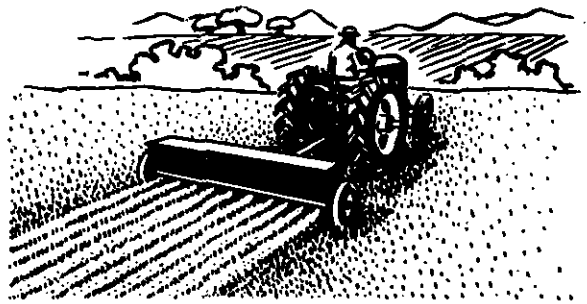


Consumption of



# Commercial Fertilizers

in the United States

Fiscal Year ended June 30, 1969

with Comparisons



May 8, 1970

UNITED STATES DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service ● Crop Reporting Board  
SpCr 7 (5-70) Washington, D. C.

CONTENTS

<u>Table</u>		<u>Page</u>
--	Micronutrient Fertilizer Survey in U. S., years ended June 30, 1968 and 1969 .....	5
1.	Total fertilizer: Kinds of fertilizer consumed, years ended June 30, 1968, and 1969, by region 1969 .....	6
2.	Total fertilizer: Consumption by kind of fertilizer, by States, years ended June 30, 1968, and 1969 .....	8
3.	Total fertilizer: Fertilizer consumed as mixtures and direct-application materials, by States, semi-annually, year ended June 30, 1969	9
4.	Nitrogen materials: Consumption by direct application, by States, years ended June 30, 1968, and 1969 .....	10
5.	Nitrogen and secondary and micronutrient materials: Consumption by direct application by States, years ended June 30, 1968, and 1969	12
6.	Phosphate materials: Consumption by direct application, by States, years ended June 30, 1968, and 1969 .....	13
7.	Potash and natural organic materials: Consumption by direct application, by States, years ended June 30, 1968, and 1969 .....	14
8.	Primary plant nutrients: Consumption of primary plant nutrients by kind of fertilizer, by States, years ended June 30, 1968, and 1969	15
9.	Primary plant nutrients: Nitrogen content of direct-application materials consumed, by States, year ended June 30, 1969 .....	17
10.	Primary plant nutrients: Available P <sub>2</sub> O <sub>5</sub> content of direct-application materials consumed, by States, year ended June 30, 1969 .....	18
11.	Primary plant nutrients: K <sub>2</sub> O content of direct-application materials consumed, by States, year ended June 30, 1969 .....	19
12.	Principal mixtures: Consumption of 15 principal grades, by regions and States, year ended June 30, 1969 .....	20
13.	Mixtures: Tonnage of the 150 most popular fertilizer mixtures consumed, United States, years ended June 30, 1968, and 1969 .....	22
14.	Average analysis: Average primary-nutrient content of mixtures and direct-application materials consumed, by States, year ended June 30, 1969 .....	23
15.	Selected N-P grades: Consumption by States, year ended June 30, 1969	24
16.	Nitrogen solutions: Consumption by direct application by analysis, by States, years ended June 30, 1968, and 1969 .....	25
17.	Primary-nutrient ratios: Primary-nutrient ratios of mixtures totaling 50,000 or more tons in United States, by regions, years ended June 30, 1969 .....	26

CONSUMPTION OF COMMERCIAL FERTILIZER IN THE UNITED STATES  
For Fiscal Year Ended June 30, 1969 1/

TOTAL FERTILIZER USE UP SLIGHTLY

The final estimate of fertilizer consumption in the United States and Puerto Rico during the year ended June 30, 1969 is placed at 38.9 million tons by the Crop Reporting Board. This is one-half of one percent above the previous year and six-tenths of a percent more than indicated by the October 1969 preliminary report.

Tonnage of all fertilizer used for both farm and non-farm purposes increased for the ninth consecutive year. The rate of increase is, however, much below the 4 and 7 percent increases for the years ended June 30, 1967 and 1968, respectively. Increases over the previous year occurred in most regions west of the Mississippi. The Pacific and regions east of the Mississippi declined.

Primary plant nutrient usage (nitrogen, N; phosphoric acid,  $P_2O_5$ ; and potassium oxide,  $K_2O$ ) at 15.5 million tons was 3 percent higher than the previous year. Nitrogen usage at 6.9 million tons, increased 3 percent; phosphoric oxide at 4.7 million tons gained 5 percent; and potassium oxide at 3.9 million tons was up 3 percent.

Mixed fertilizer accounted for 54.5 percent of total fertilizer consumption and continues the downward trend in the proportion applied in this form. Direct application materials continued to increase, accounting for 42.1 percent of the total. Secondary and micronutrients declined from the previous year to account for 3.4 percent of the total fertilizer used.

LITTLE CHANGE IN MIXED FERTILIZER USAGE

Consumption of mixed fertilizer containing 2 or more primary plant nutrients for the year ended June 30, 1969 was 21.2 million tons. This represents a decline of less than one-half of one percent from the previous year.

The average analysis of all mixed fertilizer was 8.95 percent nitrogen, 17.53 percent  $P_2O_5$  and 12.54 percent  $K_2O$ . This compares with the previous year averages of 8.77-16.81-12.67. The total analysis of plant nutrients in mixed fertilizer was 39.02 percent compared to 38.24 percent the previous year.

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1/ The cooperation of individual State fertilizer control officials and the voluntary reporting of fertilizer manufacturers have made this publication possible.

## DIRECT APPLICATION MATERIALS UP 2 PERCENT

The use of all direct application materials totaled 17.7 million tons for the year ended June 30, 1969. This was 2 percent above the previous year. Primary nutrient materials (N,  $P_2O_5$  and  $K_2O$ ) usage at 16.4 million tons was 4 percent above a year earlier. Secondary and micronutrient materials for direct application totaled 1.3 million tons compared to 1.6 million tons in the 1967-68 year.

Nitrogen materials (excluding natural organics) used for direct application at 10.9 million tons were up 2 percent. Increased use of ammonium nitrate and nitrogen solutions accounted for most of the increases. Phosphate materials totaled 2.8 million tons, up 3 percent. All potash materials at 2.1 million tons increased 15 percent. Natural organics used totaled 0.5 million tons, down 6 percent from a year earlier.

## MICRONUTRIENT SURVEY

Data were collected from all known primary producers of selected micronutrients. The tables on page 5 are totals of the individual reports for all firms and are in the elemental form.

(Fertilizer consumption includes all commercial fertilizer materials or products sold or shipped for both farm and non-farm use as fertilizer. Materials used in manufacture of registered mixes or for uses other than as fertilizer are excluded from totals.)

To convert phosphoric oxide ( $P_2O_5$ ) to elemental phosphorus (P), the quantity of  $P_2O_5$  should be multiplied by 0.43642. To convert potassium oxide ( $K_2O$ ) to elemental potassium (K) multiply by 0.83016.

MICRONUTRIENTS SOLD FOR FERTILIZER IN THE UNITED STATES

Region of Application	Quantity of the Element Sold				
	Copper	Iron	Manganese	Zinc	Molybdenum
JULY 1, 1967 - JUNE 30, 1968 <sup>1/</sup>					
----- Tons -----					
NEW ENGLAND (Me., N.H., Vt., Mass., R.I., Conn.) .....	26.4	3.5	33.2	198.6	.1
MID-ATLANTIC (N.Y., N.J., Pa., Del., D.C., Md., W.Va.) .....	168.7	26.4	466.2	319.3	5.2
SOUTH ATLANTIC (Va., N.C., S.C., Ga., Fla.) .....	1,868.0	469.3	4,496.4	3,850.5	7.4
EAST NORTH CENTRAL (Ohio, Ind., Ill., Mich., Wis.) .....	76.0	125.3	5,232.8	1,711.7	34.6
WEST NORTH CENTRAL (Minn., Iowa, Mo., N.Dak., S.Dak., Nebr., Kans.) .....	87.8	88.0	767.6	4,958.5	14.9
EAST SOUTH CENTRAL (Ky., Tenn., Ala., Miss.) .....	17.0	7.9	175.4	284.8	1.0
WEST SOUTH CENTRAL (Ark., La., Okla., Texas) .....	21.0	120.6	138.8	815.6	14.4
MOUNTAIN (Mont., Idaho, Wyo., Colo., N. Mex., Ariz., Utah, Nev.) .....	26.6	575.4	97.3	854.4	.4
PACIFIC (Wash., Oreg., Calif.) .....	116.9	2,040.0	160.4	1,496.1	1.6
Alaska, Hawaii, Puerto Rico .....	2.0	3.1	14.3	5.5	---
UNITED STATES .....	2,410.4	3,459.5	11,582.4	14,495.0	79.6

JULY 1, 1968 - JUNE 30, 1969 <sup>2/</sup>

Region of Application	Quantity of the Element Sold				
	Copper	Iron	Manganese	Zinc	Molybdenum
----- Tons -----					
NEW ENGLAND (Me., N.H., Vt., Mass., R.I., Conn.) .....	32.6	2.2	29.1	88.8	---
MID-ATLANTIC (N.Y., N.J., Pa., Del., D.C., Md., W.Va.) .....	157.5	13.8	181.4	1,617.7	1.1
SOUTH ATLANTIC (Va., N.C., S.C., Ga., Fla.) .....	938.8	305.6	2,406.3	6,510.8	17.0
EAST NORTH CENTRAL (Ohio, Ind., Ill., Mich., Wis.) .....	70.4	236.8	3,704.1	2,054.0	16.9
WEST NORTH CENTRAL (Minn., Iowa, Mo., N.Dak., S.Dak., Nebr., Kans.) .....	42.9	61.3	2,588.6	4,197.5	11.1
EAST SOUTH CENTRAL (Ky., Tenn., Ala., Miss.) .....	23.9	20.2	242.1	757.3	2.0
WEST SOUTH CENTRAL (Ark., La., Okla., Texas) .....	14.0	130.6	83.4	805.9	13.8
MOUNTAIN (Mont., Idaho, Wyo., Colo., N. Mex., Ariz., Utah, Nev.) .....	14.0	152.4	128.6	1,668.0	.4
PACIFIC (Wash., Oreg., Calif.) .....	91.3	1,954.2	229.7	2,496.0	2.2
Alaska, Hawaii, Puerto Rico .....	1.8	1.7	.1	1.9	---
UNITED STATES .....	1,387.2	2,878.8	9,593.4	1/20,197.7	64.5

<sup>1/</sup> Revised. <sup>2/</sup> Zinc revised for 1969.

TABLE 1.- TOTAL FERTILIZER CONSUMED, 1/ BY KINDS YEARS ENDED JUNE 30, 1968 AND 1969  
UNITED STATES AND BY REGIONS 2/ 1969

KIND	UNITED STATES		1969			
	1968	1969	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	EAST NORTH CENTRAL
			----- IONS -----			
<b>MIXTURES</b>						
N-P-K	17,176,066	16,993,732	318,785	1,529,340	4,905,417	3,586,863
N-P	2,376,655	2,531,214	3,718	39,313	15,155	499,474
N-K	374,635	353,975	1,130	317	265,490	19,462
P-K	1,366,219	1,343,435	8,286	94,822	352,867	285,660
TOTAL	21,293,575	21,222,356	331,919	1,663,792	5,538,929	4,391,459
<b>NITROGEN MATERIALS</b>						
ANHYDROUS AMMONIA	3,072,190	3,141,989	445	15,250	89,424	745,669
AQUA AMMONIA	813,543	701,050	0	256	149	142,170
AMMONIUM NITRATE	2,376,459	2,578,483	8,232	57,602	287,936	254,295
AMMONIUM NITRATE-LIMESTONE	112,728	101,890	0	818	91,538	0
AMMONIUM SULFATE	843,236	762,955	695	5,151	5,501	38,444
CALCIUM CYANAMIDE	9,838	8,599	365	1,937	1,577	62
CALCIUM NITRATE	20,753	20,547	137	38	4,560	453
NITROGEN SOLUTIONS	2,645,424	2,794,312	3,591	74,342	746,159	614,098
SODIUM NITRATE	153,385	104,470	619	4,294	63,937	895
UREA	550,250	581,879	2,633	38,888	12,789	83,855
OTHER	50,448	92,863	328	2,013	8,101	30,979
TOTAL	10,648,304	10,889,037	17,045	200,589	1,311,671	1,910,920
<b>NATURAL ORGANIC MATERIALS</b>						
DRIED BLOOD	2,173	2,251	7	34	30	49
CASTOR POMACE	2,584	1,626	217	29	1,362	0
COMPOST	41,234	19,472	2,014	1	2,991	4,647
COTTONSEED MEAL	2,522	5,416	553	48	1,779	439
DRIED MANURE	363,418	350,557	7,617	15,482	10,043	13,743
ACTIVATE SEWAGE SLUDGE	87,044	76,715	4,896	14,660	10,244	24,009
OTHER SEWAGE SLUDGE	51,311	54,347	204	1,998	6,554	2
TANKAGE	6,606	6,732	4,376	81	1,118	0
OTHER	14,005	18,601	128	3,021	2,154	935
TOTAL	570,947	535,717	20,012	35,354	36,275	43,824
<b>PHOSPHATE MATERIALS</b>						
AMMONIUM PHOSPHATE 3/	803,654	751,553	1,149	1,937	2,835	7,869
BASIC SLAG	94,792	122,310	0	0	23,636	1,840
RAW AND STEAMED BONEMEAL	7,274	7,523	1,185	2,520	642	1,112
PHOSPHORIC SOLUTION	59,235	76,626	0	140	0	27,720
PHOSPHATE ROCK	255,734	195,258	65	1,785	7,261	78,998
COLLOIDAL PHOSPHATE	9,906	8,245	0	708	2,304	541
SUPERPHOSPHATE GRADES:						
18 PERCENT	25,730	29,791	0	352	196	220
19 PERCENT	5,643	2,958	0	200	2,077	5
20-22 PERCENT	369,974	331,283	8,173	39,507	35,862	21,678
23-44 PERCENT	87,105	75,509	0	17	160	71,151
45 PERCENT	213,100	176,267	48	7	844	2,006
46 PERCENT	789,968	1,020,544	1,286	40,918	22,015	405,273
47-54 PERCENT	19,159	22,894	0	8	385	3,030
OTHER	4,261	5,054	0	838	374	150
TOTAL	2,745,535	2,825,815	11,906	88,937	98,591	621,593
<b>POTASH MATERIALS</b>						
LIME POTASH	8,880	1,152	0	0	1,144	1
MANURE SALTS	5,411	4,000	0	0	3,795	18
POTASSIUM CHLORIDE	1,719,040	1,957,678	5,188	27,590	53,956	1,116,121
POTASSIUM MAGNESIUM SULFATE	35,749	34,119	112	1,857	8,994	2,335
POTASSIUM NITRATE 1/2	16,139	11,484	90	173	10,091	350
POTASSIUM SODIUM NITRATE	31,615	72,052	73	1,435	59,050	213
POTASSIUM SULFATE	42,417	35,998	236	1,136	1,898	1,672
OTHER	8,411	24,082	146	147	76	15,460
TOTAL	1,867,662	2,140,565	5,845	32,338	139,004	1,136,170
<b>SECONDARY AND MICRONUTRIENT MATERIALS</b>						
ALUMINUM COMPOUNDS 5/	72	421	2	79	7	306
BORON COMPOUNDS 5/	2,308	2,325	74	233	72	534
CALCIUM SULFATE (GYPSUM)	1,469,974	1,194,656	15	6,983	174,106	1,771
COPPER COMPOUNDS 5/	1,009	2,525	5	28	267	44
IRON COMPOUNDS 5/	23,239	23,893	10	34	275	50
MAGNESIUM COMPOUNDS 5/	2,139	1,093	7	130	354	52
MANGANESE COMPOUNDS 5/	3,555	11,335	0	298	338	2,102
SULFUR 5/	18,832	28,148	1	148	695	236
SULFURIC ACID	3,431	5,098	0	0	0	0
ZINC COMPOUNDS 5/	29,049	29,746	0	3	1,583	630
OTHER	64,389	35,088	876	451	203	3,645
TOTAL	1,616,997	1,334,328	990	8,387	177,900	9,370
<b>TOTAL ALL FERTILIZERS</b>	<b>38,743,020</b>	<b>38,947,818</b>	<b>387,717</b>	<b>2,029,397</b>	<b>7,302,370</b>	<b>8,113,336</b>

SEE FOOTNOTES ON PAGE 7.

TABLE 1.--TOTAL FERTILIZER CONSUMED 1/, BY KINDS, YEARS ENDED JUNE 30, 1968 AND 1969  
UNITED STATES AND BY REGION 2/ 1969

KIND	1969					
	WEST NORTH CENTRAL	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	ALASKA HAWAII PUERTO RICO
	--- TONS ---					
<b>MIXTURES</b>						
N-P-K	2,369,807	2,050,200	1,531,868	68,917	452,740	179,795
N-P	1,056,162	32,234	351,017	277,599	250,884	5,658
N-K	4,568	3,906	3,141	62	2,244	53,655
P-K	246,728	217,840	133,337	9	3,377	509
TOTAL	3,677,265	2,304,180	2,019,363	346,587	709,245	239,617
<b>NITROGEN MATERIALS</b>						
ANHYDROUS AMMONIA	1,382,210	103,055	457,695	154,394	193,847	0
AQUA AMMONIA	108,668	0	36,465	20,937	364,028	28,377
AMMONIUM NITRATE	685,617	489,929	482,580	193,070	117,517	1,705
AMMONIUM NITRATE-LIMESTONE	256	7,961	0	11	198	1,108
AMMONIUM SULFATE	11,428	5,157	130,727	133,406	425,194	7,252
CALCIUM CYANAMIDE	4	632	6	229	3,776	11
CALCIUM NITRATE	0	0	0	2,890	12,378	91
NITROGEN SOLUTIONS	711,629	195,738	195,497	89,781	163,187	290
SODIUM NITRATE	3,864	23,817	6,996	0	13	35
UREA	65,453	23,078	168,578	51,509	118,842	16,254
OTHER	5,029	2,344	1,185	21,199	21,364	321
TOTAL	2,974,158	851,711	1,479,729	667,426	1,420,344	55,444
<b>NATURAL ORGANIC MATERIALS</b>						
DRIED BLOOD	6	1	0	0	2,071	53
CASTOR POMACE	0	0	0	1	17	0
COMPOST	806	0	0	5,001	4,012	0
COTTONSEED MEAL	378	1	2,037	0	181	0
DRIED MANURE	5,364	1,795	307	13,706	282,435	65
ACTIVATE SEWAGE SLUDGE	5,945	2,460	2,334	2,296	9,691	180
OTHER SEWAGE SLUDGE	515	92	0	561	44,421	0
TANKAGE	0	750	100	0	282	25
OTHER	37	0	7,000	582	4,699	45
TOTAL	13,051	5,099	11,778	22,147	347,809	368
<b>PHOSPHATE MATERIALS</b>						
AMMONIUM PHOSPHATE 3/	97,154	3,044	236,738	170,472	224,755	5,600
BASIC SLAG	0	82,328	2,725	0	6	11,775
RAW AND STEAMED BONEMEAL	125	171	39	9	1,320	400
PHOSPHORIC SOLUTION	1,398	175	3,236	27,912	16,045	0
PHOSPHATE ROCK	91,150	880	5,159	5	8,255	1,700
COLLOIDAL PHOSPHATE	285	3,530	397	0	480	0
<b>SUPERPHOSPHATE GRADES:</b>						
18 PERCENT	4	15,872	0	112	13,035	0
19 PERCENT	0	0	0	0	676	0
20-22 PERCENT	45,640	25,777	47,353	8,512	93,987	4,794
23-44 PERCENT	2,972	0	123	200	886	0
45 PERCENT	28,271	4,323	8,188	87,832	39,727	21
46 PERCENT	452,297	33,558	39,222	21,900	685	3,390
47-54 PERCENT	1,229	4,895	8,830	4,369	148	0
OTHER	93	1,974	0	209	1,383	33
TOTAL	720,618	181,527	352,010	321,532	401,388	27,713
<b>POTASH MATERIALS</b>						
LIME POTASH	1	0	0	6	0	0
MANURE SALTS	45	1	55	86	0	0
POTASSIUM CHLORIDE	578,909	70,953	54,842	16,463	29,378	4,278
POTASSIUM MAGNESIUM SULFATE	10,516	1,725	5,932	986	778	884
POTASSIUM NITRATE 1/	145	391	125	10	83	26
POTASSIUM SODIUM NITRATE	3,667	7,518	54	37	3	2
POTASSIUM SULFATE	1,518	9,587	60	3,191	13,644	3,056
OTHER	5,020	1	0	0	113	3,119
TOTAL	599,821	90,176	61,068	20,779	43,999	11,365
<b>SECONDARY AND MICRONUTRIENT MATERIALS</b>						
ALUMINUM COMPOUNDS 5/	1	1	0	0	25	0
BORON COMPOUNDS 5/	146	151	34	64	973	44
CALCIUM SULFATE (GYPSUM)	1,412	622	1,300	16,630	991,645	172
COPPER COMPOUNDS 5/	10	2	0	38	2,122	9
IRON COMPOUNDS 5/	5	14	130	2,141	18,940	2,294
MAGNESIUM COMPOUNDS 5/	24	26	0	25	330	145
MANGANESE COMPOUNDS 5/	168	14	10	236	8,097	72
SULFUR 5/	251	3	24	8,702	18,008	80
SULFURIC ACID	1,290	0	0	2,084	1,724	0
ZINC COMPOUNDS 5/	15,819	520	60	2,620	8,264	247
OTHER	12,166	0	143	6,969	10,151	484
TOTAL	31,292	1,353	1,701	39,509	1,060,279	3,547
<b>TOTAL ALL FERTILIZERS</b>	<b>8,016,205</b>	<b>3,434,046</b>	<b>3,925,649</b>	<b>1,417,980</b>	<b>3,983,064</b>	<b>338,054</b>

1/ EXCLUDES LIMING MATERIALS AND ALL MATERIALS USED IN MAKING MIXTURES.

2/ STATES THAT ARE INCLUDED IN EACH REGION ARE DETAILED IN TABLE 2.

3/ TOTAL OF 11-48-0, 13-39-0, 16-20-0, 21-53-0 AND 27-14-0.

4/ ADDITIONAL QUANTITIES MAY HAVE BEEN REPORTED BY GRADE UNDER MIXTURES; SEE TABLE 13.

5/ REPORTED FOR USE PRIMARILY AS DIRECT APPLICATION MATERIAL.

TABLE 2.—TOTAL FERTILIZER 1/ CONSUMPTION BY KIND OF FERTILIZER, BY STATES,  
YEARS ENDED JUNE 30, 1968, AND 1969

STATE AND DIVISION	MIXTURES		DIRECT-APPLICATION MATERIAL 2/				TOTAL		
			PRIMARY NUTRIENT		SECONDARY AND MICRO-NUTRIENT		1968	1969	1969 AS PERCENT OF 1968
	1968	1969	1968	1969	1968	1969			
	-----T O N S-----								PERCENT
MAINE	160,767	152,716	6,470	6,182	5	5	167,242	158,903	95
N H	14,642	15,308	2,603	2,758	17	29	17,262	18,095	105
VT	31,564	32,860	8,725	9,996	34	37	40,323	42,893	106
MASS	61,896	58,554	16,233	17,987	84	139	78,213	76,680	98
R I	11,622	13,009	2,612	4,182	2	20	14,236	17,211	121
CONN	58,306	59,472	13,383	13,703	32	760	71,721	73,935	103
N E	338,797	331,919	30,026	34,808	174	990	388,997	387,717	100
N Y	563,083	517,760	85,549	112,535	146	335	648,778	630,630	97
N J	209,497	192,874	28,873	28,052	1,170	429	239,540	221,355	92
PA	535,103	522,535	119,531	122,433	4,507	7,407	659,141	652,375	99
DEL	100,382	88,702	16,615	21,344	398	117	117,395	110,163	94
MD	317,781	289,442	54,200	50,157	321	70	372,302	339,669	91
D C	4,836	7,018	925	955	20	2	5,781	7,975	138
N VA	48,610	45,461	20,636	21,742	139	27	69,385	67,230	97
M A	1,779,292	1,663,792	326,329	357,218	6,701	8,387	2,112,322	2,029,397	96
VA	672,040	667,604	149,652	159,625	20,171	21,367	841,863	848,596	101
N C	1,324,046	1,257,389	372,283	369,379	65,320	90,578	1,761,649	1,717,346	97
S C	714,853	666,310	219,518	239,903	5,976	4,970	940,347	911,183	97
GA	1,427,191	1,346,099	496,536	538,845	54,549	55,114	1,978,276	1,940,058	98
FLA	1,495,844	1,601,527	223,997	277,789	7,041	5,871	1,726,882	1,885,187	109
S A	5,633,974	5,538,929	1,461,986	1,585,541	153,057	177,900	7,249,017	7,302,370	101
OHIO	962,956	943,012	408,559	411,142	1,553	1,105	1,373,068	1,355,259	99
IND	1,244,641	1,094,485	662,030	755,586	1,014	913	1,907,685	1,850,984	97
ILL	1,409,377	1,369,792	1,787,705	1,929,382	2,199	1,661	3,199,281	3,300,835	103
MICH	625,810	574,759	202,868	218,305	5,133	4,557	833,811	797,621	96
WIS	426,670	409,411	389,733	398,092	1,476	1,134	817,679	808,637	99
E N C	4,669,254	4,391,459	3,450,895	3,712,507	11,375	9,370	8,131,524	8,113,336	100
MINN	637,852	780,197	598,668	763,089	1,315	1,882	1,237,835	1,545,168	125
IOWA	986,149	964,996	1,432,530	1,362,646	3,943	5,769	2,422,622	2,333,411	96
MO	939,799	949,122	495,858	412,281	328	388	1,435,985	1,361,791	95
N DAK	183,677	195,370	177,940	149,326	90	0	361,707	344,696	95
S DAK	111,039	104,368	128,294	155,332	14	147	239,347	259,847	109
NEBR	285,539	276,262	919,930	778,423	21,351	20,833	1,226,820	1,075,518	88
KANS	396,635	406,950	674,437	686,551	1,091	2,273	1,072,163	1,095,774	102
W N C	3,540,690	3,677,265	4,427,657	4,307,648	28,132	31,292	7,996,479	8,016,205	100
KY	532,547	543,060	210,028	268,341	357	256	742,932	811,657	109
TENN	610,506	623,385	162,280	201,495	129	521	772,915	825,401	107
ALA	741,898	735,582	310,374	321,691	487	546	1,052,759	1,057,819	100
MISS	408,266	402,153	308,555	336,986	111	30	716,932	739,169	103
E S C	2,293,217	2,304,180	991,237	1,128,513	1,084	1,353	3,285,538	3,434,046	105
ARK	311,128	340,917	219,823	235,433	302	146	531,253	576,496	109
LA	320,308	293,115	203,801	210,164	411	46	524,520	503,325	96
OKLA	238,458	264,285	296,173	296,062	173	27	534,804	560,374	105
TEX	849,851	1,121,046	1,035,152	1,162,926	4,647	1,482	1,889,650	2,285,454	121
W S C	1,719,745	2,019,363	1,754,949	1,904,585	5,533	1,701	3,480,227	3,925,649	113
MONT	55,654	61,235	110,595	110,383	1,289	1,282	167,538	172,900	103
IDAHO	53,381	72,909	264,333	348,011	10,679	12,664	328,393	433,584	132
WYO	18,399	19,377	34,234	57,907	477	769	53,110	78,053	147
COLO	81,666	86,529	171,239	164,628	2,673	4,186	255,578	255,343	100
N MEX	25,645	28,774	70,829	66,225	56	87	96,530	95,086	99
ARIZ	39,975	44,898	203,467	216,775	15,659	16,008	259,101	277,681	107
UTAH	28,100	28,943	53,773	58,696	400	321	82,273	87,960	107
NEV	3,467	3,922	8,261	9,259	4,122	4,192	15,850	17,373	110
MOUNT	306,287	346,587	916,731	1,031,884	35,355	39,509	1,258,373	1,417,980	113
WASH	130,665	130,361	421,820	379,393	15,607	12,846	568,092	522,600	92
ORE	58,443	65,688	331,154	302,766	13,345	13,404	402,942	381,858	95
CALIF	560,265	513,195	1,606,464	1,531,381	1,343,557	1,034,029	3,510,286	3,078,606	88
PAG	749,373	709,245	2,359,438	2,213,540	1,372,509	1,060,279	4,481,320	3,983,064	89
48 ST									
D C	21,030,629	20,982,739	15,739,248	16,296,244	1,613,920	1,330,781	38,383,797	38,609,764	101
ALAS	2,500	2,800	1,620	1,588	0	0	4,120	4,388	107
HAW	92,360	91,321	73,559	76,936	3,069	3,521	168,988	171,778	102
P R	168,086	145,496	18,021	16,366	8	26	186,115	161,888	87
U S	21,293,575	21,222,356	15,832,448	16,391,134	1,616,997	1,334,328	38,743,020	38,947,818	101

1/ EXCLUDES LIMING MATERIALS. 2/ EXCLUDES MATERIALS USED IN COMMERCIAL MIXTURES.



TABLE 3.-- TOTAL FERTILIZER CONSUMED AS MIXTURES AND DIRECT APPLICATION MATERIALS 1/  
BY STATES, SEMI-ANNUALLY, YEAR ENDED JUNE 30

STATE AND DIVISION	MIXTURES			MATERIALS 2/			TOTAL MIXTURES AND MATERIALS JUL 1 1968 TO JUN 30 1969
	JUL 1 TO DEC 31 1968	JAN 1 TO JUN 30 1969	TOTAL	JUL 1 TO DEC 31 1968	JAN 1 TO JUN 30 1969	TOTAL	
----- TONS -----							
MAINE	23,671	129,045	152,716	1,145	5,042	6,187	158,903
N H	3,058	12,250	15,308	877	1,910	2,787	18,095
VT	3,778	29,082	32,860	3,010	7,023	10,033	42,893
MASS	12,589	45,965	58,554	3,573	14,553	18,126	76,680
R I	1,732	11,277	13,009	635	3,567	4,202	17,211
CONN	12,727	46,745	59,472	3,934	10,529	14,463	73,935
N ENG	57,555	274,364	331,919	13,174	42,624	55,798	387,717
N Y	100,963	416,797	517,760	35,342	77,528	112,870	630,630
N J	40,074	152,800	192,874	9,037	19,444	28,481	221,355
PA	136,879	385,656	522,535	26,476	103,364	129,840	652,375
DEL	10,672	78,030	88,702	2,510	18,951	21,461	110,163
MD	62,421	227,021	289,442	9,569	40,658	50,227	339,669
D C	2,526	4,492	7,018	308	649	957	7,975
W VA	8,900	36,561	45,461	4,829	16,940	21,769	67,230
M ATL	362,435	1,301,357	1,663,792	88,071	277,534	365,605	2,029,397
VA	130,183	537,421	667,604	40,723	140,269	180,992	848,596
N C	124,482	1,132,907	1,257,389	74,973	384,984	459,957	1,717,346
S C	92,617	573,693	666,310	42,608	202,265	244,873	911,183
GA	262,608	1,083,491	1,346,099	126,686	463,428	593,959	1,940,058
FLA	557,331	1,044,196	1,601,527	88,218	195,442	283,660	1,885,187
S ATL	1,167,221	4,371,708	5,538,929	373,208	1,386,388	1,763,441	7,302,370
OHIO	274,054	668,958	943,012	125,728	286,519	412,247	1,355,259
IND	297,700	796,785	1,094,485	253,427	503,072	756,499	1,850,984
ILL	457,520	912,272	1,369,792	713,942	1,217,101	1,931,043	3,300,835
MICH	155,718	419,041	574,759	64,812	158,050	222,862	797,621
WIS	107,743	301,668	409,411	145,941	253,285	399,226	808,637
E N C	1,292,735	3,098,724	4,391,459	1,303,850	2,418,027	3,721,877	8,113,336
MINN	203,347	576,850	780,197	318,114	446,857	764,971	1,545,168
IOWA	307,834	657,162	964,996	432,322	936,093	1,368,415	2,333,411
MO	277,757	671,365	949,122	118,187	294,482	412,669	1,361,791
N DAK	58,272	137,098	195,370	78,548	70,778	149,326	344,696
S DAK	30,729	73,639	104,368	52,237	103,242	155,479	259,847
NEBR	51,656	224,606	276,262	186,922	612,333	799,256	1,075,518
KANS	214,755	192,195	406,950	224,923	463,901	688,824	1,095,774
W N C	1,144,350	2,532,915	3,677,265	1,411,254	2,927,686	4,338,940	8,016,205
KY	89,462	453,598	543,060	62,826	205,771	268,597	811,657
TENN	130,911	492,474	623,385	43,837	158,179	202,016	825,401
ALA	162,776	572,806	735,582	81,432	240,805	322,237	1,057,819
MISS	60,323	341,830	402,153	99,419	237,597	337,016	739,169
E S C	443,472	1,860,708	2,304,180	287,514	842,352	1,129,866	3,434,046
ARK	53,524	287,393	340,917	70,438	165,141	235,579	576,496
LA	59,209	233,906	293,115	50,029	160,181	210,210	503,325
OKLA	160,950	103,335	264,285	120,212	175,877	296,089	560,374
TEX	328,466	792,580	1,121,046	430,830	733,578	1,164,408	2,285,454
W S C	602,149	1,417,214	2,019,363	671,509	1,234,777	1,906,286	3,925,649
MONT	21,571	39,664	61,235	40,708	70,957	111,665	172,900
IDAHO	18,915	53,994	72,909	108,533	252,142	360,675	433,584
WYO	4,224	15,153	19,377	16,429	42,247	58,676	78,053
COLD	24,013	62,516	86,529	49,019	119,795	168,814	255,343
N MEX	8,875	19,899	28,774	18,259	48,053	66,312	95,086
ARIZ	14,320	30,578	44,898	91,981	140,802	232,783	277,681
UTAH	10,419	18,524	28,943	23,075	35,942	59,017	87,960
NEV	996	2,926	3,922	4,509	8,942	13,451	17,373
MOUNT	103,333	243,254	346,587	352,513	718,880	1,071,393	1,417,980
WASH	32,981	97,380	130,361	127,200	265,039	392,239	522,600
OREG	28,719	36,969	65,688	131,615	184,555	316,170	381,858
CALIF	187,262	325,934	513,196	1,298,801	1,266,609	2,565,410	3,078,606
PAC	248,962	460,283	709,245	1,557,616	1,716,203	3,273,819	3,983,064
48 ST & D C	5,422,212	15,560,527	20,982,739	6,058,709	11,564,471	17,627,025	38,609,764
ALAS	35	2,765	2,800	0	1,588	1,588	4,388
HAW	51,217	40,104	91,321	42,824	37,633	80,457	171,778
P R	74,057	71,439	145,496	7,393	8,999	16,392	161,888
U S	5,547,521	15,674,835	21,222,356	6,108,926	11,612,691	17,725,462	38,947,818

1/ EXCLUDES LIMING MATERIALS

2/ INCLUDES PRIMARY NUTRIENT MATERIALS (N, P O, K O) AND SECONDARY/MICRONUTRIENT MATERIALS FOR DIRECT APPLICATION

2 5 2

TABLE 4.--NITROGEN MATERIALS: CONSUMPTION BY DIRECT APPLICATION, BY STATES,  
YEARS ENDED JUNE 30, 1968, AND 1969

STATE AND DIVISION	AMMONIA				AMMONIUM			
	ANHYDROUS		AQUA		NITRATE		SULPHATE	
	1968	1969	1968	1969	1968	1969	1968	1969
	--- TONS ---							
MAINE	0	398	0	0	2,471	2,758	36	56
N H	2	0	0	0	61	511	0	16
VT	5	34	0	0	694	2,071	8	3
MASS	0	0	0	0	1,396	1,894	796	597
R I	0	0	0	0	65	52	0	0
CONN	12	13	0	0	1,154	946	18	23
N E	19	445	0	0	5,841	8,232	858	695
N Y	4,012	6,923	254	230	12,847	13,232	874	1,177
N J	340	364	211	0	7,092	6,574	344	270
PA	2,569	2,693	205	26	14,069	25,397	5,489	3,356
DEL	369	1,393	0	0	1,647	1,611	0	53
MD	5,621	3,624	0	0	4,202	5,648	163	223
D C	0	0	0	0	115	69	0	7
W VA	0	253	0	0	5,468	5,071	171	65
M A	12,911	15,250	670	256	45,440	57,602	7,041	5,151
VA	317	265	127	131	14,543	18,051	535	550
N C	9,944	11,143	0	0	31,976	36,016	105	296
S C	4,313	6,762	0	0	17,230	23,850	0	0
GA	58,161	64,109	0	0	122,124	149,278	0	611
FLA	6,925	7,145	2	18	46,115	60,741	3,885	4,044
S A	79,660	89,424	129	149	231,988	287,936	4,525	5,501
OHIO	60,406	73,634	11,300	7,392	44,534	40,974	13,682	11,157
IND	172,358	167,944	31,001	20,694	41,479	31,109	3,650	3,644
ILL	362,933	445,340	126,533	93,860	124,796	120,293	21,605	21,119
MICH	34,370	33,468	2,684	6,134	31,046	31,462	1,832	1,567
WIS	33,267	25,283	7,528	14,090	27,431	30,457	1,326	957
E N C	663,334	745,669	179,046	142,170	269,286	254,295	42,095	38,444
MINN	167,610	236,870	14,461	18,850	69,560	89,623	1,153	4,792
IOWA	525,256	441,581	111,611	69,006	100,911	100,715	580	1,060
MO	131,976	112,557	3,882	1,894	107,512	87,819	609	312
N DAK	4,334	6,413	0	0	41,780	50,889	384	1,153
S DAK	13,006	21,617	1,072	2,864	48,519	51,383	5,872	114
NEBR	420,093	338,486	13,895	14,746	145,744	107,882	5,961	2,444
KANS	193,444	224,686	388	1,308	185,488	197,306	3,144	1,553
W N C	1,455,719	1,382,210	145,309	108,668	699,514	685,617	17,703	11,428
KY	18,702	29,235	3,200	0	76,185	93,211	741	780
TENN	15,002	19,306	0	0	66,601	87,597	0	36
ALA	17,547	19,373	0	0	123,677	145,274	2,649	4,183
MISS	39,874	35,141	300	0	149,144	163,847	276	158
E S C	91,125	103,055	3,500	0	415,607	489,929	3,666	5,157
ARK	9,851	11,903	376	619	75,222	70,318	3,296	3,857
LA	35,593	28,619	4,212	3,209	79,496	91,277	19,134	18,987
OKLA	35,244	45,867	2,893	2,100	129,282	127,819	2,743	1,359
TEX	336,064	371,306	12,537	30,537	167,316	193,166	126,569	106,524
W S C	416,752	457,695	20,018	36,465	451,316	482,580	151,742	130,727
MONT	1,996	1,538	441	571	14,163	26,020	1,636	1,766
IDAHO	15,679	25,787	13,225	6,645	47,053	73,906	69,792	87,989
WYO	1,652	2,125	0	0	16,508	29,766	1,076	3,278
COLO	37,220	39,427	183	209	44,877	42,771	10,004	11,119
N MEX	19,524	23,288	186	563	2,488	1,919	11,290	4,930
ARIZ	58,368	60,949	9,982	12,826	7,604	9,289	13,427	13,325
UTAH	260	275	87	72	8,681	8,940	9,900	9,600
NEV	1,118	1,005	55	51	259	459	1,651	1,399
MOUNT	135,817	154,394	24,160	20,937	141,633	193,070	118,776	133,406
WASH	63,367	54,106	85,449	68,230	50,401	39,840	46,408	49,177
ORE	13,586	11,310	33,311	37,010	14,429	14,075	99,198	77,937
CALIF	139,900	128,431	294,211	258,788	50,115	63,602	342,391	298,080
PAC	216,853	193,847	412,971	364,028	114,945	117,517	487,997	425,194
48 ST+DC	3,072,190	3,141,989	785,803	672,673	2,375,570	2,576,778	834,403	755,703
ALAS	0	0	0	0	889	723	100	300
HAW	0	0	23,600	22,957	0	982	2,657	3,138
P R	0	0	4,140	5,420	0	0	6,126	3,814
U S	3,072,190	3,141,989	813,543	701,050	2,376,459	2,578,483	843,286	762,955

TABLE 4.—NITROGEN MATERIALS: CONSUMPTION BY DIRECT APPLICATION, BY STATES,  
YEARS ENDED JUNE 30, 1968, AND 1969—CONTINUED

STATE AND DIVISION	NITROGEN SOLUTION		SODIUM NITRATE		UREA		AMMONIUM NITRATE LIMESTONE	
	1968	1969	1968	1969	1968	1969	1968	1969
----- TONS -----								
MAINE	747	573	45	0	543	261	0	0
N H	132	336	48	27	252	138	416	0
VT	1,153	1,325	2	8	225	252	0	0
MASS	260	240	259	268	489	695	0	0
R I	0	4	47	7	146	279	0	0
CONN	1,282	1,113	206	309	925	1,008	0	0
N E	3,574	3,591	607	619	2,580	2,633	416	0
N Y	20,390	19,481	2,655	1,129	6,164	10,830	434	190
N J	1,470	1,840	1,248	769	909	1,713	366	297
PA	25,583	19,975	974	617	15,739	20,650	286	331
DEL	9,334	10,776	51	23	514	361	0	0
MD	22,701	19,462	1,375	1,401	3,637	4,598	52	0
D C	45	0	22	60	25	70	16	0
W VA	1,936	2,808	772	295	567	666	57	0
M A	81,459	74,342	7,097	4,294	27,555	38,888	1,211	818
VA	71,047	73,903	8,289	5,009	2,072	3,491	9,869	8,566
N C	191,259	214,364	37,256	27,182	2,586	2,675	44,383	39,050
S C	125,321	140,777	24,807	12,398	791	2,761	27,159	26,439
GA	261,654	262,270	18,355	11,013	0	1,525	11,207	9,526
FLA	49,756	54,845	8,595	8,335	2,229	2,337	5,677	7,957
S A	699,037	746,159	97,302	63,937	7,678	12,789	98,295	91,538
OHIO	77,329	75,345	331	292	38,126	33,825	0	0
IND	221,511	231,679	38	65	17,831	15,952	641	0
ILL	240,735	220,145	581	129	9,325	8,564	0	0
MICH	36,115	29,990	352	409	22,213	22,523	0	0
WIS	54,756	56,939	50	0	3,350	2,991	0	0
E N C	630,446	614,098	1,352	895	90,845	83,855	641	0
MINN	60,707	79,638	0	432	3,275	2,650	0	136
IOWA	145,294	167,839	0	158	8,050	8,798	0	0
MO	70,055	74,430	37	30	10,919	8,982	0	1
N DAK	15,006	18,879	0	0	2,365	1,736	0	0
S DAK	21,731	31,915	0	0	614	859	0	0
NEBR	178,739	186,127	539	3,244	11,757	6,686	0	0
KANS	162,906	152,801	0	0	43,536	35,742	0	119
W N C	654,438	711,629	576	3,864	80,516	65,453	0	256
KY	25,775	37,880	2,656	2,375	2,571	2,748	850	559
TENN	41,527	44,565	8,062	8,347	0	795	0	0
ALA	71,846	69,920	9,104	5,916	3,798	4,303	9,139	6,977
MISS	39,981	43,373	15,047	7,179	12,361	15,232	644	425
E S C	179,129	195,738	34,869	23,817	18,730	23,078	10,633	7,961
ARK	35,575	37,086	7,071	5,201	54,402	68,006	0	0
LA	16,075	19,579	4,406	1,785	17,865	18,803	0	0
OKLA	53,907	54,735	37	10	15,522	11,507	0	0
TEX	60,442	84,097	0	0	68,768	70,262	0	0
W S C	165,999	195,497	11,514	6,996	156,557	168,578	0	0
MONT	4,944	4,523	0	0	299	264	0	0
IDAHO	27,213	32,460	0	0	11,547	15,663	0	0
WYO	3,492	6,778	0	0	616	168	0	0
COLO	15,359	14,724	0	0	2,184	1,552	0	0
N MEX	7,993	9,221	6	0	6,278	3,662	0	10
ARIZ	19,712	20,792	0	0	27,512	28,585	0	0
UTAH	1,300	1,280	0	0	900	940	0	1
NEV	22	3	0	0	439	675	0	0
MCUNT	80,035	89,781	6	0	49,775	51,509	0	11
WASH	41,708	45,005	0	0	24,262	26,999	0	0
ORE	15,873	16,548	0	0	33,982	35,130	53	0
CALIF	93,495	101,634	47	13	43,374	56,713	0	198
PAC	151,076	163,187	47	13	101,618	118,842	53	198
48 ST+DC	2,645,193	2,794,022	153,370	104,435	535,854	565,625	111,249	100,782
ALAS	0	0	0	0	8	8	0	0
HAW	231	290	15	35	9,551	12,496	0	0
P R	0	0	0	0	4,837	3,750	1,479	1,108
U S	2,645,424	2,794,312	153,385	104,470	550,250	581,879	112,728	101,890

TABLE 5.--NITROGEN AND SECONDARY AND MICRONUTRIENT MATERIALS: CONSUMPTION BY STATES, YEARS ENDED JUNE 30, 1968, AND 1969

STATE AND DIVISION	NITROGEN MATERIALS				SECONDARY AND MICRONUTRIENT			
	CALCIUM CYANAMIDE		OTHER		GYPSUM		OTHER	
	1968	1969	1968	1969	1968	1969	1968	1969
	- - - - TONS - - - -							
MAINE	0	0	0	21	0	0	5	5
N H	3	3	7	47	16	0	1	29
VT	3	0	92	289	15	0	19	37
MASS	102	17	18	89	13	15	71	124
R I	235	171	0	0	0	0	2	20
CONN	127	174	9	19	0	0	32	760
N E	470	365	126	465	44	15	130	975
N Y	1,025	722	1,236	368	19	25	127	310
N J	739	756	334	794	944	68	226	361
PA	139	190	191	243	4,200	6,857	307	550
DEL	70	26	58	609	175	23	223	94
MD	402	236	0	0	251	9	70	61
D C	2	7	12	15	20	1	0	1
W VA	11	0	180	22	2	0	137	27
M A	2,388	1,937	2,011	2,051	5,611	6,983	1,090	1,404
VA	446	480	1	11	20,000	21,287	171	80
N C	110	199	68	313	64,419	90,363	901	215
S C	0	0	520	207	5,975	4,767	1	203
GA	74	48	202	6,351	53,773	53,461	776	1,653
FLA	878	850	4,910	5,779	4,816	4,228	2,225	1,643
S A	1,508	1,577	5,701	12,661	148,983	174,106	4,074	3,794
OHIO	49	31	734	674	39	78	1,514	1,027
IND	30	2	3,786	27,503	857	514	157	399
ILL	25	25	5,982	2,479	2,029	1,142	170	519
MICH	0	0	472	776	150	0	4,983	4,557
WIS	0	4	326	0	50	37	1,426	1,097
E N C	104	62	11,296	31,432	3,125	1,771	8,250	7,599
MINN	0	4	131	347	202	903	1,113	979
IOWA	0	0	0	2,356	0	0	3,943	5,769
MO	0	0	5,209	610	135	140	193	248
N DAK	0	0	0	0	90	0	0	0
S DAK	0	0	184	557	0	0	14	147
NEBR	0	0	0	785	0	18	21,351	20,815
KANS	0	0	572	374	300	351	791	1,922
W N C	0	4	6,096	5,029	727	1,412	27,405	29,880
KY	389	420	1,685	164	208	108	149	148
TENN	294	212	952	791	110	479	19	42
ALA	0	0	1,389	803	165	35	322	511
MISS	0	0	395	586	90	0	21	30
E S C	683	632	4,421	2,344	573	622	511	731
ARK	69	6	23	29	85	0	217	146
LA	0	0	0	22	6	0	405	46
OKLA	0	0	473	400	0	0	173	27
TEX	0	0	420	734	1,254	1,300	3,393	182
W S C	69	6	916	1,185	1,345	1,300	4,188	401
MONT	0	0	1	45	1,179	1,172	110	110
IDAH	53	13	1,060	4,522	6,401	5,035	4,278	7,629
WYO	0	0	0	3,309	400	732	77	37
COLD	0	0	3,912	5,886	529	106	2,144	4,080
N MEX	0	0	904	831	0	0	56	87
ARIZ	0	216	4,578	9,094	7,003	5,691	8,656	10,317
UTAH	0	0	195	174	350	277	50	44
NEV	0	0	80	228	3,573	3,617	549	575
MOUNT	53	229	10,730	24,089	19,435	16,630	15,920	22,879
WASH	228	152	10,807	12,064	8,831	7,023	6,776	5,823
DRE	278	280	4,814	2,818	12,018	9,861	1,327	3,543
CALIF	4,047	3,344	13,882	18,860	1,269,372	974,761	74,185	59,268
PAC	4,553	3,776	29,503	33,742	1,290,221	991,645	82,288	68,634
48 ST+DC	9,828	8,588	70,800	112,998	1,470,064	1,194,484	143,856	136,297
ALAS	0	0	75	90	0	0	0	0
HAW	10	11	326	322	63	172	3,006	3,349
P R	0	0	0	0	0	0	8	26
U S	9,838	8,599	71,201	113,410	1,469,974	1,194,656	147,023	139,672

TABLE 6.--PHOSPHATE MATERIALS: CONSUMPTION BY DIRECT APPLICATION, BY STATES  
YEARS ENDED JUNE 30, 1968, AND 1969

STATE AND DIVISION	PHOSPHATE ROCK 1/		SUPERPHOSPHATES				AMMONIUM PHOSPHATES 2/		OTHER PHOSPHATES	
	1968	1969	22 PERCENT & UNDER		OVER 22 PERCENT		1968	1969	1968	1969
			1968	1969	1968	1969				
----- TONS -----										
MAINE	0	0	674	281	336	175	0	75	103	90
N H	0	0	648	614	57	66	0	19	44	61
VT	0	0	5,037	4,217	260	287	340	122	24	66
MASS	48	3	1,200	1,027	125	98	575	713	420	372
R I	0	0	70	230	19	67	50	160	155	510
CONN	4	12	1,640	1,804	943	641	71	60	131	136
N E	52	15	9,269	8,173	1,740	1,334	1,036	1,149	877	1,235
N Y	368	265	14,127	15,221	3,709	24,874	2,257	595	409	383
N J	0	52	1,751	729	691	0	16	0	650	1,146
PA	2,152	1,687	16,579	16,996	3,678	4,679	5,578	1,227	816	1,611
DEL	184	156	1,153	803	563	1,856	17	0	10	51
MD	361	300	1,589	2,090	2,267	4,007	2,567	100	347	191
D C	14	4	25	47	5	0	0	0	20	91
W VA	50	33	5,454	4,173	3,667	5,534	45	15	25	25
M A	3,129	2,493	40,678	40,059	14,580	40,950	10,480	1,937	2,277	3,498
VA	1,973	2,248	9,348	9,801	13,359	17,060	332	220	174	87
N C	732	3	13,808	9,503	1,057	3,218	284	519	3,465	2,632
S C	0	0	4,916	5,001	784	698	18	10	5,767	9,427
GA	395	392	2,964	4,441	780	1,460	1,549	1,350	6,536	8,592
FLA	5,902	6,922	5,440	9,389	1,472	968	736	3,764	3,914	3,914
S A	9,002	9,565	36,476	38,135	17,452	23,404	2,930	2,835	19,706	24,652
OHIO	3,060	3,557	5,025	3,533	28,312	28,516	2,780	848	1,842	2,144
IND	4,383	2,332	2,758	2,698	20,193	43,876	5,519	1,629	414	1,138
ILL	97,367	72,954	14,326	8,006	299,870	358,696	7,469	4,033	17,892	26,853
MICH	260	230	2,341	2,098	3,703	7,321	408	591	716	548
WIS	940	466	5,589	5,568	38,793	43,051	877	768	316	139
E N C	106,010	79,539	30,039	21,903	390,871	481,460	17,053	7,869	21,180	30,822
MINN	449	737	11,850	11,142	76,996	136,333	11,934	7,678	439	547
IOWA	2,332	2,513	21,482	12,129	229,640	243,070	2,739	2,162	396	731
MO	127,414	87,837	912	139	6,717	6,546	253	415	119	55
N DAK	0	0	0	0	30,337	17,361	79,099	47,621	0	0
S DAK	0	0	476	4,644	14,389	15,929	14,829	16,936	752	15
NEBR	0	57	28,944	17,099	49,370	37,638	16,134	11,065	246	247
KANS	2,308	291	3,262	491	27,870	27,892	27,019	11,277	1	21
W N C	132,503	91,435	66,926	45,644	435,319	484,769	152,007	97,154	1,953	1,616
KY	5,634	3,807	9,421	7,669	24,126	33,922	1,151	1,220	296	318
TENN	60	61	4,315	3,728	6,044	8,402	874	533	2,047	5,954
ALA	0	0	24,211	19,426	1,096	145	376	167	35,208	33,079
MISS	719	542	13,823	10,826	1,987	5,307	598	1,124	25,645	45,297
E S C	6,413	4,410	51,770	41,649	33,253	47,776	2,999	3,044	63,196	84,648
ARK	105	0	4,638	5,366	6,298	6,596	2,384	1,874	28	4
LA	502	644	7,184	7,543	2,088	3,424	5,754	2,520	3,533	3,526
OKLA	3,966	2,032	8,890	8,604	16,739	14,600	11,983	8,601	131	620
TEX	1,866	2,680	35,754	25,840	37,791	31,743	165,355	223,743	0	1,850
W S C	6,439	5,556	56,466	47,353	62,916	56,363	185,476	236,738	3,692	6,000
MONT	19	5	0	0	20,454	16,496	60,565	52,166	4,676	5,177
IDAHO	34	0	709	425	33,289	39,668	28,818	38,043	8,747	16,230
WYO	0	0	0	4	6,746	8,366	2,934	1,972	70	0
COLO	0	0	784	751	20,050	14,905	8,729	8,637	3,252	2,452
N MEX	0	0	5,875	4,939	8,246	9,599	6,636	5,286	395	460
ARIZ	0	0	1,266	619	2,508	1,453	47,258	48,875	4,882	3,649
UTAH	0	0	2,100	1,600	16,950	22,760	12,765	12,440	155	160
NEV	0	0	176	286	1,145	1,054	2,716	3,053	0	2
MOUNT	53	5	10,910	8,624	109,388	114,301	170,421	170,472	22,177	28,130
WASH	147	266	3,741	2,694	19,460	14,442	43,378	34,963	1,863	2,262
ORE	0	0	16,871	18,601	11,195	10,867	73,374	65,689	293	350
CALIF	302	8,469	77,144	86,403	9,149	16,137	138,686	124,103	14,383	16,142
PAC	449	8,735	97,756	107,698	39,804	41,446	255,438	224,755	16,539	18,754
48 ST+DC	264,050	201,753	400,290	359,238	1,105,323	1,291,803	797,840	745,953	151,597	199,355
ALAS	0	2	2	2	15	20	388	255	2	33
HAW	1,590	1,698	965	3,875	3,864	3,266	5,239	5,273	13,963	12,175
P R	0	0	90	917	130	125	187	72	0	0
U S	255,734	203,453	401,347	364,032	1,109,332	1,295,214	803,654	751,553	175,468	211,563

1/ INCLUDES COLLOIDAL PHOSPHATE. 2/ TOTAL OF 11-48-0, 13-39-0, 16-20-0, 21-53-0 AND 27-14-0.

TABLE 7.--POTASH AND NATURAL ORGANIC MATERIALS: CONSUMPTION BY DIRECT APPLICATION, BY STATES,  
YEARS ENDED JUNE 30, 1968, AND 1969

STATE AND DIVISION	POTASH MATERIALS				NATURAL ORGANICS	
	CHLORIDE 50±62 PERCENT GRADES		OTHER		1968	1969
	1968	1969	1968	1969		
	----- TONS -----					
MAINE	548	413	90	60	877	1,021
N H	269	161	7	104	657	655
VT	696	1,008	20	105	166	209
MASS	810	1,146	179	231	9,556	10,597
R I	146	187	0	3	1,679	2,512
CONN	1,934	2,273	212	154	4,715	5,018
N E	4,403	5,188	508	657	17,650	20,012
N Y	2,108	1,335	1,291	3,451	11,389	12,129
N J	3,834	3,919	222	203	8,656	8,626
PA	9,652	10,424	1,623	737	14,209	11,594
DEL	2,067	3,337	180	28	398	261
MD	5,492	6,240	707	210	2,717	1,827
D C	4	10	2	3	618	576
W VA	1,563	2,325	2	116	668	341
M A	24,720	27,590	4,027	4,748	38,655	35,354
VA	14,497	17,074	1,442	1,144	1,281	1,534
N C	6,952	7,879	26,264	12,158	2,034	2,229
S C	5,682	5,645	746	4,582	1,464	1,346
GA	5,765	5,759	4,442	9,245	2,328	2,875
FLA	21,071	17,599	27,441	57,919	29,188	28,291
S A	53,967	53,956	60,335	85,048	36,295	36,275
OHIO	113,767	120,083	1,287	1,031	5,995	8,106
IND	132,023	186,815	1,403	15,637	3,018	2,869
ILL	444,525	534,366	548	435	13,193	12,085
MICH	52,934	67,424	1,263	1,810	12,159	11,954
WIS	201,957	207,433	1,641	1,136	11,584	8,810
E N C	745,206	1,116,121	6,142	20,049	45,949	43,824
MINN	166,938	166,191	7,935	1,805	5,230	5,314
IOWA	282,587	308,881	18	394	1,634	1,253
MO	25,720	26,392	1,142	619	3,382	3,643
N DAK	4,520	5,050	0	0	115	224
S DAK	6,672	7,628	46	115	132	756
NEBR	31,827	33,533	16,096	17,861	585	523
KANS	22,821	31,234	0	118	1,678	1,338
W N C	541,085	578,909	25,237	20,912	12,756	13,051
KY	25,450	38,155	9,699	13,682	1,533	2,196
TENN	12,982	17,343	1,912	2,280	1,572	1,545
ALA	8,372	8,140	852	3,019	1,110	966
MISS	6,416	7,315	938	242	407	392
E S C	53,220	70,953	13,401	19,223	4,622	5,099
ARK	19,520	23,717	553	599	412	252
LA	3,148	9,381	3,472	176	1,339	669
OKLA	11,782	14,615	884	1,158	1,697	2,035
TEX	8,104	7,129	3,961	4,293	10,205	8,822
W S C	42,554	54,842	8,870	6,226	13,653	11,778
MONT	1,126	1,464	50	102	225	246
IDAHO	3,567	4,938	3,337	1,625	209	97
WYO	848	1,842	60	95	232	204
COLO	8,531	7,302	889	1,537	15,265	13,356
N MEX	205	222	572	502	231	793
ARIZ	394	541	436	455	5,540	6,107
UTAH	170	154	10	0	300	300
NEV	0	0	0	0	600	1,044
MOUNT	14,841	16,463	5,354	4,316	22,602	22,147
WASH	18,528	14,457	4,963	3,764	7,110	10,972
ORE	8,091	7,024	1,519	1,542	4,287	3,585
CALIF	8,021	7,897	10,307	9,315	367,010	333,252
PAC	34,640	29,378	16,789	14,621	378,407	347,809
48 ST+DC	1,714,636	1,953,400	140,663	175,800	570,589	535,349
ALAS	35	38	46	52	60	65
HAW	3,938	3,746	7,399	6,457	211	215
P R	431	494	514	578	87	88
U S	1,719,040	1,957,678	148,622	182,887	570,947	535,717

TABLE 8.--PRIMARY PLANT NUTRIENTS: CONSUMPTION OF PRIMARY PLANT NUTRIENTS BY KIND OF FERTILIZER, BY STATES, YEARS ENDED JUNE 30, 1968, AND 1969 1/

STATE AND DIVISION	MIXTURES								1969 AS PERCENT OF 1968 PERCENT
	N		AVAILABLE P <sub>2</sub> O <sub>5</sub>		K <sub>2</sub> O		TOTAL		
	1968.	1969	1968	1969	1968	1969	1968	1969	
-----T O N S-----									
MAINE	16,310	16,059	21,333	20,251	20,893	20,350	58,536	56,661	97
N H	1,568	1,619	1,584	1,755	1,773	1,967	4,925	5,341	108
VT	2,901	3,253	4,261	4,971	4,949	5,160	12,111	13,384	111
MASS	6,205	6,560	5,893	5,779	5,558	5,292	17,656	17,631	100
R I	1,119	1,281	1,167	1,356	1,104	1,119	3,390	3,756	111
CONN	6,581	6,618	5,643	6,029	4,857	5,268	17,081	17,916	105
N E	34,684	35,390	39,881	40,142	39,134	39,158	113,699	114,689	101
N Y	55,743	49,583	78,460	78,405	62,547	62,151	196,750	190,139	97
N J	18,621	16,215	23,167	20,075	20,240	19,532	62,028	55,822	90
PA	47,497	47,436	74,985	77,728	63,183	62,454	185,665	187,618	101
DEL	8,127	6,885	11,583	10,214	13,799	12,564	33,509	29,663	89
MD	25,241	22,315	36,857	34,493	41,708	38,864	103,806	95,672	92
D C	459	601	414	565	289	436	1,162	1,603	138
W VA	3,260	3,160	6,231	6,018	5,810	5,579	15,301	14,756	96
M A	158,948	146,194	231,707	227,499	207,576	201,581	598,231	575,274	96
VA	36,341	36,501	70,613	71,026	78,430	79,636	185,384	187,162	101
N C	66,148	65,307	128,082	122,996	156,719	150,940	350,949	339,242	97
S C	33,371	31,192	73,402	69,973	97,441	90,193	204,214	191,358	94
GA	79,964	71,946	148,293	142,241	208,798	197,708	437,055	411,895	94
FLA	111,601	126,699	93,531	101,544	163,172	188,090	368,304	416,333	113
S A	327,425	331,645	513,921	507,780	704,560	706,567	1,545,906	1,545,991	100
OHIO	82,064	82,590	191,705	196,562	150,498	154,740	424,267	433,891	102
IND	95,124	85,447	271,446	231,251	223,423	176,437	589,993	493,135	84
ILL	119,476	125,068	312,324	318,607	165,812	160,481	597,612	604,156	101
MICH	55,089	52,274	125,236	118,059	103,355	96,249	283,680	266,582	94
WIS	32,620	34,679	95,812	99,190	82,527	74,712	210,959	208,581	99
E N C	384,373	380,057	996,523	963,670	725,615	662,619	2,106,511	2,006,346	95
MINN	64,618	85,076	172,318	225,015	93,450	111,268	330,386	421,359	128
IOWA	92,530	87,314	250,129	266,237	129,107	124,715	471,766	478,267	101
MO	106,305	101,262	158,082	154,222	152,554	149,597	416,941	405,080	97
N DAK	29,933	31,733	63,758	71,958	6,444	6,145	100,135	109,835	110
S DAK	20,473	17,267	31,675	31,316	2,827	3,197	54,975	51,780	94
NEBR	39,552	36,216	92,174	91,507	10,001	10,385	141,727	138,108	97
KANS	61,950	61,196	139,658	145,514	19,167	17,108	220,775	223,819	101
W N C	415,361	420,064	907,794	985,768	413,550	422,415	1,736,705	1,828,248	105
KY	36,017	38,514	73,229	79,982	78,073	80,855	187,319	199,351	106
TENN	43,830	43,463	83,353	84,939	84,690	86,294	211,873	214,696	101
ALA	42,878	46,898	101,686	98,719	100,684	101,108	245,248	246,725	101
MISS	31,251	30,181	60,258	62,322	60,108	61,574	151,617	154,077	102
E S C	153,976	159,056	318,526	325,962	323,555	329,832	796,057	814,850	102
ARK	24,168	26,573	56,411	61,097	56,627	61,880	137,206	149,549	109
LA	30,851	30,938	51,761	49,570	45,468	42,199	128,080	122,706	96
OKLA	29,760	33,969	65,835	76,408	19,701	19,899	115,296	130,276	113
TEX	114,730	148,802	161,472	228,014	67,988	85,592	344,190	462,408	134
W S C	199,509	240,281	335,479	415,089	189,784	209,569	724,772	864,939	119
MONT	12,199	12,932	14,025	19,858	973	239	27,197	33,029	121
IDAHO	12,429	12,096	20,194	28,828	556	388	33,179	41,312	125
WYO	3,974	3,833	5,563	6,527	25	23	9,562	10,383	109
COLO	14,378	13,509	27,701	30,735	1,447	1,210	43,526	45,454	104
N MEX	3,644	4,118	7,247	9,137	801	637	11,692	13,892	119
ARIZ	5,858	6,369	12,091	15,010	865	682	18,814	22,061	117
UTAH	5,214	5,130	10,631	10,496	282	155	16,127	15,780	98
NEV	552	705	350	544	151	106	1,053	1,354	129
MOUNT	58,248	58,691	97,802	121,135	5,100	3,439	161,150	183,265	114
WASH	17,705	19,098	27,720	30,039	10,289	7,360	55,714	56,498	101
ORE	8,492	9,914	13,712	16,129	3,847	4,051	26,051	30,094	116
CALIF	73,124	65,888	76,086	68,660	34,180	35,952	183,390	170,500	93
PAC	99,321	94,900	117,518	114,829	48,316	47,363	265,155	257,092	97
48 ST & D C	1,831,845	1,866,277	3,559,151	3,701,873	2,657,190	2,622,544	8,048,186	8,190,694	102
ALAS	362	333	465	600	319	434	1,146	1,367	119
HAW	13,357	13,780	9,315	9,348	19,366	19,932	42,038	43,060	102
P R	21,527	18,624	10,209	8,829	20,326	17,869	52,062	45,322	87
U S	1,867,091	1,899,013	3,579,140	3,720,650	2,697,201	2,660,779	8,143,432	8,280,442	102

1/ THE SUMS OF INDIVIDUAL ITEMS MAY NOT EQUAL TOTALS DUE TO ROUNDING.

TABLE 8.--PRIMARY PLANT NUTRIENTS: CONSUMPTION OF PRIMARY PLANT NUTRIENTS BY KIND OF FERTILIZER, BY STATES, YEARS ENDED JUNE 30, 1968, AND 1969 1/--CONTINUED

STATE AND DIVISION	MIXTURES AND DIRECT-APPLICATION MATERIALS								1969 AS PERCENT OF 1968 PERCENT
	N		AVAILABLE P O		K O		TOTAL		
	1968	1969	1968	1969	1968	1969	1968	1969	
	-----I O N S-----								
MAINE	17,654	17,664	21,672	20,470	21,259	20,636	60,585	58,770	97
N H	1,859	2,010	1,771	1,951	1,952	1,952	5,582	6,088	109
VT	3,693	4,575	5,580	6,022	5,339	5,830	14,612	16,427	112
MASS	7,787	8,450	6,739	6,594	6,235	6,189	20,761	21,234	102
R I	1,339	1,578	1,311	1,672	1,210	1,275	3,860	4,524	117
CONN	8,059	8,035	6,561	6,876	6,175	6,783	20,795	21,694	104
N E	40,391	42,312	43,634	43,585	42,170	42,839	126,195	128,737	102
N Y	74,471	72,305	84,464	93,683	64,447	64,101	223,382	230,089	103
N J	23,030	21,015	30,224	20,702	22,801	22,115	76,055	63,831	84
PA	72,407	75,293	83,597	84,860	69,708	69,062	225,712	229,215	102
DEL	12,408	12,417	12,101	11,252	15,106	14,563	39,615	38,231	97
MD	40,952	35,617	39,640	36,877	45,395	42,733	129,987	115,227	91
D C	562	699	448	616	300	455	1,310	1,769	135
W VA	6,197	6,284	9,075	9,420	6,778	7,006	22,050	22,710	103
M A	230,027	223,629	253,555	257,610	224,535	220,034	708,117	701,072	99
VA	67,900	69,778	78,841	81,090	87,492	90,083	234,233	240,951	103
N C	164,704	169,631	131,939	127,033	167,632	158,259	464,275	454,924	98
S C	85,695	91,262	75,356	72,198	101,129	94,768	262,180	258,228	98
GA	250,524	261,699	150,675	145,367	213,162	203,715	614,361	610,781	99
FLA	153,801	180,298	97,174	105,523	181,938	209,071	432,913	494,893	114
S A	722,624	772,669	533,985	531,212	751,353	755,897	2,007,962	2,059,778	103
OHIO	194,539	199,463	208,418	211,628	220,286	227,247	623,243	638,338	102
IND	339,308	329,666	284,445	253,481	303,117	287,881	926,870	871,028	94
ILL	579,442	629,253	457,534	496,737	437,280	482,372	1,474,256	1,608,362	109
MICH	115,939	111,487	128,223	122,716	136,088	137,438	380,250	371,642	98
WIS	90,486	87,893	115,811	120,882	205,261	199,647	411,558	408,422	99
E N C	1,319,714	1,357,762	1,194,431	1,205,444	1,302,032	1,334,585	3,816,177	3,897,792	102
MINN	251,241	343,579	214,131	292,437	196,199	211,766	661,571	847,782	128
IDWA	632,855	556,856	361,144	381,760	298,957	310,237	1,292,956	1,248,853	97
MO	280,091	250,691	165,433	160,205	168,543	165,646	614,067	576,542	94
N DAK	62,454	66,095	111,586	100,767	9,201	9,176	183,241	176,039	96
S DAK	57,985	65,656	43,295	46,456	6,901	7,823	108,181	119,934	111
NEBR	500,213	417,330	124,408	114,810	32,604	35,730	657,225	567,870	86
KANS	354,989	374,580	159,228	161,001	32,901	35,908	547,118	571,488	104
W N C	2,139,828	2,074,788	1,175,225	1,257,435	745,306	776,285	4,064,359	4,108,508	101
KY	88,297	108,046	86,792	97,933	97,502	108,801	272,591	314,780	115
TENN	92,997	104,483	87,856	90,530	93,109	97,526	273,962	292,538	107
ALA	125,773	137,631	109,886	105,399	105,940	106,470	341,599	349,500	102
MISS	135,368	136,550	66,756	71,453	64,279	66,010	266,403	274,013	103
E S C	442,435	486,709	351,290	365,315	360,830	378,807	1,154,555	1,230,832	107
ARK	95,845	104,696	60,736	65,513	68,496	76,274	225,077	246,484	110
LA	106,491	105,008	56,744	54,275	48,289	47,535	211,524	206,817	98
OKLA	127,370	137,178	78,110	87,086	27,085	28,926	232,565	253,109	109
TEX	550,694	639,447	225,388	302,884	73,914	90,877	849,996	1,033,209	122
W S C	880,400	986,330	420,978	509,758	217,784	243,612	1,519,162	1,739,700	115
MONT	30,429	33,608	44,188	44,634	1,688	1,144	76,305	79,386	104
IDAHO	76,945	101,955	48,838	67,433	4,382	4,144	130,165	173,533	133
WYO	12,998	19,781	9,442	10,757	550	1,151	22,990	31,689	138
COLO	70,456	70,708	41,807	41,928	7,231	6,549	119,494	119,185	100
N MEX	29,342	30,555	14,097	16,121	1,097	903	44,536	47,579	107
ARIZ	87,893	94,061	29,750	31,141	1,421	1,316	119,064	126,517	106
UTAH	13,237	13,112	22,722	24,674	394	250	36,353	38,036	105
NEV	2,619	2,896	1,556	1,813	165	116	4,340	4,825	111
MOUNT	323,919	366,675	212,400	238,502	16,928	15,573	553,247	620,250	112
WASH	145,370	134,942	48,139	46,030	23,722	17,947	217,231	198,919	92
ORE	84,711	79,683	40,289	39,964	9,086	8,972	134,086	128,619	96
CALIF	407,164	387,207	149,086	141,813	53,819	54,333	610,069	583,352	96
PAC	637,245	601,831	237,514	227,807	86,627	81,252	961,386	910,891	95
48 ST & D C	6,736,583	6,912,706	4,427,012	4,636,469	3,747,565	3,848,884	14,911,160	15,398,058	103
ALAS	754	704	626	723	362	484	1,742	1,911	110
HAW	24,024	26,265	15,302	15,585	23,792	24,038	63,118	65,888	104
P R	26,204	22,432	10,390	9,112	20,853	18,408	57,447	49,952	87
U S	6,787,565	6,962,106	4,453,330	4,661,890	3,792,572	3,891,814	15,033,467	15,515,810	103

1/ THE SUMS OF INDIVIDUAL ITEMS MAY NOT EQUAL TOTALS DUE TO ROUNDING.



TABLE 9.—PRIMARY PLANT NUTRIENTS: NITROGEN CONTENT OF DIRECT-APPLICATION MATERIALS CONSUMED,  
BY STATES, YEAR ENDED JUNE 30, 1969

STATE AND DIVISION	AMMONIA		AMMONIUM		NITROGEN SOLUTIONS	SODIUM NITRATE	UREA	AMMONIUM NITRATE-LIMESTONE	PHOSPHATE MATERIALS	NATURAL ORGANICS	OTHER NITROGEN MATERIALS
	ANHYDROUS	AQUA	NITRATE	SULFATE							
--- T O N S ---											
MATNE	326	0	924	11	178	0	119	0	10	33	3
N H	0	0	171	3	112	4	63	0	5	20	11
VT	28	0	694	1	421	1	115	0	26	7	31
MASS	0	0	634	122	72	43	316	0	101	575	27
R I	0	0	17	0	1	1	127	0	37	78	35
CONN	11	0	317	5	341	49	459	0	17	168	51
N F	365	0	2,758	142	1,125	99	1,198	0	196	881	158
N Y	5,677	47	4,433	241	6,150	181	4,928	39	81	473	472
N J	298	0	2,202	56	552	123	779	61	17	262	448
PA	2,208	5	8,508	692	6,070	99	9,396	68	182	466	163
DEL	1,142	0	540	11	3,486	4	164	0	1	6	177
MD	2,972	0	1,892	46	5,935	224	2,092	0	31	59	51
D C	0	0	23	1	0	10	32	0	2	22	7
W VA	207	0	1,699	13	827	47	303	0	3	11	13
M A	12,505	52	19,297	1,061	23,021	687	17,694	168	318	1,301	1,331
VA	217	27	6,047	113	22,497	801	1,588	1,756	48	66	117
N C	9,137	0	12,065	61	67,597	4,349	1,217	8,005	128	93	1,672
S C	5,545	0	7,990	0	37,195	1,984	1,256	5,420	9	59	613
GA	52,569	0	50,008	125	79,009	1,762	694	1,953	187	128	3,319
FLA	5,859	4	20,348	829	13,108	1,334	1,063	1,631	164	1,014	8,245
S A	73,328	31	96,459	1,128	219,406	10,230	5,819	18,765	536	1,359	13,965
OHIO	60,380	1,515	13,726	2,287	22,782	47	15,390	0	152	302	291
IND	137,714	4,242	10,422	747	70,770	10	7,258	0	203	112	12,741
ILL	365,179	19,241	40,298	4,400	69,406	21	3,897	0	608	480	655
MICH	27,444	1,257	10,540	321	8,568	65	10,248	0	96	493	180
WIS	20,732	2,888	10,203	196	17,343	0	1,361	0	96	392	3
E N C	611,449	29,145	85,189	7,952	188,870	143	38,154	0	1,155	1,780	13,869
MINN	194,233	3,864	30,024	982	26,269	69	1,206	28	1,545	174	110
IOWA	362,096	14,146	33,740	217	54,115	25	4,003	0	384	65	751
MO	92,297	388	29,419	64	22,767	5	4,087	0	51	148	203
N DAK	5,259	0	17,048	236	5,296	0	790	0	5,725	8	0
S DAK	17,726	587	17,213	23	9,307	0	391	0	2,914	45	182
NEBR	277,559	3,023	36,140	513	57,825	519	3,042	0	1,718	28	748
KANS	184,243	268	66,098	318	44,312	0	16,263	24	1,775	30	53
W N C	1,133,412	22,277	229,682	2,354	219,891	618	29,781	52	14,112	497	2,047
KY	23,973	0	31,226	160	11,346	380	1,250	115	261	117	706
TENN	15,831	0	29,345	7	13,508	1,336	362	0	134	74	423
ALA	15,886	0	48,667	858	20,242	947	1,958	1,430	24	28	694
MISS	28,816	0	54,889	32	14,068	1,149	6,931	87	180	15	202
F S C	84,505	0	164,126	1,057	59,163	3,811	10,500	1,632	599	235	2,025
ARK	9,760	127	23,557	791	11,770	832	30,943	0	300	15	29
LA	23,468	658	30,578	3,892	6,264	286	8,555	0	329	28	14
OKLA	37,611	431	42,819	279	15,297	2	5,236	0	1,374	130	31
TEX	304,471	6,260	64,711	22,370	26,095	0	31,969	0	34,346	210	213
W S C	375,310	7,475	161,664	27,332	59,427	1,119	76,703	0	36,349	383	287
MONT	1,261	117	8,717	362	1,447	0	120	0	8,629	9	14
IDAHO	21,145	1,362	24,759	18,038	10,010	0	7,127	0	5,996	4	1,418
WYO	1,743	0	9,972	688	2,090	0	76	0	320	10	1,049
COLO	32,330	43	14,328	2,279	4,562	0	706	0	1,427	308	1,215
N MEX	19,096	115	643	1,011	2,793	0	1,666	2	796	23	293
ARIZ	49,978	2,629	3,112	2,732	5,603	0	13,006	0	7,530	159	2,942
UTAH	226	15	2,995	1,968	420	0	428	0	1,889	14	27
NFV	824	10	154	287	1	0	307	0	510	29	69
MFV	126,603	4,292	64,678	27,365	26,927	0	23,437	2	27,097	558	7,027
WASH	44,367	13,987	13,346	10,081	13,910	0	12,285	0	5,705	234	1,927
DRE	9,274	7,587	4,715	15,977	5,003	0	15,984	0	10,238	98	893
CALIF	105,313	53,052	21,307	61,106	23,144	2	25,804	41	18,151	8,069	5,330
PAC	158,955	74,626	39,368	87,165	42,057	2	54,073	41	34,094	8,401	8,150
48 ST & D C	2,576,431	137,898	863,221	155,555	839,886	16,710	257,359	20,660	114,456	15,393	48,858
ALAS	0	0	242	62	0	0	4	0	39	1	24
HAW	0	4,706	329	643	39	6	5,686	0	999	20	57
P R	0	1,111	0	782	0	0	1,706	188	15	5	1
U S	2,576,431	143,715	863,792	157,042	839,925	16,715	264,755	20,848	115,509	15,420	48,939

TABLE 10.--PRIMARY PLANT NUTRIENTS: AVAILABLE P<sub>2</sub>O<sub>5</sub> CONTENT OF DIRECT-APPLICATION MATERIALS CONSUMED, 49 STATES, YEAR ENDED JUNE 30, 1969

STATE AND DIVISION	AMMONIUM PHOSPHATES 1/	PHOSPHORIC SOLUTIONS	PHOSPHATE ROCK 2/	SUPERPHOSPHATES		NATURAL ORGANICS	OTHER PHOSPHATE MATERIALS
				22% & UNDER	OVER 22%		
----- T O N S -----							
MAINE	36	0	3	56	81	21	25
N H	10	0	0	123	30	16	17
VT	65	0	0	843	132	5	6
MASS	278	0	0	205	45	185	102
R I	32	0	0	46	30	68	140
CONN	19	0	0	361	295	132	40
N E	440	0	2	1,635	613	427	327
N Y	289	0	8	3,042	11,442	390	107
N J	0	0	2	146	0	197	283
PA	597	105	44	3,392	2,153	383	459
DEL	0	0	5	161	854	4	14
MO	14	0	9	418	1,843	47	52
D C	0	0	0	9	0	16	25
W VA	8	0	1	835	2,543	9	7
M A	908	105	68	8,003	18,835	1,047	946
VA	117	0	67	1,960	7,849	47	24
N C	275	0	0	1,901	1,500	41	321
S C	5	0	0	1,000	315	39	865
GA	666	0	8	888	671	84	809
FLA	382	0	189	1,853	409	743	404
S A	1,444	0	264	7,602	10,745	954	2,423
OHIO	434	292	105	707	13,101	232	196
IND	793	503	70	540	20,192	80	52
ILL	1,956	17,160	2,186	1,599	154,693	434	101
MICH	293	0	7	420	3,367	418	153
WIS	369	0	12	1,114	19,803	336	57
E N C	3,845	17,956	2,381	4,378	211,158	1,499	558
MINN	2,149	236	20	2,229	62,599	144	45
IOWA	842	383	75	2,426	111,739	57	1
MO	176	0	2,635	28	3,006	123	15
N DAK	20,857	0	0	0	7,945	7	0
S DAK	6,846	0	0	929	7,328	27	9
NFBR	2,525	11	2	3,420	17,310	25	11
KANS	2,617	0	8	98	12,737	21	6
W N C	36,013	630	2,740	9,129	222,664	405	86
KY	647	0	84	1,534	15,569	64	52
TENN	253	38	2	746	3,912	49	591
ALA	65	0	0	3,568	69	22	2,957
MISS	225	55	11	2,165	2,438	13	4,225
F S C	1,190	93	97	8,012	21,988	148	7,824
ARK	377	0	0	1,073	2,959	6	1
LA	924	406	15	1,509	1,575	23	252
OKLA	1,797	335	61	1,721	6,716	49	0
TEX	53,270	1,018	36	5,168	15,122	206	0
W S C	56,368	1,758	163	9,471	26,372	285	253
MONT	14,648	2,687	0	0	7,428	8	5
IDAHO	9,067	11,232	0	85	18,139	3	80
WYO	401	0	0	1	3,819	9	0
COLO	2,726	1,251	0	150	6,804	259	3
N MEX	1,345	238	0	988	4,394	18	1
ARIZ	13,292	1,941	0	123	658	117	0
UTAH	3,509	97	0	320	10,240	12	0
NEV	713	0	0	56	477	22	1
MOUNT	45,702	17,446	0	1,723	51,958	448	91
WASH	7,920	571	6	534	6,479	163	317
ORE	14,955	185	0	3,718	4,870	84	24
CALIF	35,799	6,886	251	17,026	7,262	5,575	355
PAC	58,674	7,641	257	21,278	18,610	5,822	696
48 ST & D C	204,583	45,629	5,972	71,231	582,943	11,035	13,205
ALAS	93	0	0	0	9	1	20
HAW	2,734	0	51	787	1,502	5	1,158
P R	38	0	0	183	57	4	0
U S	207,448	45,629	6,023	72,202	584,511	11,045	14,385

1/ TOTAL OF 11-48-0, 13-39-0, 16-20-0, 21-53-0, AND 27-14-0. 2/ INCLUDES COLLOIDAL PHOSPHATE.

TABLE 11.--PRIMARY PLANT NUTRIENTS: K<sub>2</sub>O CONTENT OF DIRECT-APPLICATION MATERIALS CONSUMED, BY STATES, YEAR ENDED JUNE 30, 1969

STATE AND DIVISION	POTASSIUM CHLORIDE	POTASSIUM MAGNESIUM SULFATE	POTASSIUM NITRATE	POTASSIUM-SODIUM NITRATE	POTASSIUM SULFATE	NATURAL ORGANICS	OTHER POTASSIUM MATERIALS
- - - - T O N S - - - -							
MAINE	248	13	0	0	0	25	0
N H	97	0	9	0	40	14	0
VT	606	3	0	0	0	5	56
MASS	688	6	15	7	62	121	0
R I	112	1	0	0	0	43	0
CONN	1,365	3	16	3	14	99	14
N E	3,115	25	40	10	116	306	70
N Y	789	265	64	160	453	208	11
N J	2,351	16	0	3	3	147	62
PA	6,254	96	10	31	29	187	0
DEL	1,986	4	0	1	0	8	0
MD	3,744	11	0	3	70	42	0
D C	6	0	0	0	1	11	0
W VA	1,395	17	2	5	0	8	0
M A	16,525	409	76	202	557	610	74
VA	10,207	55	0	14	55	48	68
N C	4,727	167	675	1,285	405	57	3
S C	3,387	115	540	366	124	43	0
GA	3,352	348	1,564	572	110	51	10
FLA	10,149	1,293	1,661	6,433	237	385	823
S A	31,823	1,979	4,440	8,671	930	584	904
OHIO	71,960	75	78	5	233	157	0
IND	110,401	50	0	5	27	57	904
ILL	321,605	22	0	0	96	109	58
MICH	40,454	216	70	20	250	175	4
WIS	124,460	151	6	0	214	105	0
F N C	668,880	514	154	30	819	603	966
MINN	99,682	121	0	10	582	104	0
IOWA	185,358	0	51	13	92	7	0
MO	15,850	118	11	1	2	57	9
N DAK	3,030	0	0	0	0	2	0
S DAK	4,577	12	0	0	29	8	0
NEBR	20,235	2,062	1	490	39	2	2,515
KANS	18,740	0	0	0	0	33	26
W N C	347,472	2,314	64	513	744	213	2,550
KY	22,881	345	111	506	4,082	19	1
TENN	10,406	19	60	116	613	18	0
ALA	4,884	0	0	452	3	23	0
MISS	4,388	15	0	26	0	7	0
E S C	42,559	380	172	1,099	4,698	66	1
ARK	14,230	88	37	8	29	2	0
LA	5,280	18	18	0	0	10	11
OKLA	8,740	255	0	0	0	33	0
TEX	4,277	944	0	0	0	63	0
W S C	32,527	1,305	55	8	29	107	11
MONT	878	12	0	5	4	4	0
IDAHO	2,958	0	0	0	796	1	0
WYO	1,105	21	0	0	0	2	0
COLO	4,334	35	0	0	676	295	0
N MEX	133	94	0	0	6	20	13
ARIZ	316	55	4	0	81	173	5
UTAH	92	0	0	0	0	3	0
NEV	0	0	0	0	0	10	0
MOUNT	9,817	217	4	5	1,564	509	18
WASH	8,672	108	1	0	1,548	247	11
ORE	4,176	64	0	0	614	68	0
CALIF	4,738	0	36	0	4,523	9,083	0
PAC	17,586	171	37	0	6,686	9,398	11
48 ST & D C	1,170,304	7,312	5,042	10,539	16,142	12,397	4,604
ALAS	23	0	0	0	25	2	0
HAW	2,248	194	11	0	1,193	0	462
P R	258	1	1	0	279	0	0
U S	1,172,832	7,506	5,053	10,539	17,639	12,400	5,066

Table 12.--Principal Mixtures: Consumption of 15 principal grades, by regions and States, year ended June 30, 1959

State and division	New England														
	10-15-15	15-15-15	10-10-10	5-10-10	10-5-4	15-8-12	12-12-12	15-10-10	8-12-14	14-14-14	23-7-7	5-10-5	6-10-10	6-8-8	
Me. ....	39,224	19,435	11,481	20,009	675	5,514	7,609	395	6,053	5,821	154	769	2,234	0	
N. H. ....	24	674	1,158	1,138	1,218	1,346	0	1,469	0	0	0	191	0	0	
Vt. ....	17,887	7,155	4,848	6,002	1,685	2,053	0	1,810	0	0	0	243	0	0	
N.M. ....	572	1,355	2,538	1,379	6,982	0	0	1,066	0	5	2,352	1,998	700	1,069	
R. I. ....	1,600	1,173	1,151	666	2,451	124	0	2,983	0	0	0	387	932	0	
Conn. ....	89	717	7,633	628	5,000	1,321	2,830	0	0	0	0	1,157	425	3,023	
Total .....	41,730	27,204	23,422	26,728	14,719	12,709	7,785	6,681	6,029	5,649	5,642	4,695	4,292	4,092	
Middle Atlantic															
N. Y. ....	31,830	40,690	45,013	22,892	21,255	32,466	9,311	3,145	16,492	20,756	29,463	7,200	10,287	6,756	
P. D. ....	44,557	21,066	20,098	10,045	5,743	4,743	5,845	701	4,53	4,53	2,621	534	1,035	5,505	
Pa. ....	17,507	10,430	10,137	6,120	24,457	9,298	20,094	14,620	7,712	1,794	1,794	17,864	6,051	6,104	
D. C. ....	4,984	668	668	823	294	145	664	718	2,631	0	0	716	2,347	1,722	
M. D. ....	49,196	51,059	6,336	6,282	349	4,353	15,182	2,109	1,101	0	2,723	9,155	5,035	5,035	
W. Va. ....	34	57	34	1,285	0	0	0	0	0	0	0	0	0	0	
D. Md. ....	1,422	2,537	253	573	246	43	784	43	0	0	0	3,070	431	73	
Total .....	492,780	224,940	88,032	48,660	47,624	16,950	10,421	32,064	36,319	35,701	32,332	32,107	30,007	25,195	
South Atlantic															
Va. ....	10,304	202,542	165,043	57,193	14,704	6,515	11,911	1,222	0	0	0	15,042	0	21,190	
N. C. ....	5,294	286,644	192,234	274,427	11,724	29,427	64,961	1,662	44,290	0	0	36,190	0	26,780	
S. C. ....	64,481	60,316	47,246	91,545	152,168	35,571	10,414	17,013	0	0	0	7,839	0	0	
D. C. ....	4,771	3,402	13,439	21,267	42,953	44,641	23,430	85,894	0	544	0	0	0	0	
Fla. ....	4,791	39,873	1,112	1,025	30,775	19,761	10,285	31,592	42,271	56,391	59,133	2,051	59,133	598	
Total .....	73,172	553,754	393,207	309,755	270,898	160,492	135,334	123,111	112,394	82,271	69,214	60,522	59,433	48,568	
East North Central															
Ohio ....	153,699	48,703	125,456	55,045	5,855	33,426	4,383	7,229	3,613	1,640	17,993	15,988	3,015	12,287	
Ind. ....	213,868	43,504	61,492	35,135	8,225	12,710	7,062	22,530	18,187	1,591	10,152	10,152	26,848	10,745	
Ill. ....	122,817	208,622	37,997	50,007	67,222	1,271	46,533	29,088	18,431	24,675	5,710	5,103	7,465	3,953	
Mich. ....	110,522	10,622	67,371	68,522	461	29,481	1,298	4,113	1,647	9,367	1,031	1,031	4,367	0	
Wis. ....	1,394,434	50,537	5,651	11,138	2,033	2,224	2,137	1,312	1,604	1,928	1,137	1,137	3,678	0	
Total .....	731,800	340,405	300,660	221,708	84,216	79,860	66,950	49,529	47,733	47,063	39,589	39,356	38,472	35,031	
West North Central															
Minn. ....	173,645	24,736	50,305	10,437	6,224	9,039	21,110	33,355	15,644	12,497	12,497	26,110	19,184	10,507	
Iowa ....	113,234	116,117	3,002	30,574	10,111	57,968	7,084	18,661	7,657	1,421	1,421	8,217	5,451	9,084	
Mo. ....	5,321	107,688	23,500	617	2,712	16,982	8,819	2,537	11,829	21,413	2,605	1,418	6,697	10,426	
N. Dak. ....	77,513	679	3,653	32	5,816	0	6,619	51	224	0	0	0	34	0	
S. Dak. ....	31,426	3,765	125	8,343	10	1,768	198	0	0	147	0	0	104	45	
W. Dak. ....	1,277	2,422	3,303	31,619	29,993	844	1,175	55	433	198	0	0	104	85	
Kans. ....	189,115	11,794	32,189	14,167	216	22,687	355	0	531	295	0	0	332	568	
Total .....	687,942	262,238	229,233	163,071	71,383	76,710	54,083	39,179	36,519	36,085	35,745	32,402	32,402	31,630	

East South Central															
	6-12-12	4-12-12	13-13-13	5-10-15	10-10-10	0-20-20	5-20-20	8-24-24	8-8-8	6-24-24	15-15-15	6-8-8	9-12-12	10-20-20	0-14-14
Ky. ....	50,386	684	0	106,283	81,403	9,498	80,177	699	339	20,620	8,279	0	0	0	3,715
Tenn. ....	345,834	849	1,741	15,659	18,651	24,240	18,651	18	1,828	9,566	32,040	0	0	0	33,753
Ala. ....	27,193	222,689	86,474	26,292	33,087	21,071	5,399	65,323	75,610	13,805	5,096	426	10	0	1,298
Miss. ....	5,153	2,092	104,627	0	473	74,046	10,658	27,105	1,477	24,551	1,154	58,309	43,070	0	1,080
Total ...	429,168	226,274	192,842	172,518	130,822	127,825	114,885	93,145	79,254	72,542	62,609	58,735	43,080	0	39,844
West South Central															
	10-20-10	18-46-0	12-12-12	6-24-24	13-13-13	0-20-20	16-6-12	12-24-12	0-26-26	16-20-6	10-20-20	20-10-0	18-18-9	9-8-8	15-15-15
Ark. ....	59,201	2,587	10,257	31,938	14,579	0	0	23,057	33,082	0	15,195	417	0	0	2,213
La. ....	8,101	3,934	31,778	33,660	23,967	6,027	302	11,904	5,302	38	4,321	151	25,206	0	15,075
Okla. ....	95,800	81,698	2,133	9,777	1,073	4,328	2,157	3,205	0	10,010	3,026	0	0	0	51
Texas ....	190,181	102,104	57,272	16,460	26,965	53,148	15,442	6,581	0	25,001	11,639	30,510	3,743	0	9,560
Total ...	353,283	190,323	101,440	91,855	66,984	63,944	47,871	44,747	38,384	37,049	34,181	31,078	28,949	0	26,899
Mountain															
	18-46-0	10-34-0	16-46-0	22-22-0	9-30-0	28-14-0	30-10-0	27-12-0	23-23-0	11-55-0	11-37-0	7-21-7	29-14-0	24-20-0	20-20-5
Mont. ....	29,842	50	677	2,108	0	6,436	3,332	4,172	5,406	0	0	0	0	0	45
Idaho ....	41,429	6,709	300	2,854	4,575	599	224	1,346	0	5,061	0	0	0	0	347
Wyo. ....	9,703	948	172	4,257	0	1,392	1,000	989	0	100	298	192	88	0	26
Colo. ....	39,051	17,655	5,690	23	60	36	1,000	44	0	16	2,088	2,977	2,033	0	57
N. Mex. ....	8,777	2,929	70	804	0	0	0	0	0	114	1,717	25	100	0	0
Ariz. ....	6,575	3,008	5,710	0	3,135	0	0	0	0	0	730	0	0	0	0
Utah. ....	17,897	0	660	0	93	0	123	0	0	0	0	0	0	0	1,743
Wev. ....	425	0	0	0	787	0	0	0	0	13	0	0	0	0	0
Total ...	153,699	31,339	13,279	9,242	8,574	6,928	6,574	6,574	5,406	5,304	4,793	3,194	2,221	2,218	2,198
Pacific															
	12-12-12	19-9-0	8-24-0	18-46-0	9-30-0	6-20-20	16-16-16	14-7-14	10-20-20	10-10-10	5-10-10	27-12-0	15-8-4	10-6-4	15-5-25
Wash. ....	61	0	4,408	12,745	15,011	1,874	8,535	27	6,701	136	0	2,844	0	0	55
Oreg. ....	378	402	184	8,758	5,998	1,287	0	0	5,268	113	196	4,144	0	0	7
Calif. ....	34,324	32,735	20,315	3,076	0	16,046	6,817	15,177	1,130	12,306	12,239	1,198	7,742	7,541	7,155
Total ...	34,743	33,137	24,907	24,579	20,969	19,207	18,066	15,204	13,099	12,555	12,435	8,186	7,742	7,603	7,211
Other															
	14-4-10	12-6-16	8-6-10	8-8-13	9-10-5	12-3-16	12-6-10	15-4-7	10-5-20	6-8-10	20-0-33	10-10-8	1,581		
Puerto Rico	60,282	29,291	4,573	4,745	3,721	3,130	2,411	2,225	2,213	1,829	1,802	1,802	1,581		
United States & D. C. 1/															
	18-46-0	6-24-24	5-10-15	10-10-10	5-10-10	12-12-12	6-12-12	4-12-12	5-20-20	8-32-16	10-20-10	3-9-9	10-20-20	3-9-18	13-13-13
New Eng. ...	2,214	340	16,735	7,786	1,397	1,814	273	3,964	1,814	15,840	47,824	113	3,489	0	0
Mid. Atl. ...	36,319	23,170	16,102	223,840	242,780	25,195	1,173	22,628	22,628	278	3,545	393,207	146,539	6,315	3,272
S. Atl. ...	10,594	6,515	773,712	436,468	563,844	6,395	112,394	270,898	2,815	28,521	2,129	2,429	60,522	309,755	8,083
E. N. Cent. ...	360,406	731,800	9,699	20,515	16,519	15,289	300,660	221,708	300,660	221,708	28,867	4,777	39,685	8,466	11,099
W. N. Cent. ...	667,962	282,238	1,699	163,071	23,286	32,202	1,759	229,233	229,233	229,233	2,533	2,533	36,519	5,899	21,731
E. S. Cent. ...	21,567	72,542	130,822	17,217	429,168	114,885	226,274	2,533	114,885	4,514	363,203	36	39,844	2,453	192,842
W. S. Cent. ...	190,323	91,855	3,157	101,440	2,912	21,956	4,514	363,203	21,956	4,514	363,203	36	39,844	2,453	192,842
Mountain ...	153,699	24,579	1	12,555	2,392	34,743	0	1,093	0	140	1,093	13	13,099	0	53
Pacific ...	24,579	0	0	12,555	2,392	34,743	0	1,093	0	140	1,093	13	13,099	0	53
Total ...	1,490,409	1,188,461	972,177	867,554	641,048	609,641	501,828	496,960	496,960	475,899	466,147	395,250	375,756	333,050	306,724

1/ Excludes Alaska, Hawaii & Puerto Rico.

TABLE 13.--MIXTURES 1/: TONNAGE OF THE 150 MOST POPULAR MIXTURES CONSUMED, UNITED STATES, YEARS ENDED JUNE 30, 1968 AND 1969

GRADE	CONSUMPTION		PROPORTION OF TOTAL		GRADE	CONSUMPTION		PROPORTION OF TOTAL	
	1968	1969	1968	1969		1968	1969	1968	1969
	TONS		PERCENT			TONS		PERCENT	
0-8-24	14,751	23,213	.09	.14	8-24-8	29,237	27,785	.17	.17
0-9-27	18,911	17,118	.11	.11	8-24-24	85,969	147,081	.51	.90
0-10-20	174,617	169,619	1.04	1.04	8-25-3	21,660	21,886	.13	.13
0-10-30	52,546	46,366	.31	.29	8-32-16	443,943	475,899	2.65	2.93
0-12-36	27,947	22,762	.17	.14	9-12-12	48,208	43,132	.29	.27
0-14-14	89,296	74,230	.53	.46	9-23-30	26,669	48,999	.16	.30
0-14-42	41,697	49,081	.25	.30	9-30-0	36,455	36,692	.22	.23
0-15-30	58,145	70,014	.35	.43	10-0-10	28,059	34,492	.17	.21
0-18-36	18,581	23,642	.11	.15	10-2-10	39,363	45,388	.24	.28
0-20-20	252,700	249,633	1.51	1.54	10-4-10	16,697	18,585	.10	.11
0-23-30	25,824	37,877	.15	.23	10-5-5	15,097	18,212	.09	.11
0-25-25	124,637	125,530	.74	.77	10-5-10	15,687	22,320	.09	.14
0-26-26	114,380	131,691	.68	.81	10-6-4	166,841	149,920	1.00	.92
0-30-15	20,072	19,039	.12	.12	10-10-10	881,604	867,554	5.27	5.34
2-6-12	59,220	57,844	.35	.36	10-15-15	38,139	42,385	.23	.26
2-12-12	66,013	50,603	.39	.31	10-20-10	433,341	466,147	2.59	2.87
3-9-9	390,546	396,250	2.33	2.44	10-20-20	342,769	375,756	2.05	2.31
3-9-12	55,163	55,806	.33	.34	10-20-30	17,944	18,196	.11	.11
3-9-13	29,339	32,582	.18	.20	10-26-26	7,623	41,790	.05	.26
3-9-18	377,955	333,050	2.26	2.05	10-30-10	43,292	34,262	.26	.21
3-10-8	124,099	160,926	.74	.99	10-34-0	138,035	189,341	.82	1.16
3-10-10	14,401	17,873	.09	.11	10-40-10	20,165	25,669	.12	.16
3-10-30	6,913	18,394	.04	.11	11-35-0	163	18,929	.00	.12
4-7-5	32,774	24,894	.20	.15	11-37-0	50,218	44,925	.30	.28
4-8-8	73,631	69,559	.44	.43	11-55-0	20,912	33,497	.12	.21
4-8-12	149,447	152,843	.89	.94	12-0-12	37,025	38,658	.22	.24
4-8-16	18,996	21,510	.11	.13	12-4-8	46,325	40,436	.28	.25
4-9-3	41,556	38,478	.25	.24	12-4-12	13,271	16,598	.08	.10
4-10-10	68,001	74,760	.41	.46	12-6-6	57,292	57,283	.34	.35
4-11-11	25,335	23,205	.15	.14	12-6-16	13,974	29,349	.08	.18
4-12-8	24,679	18,039	.15	.11	12-12-12	732,004	641,048	4.37	3.94
4-12-12	592,757	501,828	3.54	3.09	12-24-12	76,139	88,085	.45	.54
4-12-24	26,668	51,287	.16	.32	12-24-24	20,992	17,988	.13	.11
5-10-5	94,525	80,673	.56	.50	12-30-20	3,768	23,625	.02	.15
5-10-10	1,000,605	866,633	5.98	5.33	13-13-13	271,495	306,724	1.62	1.89
5-10-15	1,041,261	972,177	6.22	5.98	13-34-10	28,354	24,666	.17	.15
5-10-20	33,432	30,646	.20	.19	13-52-0	51,695	60,898	.31	.37
5-10-30	35,375	27,409	.21	.17	14-0-14	28,340	32,261	.17	.20
5-12-10	19,620	17,659	.12	.11	14-4-10	72,235	60,429	.43	.37
5-15-30	36,835	35,814	.22	.22	14-7-7	17,032	21,478	.10	.13
5-20-10	29,255	17,031	.17	.10	14-7-14	9,622	23,223	.06	.14
5-20-20	670,411	496,960	4.00	3.06	14-14-14	68,121	77,600	.41	.48
5-23-27	27,647	26,769	.17	.16	15-5-5	40,049	32,070	.24	.20
6-4-6	23,454	20,702	.14	.13	15-5-10	18,339	18,713	.11	.12
6-4-8	25,098	26,957	.15	.17	15-8-12	19,506	24,575	.12	.15
6-6-6	90,333	82,956	.54	.51	15-10-10	84,059	82,786	.50	.51
6-6-12	20,068	24,726	.12	.15	15-15-15	216,982	232,099	1.30	1.43
6-8-6	34,032	25,232	.20	.16	15-38-10	15,177	23,702	.09	.16
6-8-8	113,199	96,176	.68	.59	15-40-5	22,837	20,983	.14	.13
6-10-4	20,791	22,007	.12	.14	16-0-16	14,128	17,927	.08	.11
6-12-6	58,767	48,962	.35	.30	16-6-12	36,759	51,284	.22	.32
6-12-12	631,151	609,641	3.77	3.75	16-8-8	127,231	105,908	.76	.65
6-12-18	87,363	42,762	.52	.26	16-16-16	109,535	118,172	.65	.73
6-18-6	98,204	97,688	.59	.60	16-20-6	52,450	56,240	.31	.35
6-18-18	13,329	17,146	.08	.11	16-48-0	72,108	79,580	.43	.49
6-18-36	16,766	20,593	.10	.13	17-17-17	65,019	74,975	.39	.46
6-20-20	19,914	22,747	.12	.14	18-18-9	22,311	29,015	.13	.18
6-24-12	70,797	43,536	.42	.27	18-46-0	1,246,953	1,490,409	7.45	9.17
6-24-24	1,224,037	1,188,461	7.31	7.31	19-9-0	53,125	33,403	.32	.21
6-26-26	27,255	24,240	.16	.15	20-10-0	19,521	35,838	.12	.22
7-14-21	18,010	30,682	.11	.19	20-5-5	5,803	11,750	.03	.07
7-21-7	94,881	100,891	.57	.62	20-10-5	26,668	25,828	.16	.16
7-26-26	10,297	23,371	.06	.14	20-10-10	85,454	82,505	.51	.51
7-28-14	54,643	44,300	.33	.27	20-20-0	14,936	15,851	.09	.10
7-28-28	32,286	39,020	.19	.24	20-20-10	41,774	35,357	.25	.22
7-30-11	22,524	17,771	.13	.11	21-0-32	0	26,913	.00	.17
7-31-12	37,255	42,844	.22	.26	21-13-12	20,372	23,288	.12	.14
8-0-24	20,282	25,104	.12	.15	22-11-11	18,057	32,505	.11	.20
8-2-8	52,767	59,133	.32	.36	22-22-0	18,903	16,174	.11	.10
8-4-8	44,324	45,350	.26	.26	23-23-0	39,774	25,310	.24	.16
8-8-8	288,715	249,853	1.72	1.54	25-25-0	19,113	23,827	.11	.15
9-12-12	26,076	25,760	.16	.16	27-12-0	17,092	15,027	.10	.09
9-16-8	21,233	15,947	.13	.10	28-14-0	35,796	20,704	.21	.13
9-16-16	64,853	58,476	.39	.36	29-14-0	41,215	18,571	.25	.11
9-24-0	43,338	29,520	.26	.18	30-10-0	58,308	37,500	.35	.23
					TOTAL	16,742,036	16,260,731	78.62	76.62

NUMBER OF GRADES AND TOTAL TONNAGE BY CLASS; YEAR ENDED JUNE 30	NUMBER		TONS		PERCENT OF TOTAL	
	1968	1969	1968	1969	1968	1969
GRADES OF 10,000 TONS OR MORE	193	190	17,554,347	17,270,878	82.44	81.11
GRADES 5,000 TONS TO 9,999 TONS	84	79	598,370	555,981	2.81	2.61
GRADES 2,500 TONS TO 4,999 TONS	131	129	460,599	453,600	2.16	2.13
LESS THAN 2,500 TONS AND GRADE NOT REPORTED	---	---	2,680,259	2,941,897	12.59	13.82
TOTAL (48 STATES AND DISTRICT OF COLUMBIA)	---	---	21,293,575	21,222,356	100.00	100.00

1/ EXCLUDES ALASKA, HAWAII AND PUERTO RICO AND GRADES MADE BY ONLY ONE COMPANY.

TABLE 14.--AVERAGE ANALYSIS: AVERAGE PRIMARY NUTRIENT CONTENT OF MIXTURES AND DIRECT APPLICATION MATERIALS CONSUMED, BY STATES, YEAR ENDED JUNE 30, 1969

STATE AND DIVISION	MIXTURE 1/				MATERIAL 2/					TOTAL IN MIXTURES AND MATERIALS
	N	AVAILABLE P O 2 5	K D 2	TOTAL	N	AVAILABLE P O 2 5	K D 2	MULTIPLE NUTRIENT	TOTAL	
	-- PERCENT --									
MAINE	10.52	13.26	13.33	37.10	37.90	29.98	55.18	12.98	34.12	36.88
N H	10.58	11.47	12.85	34.89	33.47	22.52	56.32	12.47	27.06	32.82
VT	9.90	15.13	15.70	40.73	32.40	21.45	59.71	32.28	30.45	36.84
MASS	11.20	9.87	9.04	30.11	19.07	22.21	58.20	14.14	20.03	26.27
R I	9.85	10.42	8.60	28.88	35.39	25.72	59.40	12.48	18.36	24.76
CONN	11.13	10.14	8.86	30.12	33.57	26.70	59.71	9.73	27.57	29.32
N E	10.66	12.09	11.80	34.55	28.78	23.50	58.82	12.77	25.63	32.34
N Y	9.58	15.14	12.00	36.72	40.46	35.91	43.51	13.69	35.50	36.35
N J	8.41	10.41	10.13	28.94	33.76	20.63	59.33	9.31	28.55	28.85
PA	9.08	14.88	11.95	35.91	36.96	24.48	58.41	15.68	33.98	35.29
OEL	7.76	11.52	14.16	33.44	37.18	36.20	59.32	11.18	40.14	35.62
MD	7.71	11.92	13.43	33.05	37.53	35.49	59.47	11.70	38.99	34.58
D C	8.57	8.06	6.22	22.84	31.60	20.00	58.17	11.48	17.46	21.69
W VA	6.95	13.24	12.27	32.46	33.82	34.69	58.76	13.88	36.58	34.47
M A	8.79	13.67	12.12	34.58	37.66	32.27	57.20	13.19	35.22	34.77
VA	5.47	10.64	11.93	28.03	30.01	33.93	57.32	19.43	33.70	29.87
N C	5.19	9.78	12.00	26.98	30.96	23.96	55.94	31.08	31.32	28.59
S C	4.68	10.50	13.54	28.72	27.89	14.27	56.47	31.38	27.87	28.37
GA	5.34	10.57	14.69	30.60	37.32	15.84	50.35	36.86	36.91	35.41
FLA	7.91	6.34	11.74	26.00	29.79	13.28	44.28	23.46	28.28	26.58
S A	5.99	9.17	12.76	27.91	32.69	21.86	51.02	26.18	32.40	29.55
OHIO	8.76	20.84	16.41	46.01	47.80	38.20	59.78	15.62	49.73	47.74
IND	7.81	21.13	16.12	45.06	48.92	42.70	55.03	27.68	50.01	47.93
ILL	9.13	23.26	11.72	44.11	55.17	37.67	60.17	22.51	52.05	49.97
MICH	9.09	20.54	16.75	46.38	46.37	39.32	59.37	13.15	48.13	47.13
WIS	8.47	24.23	18.25	50.95	40.33	42.64	59.85	14.00	50.20	50.45
E N C	8.65	21.94	15.09	45.69	51.00	38.54	59.10	17.87	50.95	48.99
MINN	10.90	28.84	14.26	54.01	59.25	43.78	59.78	31.75	55.88	55.25
IOWA	9.05	27.59	12.92	49.56	59.26	44.35	60.00	39.98	56.55	54.72
MO	10.67	16.25	15.76	42.68	52.06	6.00	59.23	14.14	41.59	42.17
N DAK	16.24	36.83	3.15	56.22	36.21	45.76	60.00	55.60	44.33	49.03
S DAK	16.54	30.01	3.06	49.61	41.66	40.15	59.65	55.62	43.88	45.32
NEBR	13.11	33.12	3.76	49.99	57.36	37.70	51.89	39.22	55.21	54.42
KANS	15.04	35.76	4.20	55.00	50.75	44.79	59.86	35.47	50.64	51.64
W N C	11.42	26.81	11.49	49.72	55.13	37.73	59.24	46.16	52.94	51.97
KY	7.09	14.73	14.89	36.71	40.88	37.71	56.83	33.77	43.02	39.84
TENN	6.97	13.63	13.84	34.44	37.49	28.96	59.08	30.63	38.63	36.09
ALA	6.38	13.42	13.75	33.54	35.14	12.50	59.99	25.77	31.95	32.80
MISS	7.50	15.50	15.31	38.31	39.91	14.35	59.63	29.12	35.59	36.61
E S C	6.90	14.15	14.31	35.36	38.21	21.26	57.91	30.49	36.86	36.10
ARK	7.79	17.92	18.15	43.87	39.47	33.71	59.34	34.95	41.17	42.30
LA	10.55	16.91	14.40	41.86	40.44	24.81	55.78	41.27	40.02	40.78
OKLA	12.85	28.91	7.53	49.29	41.72	34.16	57.02	31.81	41.52	43.92
TEX	13.27	20.34	7.64	41.25	53.24	34.33	45.72	37.88	49.08	46.53
W S C	11.90	20.56	10.38	42.83	47.93	32.98	55.63	37.64	45.93	44.86
MONT	21.12	32.43	.39	53.94	34.65	46.68	58.54	44.44	42.00	44.59
IDAHO	16.59	39.54	.53	56.66	33.95	52.44	57.21	39.53	37.99	39.76
WYO	19.78	33.68	.12	53.58	34.38	45.64	58.14	34.05	36.79	39.20
COLO	15.61	35.52	1.40	52.53	47.94	45.34	57.06	22.81	44.79	46.40
N MEX	14.31	31.76	2.21	48.28	57.67	37.48	33.92	36.23	50.87	50.41
ARIZ	14.19	33.43	1.52	49.14	51.59	47.57	46.35	38.69	48.19	48.28
UTAH	17.72	36.26	.53	54.52	28.56	43.46	60.00	42.61	37.92	41.20
NEV	17.97	13.86	2.70	34.54	43.25	39.77	.00	31.35	37.49	36.97
MOUNT	16.93	34.95	.99	52.88	42.00	47.15	56.02	38.58	42.40	43.90
WASH	14.65	23.04	5.65	43.34	37.17	40.53	56.75	31.03	37.54	38.39
ORE	15.09	24.55	6.17	45.81	30.46	29.51	56.66	36.72	32.54	33.84
CALIF	12.84	13.38	7.01	33.22	31.70	24.98	54.07	16.81	26.96	27.86
PAC	13.38	16.19	6.68	36.25	32.66	27.46	55.69	20.39	29.54	30.46
48 ST+DC	8.89	17.64	12.50	39.04	45.24	35.06	58.58	28.47	44.23	42.19
ALAS	11.88	21.44	15.50	48.81	29.53	39.42	53.64	44.19	34.29	41.10
HAW	15.09	10.24	21.83	47.15	28.46	16.44	40.23	66.37	27.67	36.18
P R	12.80	6.07	12.28	31.15	26.88	23.12	50.36	39.02	28.29	30.63
U S	8.95	17.53	12.54	39.02	45.15	34.86	58.49	28.64	44.14	42.13

1/ GUARANTEED TO CONTAIN 2 OR MORE OF THE PRIMARY NUTRIENTS N, P O, K O.

2/ INCLUDES ONLY MATERIALS GUARANTEED TO CONTAIN 1 OR MORE PRIMARY NUTRIENTS.

TABLE 15.--SELECTED N-P GRADES: CONSUMPTION BY STATES  
YEAR ENDED JUNE 30, 1969

STATE AND DIVISION	GRADE 1/						
	11-48	13-39	16-20	16-48	18-46	21-53	27-14
	-- TONS --						
MAINE	75	0	0	0	822	0	0
N H	0	0	0	0	0	19	0
VT	0	0	0	0	285	122	0
MASS	0	713	0	0	807	0	0
R I	0	0	160	0	285	0	0
CONN	0	0	6	0	1,388	27	27
N E	75	713	166	0	3,587	168	27
N Y	519	0	0	0	16,492	76	0
N J	0	0	0	0	0	0	0
PA	1,041	0	4	0	16,216	182	0
DEL	0	0	0	0	718	0	0
MD	0	0	0	0	2,109	0	100
D C	0	0	0	0	0	0	0
W VA	5	0	0	0	784	10	0
M A	1,565	0	4	0	36,319	268	100
VA	0	0	0	0	824	220	0
N C	0	0	0	0	852	519	0
S C	0	0	0	0	1,091	10	0
GA	1,000	0	0	0	7,826	350	0
FLA	1	0	0	0	1	714	21
S A	1,001	0	0	0	10,594	1,813	21
OHIO	315	0	0	138	42,703	533	0
IND	1,410	0	0	1,379	43,544	219	0
ILL	2,619	2	2	452	202,522	1,284	126
MICH	410	0	0	169	10,702	181	0
WIS	762	0	0	526	60,935	6	0
E N C	5,516	2	2	2,664	360,406	2,223	126
MINN	1,676	1	1,894	9,029	173,815	1,000	3,107
IOWA	407	8	721	7,084	133,234	912	114
MO	327	2	83	722	9,321	3	0
N DAK	40,755	0	5,560	6,618	77,513	0	1,306
S DAK	1,310	7,261	908	1,768	31,206	5,539	1,918
NEBR	1,116	0	9,942	6,175	80,758	0	7
KANS	946	10	9,997	22,687	182,115	294	30
W N C	46,537	7,282	29,105	54,083	687,962	7,748	6,482
KY	0	0	0	0	14,518	1,220	0
TENN	0	0	0	0	5,069	458	75
ALA	0	166	0	0	198	1	0
MISS	0	0	1,124	0	1,782	0	0
E S C	0	166	1,124	0	21,567	1,679	75
ARK	0	14	1,860	105	2,587	0	0
LA	1,500	0	1,020	99	3,934	0	0
OKLA	130	32	8,336	2,368	81,698	103	0
TEX	18,525	17,547	187,671	4,133	102,104	0	0
W S C	20,155	17,593	198,887	6,705	190,323	103	0
MONT	17,282	0	24,475	677	29,842	0	10,409
IOAHO	4,197	12	32,338	300	41,429	951	545
WYO	31	0	1,889	172	9,703	3	49
COLO	1,673	50	4,827	5,690	39,051	1,556	431
N MEX	856	254	4,176	70	8,777	0	0
ARIZ	8,882	37	36,855	5,710	6,575	3,101	0
UTAH	3,350	400	7,900	660	17,897	140	650
NEV	447	0	2,211	0	425	3	392
MOUNT	36,718	753	114,671	13,279	153,699	5,854	12,476
WASH	3,643	0	29,516	1,093	12,745	40	1,764
ORE	4,068	3,037	58,223	69	8,758	315	46
CALIF	36,342	797	84,816	1,687	3,076	2,000	148
PAC	44,053	3,834	172,555	2,849	24,579	2,355	1,958
48 ST+DC	155,620	30,343	516,514	79,580	1,489,036	22,211	21,265
ALAS	150	0	100	0	0	0	5
HAW	1,167	0	7	0	1,229	4,099	0
P R	0	0	0	0	144	72	0
U S	156,937	30,343	516,621	79,580	1,490,409	26,382	21,270

1/ IN OTHER TABLES, ALL QUANTITIES OF GRADE 11-48, 13-39, 16-20, 21-53, AND 27-14 ARE INCLUDED IN MATERIALS; WHEREAS, 16-48 AND 18-46 ARE INCLUDED IN MIXTURES.



TABLE 16.--NITROGEN SOLUTION: CONSUMPTION BY DIRECT APPLICATION, BY ANALYSIS,  
BY STATES, YEARS ENDED JUNE 30, 1968 AND 1969

STATE AND DIVISION	UNDER 20% NITROGEN		20 - 32% NITROGEN		OVER 32% NITROGEN	
	1968	1969	1968	1969	1968	1969
	----- TONS -----					
MAINE	0	0	634	573	113	0
N H	17	2	115	281	0	53
VT	0	0	1,153	1,325	0	0
MASS	0	0	260	240	0	0
R I	0	4	0	0	0	0
CONN	0	26	1,241	1,063	41	24
N E	17	32	3,403	3,482	154	77
N Y	1,244	67	19,020	19,087	127	327
N J	0	0	1,470	1,840	0	0
PA	0	321	25,509	19,305	74	349
DEL	0	0	4,584	7,156	4,750	3,620
D C	0	0	45	0	0	0
MD	0	356	18,288	17,273	4,413	1,833
W VA	0	11	1,936	2,797	0	0
M A	1,244	755	70,852	67,458	9,363	6,129
VA	166	11	64,552	69,224	6,329	4,668
N C	0	677	140,927	165,737	50,332	47,950
S C	43,437	46,356	81,884	94,421	0	0
GA	52,405	36,781	207,949	223,424	1,300	2,065
FLA	35,742	39,447	14,012	15,395	2	3
S A	131,750	123,272	509,324	568,201	57,963	54,686
OHIO	0	419	49,077	56,239	28,252	18,687
IND	0	1,368	137,511	178,527	84,000	51,784
ILL	11,243	11,328	104,902	141,349	124,590	67,468
MICH	151	47	32,949	28,480	3,015	1,463
WIS	85	0	42,466	47,978	12,205	8,961
E N C	11,479	13,162	366,905	452,573	252,062	148,363
MINN	23,000	20,637	14,546	42,118	23,161	16,883
IOWA	0	0	87,660	122,205	57,634	45,634
MO	7	0	60,152	69,890	9,896	4,540
N DAK	100	109	14,753	18,639	153	131
S DAK	9,428	5,368	9,081	14,663	3,222	11,884
NEBR	17,440	1,204	131,810	167,452	29,489	17,471
NEB	2,932	146	159,974	151,415	0	1,240
KANS	52,907	27,464	477,976	586,382	123,555	97,783
W N C						
KY	666	7	23,734	37,873	1,375	0
TENN	0	24	41,527	44,454	0	87
ALA	15,806	15,382	56,040	54,538	0	0
MISS	0	0	39,981	41,644	0	1,729
E S C	16,472	15,413	161,282	178,509	1,375	1,816
ARK	0	0	34,866	36,859	709	227
LA	0	0	16,075	19,579	0	0
OKLA	629	1,851	53,278	52,884	0	0
TEXAS	0	78	60,442	83,926	0	93
W S C	629	1,929	164,661	193,248	709	320
MONT	34	0	4,910	4,523	0	0
IDAHO	1,475	2,366	25,738	30,094	0	0
WYO	0	0	3,492	6,778	0	0
COLO	34	273	15,325	14,451	0	0
N MEX	10	0	7,983	9,221	0	0
ARIZ	5,605	7,917	13,626	12,854	481	21
UTAH	6	4	1,155	1,150	139	126
NEV	0	1	22	2	0	0
MONT	7,164	10,561	72,251	79,073	620	147
WASH	2,511	3,833	39,091	41,172	106	0
OREG	1,694	1,779	14,179	14,769	0	0
CALIF	83,458	79,456	9,537	15,363	500	6,815
PAC	87,663	85,068	62,807	71,304	606	6,815
48 ST & DC	309,325	277,656	1,889,461	2,200,230	446,407	316,136
ALAS	0	0	0	0	0	0
HAW	121	290	0	0	110	0
P R	0	0	0	0	0	0
U S	309,446	277,946	1,889,461	2,200,230	446,517	316,136

TABLE 17.—PRIMARY NUTRIENT RATIOS: PRIMARY-NUTRIENT RATIOS OF MIXTURES TOTALING 50,000 OR MORE TONS IN UNITED STATES BY REGIONS, YEAR ENDED JUNE 30, 1969

PRIMARY NUTRIENT RATIO 1/	NEW ENGLAND	MIDDLE ATLANTIC	SOUTH ATLANTIC	EAST NORTH CENTRAL	WEST NORTH CENTRAL	EAST SOUTH CENTRAL	WEST SOUTH CENTRAL	MOUNTAIN	PACIFIC	OTHER 2/	UNITED STATES
- - - T O N S - - -											
0:1:1	3,301	50,791	69,122	102,576	106,819	170,456	98,548	0	1,124	0	602,780
0:1:2	1,186	30,517	183,573	5,524	13,769	11,377	24,823	0	0	0	270,790
0:1:3	3,465	10,165	40,859	43,845	55,587	11,404	0	0	0	0	165,334
1:0:1	13	0	154,759	819	610	711	1,049	1	0	2,891	160,859
1:1:0	0	586	124	706	52,701	812	18,871	18,385	3,123	0	95,318
1:1:1	76,200	303,574	670,852	518,430	282,483	501,786	249,289	2,672	72,322	5,477	2,683,152
1:2:1	9,243	146,388	25,484	33,159	60,597	6,324	451,673	2,094	2,239	378	737,609
1:2:2	28,424	455,442	817,248	79,574	66,606	494,008	42,194	0	16,461	2,777	2,002,799
1:2:3	14	31,315	966,437	29,806	6,770	202,781	3,627	1	0	38	1,240,787
1:2:4	0	23,603	18,889	3,378	3,467	16,506	52	0	0	0	65,907
1:3:0	0	124	0	5,387	57,716	0	7,522	14,719	27,740	6	113,244
1:3:1	89	22,904	200	80,745	152,459	1,400	11,378	5,579	2,096	477	277,355
1:3:3	2	3,033	700,239	17,210	6,206	328,950	19,193	183	0	5	1,075,035
1:3:4	0	3,148	15,399	37,186	2,220	4,891	3,089	0	0	130	66,068
1:3:6	43	7,469	378,609	64,061	30,773	6,112	11,498	0	0	0	498,581
1:4:0	13	309	1,091	25,530	32,161	2,012	950	28	0	0	62,087
1:4:2	756	20,311	9,100	295,679	247,735	24,027	6,828	554	0	282	605,266
1:4:4	2,154	48,984	10,815	1,067,547	305,570	189,146	114,682	1	1,481	0	1,740,420
1:6:6	0	2,276	62,296	0	22	49	0	0	0	0	64,643
2:1:0	0	500	24	63	14,564	197	47,735	9,423	1,390	0	73,895
2:1:1	2,377	60,511	57,080	72,162	78,478	12,231	37,553	1,385	1,722	3,357	326,854
2:1:2	2,020	1,120	68,433	2,341	3,811	5,135	21,269	0	15,440	785	120,354
2:2:1	0	714	255	866	38,582	215	47,421	2,184	17,321	268	107,826
2:3:3	68,209	2,694	9,439	808	196	634	137	0	0	0	82,120
2:5:5	0	0	644	47,212	23,660	0	1,117	34	2,942	0	75,613
3:1:2	1,366	4,682	31,604	8,734	1,873	3,497	11,050	223	4,188	598	67,815
3:2:2	8,848	39,429	5,267	4,281	23,790	4,716	3,697	0	12,430	2,189	104,624
3:4:4	4,090	0	33,622	150	368	103,912	199	0	0	0	142,350
3:10:8	0	0	135	84,216	76,802	0	0	0	0	0	161,153
4:1:4	0	0	60,728	35	186	0	0	0	0	0	60,949
5:3:2	15,264	88,030	2,826	29,831	4,105	1,916	633	1,961	8,790	0	153,368
5:17:0	74	690	1,631	47,733	77,384	3,820	22,661	31,330	4,040	0	189,379
7:2:5	0	0	161	0	77	0	0	0	0	60,282	60,460
8:3:6	0	0	40	1,837	10	0	47,871	10	1,548	0	51,318
8:10:3	0	0	0	31	19,624	0	35,049	1,536	0	0	56,240
9:23:0	3,580	36,310	10,596	360,406	687,961	21,560	190,323	153,690	24,570	1,373	1,490,403
OTHER RATIOS 3/	101,179	268,171	1,131,339	1,319,582	1,141,618	173,595	487,379	100,587	488,273	158,297	5,369,595
TOTAL	331,910	1,663,790	5,538,920	4,391,450	3,677,260	2,304,180	2,019,360	346,580	709,240	239,610	21,222,350

1/ N: AVAILABLE P O : K O. 2/ ALASKA, HAWAII, AND PUERTO RICO. 3/ ALL OTHER MIXTURES INCLUDING THOSE NOT REPORTED BY GRADE.



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