabama.....	72,465	96,331	3,323	3,914	802,559	803,662	761,941	798,100	40,625	5,562	46,557
37 Mississippi.....	83,682	114,041	3,277	3,484	598,887	586,336	525,969	532,491	72,920	53,845	41,119
West South Central:											
38 Arkansas.....	43,646	56,583	3,293	2,717	417,349	335,525	369,098	302,536	48,255	32,989	33,046
39 Louisiana.....	38,310	47,278	2,217	1,984	316,368	249,056	259,183	218,859	57,193	30,197	23,793
40 Oklahoma.....	37,210	28,622	4,219	2,476	291,067	146,116	255,799	140,717	35,290	5,399	24,436
41 Texas.....	93,668	72,331	10,936	6,153	1,155,171	603,618	870,183	468,384	284,988	135,234	96,194
Mountain:											
42 Montana.....	9,817	8,506	1,893	1,337	80,054	49,207	75,209	46,422	4,845	2,785	7,676
43 Idaho.....	15,809	17,794	1,638	1,292	228,342	152,147	202,107	133,830	26,238	18,317	21,603
44 Wyoming.....	2,674	2,398	256	167	31,176	16,636	30,040	14,838	1,137	1,798	3,046
45 Colorado.....	11,514	10,789	1,060	713	123,575	73,499	105,313	62,165	18,261	11,334	11,926
46 New Mexico.....	4,484	3,908	544	352	71,666	42,773	55,876	36,128	15,791	6,645	6,535
47 Arizona.....	3,124	3,139	883	814	165,622	138,984	119,549	113,304	46,073	25,680	18,349
48 Utah.....	6,249	6,264	229	191	32,763	24,504	32,308	23,496	455	1,008	2,834
49 Nevada.....	561	626	64	56	9,180	7,606	8,037	7,094	1,142	512	776
Pacific:											
50 Washington.....	22,914	22,738	3,233	2,496	270,685	190,043	171,239	121,560	99,446	68,483	28,356
51 Oregon.....	19,903	20,376	1,851	1,742	227,065	175,197	203,104	148,137	23,965	27,060	20,135
52 California.....	46,521	48,308	5,987	5,071	1,288,535	1,105,865	893,775	815,686	394,787	290,179	110,435
53 Alaska.....	276	261	14	14	3,664	2,187	3,664	2,187	-	-	497
54 Hawaii.....	3,100	4,178	301	298	163,843	196,884	118,423	128,831	45,420	68,053	11,466

TABLE 11. Commercial Fertilizer—Farms, Acres Fertilized, Quantity of Fertilizer and Fertilizing Materials Used, and Expenditures for Fertilizer Materials, by Regions and States: 1964 and 1959—Continued

[Data are estimates based upon reports for only a sample of farms. See text]

Region and State	Hay and cropland pasture										
	Farms		Acres fertilized (1,000)		Fertilizer and fertilizer materials used (tons)						
	1964	1959	1964	1959	Total		Dry materials		Liquid materials		
				1964	1959	1964	1959	1964	1959	1964	1959
1 United States..	577,961	490,330	17,116	13,401	2,728,139	2,195,396	2,617,034	2,143,726	111,105	51,670	
2 The North..	244,863	203,145	6,506	4,986	916,852	781,091	896,636	767,520	20,216	13,571	
3 The South..	278,241	238,430	7,736	6,344	1,483,975	1,163,236	1,412,948	1,141,352	71,027	21,884	
4 The West...	54,857	48,755	2,874	2,071	327,312	251,069	307,450	234,854	19,862	16,215	
New England:											
5 Maine.....	2,880	3,456	73	77	15,961	20,206	15,884	20,149	77	57	
6 New Hampshire..	1,502	2,054	52	56	9,935	12,099	9,915	11,984	20	115	
7 Vermont.....	4,755	6,675	209	208	31,968	41,705	31,905	41,558	63	147	
8 Massachusetts...	2,416	3,133	81	93	16,686	20,361	16,632	20,299	54	62	
9 Rhode Island....	368	336	11	8	2,729	2,284	2,729	2,284	-	-	
10 Connecticut.....	1,829	2,661	71	82	14,495	19,641	14,382	19,373	113	268	
Middle Atlantic:											
11 New York.....	14,629	15,743	430	353	67,228	63,600	66,620	63,284	608	316	
12 New Jersey.....	2,310	3,136	89	112	19,635	28,465	19,553	28,427	82	38	
13 Pennsylvania....	22,016	22,615	561	542	105,719	107,798	103,492	107,289	2,227	509	
East North Central:											
14 Ohio.....	15,786	13,729	341	279	55,646	42,857	54,938	42,437	708	420	
15 Indiana.....	17,410	13,249	382	302	56,130	41,661	54,346	40,379	1,784	1,282	
16 Illinois.....	12,708	11,219	293	319	54,570	78,634	52,530	76,600	2,040	2,034	
17 Michigan.....	13,624	12,238	357	275	46,359	35,682	45,830	35,536	529	146	
18 Wisconsin.....	20,704	18,609	542	375	72,829	50,834	72,401	49,887	428	947	
West North Central:											
19 Minnesota.....	24,052	24,362	574	568	58,930	56,313	58,252	54,855	678	1,458	
20 Iowa.....	20,767	12,266	519	325	52,732	35,997	50,809	34,133	1,923	1,864	
21 Missouri.....	37,881	22,547	983	518	159,832	85,783	157,233	84,470	2,599	1,313	
22 North Dakota....	1,303	1,206	53	56	3,003	2,545	2,983	2,501	20	44	
23 South Dakota....	4,775	2,477	167	76	11,425	5,446	11,094	5,428	331	18	
24 Nebraska.....	10,676	4,601	328	141	28,683	11,661	25,690	9,967	2,993	1,694	
25 Kansas.....	12,472	6,833	390	221	32,357	17,519	29,418	16,680	2,939	839	
South Atlantic:											
26 Delaware.....	766	900	20	32	4,147	6,349	4,143	6,343	4	6	
27 Maryland.....	5,237	5,474	169	164	34,780	34,437	34,232	34,220	548	217	
28 Virginia.....	24,056	24,773	443	489	117,728	133,829	117,113	133,301	615	528	
29 West Virginia...	8,317	8,757	115	117	25,600	27,702	25,585	27,699	15	3	
30 North Carolina..	29,261	34,443	379	448	101,337	103,974	98,228	102,606	3,109	1,368	
31 South Carolina..	11,307	12,512	345	357	98,030	76,102	85,528	71,736	12,502	4,366	
32 Georgia.....	19,494	20,319	627	729	174,232	156,227	150,948	148,062	23,284	8,165	
33 Florida.....	4,219	3,841	305	321	69,071	66,373	65,046	65,118	4,025	1,255	
East South Central:											
34 Kentucky.....	32,874	26,153	705	488	136,579	94,867	134,637	93,942	1,942	925	
35 Tennessee.....	39,197	33,251	908	661	155,504	110,312	153,148	109,830	2,356	482	
36 Alabama.....	14,882	12,370	562	483	131,417	95,651	124,548	95,154	6,869	497	
37 Mississippi.....	17,388	14,435	453	409	89,200	74,349	87,644	73,184	1,556	1,165	
West South Central:											
38 Arkansas.....	12,112	8,676	358	245	49,282	31,422	48,251	31,055	1,031	367	
39 Louisiana.....	9,919	6,978	363	283	60,910	40,427	58,132	39,733	2,778	694	
40 Oklahoma.....	13,086	7,776	497	323	50,365	26,712	49,039	26,507	1,326	205	
41 Texas.....	36,126	17,772	1,487	795	185,793	84,503	176,726	82,862	9,067	1,641	
Mountain:											
42 Montana.....	4,414	3,152	281	157	20,949	10,786	20,608	10,618	341	168	
43 Idaho.....	8,953	9,429	374	293	36,429	30,031	35,630	29,524	799	507	
44 Wyoming.....	1,623	1,307	104	64	9,032	5,853	8,872	5,660	160	193	
45 Colorado.....	4,712	3,159	207	102	19,219	9,496	18,570	9,230	649	266	
46 New Mexico.....	2,402	1,894	132	88	14,889	10,715	14,325	10,527	564	188	
47 Arizona.....	1,170	827	120	100	14,027	11,696	11,018	9,251	3,009	2,445	
48 Utah.....	3,352	2,960	90	64	9,892	7,056	9,873	7,032	19	24	
49 Nevada.....	368	387	31	25	3,210	3,064	3,179	3,033	31	31	
Pacific:											
50 Washington.....	9,595	8,303	361	256	41,222	29,096	38,123	26,702	3,099	2,394	
51 Oregon.....	10,244	8,730	384	275	42,009	30,556	41,258	29,138	751	1,418	
52 California.....	7,773	8,381	776	639	113,541	100,442	103,101	91,863	10,440	8,579	
53 Alaska.....	205	146	12	5	2,582	823	2,582	823	-	-	
54 Hawaii.....	46	80	2	3	311	1,455	311	1,453	-	2	

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TABLE 11. Commercial Fertilizer—Farms, Acres Fertilized, Quantity of Fertilizer and Fertilizing Materials Used, and Expenditures for Fertilizer Materials, by Regions and States: 1964 and 1959—Continued

[Data are estimates based upon reports for only a sample of farms. See text.]

Region and State	Other pasture (not cropland)									
	Farms		Acres fertilized (1,000)		Fertilizer and fertilizer materials used (tons)					
					Total		Dry materials		Liquid materials	
	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959
1 United States..	185,746	154,727	6,542	4,458	1,026,388	745,547	977,621	728,819	48,767	16,728
2 The North..	52,104	48,139	1,146	868	147,544	128,842	141,092	125,766	6,452	3,076
3 The South..	123,472	96,143	5,031	3,306	840,189	581,535	799,805	569,174	40,384	12,361
4 The West...	10,170	10,445	365	284	38,655	35,170	36,724	33,879	1,931	1,291
New England:										
5 Maine.....	384	660	5	7	1,063	2,016	1,063	1,992	-	24
6 New Hampshire...	221	328	3	4	569	1,014	569	1,010	-	4
7 Vermont.....	1,341	1,816	27	29	3,723	5,161	3,723	5,158	-	3
8 Massachusetts...	503	672	9	12	1,790	2,427	1,790	2,427	-	-
9 Rhode Island....	68	71	1	1	190	201	190	201	(2)	-
10 Connecticut....	407	730	7	16	1,498	3,052	1,498	3,043	-	9
Middle Atlantic:										
11 New York.....	2,790	3,569	51	49	8,138	8,431	7,960	8,413	178	18
12 New Jersey.....	592	613	13	13	2,695	2,546	2,688	2,546	7	-
13 Pennsylvania....	6,329	8,179	98	113	17,717	21,720	17,279	21,581	438	139
East North Central:										
14 Ohio.....	3,824	5,119	69	85	11,540	12,924	11,408	12,720	132	204
15 Indiana.....	3,870	3,382	68	60	9,652	7,743	9,112	7,561	540	182
16 Illinois.....	3,050	2,576	63	54	9,235	10,616	8,502	10,238	733	378
17 Michigan.....	1,050	1,468	17	23	2,039	2,710	2,022	2,697	17	13
18 Wisconsin.....	2,308	3,508	34	42	4,743	5,892	4,682	5,764	61	128
West North Central:										
19 Minnesota.....	1,947	2,589	36	42	3,332	4,341	3,195	4,137	137	204
20 Iowa.....	4,143	1,854	98	46	9,525	4,480	8,847	4,163	678	317
21 Missouri.....	9,964	6,838	246	150	37,580	24,786	36,830	24,291	750	495
22 North Dakota....	234	135	11	5	491	273	491	273	-	-
23 South Dakota....	1,071	363	38	10	2,183	635	2,051	630	132	5
24 Nebraska.....	4,766	1,850	132	47	10,512	3,644	9,026	2,920	1,486	724
25 Kansas.....	3,242	1,819	120	60	9,329	4,230	8,166	4,001	1,163	229
South Atlantic:										
26 Delaware.....	145	240	4	7	785	1,325	785	1,300	-	25
27 Maryland.....	1,903	2,110	50	50	9,701	10,071	9,460	10,016	241	55
28 Virginia.....	9,967	10,032	221	226	54,975	59,140	54,478	58,678	497	462
29 West Virginia...	2,917	2,841	47	45	10,215	10,434	10,210	10,434	5	-
30 North Carolina..	13,822	14,602	237	213	54,911	48,630	52,772	48,009	2,139	621
31 South Carolina..	4,507	4,296	150	136	35,202	26,670	32,378	25,281	2,824	1,389
32 Georgia.....	14,663	10,814	560	369	129,825	74,358	113,441	69,510	16,384	4,848
33 Florida.....	5,520	4,382	977	605	154,712	103,407	146,216	100,546	8,496	2,861
East South Central:										
34 Kentucky.....	5,239	5,965	106	115	19,738	21,454	19,510	21,161	228	293
35 Tennessee.....	9,088	7,496	190	137	36,057	20,528	35,083	20,484	974	44
36 Alabama.....	10,004	7,456	464	359	90,296	67,308	86,668	66,981	3,628	327
37 Mississippi.....	11,627	7,912	405	256	66,557	48,491	65,670	47,997	887	494
West South Central:										
38 Arkansas.....	4,936	2,768	163	79	20,155	9,740	19,961	9,574	194	166
39 Louisiana.....	4,717	2,785	181	109	26,024	16,073	25,098	15,870	926	203
40 Oklahoma.....	6,969	3,226	323	156	28,895	13,316	28,336	13,288	559	28
41 Texas.....	17,448	9,218	953	444	102,141	50,590	99,739	50,045	2,402	545
Mountain:										
42 Montana.....	816	479	34	17	2,239	1,075	2,172	1,058	67	17
43 Idaho.....	1,096	1,296	23	20	2,230	1,941	2,145	1,901	85	40
44 Wyoming.....	174	132	7	4	674	390	638	348	36	42
45 Colorado.....	607	352	20	10	1,668	629	1,624	598	44	31
46 New Mexico.....	281	120	7	2	683	200	564	196	119	4
47 Arizona.....	90	92	3	2	244	267	151	231	93	36
48 Utah.....	384	411	7	6	698	564	645	558	53	6
49 Nevada.....	41	39	2	1	180	112	177	102	3	10
Pacific:										
50 Washington.....	1,826	2,066	42	34	4,513	4,093	4,172	3,684	341	409
51 Oregon.....	2,741	2,639	69	52	7,862	5,329	7,774	5,049	88	280
52 California.....	1,968	2,601	141	127	16,582	19,028	15,581	18,662	1,001	366
53 Alaska.....	1	10	(1)	(1)	6	21	6	21	-	-
54 Hawaii.....	145	208	10	9	1,076	1,521	1,075	1,471	1	50

2 Reported in small fractions. 1 Less than 500 acres.

TABLE 11. Commercial Fertilizer—Farms, Acres Fertilized, Quantity of Fertilizer and Fertilizing Materials Used, and Expenditures for Fertilizer Materials, by Regions and States: 1964 and 1959—Continued

[Data are estimates based upon reports for only a sample of farms. See text]

Region and State	Corn									
	Farms		Acres fertilized (1,000)		Fertilizer and fertilizer materials used (tons)					
					Total		Dry materials		Liquid materials	
	1964	1959	1964	1959	1964	1959	1964	1959	1964	1959
1 United States..	1,256,113	1,570,233	50,001	51,001	7,706,379	6,759,814	6,331,400	6,131,993	1,374,979	1,627,821
2 The North..	760,951	830,465	40,984	37,954	5,222,902	4,287,069	4,389,111	3,790,345	1,133,791	496,724
3 The South..	494,524	734,129	8,992	12,800	2,180,356	2,449,687	1,939,374	2,324,315	240,982	125,372
4 The West...	638	5,639	25	247	3,121	23,058	2,915	17,333	206	5,725
New England:										
5 Maine.....	637	1,052	9	8	3,063	2,752	3,051	2,749	12	3
6 New Hampshire...	574	797	9	9	2,887	2,308	2,866	2,269	21	39
7 Vermont.....	2,325	3,279	38	39	8,331	9,194	8,316	9,149	15	45
8 Massachusetts...	1,202	1,758	21	19	6,421	5,625	6,382	5,591	39	34
9 Rhode Island....	211	306	4	4	1,696	1,447	1,696	1,397	-	50
10 Connecticut.....	1,415	1,916	32	28	10,223	8,340	10,195	8,267	28	73
Middle Atlantic:										
11 New York.....	25,594	33,198	570	579	116,750	106,353	112,790	105,483	3,960	870
12 New Jersey.....	3,083	4,639	99	122	25,968	31,883	25,403	31,766	565	117
13 Pennsylvania....	48,645	61,414	1,033	1,054	228,073	205,726	223,101	203,496	4,972	2,230
East North Central:										
14 Ohio.....	76,617	99,052	3,049	3,411	543,881	510,562	493,865	488,966	50,016	21,596
15 Indiana.....	72,302	94,418	4,285	4,836	751,185	639,699	614,091	581,508	137,094	58,191
16 Illinois.....	96,861	95,830	8,141	6,584	1,256,195	821,495	903,946	697,148	352,249	124,347
17 Michigan.....	49,064	61,585	1,748	1,732	261,297	205,517	237,220	196,481	24,077	9,036
18 Wisconsin.....	72,505	86,128	2,166	2,435	261,920	256,329	243,554	246,351	18,366	9,978
West North Central:										
19 Minnesota.....	69,356	67,498	4,139	3,968	392,699	331,944	332,384	287,553	60,315	44,391
20 Iowa.....	109,577	90,459	7,975	6,354	855,562	559,737	621,016	485,446	234,546	74,291
21 Missouri.....	56,703	68,181	2,674	2,781	371,793	298,944	303,987	266,957	67,806	31,987
22 North Dakota....	3,791	4,417	253	291	11,344	10,420	11,100	10,394	244	26
23 South Dakota....	10,519	5,662	846	379	55,184	22,528	44,992	21,078	10,192	1,450
24 Nebraska.....	38,166	32,541	2,863	2,622	261,783	207,635	116,763	96,509	145,020	111,126
25 Kansas.....	21,804	16,335	1,030	699	96,647	48,631	72,393	41,787	24,254	6,844
South Atlantic:										
26 Delaware.....	2,423	3,195	155	135	39,853	27,387	38,295	25,789	1,558	1,598
27 Maryland.....	11,659	14,680	464	431	114,910	86,957	108,990	84,540	5,920	2,417
28 Virginia.....	38,768	53,794	579	673	176,766	174,708	167,413	167,201	9,353	7,507
29 West Virginia...	6,107	10,483	66	75	13,816	14,543	13,707	14,543	109	-
30 North Carolina..	96,216	139,932	1,305	1,740	423,031	458,586	339,866	405,251	83,165	53,335
31 South Carolina..	33,880	54,808	446	748	134,651	168,078	121,450	162,955	13,201	5,123
32 Georgia.....	45,193	70,936	1,574	2,351	415,846	461,674	361,398	442,914	54,448	18,760
33 Florida.....	8,559	9,315	376	395	85,275	70,291	76,973	67,399	8,302	2,892
East South Central:										
34 Kentucky.....	50,216	75,429	915	1,357	195,122	226,860	179,189	218,562	15,933	8,298
35 Tennessee.....	50,056	76,844	789	1,145	154,642	170,466	139,236	165,256	15,406	5,210
36 Alabama.....	52,572	78,649	1,015	1,775	220,064	310,555	204,145	307,600	15,919	2,955
37 Mississippi.....	51,155	77,584	588	1,008	114,792	169,618	108,467	162,343	6,325	7,275
West South Central:										
38 Arkansas.....	10,000	19,117	116	227	16,158	28,202	14,833	26,107	1,325	2,095
39 Louisiana.....	15,995	23,053	176	281	26,227	35,344	22,007	30,335	4,220	5,009
40 Oklahoma.....	(NA)	4,282	(NA)	86	(NA)	6,775	(NA)	6,589	(NA)	186
41 Texas.....	21,725	22,028	428	373	49,203	39,643	43,405	36,931	5,798	2,712
Mountain:										
42 Montana.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
43 Idaho.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
44 Wyoming.....	638	520	25	18	3,121	1,658	2,915	1,259	206	399
45 Colorado.....	(NA)	5,119	(NA)	229	(NA)	21,400	(NA)	16,074	(NA)	5,326
46 New Mexico.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
47 Arizona.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
48 Utah.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
49 Nevada.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Pacific:										
50 Washington.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
51 Oregon.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
52 California.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
53 Alaska.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
54 Hawaii.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.
 1 Data for Oklahoma and Colorado included in 1959 totals but not available in 1964.

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TABLE 11. Commercial Fertilizer—Farms, Acres Fertilized, Quantity of Fertilizer and Fertilizing Materials Used, and Expenditures for Fertilizer Materials, by Regions and States: 1964 and 1959—Continued

[Data are estimates based upon reports for only a sample of farms. See text]

Region and State	Total, all other crops ¹								
	Acres fertilized (1,000)		Fertilizer and fertilizer materials used (tons)						
			Total		Dry materials		Liquid materials		
	1964	1959	1964	1959	1964	1959	1964	1959	
1 United States.....	77,241	64,461	11,826,487	10,101,418	10,343,023	9,206,141	1,483,464	895,277	
2 The North..	34,671	30,116	3,537,548	3,316,819	3,284,100	3,194,054	253,448	122,765	
3 The South..	27,761	22,347	5,962,258	4,918,364	5,387,768	4,644,475	574,490	273,889	
4 The West...	14,809	11,998	2,326,681	1,866,235	1,671,155	1,367,612	655,526	498,623	
New England:									
5 Maine.....	178	174	122,605	127,142	122,446	126,596	159	546	
6 New Hampshire...	11	10	2,924	4,000	2,894	3,984	30	16	
7 Vermont.....	16	23	3,736	6,967	3,713	6,956	23	11	
8 Massachusetts....	50	43	24,679	24,547	24,468	24,440	211	107	
9 Rhode Island.....	8	9	6,357	8,505	6,357	8,283	-	222	
10 Connecticut.....	37	36	29,159	30,664	29,132	30,584	27	80	
Middle Atlantic:									
11 New York.....	1,037	1,189	273,863	313,336	270,463	309,805	3,400	3,531	
12 New Jersey.....	261	276	121,266	141,279	118,900	137,331	2,366	3,948	
13 Pennsylvania....	1,097	1,279	219,756	255,162	216,773	252,664	2,983	2,498	
East North Central:									
14 Ohio.....	2,446	2,611	353,667	367,053	346,000	358,402	7,667	8,651	
15 Indiana.....	2,778	2,818	320,647	315,809	305,655	304,570	14,992	11,239	
16 Illinois.....	2,625	2,225	307,065	309,076	294,295	289,586	12,770	19,490	
17 Michigan.....	2,499	2,684	369,789	372,661	372,805	364,597	5,984	8,064	
18 Wisconsin.....	1,070	1,152	154,348	149,624	151,715	147,409	2,633	2,215	
West North Central:									
19 Minnesota.....	2,671	2,087	166,855	118,194	157,138	113,819	9,717	4,375	
20 Iowa.....	688	689	61,746	60,698	57,326	57,464	4,420	3,234	
21 Missouri.....	2,255	2,476	264,018	260,546	239,504	250,103	24,514	10,443	
22 North Dakota....	5,221	4,881	164,410	143,879	160,861	142,788	3,549	1,091	
23 South Dakota....	667	315	31,510	14,718	29,690	14,485	1,820	233	
24 Nebraska.....	2,565	1,084	165,317	71,502	89,869	49,693	75,448	21,809	
25 Kansas.....	6,531	4,053	373,831	221,457	293,096	200,495	80,735	20,962	
South Atlantic:									
26 Delaware.....	182	158	45,408	38,979	45,069	37,069	339	1,910	
27 Maryland.....	437	460	112,445	118,342	110,724	115,671	1,721	2,671	
28 Virginia.....	729	849	245,079	261,343	241,818	259,244	3,261	2,099	
29 West Virginia...	56	71	11,179	11,148	14,607	14,606	31	1	
30 North Carolina..	1,714	1,901	726,859	700,499	712,454	694,099	14,405	6,400	
31 South Carolina..	1,303	1,433	443,371	418,425	427,017	413,502	16,354	4,923	
32 Georgia.....	1,575	1,795	507,961	505,334	474,686	496,557	33,275	8,777	
33 Florida.....	1,655	1,146	1,172,802	841,445	1,155,180	837,383	17,622	4,062	
East South Central:									
34 Kentucky.....	470	509	227,752	219,116	225,334	217,137	2,418	1,979	
35 Tennessee.....	870	989	215,105	224,680	204,644	220,275	10,461	4,405	
36 Alabama.....	1,289	1,297	360,846	330,148	346,610	328,365	14,236	1,783	
37 Mississippi.....	1,828	1,810	328,402	293,878	264,219	248,967	64,183	44,911	
West South Central:									
38 Arkansas.....	2,669	2,167	331,799	266,161	286,081	235,800	45,718	30,361	
39 Louisiana.....	1,497	1,311	203,261	197,212	153,974	132,921	49,287	24,291	
40 Oklahoma.....	3,401	1,910	211,727	99,313	178,317	94,333	33,410	4,980	
41 Texas.....	8,086	4,541	818,262	428,882	550,493	298,546	267,769	130,336	
Mountain:									
42 Montana.....	1,578	1,162	56,903	37,346	52,455	34,746	4,448	2,600	
43 Idaho.....	1,243	980	189,625	120,175	164,306	102,405	25,319	17,770	
44 Wyoming.....	120	81	18,324	8,735	17,588	7,571	736	1,164	
45 Colorado.....	832	371	102,637	41,974	85,132	36,263	17,505	5,711	
46 New Mexico.....	406	262	56,129	31,858	41,013	25,405	15,116	6,453	
47 Arizona.....	778	712	151,368	127,021	108,392	103,822	42,976	23,199	
48 Utah.....	133	122	22,199	16,884	15,906	15,906	385	978	
49 Nevada.....	32	31	5,793	4,430	4,685	3,959	1,108	471	
Pacific:									
50 Washington.....	2,831	2,206	224,995	156,854	128,977	91,174	96,018	65,680	
51 Oregon.....	1,397	1,416	176,694	139,312	153,554	113,950	23,140	25,362	
52 California.....	5,167	4,361	1,158,477	986,395	775,120	705,161	383,397	281,234	
53 Alaska.....	4	8	1,079	1,343	1,343	-	-	-	
54 Hawaii.....	288	286	162,458	193,908	117,040	125,907	45,418	68,001	

¹See table 12, for data for specified crops included in total.