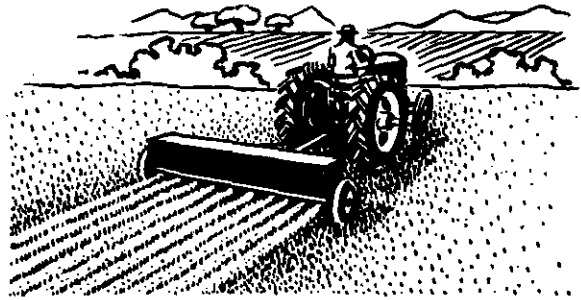


Consumption of



Commercial Fertilizers

in the United States

Year ended June 30, 1966

with Comparisons

Preliminary Report



UNITED STATES DEPARTMENT OF AGRICULTURE
Statistical Reporting Service ●● Crop Reporting Board
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November 18, 1966

Consumption of Commercial Fertilizers
in the United States

Year ended June 30, 1966 1/

Fertilizer consumption 8 percent above previous year

Commercial fertilizer consumption increased 8 percent for the year ended June 30, 1966. Total consumption in the United States and Puerto Rico totaled 34.3 million tons compared with 31.8 million tons a year earlier. Most States used more fertilizer this year than last. However, Massachusetts, Rhode Island, New Jersey, Alabama, Mississippi, Arkansas, Arizona, Utah, Nevada, and California used smaller tonnages. Reduced cotton acreage was a major cause of lower usage in cotton producing States. Consumption in all other States increased with strong increases occurring in the Cornbelt and Plains States.

Mixed fertilizer consumption up 5 percent

Consumption of mixed fertilizers totaled 19.4 million tons -- 5 percent above the preceding year. Usage of mixed fertilizers has been increasing since 1960 when 15.6 million tons were consumed. Mixed fertilizers represented 56.8 percent of all fertilizer for the 1965-66 fertilizer year, compared with 58.3 percent a year earlier. The trend toward higher analysis mixtures continued.

Usage of materials for direct application up 13 percent

A 13 percent increase was registered in the direct application of primary nutrient material consumed during the year ended June 30, 1966. The total was 13.3 million tons compared with 11.8 million tons a year earlier. Direct application materials represented 38.9 percent of total usage compared with 36.9 percent a year earlier.

Chemical nitrogen materials used for direct application totaled 8.9 million tons compared with 7.7 million a year earlier, a 16 percent increase. Anhydrous ammonia usage, at 1.9 million tons, was up 24 percent. Nitrogen solutions, at 2.4 million tons, continued to increase in popularity.

1/ This preliminary report is available through the cooperation of State fertilizer control officials and the fertilizer industry. The data are subject to revision when the annual report is published in May 1967 although only minor revisions are expected.

Consumption of phosphate materials totaled 2.6 million tons -- 4 percent above the previous year. A year earlier consumption of direct application phosphate materials totaled 2.5 million tons. There were 1.2 million tons of potash materials used for direct application, an increase of 29 percent from a year earlier.

Secondary and micronutrient materials applied directly to the soil totaled 1.5 million tons -- down from the quantity applied during the 1964-65 fertilizer year. Unknown quantities of secondary and micronutrient materials were applied in mixed fertilizers.

12 percent increase in primary plant nutrient usage

Fertilizers marketed for farm and nonfarm use in the United States and Puerto Rico supplied 12.3 million tons of primary plant nutrients (N, available P₂O₅, K₂O). This was an increase of 12 percent from the 11.0 million tons the previous year. Mixtures supplied 7.1 million tons of primary plant nutrients compared with 6.6 million tons a year earlier. Direct application materials supplied 5.2 million tons compared with 4.4 million tons a year earlier. To convert phosphoric oxide (P₂O₅) to the nutrient element phosphorous (P) the quantity of P₂O₅ should be multiplied by 0.43642. To convert potassium oxide (K₂O) to potassium (K) multiply by 0.83016.

The primary plant nutrient consumption published in this report for both 1965 and 1966 is based on the guaranteed analysis of the product. In prior years over-runs and under-runs were taken into account.

The following table gives factors which are based on the differences between the tonnage of primary plant nutrients calculated from the guaranteed analysis and from the "found" analysis for the year ending June 30, 1965. The "found" analysis is the average analysis of products as reported by fertilizer control officials in the respective States. These factors can be used to adjust the primary nutrient tonnage published in years prior to this report to a guaranteed analysis basis, if desired.

Factors for converting United States total primary plant nutrient tonnage from a "found" analysis basis to guaranteed analysis basis for years prior to 1965.

	: Nitrogen :	P ₂ O ₅ :	K ₂ O :	Total :
Mixtures	: .9967	.9880	.9845	.9887
Materials	: .9960	.9834	.9954	.9940
Mixtures & Materials	: .9962	.9872	.9864	.9908

Table 1. Total fertilizer^{1/}: Consumption by kind of fertilizer, by States, years ended June 30, 1965, and 1966^{2/}

State	Mixtures		Direct application materials ^{3/}				Total		1966 as percent of 1965
	1965	1966	Primary nutrient		Secondary & micro-nutrient		1965	1966	
			1965	1966	1965	1966			
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Percent
Maine	170,763	177,594	8,014	4,407	28	11	178,805	182,012	102
N.H.	17,852	20,217	4,216	4,839	1	2	22,069	25,058	114
Vt.	47,946	48,571	12,173	12,146	18	20	60,137	60,737	101
Mass.	76,830	77,598	16,415	15,430	76	75	93,321	93,103	100
R.I.	17,595	16,965	2,154	2,191	6	6	19,755	19,162	97
Conn.	68,360	72,462	15,290	16,207	41	45	83,691	88,714	106
N.Y.	552,086	574,169	77,554	76,778	520	575	630,160	651,522	103
N.J.	215,077	187,167	24,868	30,268	847	798	240,792	218,233	91
Pa.	563,494	594,895	95,934	97,638	4,777	4,882	664,205	697,415	105
Del.	101,313	116,510	13,385	15,316	473	474	115,171	132,300	115
D. of Col.	3,469	3,850	1,051	946	7	8	4,527	4,804	106
Md.	330,182	354,646	39,568	42,088	245	280	369,995	397,014	107
W.Va.	63,169	63,169	18,798	21,994	102	53	82,069	85,216	104
Va.	643,481	662,785	127,675	138,968	20,364	20,180	791,520	821,933	104
N.C.	1,322,379	1,362,050	341,822	350,824	63,979	68,144	1,728,180	1,781,018	103
S.C.	630,214	651,419	192,730	210,144	4,492	4,086	827,436	865,649	105
Ga. ^{4/}	1,175,265	1,220,256	358,694	396,809	33,551	37,727	1,567,510	1,654,792	106
Fla.	1,507,733	1,538,900	230,516	237,143	6,901	8,142	1,745,150	1,784,185	102
Ohio	968,259	977,705	250,954	326,845	777	379	1,219,990	1,304,929	107
Ind.	1,060,126	1,144,936	570,668	719,042	616	695	1,631,410	1,864,673	114
Ill. ^{4/}	997,731	1,197,277	1,421,311	1,794,139	436	1,250	2,419,478	2,992,666	124
Mich.	625,305	622,376	140,190	158,826	5,398	6,377	770,893	787,579	102
Wis.	423,317	418,878	169,079	210,401	1,729	1,873	594,125	631,152	106
Minn.	540,175	546,239	257,481	309,892	1,435	846	799,091	856,977	107
Iowa	654,647	726,658	771,566	1,018,410	4,855	4,602	1,431,068	1,749,670	122
Mo.	648,096	790,724	441,109	451,652	191	326	1,089,396	1,242,702	114
N. Dak.	78,721	83,444	120,217	127,427	159	74	199,097	210,945	106
S. Dak.	49,583	70,634	56,184	87,811	7	0	105,774	158,445	150
Nebr.	137,514	186,108	444,370	564,087	1,310	2,254	583,194	752,449	129
Kans.	253,569	307,394	388,417	525,792	124	2,649	642,110	835,835	130
Ky.	520,716	546,751	150,829	177,218	377	400	671,922	724,369	108
Tenn.	542,094	577,211	134,744	183,817	244	250	677,082	761,278	112
Ala.	736,555	702,621	284,103	279,963	3,763	2,432	1,024,421	985,036	96
Miss.	397,958	390,516	310,632	288,888	55	990	708,645	680,394	96
Ark.	251,258	240,669	216,562	199,934	7	169	467,827	440,772	94
La.	225,620	228,779	176,327	179,762	86	90	402,033	408,631	102
Okla.	187,737	212,651	208,742	277,300	96	2	396,575	489,953	124
Texas	640,579	664,514	818,185	836,138	3,965	6,036	1,462,729	1,506,688	103
Mont.	22,242	29,335	52,129	72,492	711	531	75,082	102,358	136
Idaho	50,615	49,097	191,994	228,189	11,500	10,854	254,109	288,140	113
Wyo.	6,788	8,146	24,177	23,935	5	171	30,970	32,252	104
Colo.	54,425	56,058	128,434	129,828	5,122	3,622	187,981	189,508	101
N. Mex.	16,144	18,757	50,248	48,261	67	34	66,459	67,052	101
Ariz.	30,846	32,388	171,964	178,893	31,931	22,582	234,741	233,863	100
Utah	14,586	13,828	45,099	44,720	358	294	60,043	58,842	98
Nev.	3,505	2,804	7,226	6,829	2,415	2,161	13,146	11,794	90
Wash.	88,247	96,464	318,582	348,915	14,470	17,767	421,299	463,146	110
Oreg.	49,781	50,279	257,377	280,328	21,809	17,734	328,967	348,341	106
Calif.	477,404	429,664	1,495,827	1,496,531	1,267,695	1,216,295	3,240,926	3,142,490	97
48 States	18,261,351	19,166,128	11,655,584	13,250,401	1,518,141	1,469,267	31,435,076	33,885,796	108
Other ^{5/}	297,598	281,197	100,584	92,576	3,145	1,679	401,327	375,452	94
U.S.	18,558,949	19,447,325	11,756,168	13,342,977	1,521,286	1,470,946	31,836,403	34,261,248	108

1/ Excludes liming materials. 2/ 1966 preliminary. 3/ Excludes materials used in commercial mixtures. 4/ Revised. 5/ Alaska, Hawaii, and Puerto Rico.

Table 2. Nitrogen materials: Consumption of nitrogen materials by direct application, by States, years ended June 30, 1965, and 1966^{1/}

State	Ammonia				Ammonium			
	Anhydrous		Aqua		Nitrate		Sulfate	
	1965	1966	1965	1966	1965	1966	1965	1966
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Maine	0	0	0	0	2,164	421	49	25
N.H.	0	0	0	0	838	1,538	18	4
Vt.	0	0	0	0	651	675	2	7
Mass.	0	0	0	0	979	984	132	131
R.I.	0	0	0	0	37	38	1	0
Conn.	0	0	0	0	363	415	11	12
N.Y.	1,090	599	23	399	14,946	14,213	1,871	1,837
N.J.	221	238	0	0	3,446	6,009	2,813	2,377
Pa.	2,423	2,221	0	0	7,529	7,552	10,369	10,662
Del.	366	417	0	0	905	1,032	3	60
D. of Col.	0	0	0	0	0	105	0	0
Md.	4,437	4,547	267	40	2,894	3,360	25	153
W. Va.	28	0	0	0	2,352	3,821	553	658
Va.	511	371	0	0	9,412	11,035	375	400
N.C.	5,943	5,841	0	0	19,456	17,722	222	111
S.C.	2,080	2,135	0	0	13,672	13,832	350	326
Ga.	21,851	34,627	0	0	89,961	91,608	438	546
Fla.	5,874	4,704	840	1,014	37,029	43,224	4,123	4,325
Ohio	29,487	34,687	22,294	29,250	19,829	26,016	14,889	19,534
Ind.	107,205	126,162	60,093	71,180	39,844	50,373	4,784	5,475
Ill.	200,320	292,564	130,911	196,367	106,859	127,130	38,616	50,201
Mich.	23,032	27,108	3,674	2,232	21,577	21,926	1,945	1,773
Wis.	10,101	15,792	5,180	4,817	14,123	16,108	868	1,565
Minn.	20,145	26,714	4,647	12,762	32,368	36,737	5,978	2,000
Iowa	181,573	239,676	116,487	153,763	73,077	96,461	2,182	2,880
Mo.	76,012	76,011	2,858	4,123	99,095	84,108	309	589
N. Dak.	1,204	1,300	0	0	11,128	12,017	59	64
S. Dak.	3,779	8,987	379	1,145	21,012	29,547	3,208	5,829
Nebr.	171,634	234,631	16,859	19,017	84,667	102,233	2,369	3,352
Kans.	60,073	95,804	200	0	120,688	159,578	834	1,012
Ky.	12,312	15,011	0	0	49,168	58,355	571	814
Tenn.	23,972	41,249	0	613	48,276	63,067	22	114
Ala.	12,816	17,119	69	7	86,013	91,507	4,146	3,052
Miss.	47,814	41,137	900	940	115,313	122,236	914	940
Ark.	21,126	18,323	437	514	66,595	64,044	1,585	2,238
La.	34,045	36,440	5,511	6,421	56,401	60,358	15,394	19,905
Okla.	14,616	25,901	1,930	1,251	64,624	91,865	4,171	6,118
Texas	198,331	210,973	48,385	58,602	95,978	102,074	101,970	92,950
Mont.	889	1,404	54	0	5,713	8,475	507	1,795
Idaho	10,247	8,920	14,181	14,295	31,883	37,878	50,165	64,895
Wyo.	1,795	1,685	422	0	10,958	10,201	1,182	2,716
Colo.	11,026	24,044	81	170	40,871	41,688	9,343	10,107
N. Mex.	8,410	8,540	217	207	2,429	3,183	5,921	4,027
Ariz.	33,315	44,462	10,095	16,335	8,085	8,162	14,521	14,466
Utah	3,526	3,506	1,014	1,053	8,667	8,865	9,365	9,541
Nev.	814	1,324	229	58	406	63	662	1,176
Wash.	57,306	55,117	71,689	75,131	34,321	39,988	29,125	38,778
Oreg.	8,919	10,828	33,401	31,191	11,993	12,202	77,342	87,392
Calif.	132,708	131,014	232,721	272,061	44,613	45,758	328,232	306,020
48 States	1,563,376	1,932,133	786,048	974,958	1,633,208	1,849,787	752,534	782,952
Other ^{2/}	0	0	33,617	33,930	1,086	1,187	21,969	13,669
U.S.	1,563,376	1,932,133	819,665	1,008,888	1,634,294	1,850,974	774,503	796,621

^{1/} 1966 preliminary. ^{2/} Alaska, Hawaii, and Puerto Rico.

Table 2. Nitrogen materials: Consumption of nitrogen materials by direct application, by States, years ended June 30, 1965, and 1966^{1/} (Continued)

State	Nitrogen solutions		Sodium nitrate		Urea		Other	
	1965	1966	1965	1966	1965	1966	1965	1966
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons
Maine	773	782	102	34	537	508	93	102
N.H.	174	30	35	138	221	446	19	3
Vt.	414	426	0	0	546	566	3	2
Mass.	100	102	431	425	873	876	106	105
R.I.	0	0	19	19	133	137	136	139
Conn.	772	889	289	333	466	536	189	230
N.Y.	9,043	11,578	2,698	2,396	7,835	6,787	2,096	2,116
N.J.	1,431	1,321	1,522	1,056	1,347	1,189	1,199	1,016
Pa.	11,206	12,440	1,218	1,110	9,333	9,330	775	1,110
Del.	7,915	9,023	39	44	393	448	193	220
D. of Col.	0	0	10	7	0	0	3	10
Md.	13,177	17,213	1,922	974	1,834	2,933	1,050	703
W. Va.	1,141	2,176	1,710	1,004	266	297	364	72
Va.	48,888	57,703	8,067	6,699	1,741	1,683	13,142	11,275
N.C.	135,705	155,872	54,531	56,665	2,577	5,449	68,544	51,345
S.C.	78,948	104,145	38,375	33,488	789	1,416	39,159	35,351
Ga.	173,513	214,257	37,241	27,484	278	220	21,288	14,391
Fla.	41,238	44,962	17,700	12,135	2,978	2,450	15,901	17,457
Ohio	68,094	83,339	488	640	32,095	42,109	547	718
Ind.	194,669	263,912	220	250	23,843	29,567	472	616
Ill.	198,354	267,778	0	0	9,544	16,635	261	577
Mich.	30,788	31,573	860	457	13,924	17,233	417	303
Wis.	27,221	34,615	0	2	1,941	1,763	140	11
Minn.	47,119	51,581	0	0	2,380	2,902	111	193
Iowa	147,748	195,027	0	0	4,154	5,483	49	410
Mo.	55,350	61,666	342	220	12,303	10,802	338	572
N. Dak.	3,132	3,382	0	0	6	6	24	26
S. Dak.	6,063	7,458	0	0	545	2,593	193	138
Nebr.	96,402	110,893	0	0	7,623	10,798	3,261	3,261
Kans.	111,642	162,027	25	0	24,582	33,811	443	234
Ky.	18,702	24,516	2,740	2,504	1,453	2,278	2,121	1,717
Tenn.	16,813	35,094	16,238	13,433	885	500	1,048	840
Ala.	67,357	76,822	33,301	24,961	1,199	1,280	21,488	22,447
Miss.	33,027	31,969	44,658	28,210	5,282	7,522	3,709	2,115
Ark.	32,770	30,757	19,548	12,830	32,857	33,881	1,513	367
La.	14,461	17,176	15,278	10,595	9,861	9,632	108	0
Okla.	41,931	66,760	190	95	18,033	18,073	268	0
Texas	33,726	53,596	674	159	45,422	47,901	3,519	3,991
Mont.	1,384	4,225	0	0	232	201	86	88
Idaho	18,546	19,036	0	0	8,635	6,904	1,967	3,596
Wyo.	811	466	0	0	44	95	34	15
Colo.	5,364	5,418	0	0	5,017	5,067	1,056	628
N. Mex.	3,334	4,298	0	0	5,160	4,799	99	34
Ariz.	20,869	15,269	344	300	25,902	24,721	10,037	10,252
Utah	65	75	0	0	1,695	1,728	283	275
Nev.	25	23	0	0	217	180	266	202
Wash.	29,891	35,905	0	0	17,469	12,946	12,402	15,483
Oreg.	12,713	5,493	0	91	24,010	30,357	2,750	282
Calif.	59,317	63,381	276	180	38,268	43,167	19,109	18,379
48 States	1,922,126	2,396,449	301,091	238,938	406,728	460,205	252,379	223,417
Other ^{2/}	0	0	20	6	20,827	16,680	31	191
U.S.	1,922,126	2,396,449	301,111	238,944	427,555	476,885	252,410	223,608

1/ 1966 preliminary.

2/ Alaska, Hawaii, and Puerto Rico.

Table 3. Phosphate materials: Consumption of phosphate materials by direct application, by States, years ended June 30, 1965, and 1966^{1/}

State	Phosphate rock ^{2/}		Superphosphates				Ammonium phosphates ^{3/}		Other	
			Grades 22 percent or under		Grades over 22 percent		1965	1966	1965	1966
	1965	1966	1965	1966	Tons	Tons				
Maine	2	0	2,771	1,015	33	24	38	67	124	109
N.H.	2	6	1,194	1,052	523	101	0	319	72	90
Vt.	50	49	9,577	9,524	107	108	118	108	40	49
Mass.	8	6	2,271	2,063	159	177	289	262	477	439
R.I.	0	0	350	355	0	0	1	0	139	142
Conn.	9	8	2,249	2,423	334	389	344	292	744	778
N.Y.	208	100	18,105	17,666	715	720	1,108	938	458	538
N.J.	100	126	2,261	1,625	98	1,223	79	101	237	419
Pa.	3,465	4,046	19,396	19,800	3,022	3,128	4,604	4,310	3,970	3,476
Del.	40	40	1,397	1,593	475	542	463	548	31	35
D.of Col.	0	0	38	26	0	0	0	0	27	25
Md.	385	14	6,005	3,192	1,493	2,162	597	1,542	990	390
W.Va.	80	0	7,429	8,279	2,342	3,187	92	35	613	46
Va.	2,044	1,433	14,227	13,026	5,896	12,350	1,320	1,500	3,288	986
N.C.	561	2,747	15,502	20,156	353	410	209	200	2,077	1,936
S.C.	97	0	7,227	7,511	169	325	93	0	4,170	5,290
Ga.	783	165	2,942	2,517	6	0	264	14	1,833	2,554
Fla.	12,437	13,631	6,103	6,003	908	548	258	606	11,414	7,790
Ohio	4,047	5,310	8,718	11,438	10,279	13,486	2,735	3,588	290	380
Ind.	7,193	4,795	5,848	5,913	14,708	25,701	4,883	3,246	307	300
Ill.	253,709	184,443	15,749	26,545	189,350	241,477	12,101	6,148	10,131	9,314
Mich.	831	478	4,228	3,981	1,656	3,762	1,179	748	346	399
Wis.	1,951	1,517	4,036	4,637	12,609	17,066	744	1,391	2,618	1,207
Minn.	1,874	2,823	11,035	17,318	62,145	67,810	18,010	23,120	91	111
Iowa	3,476	4,588	23,197	30,620	110,829	146,294	7,820	11,777	4,062	3,908
Mo.	151,265	180,729	374	268	11,706	5,995	2,504	1,200	272	277
N.Dak.	40	42	856	904	35,746	37,762	67,088	70,930	223	236
S.Dak.	40	0	462	1,463	9,661	12,447	8,786	14,187	90	0
Nebr.	1,396	571	13,098	18,733	24,942	32,904	12,692	14,212	27	455
Kans.	1,759	3,136	468	979	23,076	22,041	40,133	36,998	61	0
Ky.	3,989	3,073	16,295	14,126	6,530	20,872	1,479	1,200	9,006	1,217
Tenn.	267	130	5,990	9,103	4,283	4,176	1,543	1,163	3,450	3,096
Ala.	524	0	18,960	19,632	243	0	315	4	29,894	15,702
Miss.	1,245	1,131	22,691	19,268	2,274	1,900	297	300	23,478	22,985
Ark.	890	204	4,712	5,292	9,052	7,966	2,414	2,012	15	15
La.	1,056	1,108	8,104	6,334	1,319	1,122	3,422	3,593	2,139	2,045
Okla.	3,710	6,757	11,597	13,048	16,582	17,921	21,130	16,414	387	324
Texas	8,920	494	45,343	35,273	36,346	28,858	176,896	178,336	3,248	3,700
Mont.	230	63	0	0	17,935	19,028	19,169	31,089	5,351	5,350
Idaho	306	308	1,111	857	28,188	34,654	21,635	30,007	3,641	3,373
Wyo.	0	0	3	8	5,101	5,765	3,134	2,522	506	58
Colo.	40	40	106	121	26,088	16,900	7,202	5,741	1,673	1,571
N.Mex.	0	0	6,557	7,588	8,774	7,903	7,121	5,515	593	151
Ariz.	0	0	2,471	1,595	2,741	1,810	35,425	29,280	5,400	9,361
Utah	0	0	2,287	2,173	10,627	10,289	6,967	6,730	42	38
Nev.	0	0	124	48	1,151	1,176	2,730	2,089	129	0
Wash.	1,221	7	4,440	4,807	9,831	12,731	30,390	39,629	687	1,040
Oreg.	3	0	12,834	13,918	7,176	5,702	46,687	64,006	540	156
Calif.	168	3	82,276	73,306	9,724	8,638	139,930	137,504	15,334	14,009
48 States	470,421	424,121	453,014	467,122	726,905	859,550	716,438	755,521	154,735	125,870
Other ^{4/}	6,408	2,538	2,423	3,491	2,469	1,958	3,099	3,162	7	4,466
U.S.	476,829	426,659	455,437	470,613	729,374	861,508	719,537	758,683	154,742	130,336

1/ 1966 preliminary. 2/ Includes colloidal phosphate. 3/ Total of 11-48-0, 13-39-0, 16-20-0, 21-53-0, and 27-14-0 grades. 4/ Alaska, Hawaii, and Puerto Rico.

Table 4. Potash and natural organic materials: Consumption of potash and natural organic materials by direct application, by States, years ended June 30, 1965, and 1966^{1/}

State	Potash materials				Natural organics	
	Chloride 50-62 percent grades		Other		1965	1966
	1965	1966	1965	1966	1965	1966
	Tons	Tons	Tons	Tons	Tons	Tons
Maine	220	237	104	100	1,004	983
N.H.	157	225	6	29	957	858
Vt.	495	486	0	0	170	146
Mass.	432	405	211	197	9,947	9,258
R.I.	10	10	5	5	1,323	1,346
Conn.	183	184	461	464	8,876	9,254
N.Y.	1,380	1,324	4,512	4,434	11,466	11,133
N.J.	920	4,316	146	145	9,048	9,107
Pa.	7,101	7,104	1,207	1,195	10,316	10,154
Del.	728	830	12	0	425	484
D. of Col.	2	2	0	0	971	771
Md.	1,768	3,073	881	100	1,843	1,692
W.Va.	1,524	1,955	1	2	303	462
Va.	10,703	12,648	6,715	6,263	1,346	1,596
N.C.	11,032	9,746	20,834	18,945	4,276	3,679
S.C.	5,521	4,349	941	908	1,139	1,068
Ga.	2,256	3,552	2,865	1,517	3,175	3,357
Fla.	8,054	11,279	35,190	37,837	30,469	29,178
Ohio	29,768	48,780	1,172	1,537	6,222	6,033
Ind.	102,868	127,616	1,480	1,812	2,251	2,124
Ill.	242,700	361,746	919	929	11,787	12,285
Mich.	21,531	32,519	1,213	2,476	12,989	11,858
Wis.	77,881	101,230	1,046	1,096	8,620	7,584
Minn.	48,041	61,923	745	926	2,792	2,972
Iowa	94,733	125,048	713	941	1,466	1,534
Mo.	24,351	20,560	442	704	3,588	3,828
N.Dak.	598	646	5	5	108	107
S.Dak.	1,507	3,458	33	0	426	559
Nebr.	5,617	9,409	2,976	2,547	1,207	1,071
Kans.	3,454	9,570	108	0	871	602
Ky.	16,550	22,409	8,396	7,783	1,517	1,343
Tenn.	9,187	8,855	1,657	1,453	1,113	931
Ala.	5,779	5,846	710	585	1,289	999
Miss.	8,239	7,502	570	503	221	230
Ark.	22,637	20,940	137	346	274	205
La.	4,729	2,407	3,488	1,907	1,011	719
Okla.	7,427	8,628	369	400	1,777	3,745
Texas	5,327	4,916	1,343	1,773	12,757	12,542
Mont.	346	574	0	0	233	200
Idaho	1,278	2,800	83	447	128	219
Wyo.	36	171	5	44	146	189
Colo.	1,809	3,374	658	27	18,100	14,932
N.Mex.	459	575	390	642	784	799
Ariz.	38	40	811	840	1,910	2,000
Utah	309	260	9	8	243	179
Nev.	0	0	0	0	473	490
Wash.	11,000	9,749	1,458	1,787	7,352	5,817
Oreg.	5,576	9,713	1,199	760	12,234	8,237
Calif.	2,917	4,691	12,155	11,770	378,079	366,650
48 States	809,178	1,077,680	118,381	116,189	589,022	565,509
Other ^{2/}	5,055	7,538	3,366	3,505	207	255
U. S.	814,233	1,085,218	121,747	119,694	589,229	565,764

^{1/} 1966 preliminary. ^{2/} Alaska, Hawaii, and Puerto Rico.

Table 5. Primary plant nutrients: Consumption of primary plant nutrients by kind of fertilizer, by States, years ended June 30, 1965, and 1966^{1/}

State	Mixtures								1966 as percent of 1965
	N		Available P ₂ O ₅		K ₂ O		Total		
	1965	1966	1965	1966	1965	1966	1965	1966	
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Percent
Maine	15,548	16,623	20,487	21,897	21,117	22,537	57,152	61,057	107
N. H.	1,724	2,001	2,090	2,368	2,305	2,628	6,119	6,997	114
Vt.	3,789	3,934	6,555	6,557	7,694	7,723	18,038	18,214	101
Mass.	6,977	7,061	7,560	7,682	7,329	7,682	21,866	22,425	103
R. I.	1,505	1,493	1,801	1,739	1,711	1,649	5,017	4,881	97
Conn.	6,758	7,174	6,304	6,667	6,348	6,739	19,410	20,580	106
N. Y.	43,066	45,073	69,042	74,642	62,406	66,029	174,514	185,744	106
N. J.	16,780	14,730	21,660	18,492	21,545	18,211	59,985	51,433	86
Pa.	41,968	46,402	72,084	77,336	66,392	70,198	180,444	193,936	107
Del.	7,800	9,321	11,387	13,399	12,990	15,146	32,177	37,866	118
D. of Col.	311	356	274	308	177	196	762	860	113
Md.	23,178	26,598	36,466	40,075	39,837	43,621	99,481	110,294	111
W. Va.	3,523	3,853	8,113	8,275	7,666	8,086	19,302	20,214	105
Va.	32,409	33,802	68,251	69,592	72,815	75,557	173,475	178,951	103
N. C.	65,246	69,465	122,595	128,033	146,552	152,550	334,393	350,048	105
S. C.	30,378	31,594	66,351	69,702	78,245	84,684	174,974	185,980	106
Ga.	58,138	61,013	123,311	128,127	162,918	176,937	344,367	366,077	106
Fla.	101,077	105,415	97,512	101,567	154,720	160,046	353,309	367,028	104
Ohio	74,712	75,283	171,198	182,831	146,503	156,433	392,413	414,547	106
Ind.	75,918	82,435	208,114	230,132	192,574	214,103	476,606	526,670	111
Ill.	78,109	94,585	212,308	263,401	132,453	159,238	422,870	517,224	122
Mich.	48,057	50,226	117,803	120,119	99,257	101,447	265,117	271,792	103
Wis.	24,967	27,227	81,796	85,870	90,449	90,059	197,212	203,156	103
Minn.	51,398	53,968	149,709	155,569	76,790	75,381	277,897	284,918	103
Iowa	62,442	72,666	165,214	196,198	82,331	94,466	309,987	363,330	117
Mo.	71,471	79,705	106,481	132,367	94,778	114,418	272,730	326,490	120
N. Dak.	12,852	13,351	26,007	27,620	2,922	3,087	41,781	44,058	105
S. Dak.	10,391	13,279	9,891	18,012	885	1,836	21,167	33,127	156
Nebr.	20,354	28,847	41,600	55,832	4,545	7,444	66,499	92,123	139
Kans.	40,942	47,646	82,219	104,207	9,839	12,296	133,000	164,149	123
Ky.	32,622	34,555	66,542	71,078	72,859	76,600	172,023	182,233	106
Tenn.	38,278	41,906	69,364	73,883	73,516	78,270	181,158	194,059	107
Ala.	37,275	35,834	92,942	90,638	92,421	90,638	222,638	217,110	98
Miss.	30,410	30,265	51,230	53,891	51,194	53,891	132,834	138,047	104
Ark.	18,759	17,810	43,115	42,791	43,052	43,152	104,926	103,753	99
La.	19,395	20,750	33,284	36,056	29,938	31,343	82,617	88,149	107
Okla.	22,121	26,049	47,865	58,649	16,047	18,245	86,033	102,943	120
Texas	74,629	72,100	125,628	136,225	43,933	43,193	244,190	251,518	103
Mont.	4,709	6,454	5,707	7,334	203	293	10,619	14,081	133
Idaho	8,567	8,297	15,985	15,711	260	245	24,812	24,253	98
Wyo.	1,348	1,621	2,202	2,639	24	29	3,574	4,289	120
Colo.	8,716	9,400	16,783	17,602	1,472	1,228	26,971	28,230	105
N. Mex.	2,628	3,001	3,590	4,164	444	656	6,662	7,821	117
Ariz.	4,683	5,279	8,346	9,328	769	810	13,798	15,417	112
Utah	2,427	2,309	3,928	3,724	158	138	6,513	6,171	95
Nev.	530	339	461	265	68	97	1,059	701	66
Wash.	11,579	11,576	19,253	21,801	4,603	5,788	35,435	39,165	111
Oreg.	5,864	6,033	10,636	11,061	4,151	4,279	20,651	21,373	103
Calif.	58,743	53,708	63,200	57,145	15,757	14,179	137,700	125,032	91
48 States	1,415,071	1,512,412	2,794,244	3,062,601	2,256,962	2,413,501	6,466,277	6,988,514	108
Other ^{2/}	37,013	35,917	21,812	21,497	43,247	43,386	102,072	100,800	99
U.S.	1,452,084	1,548,329	2,816,056	3,084,098	2,300,209	2,456,887	6,568,349	7,089,314	108

^{1/} 1966 preliminary. ^{2/} Alaska, Hawaii, and Puerto Rico.

Table 5. Primary plant nutrients: Consumption of primary plant nutrients by kind of fertilizer, by States, years ended June 30, 1965, and 1966^{1/} (Continued)

State	Mixtures and direct application materials ^{2/}								1966 as percent of 1965
	N		Available P ₂ O ₅		K ₂ O		Total		
	1965	1966	1965	1966	1965	1966	1965	1966	
	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Percent
Maine	16,850	17,319	21,131	22,201	21,291	22,721	59,272	62,241	105
N.H.	2,209	2,848	2,613	2,791	2,415	2,775	7,237	8,414	116
Vt.	4,422	4,586	8,600	8,589	8,001	8,025	21,023	21,200	101
Mass.	8,425	8,468	8,684	8,724	7,741	8,068	24,850	25,260	102
R.I.	1,666	1,660	1,951	1,889	1,738	1,676	5,355	5,225	98
Conn.	7,961	8,488	7,559	7,978	6,800	7,200	22,320	23,666	106
N.Y.	57,696	59,301	73,938	79,383	64,820	68,402	196,454	207,086	105
N.J.	20,654	19,359	22,373	19,636	22,292	21,012	65,319	60,007	92
Pa.	57,816	62,507	82,136	87,191	71,231	75,034	211,183	224,732	106
Del.	11,464	13,511	12,144	14,266	13,425	15,642	37,033	43,419	117
D. of Col.	356	427	321	345	190	212	867	984	113
Md.	33,683	39,111	39,076	42,640	41,099	45,577	113,858	127,328	112
W.Va.	5,314	6,281	11,087	11,448	8,599	9,283	25,000	27,012	108
Va.	56,415	60,940	76,360	78,903	80,256	84,099	213,031	223,942	105
N.C.	148,225	154,793	126,479	132,631	156,618	161,886	431,322	449,310	104
S.C.	70,543	77,998	68,345	71,904	81,927	87,619	220,815	237,521	108
Ga.	165,982	188,048	124,363	128,967	165,131	179,458	455,476	496,473	109
Fla.	140,679	146,856	101,615	105,325	168,283	176,494	410,577	428,675	104
Ohio	151,711	170,575	179,501	193,666	165,100	186,717	496,312	550,958	111
Ind.	269,676	324,101	218,777	244,936	255,834	292,512	744,287	861,549	116
Ill.	387,236	526,252	318,427	390,758	277,238	374,740	982,901	1,291,750	131
Mich.	92,243	99,049	120,649	123,660	112,604	122,021	325,496	344,730	106
Wis.	50,557	60,860	90,207	96,752	137,866	151,627	278,630	309,239	111
Minn.	103,595	116,608	186,816	198,322	106,418	113,561	396,829	428,491	108
Iowa	316,444	407,941	225,471	275,603	139,397	169,687	681,312	853,231	125
Mo.	192,280	197,084	117,547	141,275	109,548	126,978	419,375	465,337	111
N. Dak.	27,011	28,454	69,577	73,649	3,288	3,482	99,876	105,585	106
S. Dak.	25,261	38,556	16,981	28,031	1,815	3,952	44,057	70,539	160
Nebr.	230,337	299,506	58,719	78,324	8,657	13,680	297,713	391,510	132
Kans.	180,580	247,608	101,176	122,209	11,992	18,147	293,748	387,964	132
Ky.	67,050	76,111	78,835	86,216	86,415	93,662	232,300	255,989	110
Tenn.	82,896	110,396	73,875	78,381	79,882	84,369	236,653	273,146	115
Ala.	105,623	111,002	99,792	95,774	95,946	94,193	301,361	300,969	100
Miss.	129,631	123,464	59,295	60,877	56,263	58,502	245,189	242,843	99
Ark.	88,080	82,506	48,740	47,857	56,716	55,837	193,536	186,200	96
La.	82,816	89,533	36,590	39,243	33,518	33,128	152,924	161,904	106
Okla.	80,530	109,292	62,874	73,427	20,660	23,605	164,064	206,324	126
Texas	361,316	379,347	193,916	200,082	47,670	46,700	602,902	626,129	104
Mont.	10,932	17,025	22,499	28,198	413	640	33,844	45,863	136
Idaho	54,720	59,486	36,444	41,790	1,080	2,178	92,244	103,454	112
Wyo.	7,678	7,659	5,732	6,084	50	149	13,460	13,892	103
Colo.	39,097	50,563	32,267	28,171	3,102	3,607	74,466	82,341	111
N. Mex.	16,171	16,374	11,129	10,740	837	1,194	28,137	28,308	101
Ariz.	64,380	72,760	23,524	24,373	1,204	1,303	89,108	98,436	110
Utah	12,301	12,240	11,339	10,870	351	300	23,991	23,410	98
Nev.	2,165	2,158	1,656	1,396	72	100	3,893	3,654	94
Wash.	114,412	118,912	32,168	38,651	12,016	12,599	158,596	170,162	107
Oreg.	62,323	69,100	27,291	31,584	8,003	10,590	97,617	111,274	114
Calif.	360,335	362,506	136,506	125,747	31,268	33,587	528,109	521,840	99
48 States	4,579,747	5,259,529	3,487,095	3,821,457	2,787,080	3,108,530	10,853,922	12,189,516	112
Other ^{3/}	58,791	54,223	25,112	25,094	47,457	49,787	131,360	129,104	98
U. S.	4,638,538	5,313,752	3,512,207	3,846,551	2,834,537	3,158,317	10,985,282	12,318,620	112

^{1/} 1966 preliminary. ^{2/} Materials guaranteed to contain one or more primary plant nutrients.
^{3/} Alaska, Hawaii, and Puerto Rico.

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