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FERTILIZER USED ON CROPS AND PASTURE IN THE UNITED STATES, 1954, ESTIMATES

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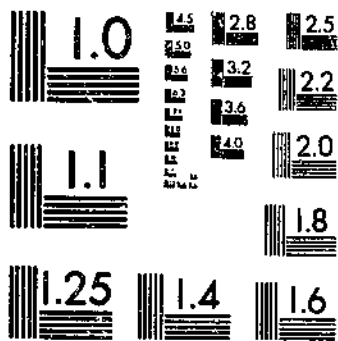
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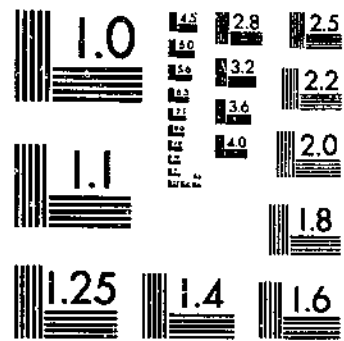
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1954 Estimates

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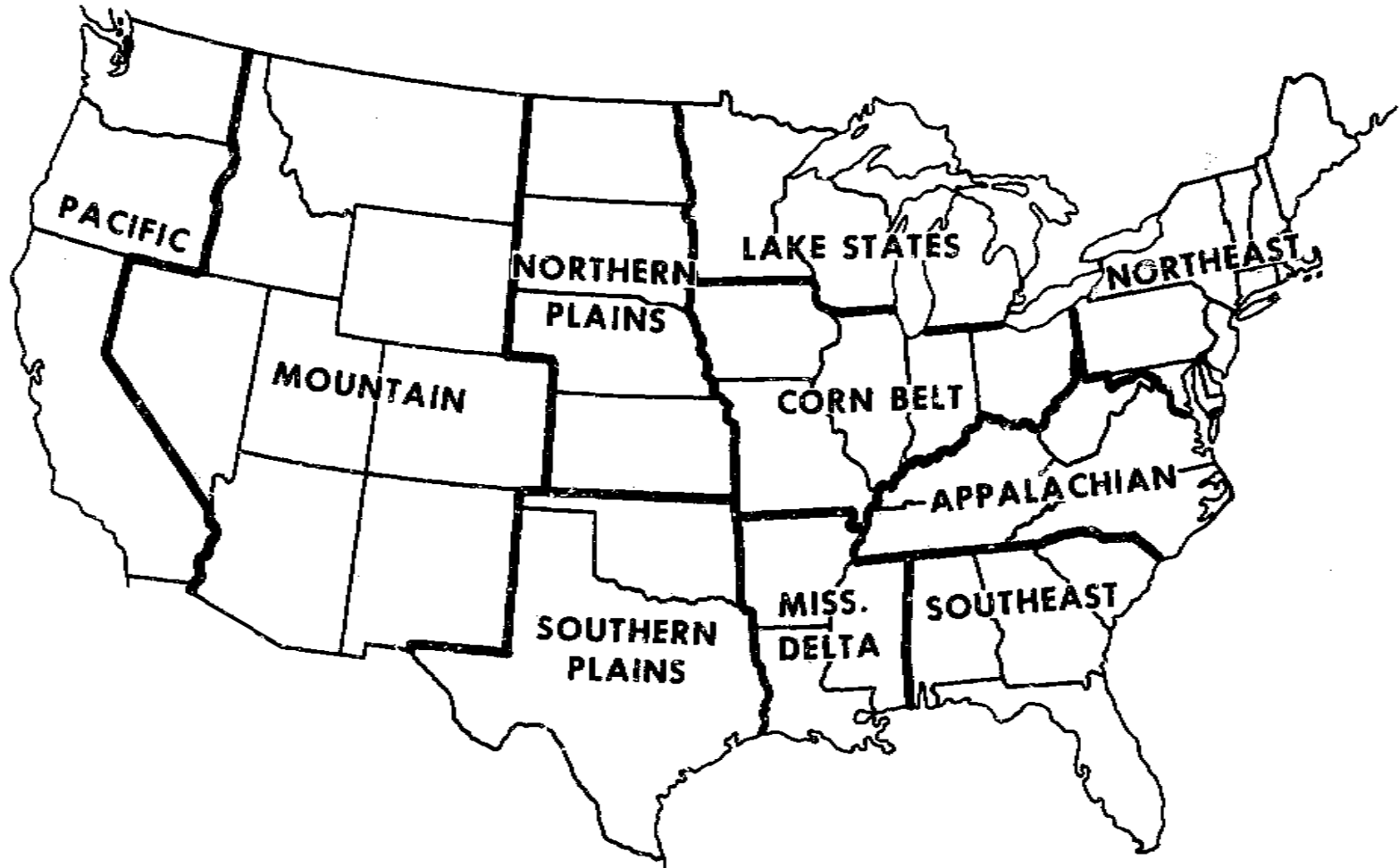
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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service Washington, D. C. August 1957

REGIONS USED FOR FERTILIZER ESTIMATES



FERTILIZER USED ON CROPS AND PASTURE IN THE UNITED STATES - 1954 ESTIMATES

Prepared by Farm Economics Research Division and Soil and Water Conservation Research Division, Agricultural Research Service ^{1/}

This report consists primarily of State and regional estimates of use of fertilizer in 1954. The estimates are based on census data, evaluated by State committees, and expressed in terms of plant nutrients used on individual crops. In regional tables, similar estimates developed in 1947 and in 1950 are presented along with the estimates for 1954.

The first Census of Agriculture in which use of fertilizer on individual crops was obtained was that taken in 1954. Six different crops or combinations of crops, including pasture, were included in the census schedule for all States. Four of these combinations were: (1) Hay and cropland pasture; (2) other pasture, not cropland; (3) fruits, vegetables, and potatoes; and (4) "other" crops. Information was obtained on two additional specified crops, selected according to importance in the State. The list from which two crops were selected for each State included corn, cotton, tobacco, sugar beets, wheat, oats, and rice. The acreage fertilized and the quantity of commercial fertilizer used on each crop were enumerated.

^{1/} Plans for developing and summarizing the estimates contained in this bulletin were made jointly by the Farm Economics Research Division and the Soil and Water Conservation Research Division, Agricultural Research Service, Washington, D. C. Field staff members of one or both divisions, and representatives of each State Agricultural Experiment Station and State Extension Service who were designated by the State Directors, cooperated in developing the estimates, except for a few States, in which no field staff members of the divisions were available to assist. It is not feasible to list the names of all who helped to prepare these estimates but their assistance is gratefully acknowledged. Workers in some States have issued separate reports giving more detailed information.

The estimates were summarized and the report was prepared in the Farm Economics Research Division, Agricultural Research Service, in consultation with representatives of the Soil and Water Conservation Research Division, ARS. D. B. Ibach and J. R. Adams were project leaders. Clyde B. Markeson assisted in planning and supervising the summarization of the estimates.

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C. - Price 25 cents

Answers to questions on the fertilizer schedule were obtained from every fifth farm visited by the census enumerators. Information on quantity of fertilizer used was limited to fertilizer material and mixtures only, without reference to type or grade. ^{2/} Rock phosphate, basic slag, and secondary and trace materials may not have been included in all instances.

To assist in the development of the estimates, each State was supplied with the 1954 census data compiled by areas. In addition, data published by the United States Department of Agriculture on use of fertilizer and on use of N, P₂O₅ and K₂O for the State as a whole were supplied by the Soil and Water Conservation Research Division, Agricultural Research Service. Using census data as a partial basis for distribution, State groups estimated further breakdown by additional crops and distributed the quantities of fertilizer and plant nutrients for the State, usually by areas. They also estimated nonfarm use of each plant nutrient.

The tabulation by States (table 1) shows the quantity of fertilizer used on each crop for which an estimate was supplied by the State. Only 1954 data are included in table 1. In the estimates for permanent pasture, it was assumed that only the improved permanent pasture received fertilizer, and the acreage of improved permanent pasture was used as the divisor in calculating the percentage fertilized.

Some combinations of crops were made in the tabulation by regions and for the United States (table 2). The map on the inside front cover shows the States included in each region. Because of differences in source of material and methods used, the estimates for 1947 and 1950 are not strictly comparable with each other or with the estimates for 1954. The estimates for 1947 were based on an enumerative survey conducted by the former Bureau of Agricultural Economics, and covered only about 12,000 farms. ^{3/} The estimates for 1950, which were not published, were made by Agricultural Stabilization and Conservation Program State Committees (formerly Production and Marketing Administration State Committees). The 1947 and 1954 estimates reflect answers obtained from interviews with farmers.

^{2/} Use of Fertilizer and Lime, a cooperative report, U. S. Dept. of Commerce and U. S. Dept. of Agriculture, VIII pt. 10, 1956.

^{3/} Ibach, D. B., and Marx, R. E. Fertilizer and Lime Used on Crops and Pasture. U. S. Bur. Agr. Econ. F. M. 86, 31 pp. 1951. Other estimates of use of fertilizer by crops were made by the National Plant Food Institute (formerly National Fertilizer Association) in 1929, 1939, and 1944. These estimates were based on interviews with those farmers who used fertilizer. The 1944 estimates were not published.

Harvested acreage was used as the basis for calculating the percentages of crops fertilized in 1954. For 1947, harvested acreages were used for cotton, tobacco, large seeded legumes, vegetables, and "other" crops. For the remaining crops in 1947 and for all crops in 1950, the percentage fertilized was computed on a planted-acreage basis. Only improved permanent pasture was included in the base when the percentage fertilized for 1954 was estimated. For 1947, the base acreage for pasture was an estimate developed by the former Bureau of Agricultural Economics. It included plowable permanent pasture but excluded range in arid regions and woodland pasture. The base figure used for pasture in the 1950 estimates was unspecified; it may have differed for the different States. For 1947 and 1954, hay and cropland pasture were combined. The estimates for 1950 were separated as to hay or pasture, and the latter may have included some cropland pasture in some States. For 1950, the estimates designated as relating to hay were used to represent cropland hay and pasture.

For these, and perhaps other reasons, some of the data for the 3 years shown in table 2 may not be entirely comparable. This should be kept in mind when making comparisons.

For 1954, permanent pasture was not separated from hay and cropland pasture in some of the Pacific States. Therefore, the estimates of the United States acreage fertilized and the quantities of nutrients applied that relate to these separate land uses are totals of those in the other nine regions.

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
ALABAMA										
1: Intertilled crops	3,695,038	---	---	88	---	---	---	74,162	---	---
2: Corn	2,155,781	---	---	93	---	---	---	48,058	---	---
3: Sorghum	18,900	---	---	40	---	---	---	249	---	---
4: Cotton	1,135,797	---	---	98	---	---	---	20,832	---	---
5: Soybean	51,000	---	---	37	---	---	---	184	---	---
6: Cowpeas 1/	7,900	---	---	23	---	---	---	27	---	---
7: Peanuts	208,956	---	---	86	---	---	---	830	---	---
8: Fruits	16,200	---	---	24	---	---	---	296	---	---
9: Potatoes	20,096	---	---	98	---	---	---	673	---	---
10: Sweetpotatoes	1,800	---	---	18	---	---	---	18	---	---
11: Vegetables	78,608	---	---	50	---	---	---	2,995	---	---
12: Close-growing crops	149,800	---	---	74	---	---	---	2,874	---	---
13: Oats	144,800	---	---	84	---	---	---	2,794	---	---
14: Other small grain	5,000	---	---	18	---	---	---	80	---	---
15: Hay and pasture	931,457	---	---	31	---	---	---	1,876	---	---
16: Cropland	578,181	---	---	27	---	---	---	0	---	---
17: Permanent pasture	355,276	---	---	43	---	---	---	1,876	---	---
18: Crops and pasture	4,778,295	---	---	65	---	---	2/	78,912	---	---
19: Nonfarm use	---	---	---	---	---	---	---	1,722	---	---
ARIZONA										
20: Intertilled crops	---	---	621,040	---	---	90	98	---	---	24,084
21: Corn	---	---	14,755	---	---	100	54	---	---	418
22: Sorghum	---	---	132,818	---	---	100	99	---	---	3,760
23: Cotton	---	---	383,530	---	---	88	100	---	---	16,600
24: Fruits	---	---	37,372	---	---	67	93	---	---	754
25: Potatoes	---	---	3,458	---	---	67	100	---	---	132
26: Vegetables	---	---	69,177	---	---	67	98	---	---	2,420
27: Close-growing crops	---	---	267,307	---	---	100	98	---	---	8,949
28: Wheat	---	---	7,347	---	---	100	65	---	---	220
29: Oats	---	---	5,242	---	---	100	72	---	---	157
30: Barley	---	---	252,358	---	---	100	100	---	---	7,600
31: Flaxseed	---	---	2,660	---	---	100	100	---	---	72
32: Hay and pasture	---	---	117,418	---	---	33	65	---	---	357
33: Cropland	---	---	82,463	---	---	20	64	---	---	155
34: Permanent pasture	---	---	2,351	---	---	100	59	---	---	4
35: Bermuda grass	---	---	5,208	---	---	---	100	---	---	147
36: Alfalfa seed	---	---	27,356	---	---	100	100	---	---	51
37: Crops and pasture	---	---	1,005,765	---	---	67	86	---	---	32,490
38: Nonfarm use	---	---	---	---	---	---	---	---	---	---
ARKANSAS										
39: Intertilled crops	2,247,718	2,102,013	145,705	61	59	99	1	38,532	38,029	503
40: Corn	365,068	340,208	4,860	51	51	89	1	6,206	6,072	134
41: Sorghum	48,777	47,577	1,200	43	43	73	1	236	225	11
42: Cotton	1,553,948	1,476,948	77,000	92	91	100	5	30,158	29,863	295
43: Soybeans	100,262	100,262	60,000	10	14	99	6	11	11	0
44: Peanuts	4,021	4,021	0	61	61	0	0	20	20	0
45: Potatoes	1,500	1,500	0	25	25	0	0	41	41	0
46: Sweetpotatoes	3,714	3,714	0	100	100	0	0	23	23	0

See footnotes at end of table.

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N			
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		Percent	All land	Non-irrigated land	Irrigated land
									Tons	Tons	Tons
ARKANSAS - Cont.											
1: Vegetables-----	63,428	61,258	2,170	59	58	91	2	1,516	1,463	53	
2: Fruits-----	17,000	16,525	475	35	35	77	1	321	311	10	
3: Close-growing crops-----	654,313	257,493	396,820	59	60	58	61	11,903	3,072	8,831	
4: Oats-----	208,279	201,879	6,400	60	59	87	2	2,519	2,413	106	
5: Rice-----	389,920	0	389,920	58	0	58	100	8,718	0	8,718	
6: Other small grain-----	56,114	55,614	500	60	60	58	1	666	659	7	
7: Hay and pasture-----	419,168	397,218	21,950	12	12	95	1	1,023	880	143	
8: Cropland-----	324,000	317,050	6,950	10	10	85	2	243	236	7	
9: Lespedeza seed-----	7,979	3,979	4,000	28	21	41	34	0	0	0	
10: Permanent pasture-----	95,168	80,168	15,000	26	23	10	4	780	644	136	
11: Crops and pasture-----	3,329,178	2,760,703	568,475	39	36	66	10	51,458	41,981	9,477	
12: Nonfarm use-----	---	---	---	---	---	---	---	644	---	---	
CALIFORNIA											
13: Intertilled crops-----	2,534,606	0	2,534,606	69	0	73	95	102,676	0	102,676	
14: Corn-----	127,223	0	127,223	89	0	89	100	4,023	0	4,023	
15: Sorghum-----	84,977	0	84,977	63	0	63	100	1,905	0	1,905	
16: Cotton-----	745,706	0	745,706	85	0	85	100	30,351	0	30,351	
17: Dry beans-----	16,353	0	16,353	10	0	10	100	341	0	341	
18: Fruits-----	706,716	0	706,716	53	2	62	86	36,022	0	36,022	
19: Potatoes-----	90,845	0	90,845	97	0	97	100	5,670	0	5,670	
20: Vegetables-----	468,493	0	468,493	80	0	80	100	11,672	0	11,672	
21: Lima beans-----	86,864	0	86,864	74	0	74	100	2,703	0	2,703	
22: Sugar beets-----	207,429	0	207,429	97	0	97	100	9,989	0	9,989	
23: Close-growing crops-----	1,148,520	359,382	789,138	38	22	56	47	23,094	5,425	17,669	
24: Wheat-----	99,345	59,161	40,184	22	16	40	21	1,831	970	861	
25: Barley-----	586,956	260,182	326,774	32	24	43	17	11,733	3,911	7,822	
26: Oats-----	45,115	34,373	10,742	26	24	36	41	635	403	232	
27: Rice-----	376,019	0	376,019	79	0	79	100	7,640	0	7,640	
28: Flaxseed-----	41,085	5,666	35,419	100	100	100	86	1,255	141	1,114	
29: Hay and pasture-----	510,591	88,625	421,966	10	3	19	42	7,483	195	7,288	
30: Cropland-----	421,966	0	421,966	9	0	19	47	7,288	0	7,288	
31: Permanent pasture-----	88,625	88,625	0	14	14	0	0	195	195	0	
32: Unspecified-----	33,457	33,457	0	70	70	0	0	507	507	0	
33: Crops and pasture-----	4,227,174	481,464	3,745,710	35	10	53	59	133,760	6,127	127,633	
34: Nonfarm use-----	---	---	---	---	---	---	---	39,241	---	---	
COLORADO											
35: Intertilled crops-----	237,735	16,992	220,743	40	8	56	64	5,305	218	5,087	
36: Corn-----	90,609	16,992	73,617	23	8	40	47	2,572	218	2,354	
37: Sugar beets-----	96,957	0	96,957	86	0	87	98	1,662	0	1,662	
38: Potatoes 3/-----	50,169	0	50,169	47	0	52	90	1,071	0	1,071	
39: Other crops-----	97,395	46,717	45,678	3	2	9	15	1,340	622	718	
40: Hay and pasture-----	90,297	0	90,297	3	0	7	49	360	0	360	
41: Cropland-----	81,014	0	81,014	3	0	8	42	282	0	282	
42: Permanent pasture-----	9,283	0	9,283	2	0	2	77	78	0	78	
43: Crops and pasture-----	420,427	63,709	356,718	6	1	16	34	7,005	840	6,165	

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1,490	1,443	47	750	726	24	18	18	49	47	47	43	24	24	22
299	291	8	154	149	5	38	38	42	35	35	33	18	18	21
2,401	1,602	799	7,686	1,197	6,489	36	24	45	7	12	4	23	9	33
1,269	1,228	41	973	935	38	24	24	33	12	12	13	9	9	12
735	0	735	6,428	0	6,428	45	0	45	4	0	4	33	0	33
365	362	3	253	250	3	24	24	28	13	13	12	9	9	12
2,650	2,525	125	2,419	2,294	125	5	4	13	13	12	11	12	12	11
1,620	1,573	47	1,620	1,573	47	2	1	2	10	10	14	10	10	14
32	12	20	32	12	20	0	0	0	8	6	10	8	6	10
1,030	952	78	799	721	78	16	16	18	22	24	10	17	18	10
27,103	25,553	1,550	40,774	33,456	7,318	31	30	33	16	19	5	24	24	26
407	---	---	271	---	---	---	---	---	---	---	---	---	---	---
32,214	0	32,214	11,326	0	11,326	81	0	81	25	0	25	9	0	9
715	0	715	66	0	66	63	0	63	11	0	11	1	0	1
514	0	514	397	0	397	45	0	45	12	0	12	9	0	9
6,101	0	6,101	214	0	214	81	0	81	16	0	16	1	0	1
417	0	417	38	0	38	42	0	42	51	0	51	5	0	5
5,654	0	5,654	5,529	0	5,529	102	41	104	16	6	16	15	3	16
1,875	0	1,875	576	0	576	125	0	125	41	0	41	13	0	13
10,328	0	10,328	3,398	0	3,398	50	0	50	44	0	44	14	0	14
1,724	0	1,724	586	0	586	62	0	62	40	0	40	13	0	13
4,886	0	4,886	522	0	522	96	0	96	47	0	47	5	0	5
5,231	3,070	2,161	231	165	66	40	30	45	9	17	5	2/	1	2/
755	619	136	25	22	3	37	33	43	15	21	7	1	1	2/
3,185	2,100	1,085	192	133	59	40	30	48	11	16	7	1	1	2/
356	332	24	14	10	4	28	23	43	16	19	4	1	1	1
80	0	80	0	0	0	41	0	41	2/	0	2/	0	0	0
855	19	836	0	0	0	61	50	63	42	7	47	0	0	0
24,116	2,196	21,920	3,922	0	3,922	29	4	35	94	50	103	14	0	19
21,920	0	21,920	3,922	0	3,922	35	0	35	103	0	103	19	0	19
2,196	2,196	0	0	0	0	4	4	0	50	50	0	0	0	0
335	335	0	0	0	0	30	30	0	20	20	0	0	0	0
61,896	5,601	56,295	15,479	165	15,314	63	25	68	29	23	30	7	1	8
3,821	---	---	4,818	---	---	---	---	---	---	---	---	---	---	---
6,924	0	6,924	607	0	607	45	26	46	58	0	63	5	0	5
240	0	240	0	0	0	57	26	64	5	0	7	0	0	0
4,460	0	4,460	77	0	77	34	0	34	92	0	92	2	0	2
2,224	0	2,224	530	0	530	43	0	43	89	0	89	21	0	21
1,361	20	1,341	73	0	73	29	27	31	29	2/	59	2	0	3
3,434	0	3,434	0	0	0	8	0	8	76	0	76	0	0	0
3,280	0	3,280	0	0	0	7	0	7	81	0	81	0	0	0
154	0	154	0	0	0	17	0	17	33	0	33	0	0	0
11,719	20	11,699	680	0	680	33	26	35	56	1	66	3	0	4

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Per-cent	Tons	Tons	Tons
COLORADO - Cont.										
1: Nonfarm use-----	---	---	---	---	---	---	---	36	---	---
CONNECTICUT										
2: Intertilled crops---	63,611	---	---	74	---	---	---	3,298	---	---
3: Corn-----	26,276	---	---	79	---	---	---	289	---	---
4: Tobacco-----	14,334	7,884	6,450	100	100	100	49	1,777	977	800
5: Fruits-----	6,817	---	---	50	---	---	---	164	---	---
6: Vegetables-----	9,892	---	---	54	---	---	---	596	---	---
7: Potatoes-----	6,292	3,702	2,590	100	100	100	40	472	277	195
8: Close-growing crops---	4,421	---	---	100	---	---	---	119	---	---
9: Hay and pasture-----	84,068	---	---	24	---	---	---	951	---	---
10: Cropland-----	74,984	---	---	23	---	---	---	851	---	---
11: Permanent pasture---	9,084	---	---	47	---	---	---	100	---	---
12: Crops and pasture---	152,090	---	---	35	---	---	3	4,368	---	---
13: Nonfarm use-----	---	---	---	---	---	---	---	742	---	---
DELAWARE										
14: Intertilled crops---	239,270	234,017	5,253	76	76	100	2	4,549	4,325	224
15: Corn-----	149,319	149,219	100	88	88	100	2/	3,105	3,103	2
16: Soybeans-----	37,137	37,137	0	43	43	0	0	179	179	0
17: Potatoes-----	7,500	4,000	3,500	100	100	100	47	295	128	167
18: Sweetpotatoes-----	398	398	0	100	100	0	0	12	12	0
19: Fruits-----	1,796	1,796	0	79	79	0	0	68	68	0
20: Vegetables-----	43,120	41,467	1,653	88	88	100	3	890	835	55
21: Close-growing crops---	56,350	56,350	0	82	82	0	0	980	980	0
22: Wheat-----	29,695	29,695	0	90	90	0	0	516	516	0
23: Oats-----	8,914	8,914	0	90	90	0	0	123	123	0
24: Barley-----	10,859	10,859	0	90	90	0	0	172	172	0
25: Rye-----	6,704	6,704	0	49	49	0	0	166	166	0
26: Buckwheat-----	142	142	0	48	48	0	0	2	2	0
27: Other small grain---	36	36	0	88	88	0	0	1	1	0
28: Hay and pasture-----	37,731	37,431	300	29	29	100	100	224	220	4
29: Cropland-----	31,343	31,043	300	26	26	100	2/	191	187	4
30: Red clover seed---	290	290	0	20	20	0	0	0	0	0
31: Lespedeza seed---	316	316	0	10	10	0	0	0	0	0
32: Permanent pasture---	5,782	5,782	0	100	100	0	0	33	33	0
33: Crops and pasture---	333,351	327,798	5,553	66	66	100	1	5,753	5,525	228
34: Nonfarm use-----	---	---	---	---	---	---	---	47	---	---
FLORIDA										
35: Intertilled crops---	1,647,349	1,129,043	518,306	88	83	100	28	59,571	36,302	23,269
36: Corn-----	373,402	369,128	4,274	70	70	100	1	7,264	7,100	164
37: Cotton-----	34,146	34,146	0	100	100	0	0	845	845	0
38: Tobacco-----	25,145	15,933	9,212	100	100	100	37	845	328	517
39: Sugarcane-----	43,053	0	43,053	100	0	100	100	224	0	224
40: Soybeans-----	18,000	18,000	0	100	100	0	0	180	180	0
41: Peanuts-----	59,985	59,985	0	50	50	0	0	179	179	0
42: Potatoes-----	31,845	17,199	14,646	100	100	100	46	1,747	889	858
43: Vegetables-----	406,296	227,243	179,053	100	100	100	44	14,832	7,268	7,564

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated	Irrigated	All land	Non-irrigated	Irrigated	All land	Non-irrigated	Irrigated	All land	Non-irrigated	Irrigated	All land	Non-irrigated	Irrigated
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
27	---	---	27	---	---	---	---	---	---	---	---	---	---	---
3,449	---	---	3,332	---	---	104	---	---	108	---	---	105	---	---
1,090	---	---	565	---	---	22	---	---	83	---	---	43	---	---
1,104	607	497	1,512	832	680	248	248	248	154	154	154	211	211	211
31	---	---	31	---	---	48	---	---	9	---	---	9	---	---
596	---	---	596	---	---	120	---	---	120	---	---	120	---	---
628	369	259	628	369	259	150	150	150	200	199	200	200	199	200
77	---	---	64	---	---	54	54	0	35	35	0	29	29	0
3,626	---	---	3,901	---	---	23	---	---	86	---	---	93	---	---
3,376	---	---	3,651	---	---	23	---	---	90	---	---	97	---	---
250	---	---	250	---	---	22	---	---	55	---	---	55	---	---
7,152	---	---	7,297	---	---	57	---	---	94	---	---	96	---	---
242	---	---	255	---	---	---	---	---	---	---	---	---	---	---
7,524	7,072	449	7,662	7,204	458	38	38	85	63	60	171	64	62	174
3,663	3,661	3	3,663	3,661	3	42	42	10	49	49	50	49	49	50
1,390	1,390	0	1,390	1,390	0	10	10	0	75	75	0	75	75	0
590	256	334	590	256	334	79	64	95	157	128	191	157	128	191
24	24	0	36	36	0	60	60	0	120	120	0	181	181	0
34	34	0	34	34	0	76	76	0	38	38	0	38	38	0
1,822	1,710	112	1,948	1,827	121	41	40	67	85	82	136	90	88	146
1,325	1,325	0	1,325	1,325	0	35	35	0	47	47	0	47	47	0
738	738	0	738	738	0	35	35	0	50	50	0	50	50	0
176	176	0	176	176	0	28	28	0	39	39	0	39	39	0
237	237	0	237	237	0	32	32	0	44	44	0	44	44	0
166	166	0	166	166	0	50	50	0	50	50	0	50	50	0
4	4	0	4	4	0	28	28	0	56	56	0	56	56	0
4	4	0	4	4	0	56	56	0	222	222	0	222	222	0
1,138	1,130	8	1,138	1,130	8	12	12	27	60	60	53	60	60	53
892	884	8	892	884	8	12	12	27	57	57	53	57	57	53
8	8	0	8	8	0	0	0	0	55	55	0	55	55	0
9	9	0	9	9	0	0	0	0	57	57	0	57	57	0
229	229	0	229	229	0	11	11	0	79	79	0	79	79	0
9,987	9,530	457	10,125	9,659	466	35	34	82	60	58	164	61	59	167
95	---	---	95	---	---	---	---	---	---	---	---	---	---	---
55,823	32,190	23,633	70,642	38,232	32,410	72	64	90	68	57	91	86	68	125
6,054	5,917	137	4,238	4,142	96	39	38	77	32	32	64	23	22	45
1,268	1,268	0	1,268	1,268	0	50	50	0	74	74	0	74	74	0
1,585	984	601	2,239	1,311	928	67	41	112	126	124	130	178	165	201
336	0	336	3,111	0	3,111	10	0	10	16	0	16	145	0	145
450	450	0	450	450	0	20	20	0	50	50	0	50	50	0
719	719	0	719	719	0	6	6	0	24	24	0	24	24	0
2,653	1,417	1,236	2,522	1,298	1,224	110	103	117	167	165	169	156	151	167
24,048	10,876	13,172	26,062	11,521	14,541	73	64	84	118	96	147	128	101	162

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
FLORIDA - Cont.										
1: Fruits-----	655,477	387,409	268,068	98	97	100	40	33,455	19,513	13,942
2: Close-growing crops--	32,490	32,490	0	100	100	0	0	555	555	0
3: Hay and pasture-----	799,719	667,607	132,112	40	36	100	7	11,021	8,575	2,446
4: Cropland-----	220,154	216,099	4,055	23	23	100	2/	3,373	3,259	114
5: Permanent pasture--	579,565	451,508	128,057	55	48	100	12	7,648	5,316	2,332
6: Unspecified-----	13,178	13,178	0	19	19	0	0	127	127	0
7: Crops and pasture-----	2,492,736	1,842,318	650,418	63	55	100	16	71,274	45,559	25,715
8: Nonfarm use-----	---	---	---	---	---	---	---	4/	---	---
GEORGIA										
9: Intertilled crops-----	4,564,327	---	---	89	---	---	2/	65,357	---	---
10: Corn-----	2,696,391	---	---	98	---	---	2/	33,243	---	---
11: Sorghum-----	22,039	22,039	0	53	53	0	0	426	426	0
12: Cotton-----	992,930	---	---	99	---	---	---	19,684	---	---
13: Tobacco-----	81,863	---	---	80	---	---	2/	1,898	---	---
14: Soybeans-----	52,804	52,804	0	60	60	0	0	297	297	0
15: Cowpeas 1/-----	75,805	---	---	58	---	---	---	232	---	---
16: Peanuts-----	382,499	---	---	70	---	---	2/	2,304	---	---
17: Fruits-----	53,608	---	---	28	---	---	2/	529	---	---
18: Potatoes-----	1,451	1,451	0	63	63	0	0	29	29	0
19: Sweetpotatoes-----	8,614	8,614	0	60	60	0	0	357	357	0
20: Vegetables-----	196,323	---	---	77	---	---	2/	6,358	---	---
21: Close-growing crops--	410,797	410,797	0	64	64	0	2/	7,834	7,834	0
22: Wheat-----	81,556	81,556	0	72	72	0	0	1,525	1,525	0
23: Oats-----	315,891	315,891	0	62	62	0	0	5,939	5,939	0
24: Barley-----	5,367	5,367	0	61	61	0	0	209	209	0
25: Other small grain--	7,983	7,983	0	60	60	0	0	161	161	0
26: Hay and pasture-----	1,250,812	---	---	48	---	---	2/	12,482	---	---
27: Cropland-----	695,426	695,426	0	39	39	0	0	5,678	5,678	0
28: Permanent pasture--	555,386	---	---	69	---	---	1	6,804	---	---
29: Crops and pasture-----	6,225,936	---	---	74	---	---	2/	85,673	---	---
30: Nonfarm use-----	---	---	---	---	---	---	---	2,829	---	---
IDAHO										
31: Intertilled crops-----	248,569	40	248,529	42	2/	51	83	6,576	1	6,575
32: Corn-----	21,126	0	21,126	48	0	48	99	607	0	607
33: Dry beans-----	14,017	0	14,017	9	0	10	95	133	0	133
34: Dry peas-----	10,047	0	10,047	10	0	18	20	0	0	0
35: Sugar beets-----	77,853	0	77,853	91	0	91	100	2,447	0	2,447
36: Fruits-----	8,324	0	8,324	58	0	60	97	312	0	312
37: Potatoes-----	92,727	40	92,687	62	2	63	10	2,106	1	2,105
38: Vegetables-----	16,892	0	16,892	42	0	59	71	709	0	709
39: Hops-----	835	0	835	100	0	100	100	40	0	40
40: Vegetable seeds--	6,748	0	6,748	97	0	97	100	222	0	222
41: Close-growing crops--	437,375	228,161	209,214	22	16	42	25	4,399	2,557	1,842
42: Wheat-----	274,239	140,252	133,987	24	15	69	17	2,879	1,580	1,299
43: Oats-----	39,992	20,332	17,660	23	20	28	40	383	218	165
44: Barley-----	111,840	66,950	44,890	21	37	28	30	1,043	751	292
45: Other small grain--	11,304	627	10,677	11	3	14	77	94	8	86

See footnotes at end of table.

plant nutrients applied									Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O					
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land			
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds			
18,710	10,559	8,151	30,033	17,523	12,510	102	101	104	57	55	60	92	90	93			
555	555	0	555	555	0	34	34	0	34	34	0	34	34	0			
11,021	8,575	2,446	11,021	8,575	2,446	28	26	37	28	26	37	28	26	37			
3,373	3,259	114	3,373	3,259	114	31	30	56	31	30	56	31	30	56			
7,648	5,316	2,332	7,648	5,316	2,332	26	24	36	26	24	36	26	24	36			
236	236	0	236	236	0	19	19	0	36	36	0	36	36	0			
67,635	41,556	26,079	82,454	47,598	34,856	57	49	79	54	45	80	66	51	107			
4/	---	---	4/	---	---	---	---	---	---	---	---	---	---	---			
77,803	---	---	77,350	---	---	29	---	---	34	---	---	34	---	---			
31,236	---	---	29,868	---	---	25	---	---	23	---	---	22	---	---			
480	480	0	451	451	0	39	39	0	44	44	0	40	40	0			
22,461	---	---	24,009	---	---	40	---	---	45	---	---	48	---	---			
5,958	---	---	6,574	---	---	46	46	0	45	---	---	161	---	---			
899	899	0	856	856	0	11	11	0	34	34	0	32	32	0			
566	---	---	531	---	---	6	---	---	15	---	---	14	---	---			
7,873	---	---	7,347	---	---	12	---	---	41	---	---	38	---	---			
781	---	---	588	---	---	20	---	---	29	---	---	22	---	---			
36	36	0	34	34	0	40	40	0	50	50	0	47	47	0			
399	399	0	382	382	0	83	83	0	93	93	0	89	89	0			
7,114	---	---	6,710	---	---	65	---	---	72	---	---	68	---	---			
7,010	7,010	0	6,430	6,430	0	38	38	0	34	34	0	31	31	0			
1,373	1,373	0	1,299	1,299	0	37	37	0	34	34	0	32	32	0			
5,319	5,319	0	4,837	4,837	0	38	38	0	34	34	0	31	31	0			
175	175	0	160	160	0	78	78	0	65	65	0	60	60	0			
143	143	0	134	134	0	40	40	0	36	36	0	34	34	0			
22,379	---	---	19,368	---	---	20	---	---	36	---	---	31	---	---			
13,819	13,819	0	11,197	11,197	---	16	16	0	40	40	0	32	32	0			
8,560	---	---	8,171	---	---	25	---	---	31	---	---	29	---	---			
107,192	---	---	103,148	---	---	28	---	---	34	---	---	33	---	---			
3,230	---	---	3,230	---	---	---	---	---	---	---	---	---	---	---			
6,223	1	6,222	92	0	92	53	50	53	50	50	50	2/	0	2/			
360	0	360	0	0	0	58	0	58	34	0	34	0	0	0			
155	0	155	0	0	0	19	0	19	22	0	22	0	0	0			
297	0	297	0	0	0	0	0	0	59	0	59	0	0	0			
2,537	0	2,537	5	0	5	63	0	63	65	0	65	2/	0	2/			
46	0	46	5	0	5	75	0	75	11	0	11	1	0	1			
1,946	1	1,945	55	0	55	46	50	46	42	50	42	1	0	1			
654	0	654	27	0	27	84	0	84	78	0	78	3	0	3			
24	0	24	0	0	0	96	0	96	57	0	57	0	0	0			
204	0	204	0	0	0	66	0	66	60	0	60	0	0	0			
3,499	157	3,342	84	84	0	20	22	18	16	1	32	0	0	0			
2,156	117	2,039	64	64	0	21	23	19	16	2	30	2/	1	2/			
351	27	324	14	14	0	19	21	17	17	3	33	1	1	0			
803	13	790	6	6	0	19	22	13	14	2/	35	2/	2/	0			
189	0	189	0	0	0	17	26	16	33	0	35	0	0	0			

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
IDAHO - Cont.										
1: Hay and pasture	249,067	16,842	232,225	11	2	19	57	1,444	129	1,285
2: Cropland	218,976	15,635	203,341	14	2	18	65	1,279	120	1,159
3: Legume seeds	5,945	0	5,945	25	0	37	65	0	0	0
4: Permanent pasture	24,146	1,207	22,939	10				135	9	126
5: Crops and pasture	935,011	245,043	689,968	21	11	31	50	12,389	2,687	9,702
6: Nonfarm use								105		
ILLINOIS										
7: Intertilled crops	5,589,574	5,582,825	6,749	42	42	100	2/	66,972	66,756	216
8: Corn	5,207,391	5,204,561	2,830	58	58	100	2/	64,312	64,232	80
9: Tobacco	18	18	0	100	100	0	0	1	1	0
10: Soybeans	259,645	259,405	240	6	6	100	2/	159	158	1
11: Fruits	16,837	16,238	599	44	43	100	2/	343	322	21
12: Potatoes	810	810	0	52	52	0	0	15	15	0
13: Sweetpotatoes	357	357	0	61	61	0	0	6	6	0
14: Vegetables	84,536	81,456	3,080	51	50	100	2	1,885	1,771	114
15: Popcorn	19,980	19,980	0	80	80	0	0	251	251	0
16: Close-growing crops	1,844,995	1,844,995	0	39	39	0	0	11,337	11,337	0
17: Wheat	1,079,009	1,079,009	0	71	71	0	0	6,573	6,573	0
18: Oats	718,929	718,929	0	23	23	0	0	4,510	4,510	0
19: Barley	26,680	26,680	0	39	39	0	0	185	185	0
20: Rye	20,377	20,377	0	19	19	0	0	69	69	0
21: Hay and pasture	484,657	484,617	40	9	9	100	2/	3,857	3,857	0
22: Cropland	408,867	408,827	40	8	8	100	2/	2,711	2,711	0
23: Permanent pasture	75,790	75,790	0	34	34	0	0	1,146	1,146	0
24: Crops and pasture	7,919,226	7,912,437	6,789	34	34	100	2/	82,166	81,950	216
25: Nonfarm use								2,343		
INDIANA										
26: Intertilled crops	5,359,268			78				50,690		
27: Corn	4,452,012			93				48,486		
28: Tobacco	9,219			99				665		
29: Soybeans	793,402			41				0		
30: Fruits	11,743			41				335		
31: Potatoes	5,506			74				112		
32: Sweetpotatoes	159			45				2		
33: Vegetables	62,433			51				889		
34: Popcorn	24,794			86				201		
35: Close-growing crops	2,117,497			78				21,047		
36: Wheat	1,188,709			92				11,855		
37: Oats	887,661			72				5,876		
38: Barley	29,017			55				265		
39: Rye	10,564			9				43		
40: Other small grain	1,546			36				8		
41: Hay and pasture	567,589			15				2,768		
42: Cropland	473,169			13				2,137		
43: Permanent pasture	94,420			65				631		
44: Crops and pasture	8,044,354			60			2/	74,505		
45: Nonfarm use								2,286		

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
5,209	145	5,064	0	0	0	11	15	11	42	17	44	0	0	0
4,522	135	4,387	0	0	0	12	15	11	41	17	43	0	0	0
184	0	184	0	0	0	0	0	0	62	0	62	0	0	0
503	10	493	0	0	0	11	15	11	42	17	43	0	0	0
14,931	303	14,628	176	84	92	27	22	28	32	2	42	2	1	2
65	---	---	15	---	---	---	---	---	---	---	---	---	---	---
58,523	58,316	207	77,729	77,476	253	24	24	64	21	21	61	28	28	75
48,403	48,346	57	65,342	65,269	73	25	25	57	19	19	40	25	25	52
2	2	0	1	1	0	133	133	0	189	189	0	133	133	0
7,567	7,559	8	9,275	9,265	10	1	1	8	58	58	67	71	71	83
360	338	22	440	416	24	41	40	70	43	42	73	52	51	80
18	18	0	19	19	0	37	37	0	44	44	0	47	47	0
7	7	0	7	7	0	35	35	0	38	38	0	38	38	0
1,980	1,860	120	2,427	2,281	146	45	43	74	47	46	78	57	56	95
186	186	0	218	218	0	25	25	0	19	19	0	22	22	0
51,810	51,810	0	57,359	57,359	0	12	12	0	56	56	0	62	62	0
29,786	29,786	0	30,391	30,391	0	12	12	0	55	55	0	56	56	0
20,996	20,996	0	25,710	25,710	0	13	13	0	58	58	0	72	72	0
587	587	0	718	718	0	14	14	0	44	44	0	54	54	0
441	441	0	540	540	0	7	7	0	43	43	0	53	53	0
13,776	13,774	2	16,867	16,865	2	16	16	0	58	58	100	70	70	100
11,790	11,788	2	14,436	14,434	2	13	13	0	58	58	100	71	71	100
1,986	1,986	0	2,431	2,431	0	30	30	0	52	52	0	64	64	0
124,109	123,900	209	151,955	151,700	255	21	21	64	31	31	61	38	38	75
3,634	---	---	4,497	---	---	---	---	---	---	---	---	---	---	---
97,406	---	---	110,314	---	---	19	---	---	36	---	---	41	---	---
84,047	---	---	94,563	---	---	22	---	---	38	---	---	42	---	---
854	---	---	925	---	---	144	---	---	185	---	---	201	---	---
9,533	---	---	10,329	---	---	2	---	---	24	---	---	26	---	---
36	---	---	32	---	---	57	---	---	6	---	---	5	---	---
243	---	---	718	---	---	41	---	---	88	---	---	261	---	---
3	---	---	3	---	---	25	---	---	38	---	---	38	---	---
2,110	---	---	3,151	---	---	28	---	---	68	---	---	101	---	---
580	---	---	593	---	---	16	---	---	47	---	---	48	---	---
38,785	---	---	40,493	---	---	20	---	---	37	---	---	38	---	---
20,376	---	---	21,736	---	---	25	---	---	34	---	---	37	---	---
17,609	---	---	17,909	---	---	13	---	---	40	---	---	40	---	---
656	---	---	694	---	---	18	---	---	45	---	---	48	---	---
120	---	---	130	---	---	8	---	---	23	---	---	25	---	---
24	---	---	24	---	---	100	---	---	31	---	---	31	---	---
11,880	---	---	11,616	---	---	10	---	---	42	---	---	41	---	---
10,055	---	---	9,838	---	---	9	---	---	43	---	---	42	---	---
1,825	---	---	1,778	---	---	13	---	---	39	---	---	38	---	---
148,071	---	---	162,423	---	---	19	---	---	37	---	---	40	---	---
3,981	---	---	3,515	---	---	---	---	---	---	---	---	---	---	---

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
IOWA										
1: Intertilled crops	5,020,466	---	---	40	---	---	---	63,075	---	---
2: Corn	4,838,327	---	---	47	---	---	---	62,411	---	---
3: Soybeans	150,000	---	---	7	---	---	---	355	---	---
4: Fruits	1,586	---	---	14	---	---	---	10	---	---
5: Potatoes	638	---	---	20	---	---	---	1	---	---
6: Sweetpotatoes	418	---	---	100	---	---	---	2	---	---
7: Vegetables	15,690	---	---	16	---	---	---	118	---	---
8: Popcorn	13,807	---	---	47	---	---	---	178	---	---
9: Close-growing crops	1,518,609	---	---	24	---	---	---	11,148	---	---
10: Wheat	45,736	---	---	43	---	---	---	668	---	---
11: Oats	1,457,804	---	---	25	---	---	---	10,398	---	---
12: Barley	5,705	---	---	25	---	---	---	31	---	---
13: Rye	1,722	---	---	20	---	---	---	5	---	---
14: Other small grain	7,642	---	---	25	---	---	---	46	---	---
15: Hay and pasture	530,090	---	---	7	---	---	---	628	---	---
16: Cropland	467,570	---	---	7	---	---	---	467	---	---
17: Permanent pasture	62,520	---	---	22	---	---	---	161	---	---
18: Crops and pasture	7,069,165	---	---	27	---	---	2/	74,851	---	---
19: Nonfarm use	---	---	---	---	---	---	---	456	---	---
KANSAS										
20: Intertilled crops	932,239	897,918	34,321	12	12	21	2	8,662	7,847	815
21: Corn	564,114	557,378	6,736	28	28	31	1	5,516	5,407	109
22: Sorghum	328,209	307,028	21,181	6	6	16	2	2,381	2,128	253
23: Soybeans	18,711	18,711	0	6	6	0	0	124	124	0
24: Sugar beets	5,984	0	5,984	100	0	100	100	439	0	439
25: Fruits	3,828	3,828	0	46	46	0	0	48	48	0
26: Potatoes	836	836	0	65	66	0	0	14	14	0
27: Vegetables	10,557	10,137	420	59	59	57	4	140	126	14
28: Close-growing crops	2,627,499	2,621,357	6,142	24	24	18	2/	20,808	20,682	126
29: Wheat	1,990,372	1,984,230	6,142	21	21	18	2/	15,720	15,594	126
30: Oats	498,202	498,202	0	49	49	0	0	4,123	4,123	0
31: Barley	123,218	123,218	0	29	29	0	0	846	846	0
32: Rye	12,169	12,169	0	15	15	0	0	92	92	0
33: Other small grain	3,538	3,538	0	6	6	0	0	27	27	0
34: Hay and pasture	300,440	293,892	6,548	7	7	5	3	3,361	3,266	95
35: Cropland	247,481	240,933	6,548	6	6	4	4	2,773	2,678	95
36: Permanent pasture	52,959	52,959	0	14	14	0	0	588	588	0
37: Crops and pasture	3,860,178	3,813,167	47,011	17	17	14	1	32,831	31,795	1,036
38: Nonfarm use	---	---	---	---	---	---	---	292	---	---
KENTUCKY										
39: Intertilled crops	1,917,608	1,917,608	0	73	73	0	0	23,296	23,296	0
40: Corn	1,550,674	1,550,674	0	79	79	0	0	11,929	11,929	0
41: Sorghum	9,543	9,543	0	30	30	0	0	115	115	0
42: Cotton	7,156	7,156	0	75	75	0	0	65	65	0
43: Tobacco	271,127	271,127	0	98	98	0	0	10,701	10,701	0
44: Soybeans	48,000	48,000	0	23	23	0	0	24	24	0
45: Fruits	7,281	7,281	0	35	35	0	0	66	66	0
46: Potatoes	999	999	0	15	15	0	0	22	22	0
47: Sweetpotatoes	1,084	1,084	0	87	87	0	0	22	22	0

See footnotes at end of table.

plant nutrients, by crops and States, 1954

plant nutrients applied						Average rate per acre fertilized									
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O			
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
56,361			39,780			25			24			16			1
54,129			38,591			26			22			16			2
1,800			907			5			24			12			3
20			10			13			25			13			4
14			27			3			44			85			5
8			17			10			38			81			6
236			118			15			30			15			7
154			110			26			22			16			8
34,149			4,313			15			45			6			9
971			67			29			42			3			10
32,935			4,213			14			45			6			11
99			13			11			35			5			12
20			2			6			23			2			13
124			18			12			32			5			14
11,037			1,878			2			41			7			15
9,654			1,628			2			41			7			16
1,383			250			5			44			8			17
101,547			45,971			21			29			13			18
120			40												19
10,153	9,847	306	793	783	10	19	17	47	23	22	18	2	2	1	20
6,616	6,491	125	588	581	7	20	19	33	23	23	37	2	2	2	21
3,004	2,889	115	138	137	1	14	14	24	18	19	11	1	1	2	22
240	240	0	46	46	0	13	13	0	26	26	0	5	5	0	23
51	0	51	1	0	1	147	0	147	17	0	17	2	0	2	24
53	53	0	4	4	0	25	25	0	28	28	0	2	2	0	25
16	16	0	1	1	0	33	33	0	37	37	0	3	3	0	26
173	158	15	15	14	1	27	25	65	33	31	70	3	3	5	27
28,746	28,700	46	2,362	2,361	1	16	16	41	22	22	15	2	2	2	28
21,132	21,086	46	1,459	1,458	1	16	16	41	21	21	15	2	1	2	29
5,986	5,986	0	682	682	0	17	17	0	24	24	0	3	3	0	30
1,451	1,451	0	201	201	0	13	13	0	24	24	0	3	3	0	31
140	140	0	16	16	0	15	15	0	23	23	0	3	3	0	32
37	37	0	4	4	0	15	15	0	21	21	0	2	2	0	33
4,439	4,332	107	383	381	2	22	23	29	30	29	33	3	3	1	34
3,662	3,555	107	304	302	2	22	22	29	30	30	33	3	3	1	35
777	777	0	79	79	0	22	22	0	29	29	0	3	3	0	36
43,338	42,879	459	3,538	3,525	13	17	17	44	22	22	20	2	2	1	37
360			30												38
48,706	48,706	0	42,997	42,997	0	24	24	0	51	51	0	45	45	0	39
25,911	25,911	0	21,197	21,197	0	15	15	0	33	33	0	27	27	0	40
144	144	0	113	113	0	24	24	0	30	30	0	24	24	0	41
141	141	0	110	110	0	18	18	0	40	40	0	31	31	0	42
20,820	20,820	0	20,162	20,162	0	79	79	0	153	153	0	149	149	0	43
720	720	0	590	590	0	1	1	0	30	30	0	25	25	0	44
138	138	0	118	118	0	18	18	0	38	38	0	32	32	0	45
46	46	0	40	40	0	40	40	0	92	92	0	80	80	0	46
48	48	0	37	37	0	41	41	0	89	89	0	68	68	0	47

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
KENTUCKY - Cont.										
1: Vegetables-----	21,744	21,744	0	20	20	0	0	352	352	0
2: Close-growing crops--	191,614	191,614	0	42	42	0	0	1,868	1,868	0
3: Wheat-----	98,443	98,443	0	46	46	0	0	877	877	0
4: Oats-----	32,308	32,308	0	35	35	0	0	374	374	0
5: Barley-----	39,800	39,800	0	40	40	0	0	395	395	0
6: Rye-----	15,060	15,060	0	37	37	0	0	159	159	0
7: Other small grain--	6,003	6,003	0	56	56	0	0	63	63	0
8: Hay and cropland----	687,135	687,135	0	11	11	0	0	6,106	6,106	0
9: Cropland-----	554,532	554,532	0	9	9	0	0	5,021	5,021	0
10: Permanent pasture--	132,603	132,603	0	60	60	0	0	1,085	1,085	0
11: Crops and pasture----	2,796,357	2,796,357	0	29	29	0	2/	31,270	31,270	0
12: Nonfarm use-----	---	---	---	---	---	---	---	638	---	---
LOUISIANA										
13: Intertilled crops----	1,513,922	1,497,505	16,417	79	79	100	1	38,265	37,817	448
14: Corn-----	429,998	426,101	3,897	71	71	100	1	10,734	10,612	122
15: Grain sorghums----	786	786	0	5	5	0	0	3	3	0
16: Cotton-----	652,232	645,820	6,412	97	97	100	1	17,172	16,950	222
17: Peanuts-----	727	727	0	20	20	0	0	4	4	0
18: Sugarcane-----	242,653	242,653	0	95	95	0	0	8,230	8,230	0
19: Fruits-----	42,450	39,321	3,129	75	73	99	5	581	523	58
20: Potatoes-----	5,611	5,611	0	80	80	0	0	109	109	0
21: Sweetpotatoes-----	66,941	66,941	0	80	80	0	0	556	556	0
22: Vegetables-----	72,524	69,545	2,979	81	80	100	3	876	830	46
23: Close-growing crops--	676,859	71,346	605,513	88	68	91	14	6,808	1,097	5,711
24: Oats-----	73,501	71,346	2,155	69	68	99	2	1,134	1,097	37
25: Rice-----	603,358	0	603,358	91	0	91	100	5,674	0	5,674
26: Hay and pasture-----	349,141	344,157	4,984	13	13	98	2/	3,675	3,625	50
27: Cropland-----	229,897	224,913	4,984	10	10	98	2/	2,626	2,576	50
28: Permanent pasture--	119,244	119,244	0	37	37	0	0	1,049	1,049	0
29: Crops and pasture----	2,539,922	1,913,008	626,914	47	41	89	13	48,748	42,539	6,209
30: Nonfarm use-----	---	---	---	---	---	---	---	826	---	---
MAINE										
31: Intertilled crops----	165,967	162,977	2,990	79	79	100	1	9,855	9,761	94
32: Corn-----	9,776	9,776	0	90	90	0	0	174	174	0
33: Dry beans-----	1,138	1,138	0	41	41	0	0	6	6	0
34: Potatoes-----	130,213	129,473	740	100	100	100	1	9,147	9,098	49
35: Fruits-----	6,019	5,594	425	16	15	100	1	65	61	4
36: Vegetables-----	18,821	16,996	1,825	67	64	100	1	463	422	41
37: Close-growing crops--	28,951	28,951	0	35	35	0	0	817	817	0
38: Oats-----	26,365	26,365	0	35	35	0	0	769	769	0
39: Other small grain--	2,586	2,586	0	35	35	0	0	48	48	0
40: Hay and cropland----	69,499	69,399	100	9	9	100	2/	769	768	1
41: Cropland-----	66,792	66,692	100	9	9	100	2/	751	750	1
42: Permanent pasture--	2,707	2,707	0	20	20	0	0	18	18	0
43: Crops and pasture----	264,417	261,327	3,090	25	25	100	2/	11,441	11,346	95

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
738	738	0	630	630	0	32	32	0	68	68	0	58	58	0
3,602	3,602	0	2,786	2,786	0	19	19	0	38	38	0	29	29	0
1,730	1,730	0	1,340	1,340	0	18	18	0	35	35	0	27	27	0
720	720	0	560	560	0	23	23	0	45	45	0	35	35	0
768	768	0	590	590	0	20	20	0	39	39	0	30	30	0
288	288	0	221	221	0	21	21	0	38	38	0	29	29	0
96	96	0	75	75	0	21	21	0	32	32	0	25	25	0
12,850	12,850	0	11,018	11,018	0	18	18	0	37	37	0	32	32	0
10,650	10,650	0	9,053	9,053	0	18	18	0	38	38	0	33	33	0
2,300	2,300	0	1,965	1,965	0	16	16	0	35	35	0	30	30	0
65,258	65,258	0	56,801	56,801	0	23	23	0	48	48	0	41	41	0
1,332	---	---	1,159	---	---	---	---	---	---	---	---	---	---	---
12,428	12,156	272	8,484	8,324	160	51	51	55	16	16	33	11	11	19
2,147	2,121	26	2,013	1,989	24	50	50	63	10	10	13	9	9	12
9	9	0	9	9	0	8	8	0	23	23	0	23	23	0
5,779	5,729	50	4,186	4,147	39	53	52	69	18	18	16	13	13	12
16	16	0	16	16	0	11	11	0	44	44	0	44	44	0
796	796	0	510	510	0	68	68	0	6	6	0	4	4	0
1,145	1,030	115	551	493	58	27	27	37	54	52	74	26	25	37
157	157	0	91	91	0	39	39	0	56	56	0	32	32	0
799	799	0	342	342	0	17	17	0	24	24	0	10	10	0
1,580	1,499	81	766	727	39	24	24	31	44	43	54	21	21	26
6,110	463	5,647	5,357	463	4,894	20	31	19	18	13	19	16	13	16
483	463	20	483	463	20	31	31	34	13	13	19	13	13	19
5,627	0	5,627	4,874	0	4,874	19	0	19	19	0	19	16	0	16
5,612	5,536	76	4,907	4,842	65	21	21	20	32	32	30	28	28	26
4,094	4,018	76	3,388	3,323	65	23	23	20	36	36	30	29	30	26
1,518	1,518	0	1,519	1,519	0	16	16	0	25	25	0	25	25	0
24,150	18,155	5,995	18,748	13,629	5,119	38	44	20	19	19	19	15	14	17
1,652	---	---	826	---	---	---	---	---	---	---	---	---	---	---
15,713	15,538	175	17,905	17,737	168	119	120	63	189	191	117	215	212	112
382	382	0	327	327	0	36	36	0	78	78	0	67	67	0
12	12	0	12	12	0	11	11	0	21	21	0	21	21	0
14,642	14,558	84	16,991	16,898	93	140	141	132	225	225	227	261	261	251
13	12	1	13	12	1	22	22	19	4	4	5	4	4	5
664	574	90	562	488	74	49	50	45	71	68	99	60	57	81
97	97	0	97	97	0	56	56	0	7	7	0	7	7	0
89	89	0	89	89	0	58	58	0	7	7	0	7	7	0
8	8	0	8	8	0	37	37	0	6	6	0	6	6	0
2,500	2,495	5	2,321	2,316	5	22	22	20	72	72	100	67	67	100
2,464	2,459	5	2,285	2,280	5	22	22	20	73	74	100	68	68	100
36	36	0	36	36	0	13	13	0	27	27	0	27	27	0
18,310	18,130	180	20,323	20,150	173	87	87	61	137	137	116	154	154	112

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
MAINE - Cont.										
1: Nonfarm use-----	---	---	---	---	---	---	---	179	---	---
MARYLAND										
2: Intertilled crops-----	745,574	737,839	7,735	89	89	100	1	9,127	8,834	293
3: Corn-----	472,264	471,939	325	92	94	100	1	4,114	4,109	5
4: Tobacco-----	47,645	47,485	160	100	100	100	2/	1,188	1,183	5
5: Soybeans-----	124,129	124,089	40	79	79	100	2/	372	372	0
6: Fruits-----	19,050	17,383	1,667	100	100	100	10	638	557	81
7: Potatoes-----	3,642	3,395	247	80	78	100	5	270	261	9
8: Sweetpotatoes-----	4,244	4,194	50	100	100	100	1	134	132	2
9: Vegetables-----	74,600	69,354	5,246	71	69	100	5	2,411	2,220	191
10: Close-growing crops-----	328,495	328,495	0	91	91	0	0	3,216	3,216	0
11: Wheat-----	175,617	175,617	0	92	92	0	0	1,822	1,822	0
12: Oats-----	66,148	66,148	0	92	92	0	0	629	629	0
13: Barley-----	76,818	76,818	0	92	92	0	0	733	733	0
14: Rye-----	8,590	8,590	0	50	50	0	0	28	28	0
15: Buckwheat-----	1,158	1,158	0	71	71	0	0	3	3	0
16: Other small grain-----	164	164	0	50	50	0	0	1	1	0
17: Hay and cropland-----	452,755	448,733	4,022	48	48	100	2/	2,296	2,277	19
18: Cropland-----	337,394	334,172	3,222	42	41	100	2/	1,681	1,672	9
19: Permanent pasture-----	115,361	114,561	800	89	89	100	1	615	605	10
20: Crops and pasture-----	1,526,824	1,515,067	11,757	71	71	100	1	14,639	14,327	312
21: Nonfarm use-----	---	---	---	---	---	---	---	169	---	---
MASSACHUSETTS										
22: Intertilled crops-----	70,392	---	---	78	---	---	---	2,163	---	---
23: Corn-----	23,114	---	---	87	---	---	---	255	---	---
24: Tobacco-----	6,164	---	---	100	---	---	---	650	---	---
25: Fruit-----	15,500	---	---	65	---	---	---	418	---	---
26: Potatoes-----	7,400	---	---	88	---	---	---	348	---	---
27: Vegetables-----	18,214	---	---	71	---	---	---	492	---	---
28: Hay and pasture-----	94,836	---	---	24	---	---	---	1,241	---	---
29: Cropland-----	85,816	---	---	23	---	---	---	1,098	---	---
30: Permanent pasture-----	9,020	---	---	89	---	---	---	143	---	---
31: Unspecified-----	1,069	---	---	26	---	---	---	29	---	---
32: Crops and pasture-----	166,297	---	---	34	---	---	5	3,433	---	---
33: Nonfarm use-----	---	---	---	---	---	---	---	1,756	---	---
MICHIGAN										
34: Intertilled crops-----	2,224,727	2,201,484	23,243	76	76	100	2/	18,582	17,708	874
35: Corn-----	1,558,083	1,556,443	1,640	83	83	100	2/	10,906	10,824	82
36: Soybeans-----	58,757	58,757	0	40	40	0	0	145	145	0
37: Dry beans-----	265,389	265,389	0	65	65	0	0	796	796	0
38: Sugar beets-----	64,977	64,977	0	100	100	0	0	585	585	0
39: Fruits-----	108,492	102,467	7,025	53	51	100	3	2,075	1,858	217
40: Potatoes-----	40,870	40,499	6,371	86	85	100	12	1,383	1,093	290
41: Vegetables-----	106,159	97,952	8,207	68	66	100	5	2,572	2,287	285
42: Mint-----	15,000	15,000	0	100	100	0	0	120	120	0

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
161	---	---	112	---	---	---	---	---	---	---	---	---	---	---
18,482	18,377	405	18,475	17,998	477	24	24	76	50	49	105	50	49	123
8,203	8,193	10	6,689	6,679	10	17	17	30	35	35	60	28	28	60
2,371	2,361	10	3,221	3,207	14	50	50	60	100	100	120	135	135	180
2,226	2,225	1	2,018	2,017	1	6	6	10	36	36	50	33	33	50
238	234	4	115	113	2	67	64	97	25	27	5	12	13	2
330	319	11	410	394	16	148	154	74	181	188	92	225	232	128
324	320	4	483	477	6	63	63	60	153	153	140	228	228	260
4,790	4,425	365	5,539	5,111	428	65	64	73	128	128	139	148	147	163
6,473	6,473	0	2,933	2,933	0	20	20	0	39	39	0	18	18	0
3,620	3,620	0	1,641	1,641	0	21	21	0	41	41	0	19	19	0
1,252	1,252	0	568	568	0	19	19	0	38	38	0	17	17	0
1,463	1,463	0	663	663	0	19	19	0	38	38	0	17	17	0
118	118	0	53	53	0	7	7	0	27	27	0	12	12	0
17	17	0	7	7	0	6	6	0	29	29	0	12	12	0
3	3	0	1	1	0	9	9	0	37	37	0	12	12	0
9,257	9,022	235	6,913	6,768	145	10	10	9	40	40	72	31	30	72
6,704	6,588	116	5,060	4,944	116	10	10	6	40	40	72	30	30	72
2,453	2,424	29	1,853	1,824	29	11	11	24	43	42	73	32	32	72
34,112	33,562	550	28,321	27,699	622	19	19	52	45	44	92	37	37	105
411	---	---	169	---	---	---	---	---	---	---	---	---	---	---
3,063	---	---	2,901	---	---	61	---	---	87	---	---	82	---	---
957	---	---	495	---	---	22	---	---	83	---	---	43	---	---
327	---	---	627	---	---	211	---	---	106	---	---	203	---	---
504	---	---	504	---	---	54	---	---	65	---	---	65	---	---
683	---	---	683	---	---	94	---	---	185	---	---	185	---	---
592	---	---	592	---	---	54	---	---	65	---	---	65	---	---
1,226	---	---	2,202	---	---	26	---	---	25	---	---	46	---	---
1,082	---	---	2,059	---	---	26	---	---	25	---	---	48	---	---
144	---	---	143	---	---	32	---	---	32	---	---	32	---	---
35	---	---	35	---	---	54	---	---	65	---	---	65	---	---
4,324	---	---	5,138	---	---	41	---	---	52	---	---	62	---	---
3,281	---	---	1,743	---	---	---	---	---	---	---	---	---	---	---
36,746	35,545	1,201	37,466	36,130	1,336	18	16	75	33	32	103	34	33	115
21,813	21,780	33	21,813	21,780	33	14	14	100	28	28	40	28	28	40
583	583	0	583	583	0	5	5	0	20	20	0	20	20	0
3,185	3,185	0	3,185	3,185	0	6	6	0	24	24	0	24	24	0
2,339	2,339	0	2,078	2,078	0	18	18	0	72	72	0	64	64	0
2,024	1,815	209	2,024	1,815	209	38	36	62	37	35	60	37	35	60
2,632	2,084	548	3,228	2,556	672	59	54	91	112	103	172	138	126	211
3,870	3,459	411	3,955	3,533	422	48	47	69	73	71	100	75	70	127
300	300	0	600	600	0	16	16	0	40	40	0	80	80	0

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
MICHIGAN - Cont.										
1: Close-growing crops	1,946,873	1,946,873	0	81	81	0	0	9,591	9,951	0
2: Wheat	828,352	828,352	0	83	83	0	0	4,990	4,990	0
3: Oats	995,016	995,016	0	82	82	0	0	3,980	3,980	0
4: Barley	50,651	50,651	0	75	75	0	0	279	279	0
5: Rye	40,289	40,289	0	75	75	0	0	222	222	0
6: Buckwheat	7,736	7,736	0	59	59	0	0	19	19	0
7: Flaxseed	727	727	0	46	46	0	0	5	5	0
8: Other small grain	24,102	24,102	0	50	50	0	0	96	96	0
9: Hay and pasture	360,848	360,618	230	8	8	100	2/	1,083	1,082	1
10: Cropland	327,464	327,234	230	8	8	100	2/	981	980	1
11: Permanent pasture	33,384	33,384	0	58	58	0	0	102	102	0
12: Crops and pasture	4,532,448	4,508,975	23,473	47	47	100	2/	29,256	28,381	875
13: Nonfarm use	---	---	---	---	---	---	---	1,556	---	---
MINNESOTA										
14: Intertilled crops	2,530,562	---	---	33	---	---	---	18,810	---	---
15: Corn	2,205,673	---	---	41	---	---	---	16,442	---	---
16: Tobacco	164	---	---	100	---	---	---	10	---	---
17: Soybeans 5/	130,880	---	---	7	---	---	---	711	---	---
18: Sugar beets	77,268	---	---	100	---	---	---	232	---	---
19: Potatoes	53,373	---	---	66	---	---	---	653	---	---
20: Vegetables	63,204	---	---	29	---	---	---	762	---	---
21: Close-growing crops	1,222,716	---	---	16	---	---	---	5,392	---	---
22: Wheat	214,521	---	---	31	---	---	---	754	---	---
23: Oats	511,026	---	---	11	---	---	---	2,794	---	---
24: Barley	292,805	---	---	27	---	---	---	754	---	---
25: Rye	9,000	---	---	9	---	---	---	34	---	---
26: Flaxseed	172,297	---	---	18	---	---	---	947	---	---
27: Other small grain	23,067	---	---	16	---	---	---	109	---	---
28: Hay and pasture	438,273	---	---	8	---	---	---	0	---	---
29: Cropland	403,496	---	---	7	---	---	---	0	---	---
30: Permanent pasture	34,777	---	---	27	---	---	---	0	---	---
31: Crops and pasture	4,191,551	---	---	20	---	---	2/	24,202	---	---
32: Nonfarm use	---	---	---	---	---	---	---	---	---	---
MISSISSIPPI										
33: Intertilled crops	3,518,722	3,465,482	53,240	77	77	100	1	104,618	102,713	1,905
34: Corn	1,386,236	1,381,236	5,000	85	85	100	2/	31,257	31,133	124
35: Sorghum	25,838	25,838	0	42	42	0	0	514	514	0
36: Cotton	1,929,180	1,885,180	44,000	99	99	100	2	67,459	65,803	1,656
37: Soybeans	35,775	35,775	0	6	6	0	0	186	186	0
38: Cowpeas	15,751	15,751	0	40	40	0	0	326	326	0
39: Fruit	69,303	69,303	0	59	59	0	0	2,776	2,776	0
40: Potatoes	1,114	1,114	0	32	32	0	0	18	18	0
41: Sweet potatoes	6,489	6,489	0	49	49	0	0	146	146	0
42: Vegetables	49,036	44,796	4,240	31	29	100	3	1,936	1,811	125
43: Close-growing crops	291,063	217,813	73,250	65	59	100	17	6,876	4,217	2,659
44: Oats	192,090	192,090	0	59	59	0	0	3,831	3,831	0
45: Rice	73,250	0	73,250	100	0	100	100	2,659	0	2,659
46: Other small grain	25,723	25,723	0	60	60	0	0	386	386	0

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized									
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O			
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
32,949	32,949	0	32,949	32,949	0	10	10	0	34	34	0	34	34	0	1
16,411	16,411	0	16,411	16,411	0	12	12	0	40	40	0	40	40	0	2
14,428	14,428	0	14,428	14,428	0	8	8	0	29	29	0	29	29	0	3
913	913	0	913	913	0	11	11	0	36	36	0	36	36	0	4
726	726	0	726	726	0	11	11	0	36	36	0	36	36	0	5
116	116	0	116	116	0	5	5	0	30	30	0	30	30	0	6
17	17	0	17	17	0	14	14	0	47	47	0	47	47	0	7
338	338	0	338	338	0	8	8	0	28	28	0	28	28	0	8
8,015	8,006	9	5,267	5,262	5	6	6	9	44	44	78	29	29	43	9
7,168	7,159	9	4,911	4,906	5	6	6	9	44	44	78	30	30	43	10
847	847	0	356	356	0	6	6	0	51	51	0	21	21	0	11
77,710	76,500	1,210	75,682	74,341	1,341	13	13	75	34	34	103	33	33	114	12
1,637	---	---	716	---	---	---	---	---	---	---	---	---	---	---	13
38,748	---	---	26,218	---	---	15	---	---	31	---	---	21	---	---	14
28,784	---	---	22,080	---	---	15	---	---	26	---	---	20	---	---	15
10	---	---	10	---	---	122	---	---	122	---	---	122	---	---	16
4,426	---	---	2,249	---	---	11	---	---	68	---	---	34	---	---	17
928	---	---	464	---	---	6	---	---	24	---	---	12	---	---	18
2,100	---	---	653	---	---	24	---	---	79	---	---	24	---	---	19
2,500	---	---	762	---	---	24	---	---	79	---	---	24	---	---	20
13,956	---	---	4,488	---	---	8	---	---	23	---	---	7	---	---	21
1,508	---	---	0	---	---	7	---	---	14	---	---	0	---	---	22
8,450	---	---	4,321	---	---	11	---	---	33	---	---	17	---	---	23
1,508	---	---	0	---	---	5	---	---	10	---	---	0	---	---	24
34	---	---	0	---	---	8	---	---	8	---	---	0	---	---	25
2,166	---	---	0	---	---	11	---	---	25	---	---	0	---	---	26
290	---	---	167	---	---	9	---	---	25	---	---	14	---	---	27
12,177	---	---	6,850	---	---	0	---	---	56	---	---	31	---	---	28
11,585	---	---	6,554	---	---	0	---	---	57	---	---	32	---	---	29
592	---	---	296	---	---	0	---	---	34	---	---	17	---	---	30
64,881	---	---	37,556	---	---	12	---	---	31	---	---	18	---	---	31
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	32
38,040	37,421	619	30,940	30,438	502	59	59	72	22	22	23	18	18	19	33
14,016	13,961	55	11,495	11,450	45	45	45	50	20	20	22	17	17	18	34
352	352	0	293	293	0	40	40	0	27	27	0	23	23	0	35
19,118	18,649	469	15,353	14,976	377	70	70	75	20	20	21	16	16	17	36
677	677	0	564	564	0	10	10	0	38	38	0	32	32	0	37
254	254	0	212	212	0	41	41	0	32	32	0	27	27	0	38
2,015	2,015	0	1,677	1,677	0	80	80	0	58	58	0	48	48	0	39
12	12	0	12	12	0	32	32	0	22	22	0	22	22	0	40
123	123	0	103	103	0	45	45	0	38	38	0	32	32	0	41
1,473	1,378	95	1,231	1,151	80	79	79	59	60	60	45	50	50	38	42
1,277	1,235	42	1,067	1,032	35	47	29	73	9	11	1	7	9	1	43
1,202	1,202	0	1,004	1,004	0	40	40	0	13	13	0	10	10	0	44
42	0	42	35	0	35	73	0	73	1	0	1	1	0	1	45
33	33	0	28	28	0	30	30	0	3	3	0	2	2	0	46

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
MISSISSIPPI - Cont.										
1: Hay and pasture-----	630,994	624,994	6,000	22	22	100	2/	403	399	4
2: Cropland-----	4,02,391	397,391	5,000	19	19	100	2/	403	399	4
3: Permanent pasture--	228,603	227,603	1,000	32	32	100	2/	0	0	0
4: Crops and pasture--	4,440,779	4,308,289	132,490	57	55	100	2	111,897	107,329	4,568
5: Nonfarm use-----	---	---	---	---	---	---	---	400	---	---
MISSOURI										
6: Intertilled crops--	3,251,664	3,233,765	17,899	49	49	98	2/	48,990	48,491	499
7: Corn-----	2,585,882	2,579,262	6,620	64	64	100	2/	40,383	40,183	200
8: Sorghum-----	203,022	203,022	0	74	74	0	0	1,330	1,330	0
9: Cotton-----	322,304	318,399	3,905	74	75	100	1	6,416	6,299	117
10: Soybeans-----	108,170	106,080	2,090	6	6	100	2/	0	0	0
11: Fruits-----	10,463	9,313	1,150	30	28	100	3	265	234	31
12: Potatoes-----	825	825	0	28	28	0	0	24	24	0
13: Sweet potatoes--	78	78	0	9	9	0	0	3	3	0
14: Vegetables-----	14,640	10,506	4,134	17	13	91	5	415	264	151
15: Other $\frac{6}{}$ -----	6,280	6,280	0	53	53	0	2/	154	154	0
16: Close-growing crops--	2,182,520	2,180,922	1,598	70	70	24	2/	16,365	16,334	31
17: Wheat-----	972,181	972,181	0	84	84	0	0	7,430	7,430	0
18: Oats-----	730,466	730,276	190	56	56	100	2/	5,145	5,142	3
19: Barley-----	247,796	247,696	100	91	91	100	2/	1,708	1,706	2
20: Rye-----	49,732	49,732	0	80	80	0	0	386	386	0
21: Rice-----	1,308	0	1,308	20	0	20	100	26	0	26
22: Other small grain--	181,037	181,037	0	63	63	0	0	1,670	1,670	0
23: Hay and pasture--	690,833	682,833	8,000	9	9	100	2/	7,168	7,024	144
24: Cropland-----	542,871	534,871	8,000	8	8	100	2/	5,911	5,767	144
25: Permanent pasture--	147,962	147,962	0	2	2	0	0	1,257	1,257	0
26: Crops and pasture--	6,125,017	6,097,520	27,497	36	36	83	2/	72,523	71,849	674
27: Nonfarm use-----	---	---	---	---	---	---	---	952	---	---
MONTANA										
28: Intertilled crops--	60,936	1,703	59,233	24	1	62	38	1,256	9	1,247
29: Corn-----	3,603	1,703	1,900	2	1	12	10	31	9	22
30: Dry beans-----	1,500	0	1,500	10	0	11	96	4	0	4
31: Dry peas-----	1,000	0	1,000	24	0	42	58	0	0	0
32: Sugar beets-----	50,194	0	50,194	93	0	94	100	1,132	0	1,132
33: Fruits-----	800	0	800	26	0	36	74	28	0	28
34: Potatoes-----	3,519	0	3,519	45	0	60	76	56	0	56
35: Vegetables-----	320	0	320	3	0	25	12	5	0	5
36: Close-growing crops--	448,740	415,304	33,436	8	7	12	5	698	445	253
37: Wheat-----	361,686	344,829	16,857	8	8	14	3	491	367	124
38: Oats-----	16,179	6,700	9,479	6	3	13	29	94	18	76
39: Barley-----	66,875	60,975	5,900	6	5	8	6	103	58	45
40: Other small grain--	4,000	2,800	1,200	2	2	11	7	10	2	8
41: Hay and pasture--	119,574	735	118,839	3	2/	9	38	1,004	0	1,004
42: Cropland-----	109,828	0	109,828	4	0	11	33	908	0	908
43: Alfalfa seed-----	735	735	0	1	1	0	25	0	0	0
44: Permanent pasture--	9,011	0	9,011	2	0	3	72	96	0	96
45: Unspecified-----	7,561	0	7,561	2/	0	5	---	70	0	70

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
8,451	8,383	68	7,127	7,070	57	1	1	1	27	27	23	23	23	19
5,378	5,321	57	4,537	4,489	48	2	2	2	27	27	23	22	22	19
3,073	3,062	11	2,590	2,581	9	0	0	0	27	27	22	23	23	18
47,768	47,039	729	39,134	38,540	594	50	50	69	22	22	11	18	18	9
800	---	---	400	---	---	---	---	---	---	---	---	---	---	---
45,069	44,649	420	41,720	41,301	419	30	30	56	28	28	47	26	26	47
34,827	34,690	137	31,580	31,457	123	31	31	60	27	27	42	24	24	37
2,405	2,405	0	1,698	1,698	0	13	13	0	24	24	0	17	17	0
5,010	4,932	78	5,677	5,598	79	40	40	60	31	31	40	35	35	40
2,235	2,194	41	2,154	2,112	42	0	0	0	41	41	40	40	40	40
0	0	0	0	0	0	50	50	54	0	0	0	0	0	0
26	26	0	31	31	0	58	58	0	63	63	0	75	75	0
2	2	0	2	2	0	77	77	0	51	51	0	51	51	0
455	291	164	474	299	175	57	50	73	62	55	79	65	57	85
109	109	0	104	104	0	49	49	0	35	35	0	33	33	0
27,642	27,622	20	18,303	18,297	6	15	15	39	25	25	25	17	17	8
12,771	12,771	0	8,599	8,599	0	15	15	0	26	26	0	18	18	0
8,795	8,790	5	5,812	5,808	4	14	14	32	24	24	53	16	16	42
3,026	3,024	2	2,029	2,027	2	14	14	40	24	24	40	16	16	40
649	649	0	440	440	0	15	15	0	26	26	0	18	18	0
13	0	13	0	0	0	40	0	40	20	0	20	0	0	0
2,388	2,388	0	1,423	1,423	0	18	18	0	26	26	0	16	16	0
8,218	8,059	159	4,203	4,062	141	21	21	36	24	24	40	12	12	35
5,487	5,328	159	4,203	4,062	141	22	22	36	20	20	40	15	15	35
2,731	2,731	0	0	0	0	17	17	0	37	37	0	0	0	0
80,929	80,330	599	64,226	63,660	566	24	24	49	26	26	44	21	21	41
1,061	---	---	843	---	---	---	---	---	---	---	---	---	---	---
1,956	17	1,939	0	0	0	41	11	42	65	20	65	0	0	0
48	17	31	0	0	0	17	11	23	27	20	33	0	0	0
15	0	15	0	0	0	5	0	5	20	0	20	0	0	0
23	0	23	0	0	0	0	0	0	46	0	46	0	0	0
1,724	0	1,724	0	0	0	45	0	45	69	0	69	0	0	0
28	0	28	0	0	0	70	0	70	70	0	70	0	0	0
107	0	107	0	0	0	32	0	32	61	0	61	0	0	0
11	0	11	0	0	0	31	0	31	69	0	69	0	0	0
3,585	3,181	404	0	0	0	3	2	15	16	15	24	0	0	0
2,856	2,655	191	0	0	0	3	2	15	16	15	23	0	0	0
189	57	132	0	0	0	12	5	16	23	17	18	0	0	0
508	441	67	0	0	0	3	2	48	15	14	23	0	0	0
32	18	14	0	0	0	5	1	13	16	13	23	0	0	0
2,202	9	2,193	26	0	26	17	0	17	37	0	37	2/	0	2/
2,079	0	2,079	26	0	26	17	0	17	38	0	38	2/	0	2/
9	9	0	0	0	0	0	0	0	24	24	0	0	0	0
114	0	114	0	0	0	21	0	21	25	0	25	0	0	0
111	0	111	0	0	0	19	0	19	29	0	29	0	0	0

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
MONTANA - Cont.										
1: Crops and pasture	636,811	417,742	219,069	7	5	12	20	3,028	454	2,574
2: Nonfarm use	---	---	---	---	---	---	---	115	---	---
NEBRASKA										
3: Intertilled crops	1,999,000	1,467,454	531,546	25	21	62	11	40,666	26,345	14,321
4: Corn	1,833,442	1,396,119	437,323	27	23	66	11	38,615	25,501	13,114
5: Sorghum	59,895	43,222	16,673	7	6	51	4	841	509	332
6: Soybeans	32,145	23,799	8,346	17	14	39	11	362	237	125
7: Dry beans	27,028	0	27,028	37	0	40	94	203	0	203
8: Sugar beets	36,984	0	36,984	62	0	63	99	392	0	392
9: Fruits	599	599	0	14	14	0	3	16	16	0
10: Potatoes	5,321	189	5,132	28	4	37	72	157	5	152
11: Vegetables	3,586	3,526	60	19	19	17	2	80	77	3
12: Close-growing crops	731,753	706,995	24,758	13	13	28	2	9,485	9,036	449
13: Wheat	393,599	387,871	5,728	13	13	75	2/	4,765	4,650	115
14: Oats	309,162	295,773	13,389	14	14	29	16	4,368	4,137	231
15: Barley	13,257	7,616	5,641	6	4	17	16	197	94	103
16: Rye	12,168	12,168	0	9	9	0	2/	121	121	0
17: Other small grain	3,567	3,567	0	5	5	0	0	34	34	0
18: Hay and pasture	263,805	222,989	40,816	4	4	19	3	2,356	2,204	152
19: Cropland	198,764	163,439	35,325	3	3	20	3	1,432	1,356	76
20: Permanent pasture	65,041	59,550	5,491	23	24	14	14	924	848	76
21: Crops and pasture	2,994,558	2,397,438	597,120	15	13	51	6	52,507	37,585	14,922
22: Nonfarm use	---	---	---	---	---	---	---	188	---	---
NEVADA										
23: Intertilled crops 7/2	2,584	0	2,584	73	0	73	100	75	0	75
24: Close-growing crops 8/4	3,417	0	3,417	32	0	32	100	45	0	45
25: Hay and pasture	16,423	0	16,423	2	0	3	67	157	0	157
26: Cropland	14,169	0	14,169	2	0	4	56	129	0	129
27: Permanent pasture	2,254	0	2,254	1	0	1	100	28	0	28
28: Unspecified	6,901	0	6,901	25	0	25	100	125	0	125
29: Crops and pasture	29,325	0	29,325	2/	0	5	7	402	0	402
30: Nonfarm use	---	---	---	---	---	---	---	12	---	---
NEW HAMPSHIRE										
31: Intertilled crops	16,633	15,791	842	60	59	100	3	46	325	41
32: Corn	9,049	9,049	0	83	83	0	0	121	121	0
33: Dry beans	45	45	0	100	100	0	0	1	1	0
34: Fruits	2,447	2,447	0	23	23	0	0	35	35	0
35: Potatoes	2,082	1,676	406	92	90	100	18	137	109	28
36: Vegetables	3,010	2,574	436	77	74	100	11	72	59	13
37: Close-growing crops	1,400	1,400	0	65	65	0	0	8	8	0
38: Oats	1,080	1,080	0	73	73	0	0	7	7	0
39: Other small grain	320	320	0	47	47	0	0	1	1	0

See footnotes at end of table.

plant nutrients applied									Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O					
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land			
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds			
7,854	3,207	4,647	26	0	26	9	2	24	25	15	42	2/	0	2/			
192	---	---	23	---	---	---	---	---	---	---	---	---	---	---			
15,367	11,824	3,543	1,095	698	397	41	36	54	15	16	13	1	1	1			
13,763	11,513	2,250	833	615	218	42	37	60	15	16	10	1	1	1			
97	89	8	15	14	1	26	24	40	3	4	1	1	1	2/			
219	175	44	82	60	22	23	20	30	14	15	11	5	5	5			
406	0	406	53	0	53	15	0	15	30	0	30	4	0	4			
732	0	732	91	0	91	21	0	21	40	0	40	5	0	5			
0	0	0	0	0	0	53	53	0	0	0	0	0	0	0			
105	3	102	12	0	12	59	53	59	39	32	40	5	0	5			
45	44	1	9	9	0	45	44	100	25	25	33	5	5	0			
5,603	5,409	194	352	350	2	25	26	36	15	15	15	1	1	2/			
2,655	2,604	51	195	194	1	24	24	40	14	13	18	1	1	2/			
2,770	2,673	97	149	148	1	28	28	35	18	18	14	1	1	2/			
100	54	46	2	2	0	30	25	36	15	14	16	2/	1	0			
61	61	0	5	5	0	20	20	0	10	10	0	1	1	0			
17	17	0	1	1	0	19	19	0	9	9	0	1	1	0			
3,813	3,171	642	165	155	10	18	17	7	29	28	31	1	1	2/			
2,922	2,356	566	165	155	10	14	16	4	29	29	32	2	2	1			
891	815	76	0	0	0	29	29	28	27	27	28	0	0	0			
24,783	20,404	4,379	1,612	1,203	409	35	31	50	17	17	15	1	1	1			
233	---	---	86	---	---	---	---	---	---	---	---	---	---	---			
109	0	109	12	0	12	59	0	59	85	0	85	9	0	9			
44	0	44	2	0	2	26	0	26	26	0	26	1	0	1			
241	0	241	15	0	15	19	0	19	29	0	29	2	0	2			
219	0	219	13	0	13	18	0	18	31	0	31	2	0	2			
22	0	22	2	0	2	25	0	25	20	0	20	2	0	2			
137	0	137	4	0	4	36	0	36	40	0	40	1	0	1			
531	0	531	33	0	33	27	0	27	36	0	36	2	0	2			
15	---	---	7	---	---	---	---	---	---	---	---	---	---	---			
677	603	74	580	509	71	44	41	97	81	76	176	70	64	201			
290	290	0	218	218	0	27	27	0	64	64	0	48	48	0			
2	2	0	2	2	0	44	44	0	89	89	0	89	89	0			
3	3	0	3	3	0	29	29	0	2	2	0	2	2	0			
273	217	56	273	217	56	132	130	138	262	259	276	262	259	276			
109	91	18	84	69	15	48	46	60	72	71	83	56	54	69			
19	19	0	15	15	0	11	11	0	27	27	0	21	21	0			
15	15	0	12	12	0	13	13	0	27	27	0	22	22	0			
4	4	0	3	3	0	6	6	0	25	25	0	19	19	0			

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
NEW HAMPSHIRE - Cont.										
1: Hay and pasture-----	49,547	49,447	100	16	15	100	2/	540	539	1:
2: Cropland-----	46,368	46,268	100	15	15	100	0	518	517	1:
3: Permanent pasture--	3,179	3,179	0	44	44	0	0	22	22	0:
4: Crops and pasture---	67,580	66,638	942	20	20	100	2/	924	872	42:
5: Nonfarm use-----	---	---	---	---	---	---	---	107	---	---
NEW JERSEY										
6: Intertilled crops---	413,225	---	---	92	---	---	---	14,656	---	---
7: Corn-----	171,427	---	---	90	---	---	---	5,196	---	---
8: Soybeans-----	21,003	---	---	52	---	---	---	220	---	---
9: Fruits-----	30,143	---	---	100	---	---	---	598	---	---
10: Potatoes-----	21,665	---	---	100	---	---	---	1,083	---	---
11: Sweetpotatoes-----	16,069	---	---	100	---	---	---	362	---	---
12: Vegetables-----	152,918	---	---	100	---	---	---	7,197	---	---
13: Close-growing crops--	81,876	---	---	67	---	---	---	969	---	---
14: Wheat-----	46,289	---	---	83	---	---	---	596	---	---
15: Oats-----	18,089	---	---	53	---	---	---	189	---	---
16: Barley-----	11,206	---	---	53	---	---	---	117	---	---
17: Rye-----	4,939	---	---	53	---	---	---	52	---	---
18: Buckwheat-----	51	---	---	53	---	---	---	1	---	---
19: Other small grain--	1,302	---	---	53	---	---	---	14	---	---
20: Hay and pasture-----	131,725	---	---	31	---	---	---	1,121	---	---
21: Cropland-----	111,920	---	---	27	---	---	---	767	---	---
22: Permanent pasture--	19,805	---	---	100	---	---	---	354	---	---
23: Crops and pasture---	626,826	---	---	62	---	---	6	16,746	---	---
24: Nonfarm use-----	---	---	---	---	---	---	---	600	---	---
NEW MEXICO										
25: Intertilled crops---	139,543	0	139,543	18	0	39	46	2,986	0	2,986:
26: Corn-----	3,888	0	3,888	10	0	19	51	82	0	82:
27: Sorghum-----	15,014	0	15,014	4	0	17	21	278	0	278:
28: Cotton-----	107,555	0	107,555	55	0	57	96	2,337	0	2,337:
29: Peanuts-----	580	0	580	12	0	12	100	10	0	10:
30: Dry beans-----	1,125	0	1,125	3	0	3	41	4	0	4:
31: Fruits-----	2,945	0	2,945	22	0	24	91	36	0	36:
32: Potatoes-----	187	0	187	25	0	26	94	3	0	3:
33: Sweetpotatoes-----	430	0	430	45	0	45	100	6	0	6:
34: Vegetables-----	6,504	0	6,504	45	0	66	68	212	0	212:
35: Broomcorn-----	1,315	0	1,315	3	0	11	27	18	0	18:
36: Close-growing crops--	3,808	0	3,808	3	0	11	25	56	0	56:
37: Wheat-----	842	0	842	1	0	7	11	11	0	11:
38: Oats-----	497	0	497	5	0	9	59	8	0	8:
39: Barley-----	2,469	0	2,469	12	0	15	84	37	0	37:
40: Hay and pasture-----	88,552	0	88,552	12	0	39	30	1,029	0	1,029:
41: Cropland-----	85,910	0	85,910	13	0	48	27	1,000	0	1,000:
42: Permanent pasture--	2,642	0	2,642	3	0	6	55	29	0	29:
43: Unspecified-----	3,370	0	3,370	59	0	61	97	15	0	15:
44: Crops and pasture---	235,273	0	235,273	14	0	38	37	4,086	0	4,086:

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized									
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O			
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
1,053	1,051	2	954	952	2	22	22	20	43	43	40	39	39	40	1
1,008	1,006	2	899	897	2	22	22	20	44	44	40	39	39	40	2
45	45	0	55	55	0	14	14	0	28	28	0	35	35	0	3
1,749	1,673	76	1,549	1,476	73	27	26	89	52	50	161	46	44	155	4
114	---	---	54	---	---	---	---	---	---	---	---	---	---	---	5
23,353	---	---	22,598	---	---	71	---	---	113	---	---	109	---	---	6
5,215	---	---	4,696	---	---	61	---	---	61	---	---	55	---	---	7
439	---	---	439	---	---	21	---	---	42	---	---	42	---	---	8
1,055	---	---	1,055	---	---	40	---	---	70	---	---	70	---	---	9
2,166	---	---	2,166	---	---	100	---	---	200	---	---	200	---	---	10
1,085	---	---	1,849	---	---	45	---	---	135	---	---	230	---	---	11
13,393	---	---	12,393	---	---	94	---	---	175	---	---	162	---	---	12
2,435	---	---	1,935	---	---	24	---	---	59	---	---	47	---	---	13
1,692	---	---	1,192	---	---	26	---	---	73	---	---	52	---	---	14
378	---	---	378	---	---	21	---	---	42	---	---	42	---	---	15
234	---	---	234	---	---	21	---	---	42	---	---	42	---	---	16
103	---	---	103	---	---	21	---	---	42	---	---	42	---	---	17
1	---	---	1	---	---	20	---	---	39	---	---	39	---	---	18
27	---	---	27	---	---	22	---	---	41	---	---	41	---	---	19
3,542	---	---	3,042	---	---	17	---	---	53	---	---	46	---	---	20
2,334	---	---	2,334	---	---	14	---	---	42	---	---	42	---	---	21
1,208	---	---	708	---	---	36	---	---	122	---	---	71	---	---	22
29,330	---	---	27,575	---	---	53	---	---	94	---	---	88	---	---	23
360	---	---	240	---	---	---	---	---	---	---	---	---	---	---	24
2,437	0	2,437	36	0	36	43	0	43	35	0	35	1	0	1	25
79	0	79	1	0	1	42	0	42	41	0	41	1	0	1	26
245	0	245	5	0	5	37	0	37	33	0	33	1	0	1	27
1,731	0	1,731	11	0	11	43	0	43	32	0	32	2/	0	2/	28
9	0	9	0	0	0	34	0	34	31	0	31	0	0	0	29
5	0	5	0	0	0	7	0	7	9	0	9	0	0	0	30
62	0	62	2	0	2	24	0	24	42	0	42	1	0	1	31
7	0	7	2	0	2	32	0	32	75	0	75	21	0	21	32
5	0	5	2	0	2	29	0	29	23	0	23	9	0	9	33
280	0	280	13	0	13	64	0	64	86	0	86	4	0	4	34
14	0	14	0	0	0	27	0	27	21	0	21	0	0	0	35
42	0	42	5	0	5	19	0	19	22	0	22	3	0	3	36
12	0	12	2	0	2	26	0	26	28	0	28	5	0	5	37
7	0	7	0	0	0	32	0	32	28	0	28	0	0	0	38
23	0	23	3	0	3	30	0	30	19	0	19	2	0	2	39
1,951	0	1,951	11	0	11	23	0	23	44	0	44	2/	0	2/	40
1,917	0	1,917	11	0	11	23	0	23	45	0	45	2/	0	2/	41
34	0	34	0	0	0	22	0	22	26	0	26	0	0	0	42
137	0	137	2	0	2	9	0	9	81	0	81	1	0	1	43
4,567	0	4,567	54	0	54	35	0	35	39	0	39	2/	0	2/	44

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
NEW MEXICO - Cont.										
1: Nonfarm use	---	---	---	---	---	---	---	---	---	---
NEW YORK										
2: Intertilled crops	1,063,251	---	---	80	---	---	---	20,969	---	---
3: Corn	617,426	---	---	87	---	---	---	8,787	---	---
4: Legumes 2/	98,168	---	---	72	---	---	---	1,338	---	---
5: Fruits	117,928	---	---	65	---	---	---	1,297	---	---
6: Potatoes	78,986	---	---	90	---	---	---	2,804	---	---
7: Vegetables	150,743	---	---	72	---	---	---	6,743	---	---
8: Close-growing crops	878,214	---	---	77	---	---	---	9,249	---	---
9: Wheat	297,482	---	---	88	---	---	---	3,275	---	---
10: Small grains 10/	580,732	---	---	72	---	---	---	5,974	---	---
11: Hay and pasture	338,826	---	---	7	---	---	---	4,129	---	---
12: Cropland	285,023	---	---	6	---	---	---	3,420	---	---
13: Permanent pasture	53,803	---	---	29	---	---	---	709	---	---
14: Crops and pasture	2,280,291	---	---	32	---	---	1	34,247	---	---
15: Nonfarm use	---	---	---	---	---	---	---	3,043	---	---
NORTH CAROLINA										
16: Intertilled crops	3,932,221	3,911,120	21,101	93	93	45	1	94,904	94,230	674
17: Corn	1,977,156	1,977,006	150	97	97	100	2/	52,098	52,096	2
18: Sorghum	68,229	68,229	0	95	95	0	0	1,469	1,469	0
19: Cotton	522,095	522,095	0	100	100	0	0	8,547	8,546	1
20: Tobacco	665,609	650,323	15,286	99	99	100	2	17,623	17,183	440
21: Soybeans	298,403	298,403	0	80	80	0	0	151	151	0
22: Cowpeas	34,381	34,381	0	80	80	0	0	17	17	0
23: Peanuts	17,163	17,163	0	10	10	0	0	4	4	0
24: Fruits	39,182	37,377	1,805	89	89	100	4	1,365	1,295	70
25: Potatoes	23,432	23,107	325	100	100	100	1	1,112	1,089	23
26: Sweetpotatoes	26,517	25,742	775	90	90	100	3	319	310	9
27: Vegetables	260,054	257,294	2,760	100	100	100	1	12,199	12,070	129
28: Close-growing crops	670,540	670,540	0	84	84	0	0	9,278	9,278	0
29: Wheat	248,872	248,872	0	85	85	0	0	3,422	3,422	0
30: Oats	317,144	317,144	0	84	84	0	0	4,455	4,455	0
31: Barley	44,862	44,862	0	85	85	0	0	591	591	0
32: Other small grain	59,662	59,662	0	85	85	0	0	810	810	0
33: Hay and pasture	739,922	735,600	4,322	38	38	100	2/	1,734	1,726	8
34: Cropland	520,039	515,717	4,322	33	33	100	2/	1,544	1,536	8
35: Permanent pasture	219,883	219,883	0	56	56	0	0	190	190	0
36: Crops and pasture	5,342,683	5,317,260	25,423	76	76	100	2/	105,916	105,234	682
37: Nonfarm use	---	---	---	---	---	---	---	9,510	---	---
NORTH DAKOTA										
38: Intertilled crops	230,260	225,646	4,614	16	17	81	1	694	687	7
39: Corn	133,418	133,418	0	11	11	0	0	271	271	0
40: Potatoes	59,358	59,023	335	63	63	71	1	375	374	1
41: Sugar beets	37,484	33,205	4,279	100	100	100	11	48	42	6

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized									
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O			
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
38,132	---	---	25,232	---	---	39	---	---	72	---	---	47	---	---	
17,181	---	---	10,442	---	---	28	---	---	56	---	---	34	---	---	
2,042	---	---	1,768	---	---	27	---	---	42	---	---	36	---	---	
413	---	---	548	---	---	22	---	---	7	---	---	9	---	---	
5,608	---	---	5,786	---	---	71	---	---	142	---	---	146	---	---	
12,888	---	---	6,688	---	---	89	---	---	171	---	---	89	---	---	
14,783	---	---	13,006	---	---	21	---	---	34	---	---	30	---	---	
5,371	---	---	4,285	---	---	21	---	---	36	---	---	29	---	---	
9,412	---	---	8,721	---	---	21	---	---	32	---	---	30	---	---	
10,195	---	---	6,130	---	---	24	---	---	60	---	---	36	---	---	
8,567	---	---	5,148	---	---	24	---	---	60	---	---	36	---	---	
1,628	---	---	982	---	---	26	---	---	61	---	---	37	---	---	
63,110	---	---	44,368	---	---	30	---	---	55	---	---	39	---	---	
6,086	---	---	3,043	---	---	---	---	---	---	---	---	---	---	---	
105,874	104,727	1,147	95,872	94,898	974	48	48	64	54	54	109	49	49	92	
34,790	34,788	2	32,585	32,583	2	53	53	27	35	35	27	33	33	27	
1,192	1,192	0	729	729	0	43	43	0	35	35	0	21	21	0	
12,333	12,331	2	11,849	11,847	2	33	33	0	47	47	0	45	45	0	
36,418	35,507	911	30,115	29,346	769	53	52	58	109	109	119	90	90	101	
4,456	4,456	0	7,031	7,031	0	1	1	0	30	30	0	47	47	0	
422	422	0	625	625	0	1	1	0	25	25	0	36	36	0	
85	85	0	215	215	0	0	0	0	10	10	0	25	25	0	
513	482	31	426	399	27	70	69	78	27	26	34	22	21	30	
1,448	1,416	32	1,174	1,147	27	95	94	142	124	123	197	100	99	166	
954	925	29	954	925	29	24	24	23	72	72	75	72	72	75	
13,263	13,123	140	10,169	10,051	118	94	94	93	102	102	101	78	78	86	
11,939	11,939	0	10,037	10,037	0	28	28	0	36	36	0	30	30	0	
4,476	4,476	0	3,669	3,669	0	28	28	0	36	36	0	27	29	0	
5,584	5,584	0	4,750	4,750	0	28	28	0	35	35	0	30	30	0	
803	803	0	695	695	0	26	26	0	36	36	0	31	31	0	
1,076	1,076	0	923	923	0	27	27	0	36	36	0	31	31	0	
17,143	17,030	113	18,605	18,495	110	5	5	4	46	46	52	50	50	51	
11,690	11,577	113	11,882	11,772	110	6	6	4	45	45	52	46	46	51	
5,453	5,453	0	6,723	6,723	0	2	2	0	50	50	0	61	61	0	
134,956	133,696	1,260	124,514	123,430	1,084	40	40	54	51	50	99	47	46	85	
9,903	---	---	7,866	---	---	---	---	---	---	---	---	---	---	---	
3,502	3,397	105	2,028	1,010	18	6	6	3	30	30	45	9	9	8	
1,447	1,447	0	114	114	0	4	4	0	22	22	0	2	2	0	
1,125	1,120	5	725	722	3	13	13	6	38	38	30	24	24	54	
930	830	100	189	174	15	3	3	3	50	50	47	10	10	7	

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent		Tons	Tons	Tons
NORTH DAKOTA - Cont.										
1: Close-growing crops	1,406,859	1,406,201	658	9	9	9	2/	2,159	2,158	1:
2: Wheat	767,681	767,281	400	10	10	9	2/	1,135	1,134	1:
3: Oats	90,894	90,723	171	4	4	11	2/	109	109	0:
4: Barley	488,284	488,197	87	16	16	8	2/	785	785	0:
5: Flaxseed	60,000	60,000	0	2	2	0	0	130	130	0:
6: Hay and pasture	45,098	41,643	1,455	1	1	23	2/	71	66	5:
7: Cropland	38,135	34,785	1,350	1	1	29	2/	0	0	0:
8: Permanent pasture	6,963	6,858	105	6	6	3	2/	71	66	5:
9: Crops and pasture	1,682,217	1,673,490	8,727	8	8	23	2/	2,924	2,911	13:
10: Nonfarm use	---	---	---	---	---	---	---	---	---	---
OHIO										
11: Intertilled crops	2,647,371	3,632,171	15,200	74	74	100	2/	26,987	26,143	844:
12: Corn	3,330,604	3,330,404	200	94	94	2/	2/	21,450	21,499	1:
13: Tobacco	15,639	15,639	0	99	99	0	0	661	661	0:
14: Soybeans	182,456	182,456	0	16	16	0	0	0	0	0:
15: Fruits	31,922	29,022	2,900	44	42	100	4	1,922	1,701	221:
16: Potatoes	11,412	7,712	3,700	57	48	100	19	426	241	185:
17: Vegetables	64,224	55,824	8,400	49	45	100	6	2,451	2,014	437:
18: Popcorn	11,114	11,114	0	77	77	0	0	77	77	0:
19: Close-growing crops	2,459,599	2,459,599	0	84	84	0	0	19,227	19,227	0:
20: Wheat	1,547,474	1,547,474	0	91	91	0	0	12,800	12,800	0:
21: Oats	801,744	801,744	0	75	75	0	0	5,755	5,755	0:
22: Barley	69,891	69,891	0	77	77	0	0	346	346	0:
23: Rye	33,450	33,450	0	73	73	0	0	268	268	0:
24: Other small grain	7,040	7,040	0	72	72	0	0	58	58	0:
25: Hay and pasture	562,209	562,009	200	12	12	2/	2/	1,903	1,903	0:
26: Cropland	444,509	444,409	100	10	10	2/	2/	955	955	0:
27: Permanent pasture	117,700	117,600	100	40	41	2/	2/	948	948	0:
28: Crops and pasture	6,669,179	6,653,779	15,400	54	54	77	2/	48,117	47,273	844:
29: Nonfarm use	---	---	---	---	---	---	---	3,320	---	---
OKLAHOMA										
30: Intertilled crops	512,115	468,553	43,562	16	15	72	2	3,427	3,050	377:
31: Corn	111,814	108,296	3,518	40	40	94	1	1,219	1,146	73:
32: Sorghum	101,594	92,846	8,748	7	6	72	1	577	477	100:
33: Cotton	208,754	183,340	25,414	23	21	71	4	1,089	960	129:
34: Soybeans	27,824	27,824	0	49	49	0	0	1	1	0:
35: Peanuts	17,179	14,557	2,622	15	13	52	4	59	45	14:
36: Dry beans	280	280	0	18	18	0	0	2/	2/	2/:
37: Fruits	3,628	3,027	601	10	9	100	2	47	36	11:
38: Potatoes	100	100	0	5	5	0	0	1	1	0:
39: Sweetpotatoes	995	895	100	63	57	100	6	12	11	1:
40: Vegetables	19,464	16,905	2,559	31	28	92	4	235	186	49:
41: Other <u>11/</u>	20,483	20,483	0	18	18	0	0	187	187	0:
42: Close-growing crops	971,647	965,253	6,394	17	17	58	2/	5,133	5,053	80:
43: Wheat	714,660	708,849	5,811	16	16	56	2/	3,700	3,625	75:
44: Oats	213,970	213,387	583	26	26	59	2/	1,235	1,230	5:
45: Barley	29,316	29,316	0	12	12	0	0	140	140	0:
46: Other small grain	13,701	13,701	0	8	8	0	0	58	58	0:

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
12,242	12,234	8	247	247	0	3	3	3	17	17	24	2/	2/	0
7,354	7,349	5	55	55	0	3	3	5	20	19	25	2/	2/	0
704	702	2	20	20	0	2	2	0	15	15	23	2/	2/	0
3,784	3,783	1	172	172	0	3	3	0	15	15	23	1	1	0
400	400	0	0	0	0	4	4	0	13	13	0	0	0	0
797	725	72	0	0	0	3	3	3	35	35	42	0	0	0
726	659	67	0	0	0	0	0	0	38	38	40	0	0	0
71	66	5	0	0	0	20	19	95	20	19	95	0	0	0
16,541	16,356	185	1,275	1,257	18	3	3	4	20	20	42	2	2	4
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69,444	68,777	667	69,575	68,860	715	15	14	111	38	4	88	38	52	94
60,904	60,900	4	59,985	59,981	4	13	13	0	37	37	0	36	36	0
1,288	1,288	0	2,053	2,053	0	85	85	0	165	165	0	263	263	0
2,804	2,804	0	2,769	2,769	0	0	0	0	31	31	0	30	30	0
799	718	81	799	718	81	120	117	152	50	49	56	50	50	36
597	387	210	589	379	210	75	63	100	105	100	114	103	98	113
2,743	2,371	372	3,071	2,651	420	76	72	10	85	85	9	96	95	10
309	309	0	309	309	0	14	14	0	56	56	0	56	56	0
42,288	42,288	0	42,603	42,603	0	16	16	0	34	34	0	35	35	0
27,277	27,277	0	27,246	27,246	0	17	17	0	35	35	0	35	35	0
12,294	12,294	0	12,640	12,640	0	14	14	0	31	31	0	32	32	0
1,583	1,583	0	1,583	1,583	0	10	10	0	45	45	0	45	45	0
956	956	0	956	956	0	16	16	0	57	57	0	57	57	0
178	178	0	178	178	0	16	16	0	51	51	0	51	51	0
14,309	14,307	2	9,261	9,259	2	7	7	0	51	51	20	33	33	20
12,344	12,342	2	7,092	7,090	2	4	4	0	56	56	40	32	32	40
1,965	1,965	0	2,169	2,169	0	16	16	0	33	33	0	37	37	0
126,041	125,372	669	121,439	120,722	717	14	14	110	38	38	87	36	36	93
8,330	---	---	8,069	---	---	---	---	---	---	---	---	---	---	---
5,618	5,183	435	1,897	1,738	159	13	13	17	22	22	20	7	7	7
1,414	1,358	56	464	434	30	22	21	42	25	25	32	9	8	17
866	822	44	247	233	14	11	10	23	17	18	10	5	5	3
1,965	1,740	225	699	639	60	10	10	10	19	19	18	7	7	5
437	437	0	179	179	0	2/	2/	2/	31	31	0	13	13	0
185	154	31	60	52	8	7	6	11	22	21	24	7	7	6
4	4	0	2	2	0	2/	2/	2/	29	29	0	14	14	0
40	29	11	14	9	5	26	24	37	22	19	37	8	6	17
2	2	0	1	1	0	20	20	0	40	40	0	20	20	0
15	12	3	7	7	0	24	25	20	30	27	60	14	16	0
337	272	65	198	156	42	24	22	38	35	32	50	20	18	33
13	353	0	26	26	0	18	18	0	34	34	0	3	3	0
8,808	8,751	57	1,112	1,109	3	11	10	25	18	18	18	2	2	1
6,104	6,053	51	540	540	2/	10	10	26	17	17	18	2	2	2/
2,339	2,333	6	464	461	3	12	12	17	22	22	21	4	4	18
250	250	0	72	72	0	10	10	0	17	17	0	5	5	0
115	115	0	36	36	0	8	8	0	17	17	0	5	5	0

- Continues

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
OKLAHOMA - Cont.										
1: Hay and pasture-----	489,237	464,805	24,432	3	2	65	2/	2,438	2,228	210
2: Cropland-----	293,916	285,949	7,967	8	8	48	2/	1,735	1,591	144
3: Cover crops 12/-----	85,891	74,533	11,358	61	58	93	2/	703	637	2/
4: Permanent pasture-----	109,430	104,323	5,107	16	15	55	1	703	637	66
5: Crops and pasture-----	1,972,999	1,898,611	74,388	15	14	68	1	10,998	10,331	667
6: Nonfarm use-----	---	---	---	---	---	---	---	3,320	---	---
OREGON										
7: Intertilled crops-----	195,448	62,350	133,098	57	33	87	45	6,907	993	5,914
8: Corn-----	17,381	9,287	8,094	63	74	54	55	441	98	343
9: Dry beans-----	1,532	0	1,532	87	0	87	100	25	0	25
10: Dry peas-----	3,674	3,366	308	44	44	58	6	65	63	2
11: Sugar beets-----	13,150	31	13,119	72	100	72	100	789	0	789
12: Fruits-----	47,415	15,963	31,452	37	17	91	27	1,128	205	923
13: Potatoes-----	31,998	2,365	29,633	87	71	89	91	1,572	53	1,519
14: Vegetables-----	67,674	31,338	36,336	63	45	99	34	2,329	574	1,755
15: Hops-----	3,814	0	3,814	69	0	85	82	119	0	119
16: Mint-----	8,810	0	8,810	100	0	100	86	439	0	439
17: Close-growing crops-----	677,023	611,541	65,482	41	42	33	12	11,673	10,256	1,417
18: Wheat-----	364,871	338,599	26,272	43	43	42	7	6,289	5,682	607
19: Oats-----	99,057	85,825	13,232	41	44	33	17	1,678	1,444	234
20: Barley-----	188,147	166,080	22,067	38	41	25	18	3,300	2,820	480
21: Other small grain-----	24,948	21,037	3,911	34	32	45	12	406	310	96
22: Hay and pasture-----	407,897	233,598	174,299	16	16	18	40	6,172	2,912	3,260
23: Cropland-----	328,679	209,021	119,658	11	15	20	30	5,184	2,912	2,272
24: Cover crops 13/-----	24,777	24,577	200	50	50	100	2/	0	0	0
25: Permanent pasture-----	54,441	0	54,441	13	0	14	95	988	0	988
26: Unspecified-----	46,614	0	46,614	16	0	31	50	678	0	678
27: Crops and pasture-----	1,326,982	907,489	419,493	30	30	28	33	25,431	14,263	11,268
28: Nonfarm use-----	---	---	---	---	---	---	---	209	---	---
PENNSYLVANIA										
29: Intertilled crops-----	1,406,988	1,389,038	17,950	85	85	100	1	15,326	14,630	696
30: Corn-----	1,140,177	1,140,177	0	89	89	0	0	8,579	8,579	0
31: Tobacco-----	28,666	28,666	0	100	100	0	0	479	479	0
32: Soybeans-----	23,625	23,625	0	56	56	0	0	56	56	0
33: Dry beans-----	1,181	1,181	0	96	96	0	0	16	16	0
34: Fruits-----	60,745	60,335	410	52	52	100	2/	668	662	6
35: Potatoes-----	48,040	45,531	2,509	91	90	100	5	1,730	1,631	99
36: Sweetpotatoes-----	139	139	0	100	100	0	0	3	3	0
37: Vegetables-----	104,415	89,384	15,031	73	70	100	11	3,795	3,204	591
38: Close-growing crops-----	1,338,563	1,338,563	0	81	81	0	0	6,875	6,875	0
39: Wheat-----	576,589	576,589	0	88	88	0	0	3,400	3,400	0
40: Oats-----	567,237	567,237	0	78	78	0	0	2,668	2,668	0
41: Barley-----	153,967	153,967	0	76	76	0	0	617	617	0
42: Rye-----	9,765	9,765	0	73	73	0	0	50	50	0
43: Buckwheat-----	19,525	19,525	0	48	48	0	0	90	90	0
44: Other small grain-----	11,480	11,480	0	71	71	0	0	50	50	0
45: Hay and pasture-----	507,188	507,188	0	15	15	0	0	2,040	2,040	0
46: Cropland-----	389,713	389,713	0	12	12	0	0	1,797	1,797	0

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
6,674	6,234	440	1,660	1,488	172	10	10	17	27	27	36	7	6	14
3,501	3,364	137	619	572	47	12	11	36	24	24	34	4	4	12
2,158	1,918	241	648	552	96	0	0	0	50	51	42	15	15	17
1,014	952	62	393	364	29	13	12	26	19	18	24	7	7	11
21,100	20,168	932	4,669	4,335	334	11	11	18	21	21	25	5	5	9
8,330	---	---	8,069	---	---	---	---	---	---	---	---	---	---	---
5,876	1,325	4,551	2,512	453	2,059	71	32	89	60	43	68	26	15	31
223	118	105	21	2	19	51	21	84	26	25	26	2	2	5
36	0	36	0	0	0	33	0	33	47	0	47	0	0	0
90	83	7	0	0	0	35	37	13	49	49	45	0	0	0
487	1	486	1	1	0	120	0	120	74	65	65	2	65	2
1,195	376	819	422	100	322	48	26	59	50	47	52	18	13	20
1,227	44	1,183	464	46	418	98	45	103	77	37	80	29	39	28
2,272	703	1,569	1,205	304	901	69	37	97	67	45	86	36	19	50
119	0	119	73	0	73	62	0	62	62	0	62	38	0	38
227	0	227	326	0	326	100	0	100	52	0	52	74	0	74
1,837	1,370	467	0	0	0	34	34	43	5	4	14	0	0	0
248	72	176	0	0	0	34	34	46	1	2	13	0	0	0
818	726	92	0	0	0	34	33	35	17	15	14	0	0	0
701	540	161	0	0	0	35	34	44	7	7	15	0	0	0
70	32	38	0	0	0	33	29	49	6	3	19	0	0	0
3,742	692	3,050	311	0	311	30	25	37	18	6	35	2	0	4
2,394	204	2,190	126	0	126	32	28	38	15	2	37	1	0	2
495	488	7	0	0	0	0	0	0	40	40	70	0	0	0
853	0	853	185	0	185	36	0	36	31	0	31	7	0	7
670	0	670	97	0	97	29	0	29	29	0	29	4	0	4
12,125	3,387	8,738	2,923	453	2,470	38	31	54	18	7	42	4	1	12
209	---	---	105	---	---	---	---	---	---	---	---	---	---	---
31,439	30,329	1,110	24,542	23,600	942	22	21	78	45	44	124	35	34	105
19,871	19,871	0	14,031	14,031	0	15	15	0	35	35	0	24	24	0
946	946	0	1,400	1,400	0	33	33	0	66	66	0	98	98	0
248	248	0	190	190	0	5	5	0	21	21	0	16	16	0
32	32	0	16	16	0	27	27	0	54	54	0	27	27	0
441	438	3	441	438	3	22	22	29	15	14	15	14	15	15
3,769	3,555	214	3,551	3,358	193	72	71	79	157	156	170	148	148	154
10	10	0	10	10	0	43	43	0	144	144	0	144	144	0
6,122	5,229	893	4,903	4,157	746	73	72	79	117	117	119	94	93	99
19,150	19,150	0	13,893	13,893	0	10	10	0	29	29	0	21	21	0
10,068	10,068	0	7,706	7,706	0	11	11	0	35	35	0	27	27	0
6,764	6,764	0	4,680	4,680	0	9	9	0	24	24	0	17	17	0
1,841	1,841	0	1,207	1,207	0	8	8	0	24	24	0	16	16	0
123	123	0	73	73	0	10	10	0	25	25	0	15	15	0
233	233	0	151	151	0	9	9	0	24	24	0	16	16	0
121	121	0	76	76	0	9	9	0	21	21	0	13	13	0
13,875	13,875	0	13,875	13,875	0	8	8	0	55	55	0	55	55	0
12,436	12,436	0	12,436	12,436	0	9	9	0	64	64	0	64	64	0

- Continues

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N			
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land	
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons	
PENNSYLVANIA - Cont.											
1	Permanent pasture	117,475	117,475	0	51	51	0	243	243	0	
2	Crops and pasture	3,252,739	3,234,789	17,950	49	49	100	2/	24,241	23,545	696
3	Nonfarm use	---	---	---	---	---	---	---	7,805	---	---
RHODE ISLAND											
4	Intertilled crops	12,495	11,695	800	88	87	100	6	399	355	44
5	Corn	4,151	4,151	0	70	70	0	0	84	84	0
6	Fruit	1,885	1,885	0	100	100	0	0	35	35	0
7	Potatoes	3,806	3,406	400	100	100	100	11	180	156	24
8	Vegetables	2,653	2,253	400	100	100	100	15	100	80	20
9	Close-growing crops	937	937	0	100	100	0	0	9	9	0
10	Oats	145	145	0	100	100	0	0	2	2	0
11	Other small grain	792	792	0	100	100	0	0	7	7	0
12	Hay and pasture	31,115	30,915	200	71	71	100	2/	235	233	2
13	Cropland	30,000	29,800	200	71	71	100	2/	220	218	2
14	Permanent pasture	1,115	1,115	0	84	84	0	0	15	15	0
15	Crops and pasture	44,547	43,547	1,000	76	75	100	2	643	597	46
16	Nonfarm use	---	---	---	---	---	---	---	246	---	---
SOUTH CAROLINA											
17	Intertilled crops	2,301,213	---	---	89	---	---	---	40,113	---	---
18	Corn	1,028,899	---	---	98	---	---	---	17,588	---	---
19	Sorghums	16,673	---	---	70	---	---	---	133	---	---
20	Cotton	806,167	---	---	100	---	---	---	14,350	---	---
21	Tobacco	120,822	---	---	100	---	---	---	3,755	---	---
22	Soybeans	127,603	---	---	65	---	---	---	453	---	---
23	Cowpeas 1/2	14,818	---	---	8	---	---	---	0	---	---
24	Peanuts	10,928	---	---	97	---	---	---	264	---	---
25	Fruits	24,359	---	---	50	---	---	---	218	---	---
26	Potatoes	6,339	---	---	99	---	---	---	283	---	---
27	Sweetpotatoes	16,520	---	---	99	---	---	---	219	---	---
28	Vegetables	128,085	---	---	89	---	---	---	2,850	---	---
29	Close-growing crops	518,697	---	---	79	---	---	---	7,665	---	---
30	Wheat	125,771	---	---	90	---	---	---	2,013	---	---
31	Oats	361,665	---	---	76	---	---	---	5,200	---	---
32	Barley	16,784	---	---	81	---	---	---	245	---	---
33	Other small grain	14,477	---	---	76	---	---	---	207	---	---
34	Hay and pasture	583,367	---	---	43	---	---	---	14,488	---	---
35	Cropland	424,014	---	---	38	---	---	---	11,300	---	---
36	Permanent pasture	159,353	---	---	---	---	---	---	3,188	---	---
37	Crops and pasture	3,403,277	---	---	74	---	2/	62,266	---	---	
38	Nonfarm use	---	---	---	---	---	---	---	5,797	---	---
SOUTH DAKOTA											
39	Intertilled crops	274,195	266,080	8,115	7	6	53	2/	2,727	2,526	201
40	Corn	259,920	257,618	2,302	6	6	25	2/	2,582	2,474	108
41	Soybeans	3,300	3,300	0	7	7	0	0	13	13	0

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1,439	1,439	0	1,439	1,439	0	4	4	0	25	25	0	24	24	0
64,464	63,354	1,110	52,310	51,368	942	15	15	78	40	39	124	32	32	105
16,794	---	---	11,048	---	---	---	---	---	---	---	---	---	---	---
763	675	88	763	675	88	64	61	110	122	115	220	122	115	220
168	168	0	168	168	0	40	40	0	81	81	0	81	81	0
35	35	0	35	35	0	37	37	0	37	37	0	37	37	0
360	312	48	360	312	48	95	92	120	189	183	240	189	183	240
200	160	40	200	160	40	75	71	100	151	142	200	151	142	200
18	18	0	18	18	0	19	19	0	30	38	0	41	41	0
3	3	0	3	3	0	21	21	0	41	41	0	41	41	0
15	15	0	15	15	0	19	19	0	38	38	0	38	38	0
565	561	4	565	561	4	15	15	20	36	36	40	36	36	40
550	546	4	550	546	4	15	15	20	37	37	40	37	37	40
15	15	0	15	15	0	27	27	0	27	27	0	27	27	0
1,346	1,254	92	1,346	1,254	92	29	29	0	60	60	0	60	60	0
122	---	---	64	---	---	---	---	---	---	---	---	---	---	---
49,931	---	---	43,143	---	---	35	---	---	37	---	---	43	---	---
13,425	---	---	13,471	---	---	34	---	---	26	---	---	26	---	---
149	---	---	153	---	---	16	---	---	18	---	---	18	---	---
18,173	---	---	12,638	---	---	36	---	---	45	---	---	31	---	---
7,486	---	---	7,563	---	---	62	---	---	124	---	---	125	---	---
1,761	---	---	1,586	---	---	7	---	---	28	---	---	25	---	---
237	---	---	246	---	---	0	---	---	32	---	---	35	---	---
1,413	---	---	1,741	---	---	48	---	---	258	---	---	319	---	---
379	---	---	379	---	---	18	---	---	31	---	---	31	---	---
565	---	---	424	---	---	89	---	---	178	---	---	134	---	---
649	---	---	670	---	---	27	---	---	78	---	---	7	---	---
5,694	---	---	4,272	---	---	44	---	---	89	---	---	67	---	---
3,605	---	---	6,603	---	---	30	---	---	14	---	---	25	---	---
837	---	---	866	---	---	32	---	---	13	---	---	14	---	---
2,539	---	---	5,316	---	---	29	---	---	14	---	---	29	---	---
138	---	---	165	---	---	29	---	---	16	---	---	19	---	---
91	---	---	256	---	---	29	---	---	13	---	---	35	---	---
13,124	---	---	12,665	---	---	50	---	---	45	---	---	43	---	---
8,939	---	---	9,587	---	---	53	---	---	42	---	---	45	---	---
4,185	---	---	3,078	---	---	40	---	---	52	---	---	39	---	---
66,660	---	---	62,411	---	---	37	---	---	39	---	---	37	---	---
5,024	---	---	6,263	---	---	---	---	---	---	---	---	---	---	---
2,598	2,400	198	168	78	90	18	19	50	19	18	49	1	1	22
2,357	2,323	34	20	19	1	20	19	94	18	18	30	---	---	1
31	31	0	13	13	0	8	8	0	19	19	0	8	8	0

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
SOUTH DAKOTA - Cont.										
1: Sugar beets-----	5,669	0	5,669	100	0	100	100	90	0	90
2: Vegetables 14/-----	5,306	5,162	144	22	22	29	2	42	39	3
3: Close-growing crops-----	175,644	172,599	3,045	2	2	48	2/	1,303	1,275	28
4: Wheat-----	32,134	31,494	640	1	1	50	2/	196	189	7
5: Oats-----	125,010	123,495	1,515	3	3	53	2/	949	938	11
6: Barley-----	10,660	9,770	890	2	2	42	2/	66	56	10
7: Rye-----	3,340	3,340	0	2	2	0	0	55	55	0
8: Flaxseed-----	4,500	4,500	0	2/	2/	0	0	37	37	0
9: Hay and pasture-----	103,213	99,590	3,623	2	2	4	1	246	223	23
10: Cropland-----	85,173	82,313	2,860	1	1	6	1	141	131	10
11: Hayseeds 15/-----	8,727	8,507	220	4	4	100	2/	0	0	0
12: Permanent pasture-----	9,313	8,770	543	6	6	6	6	105	92	13
13: Unspecified-----	718	0	718	6	0	6	100	33	0	33
14: Crops and pasture-----	553,770	538,269	15,501	3	3	17	2/	4,309	4,024	285
15: Nonfarm use-----	---	---	---	---	---	---	---	3	---	---
TENNESSEE										
16: Intertilled crops-----	2,113,455	2,093,703	19,752	67	67	100	1	30,606	30,044	562
17: Corn-----	1,323,900	1,320,834	3,066	72	72	100	2/	15,398	15,352	47
18: Sorghum-----	17,538	17,538	0	27	27	0	0	90	90	0
19: Cotton-----	543,628	542,304	1,324	86	86	100	2/	11,190	11,154	36
20: Tobacco-----	92,991	88,393	4,598	96	96	100	5	2,566	2,403	163
21: Soybeans-----	73,540	73,540	0	23	23	0	0	23	23	0
22: Fruits-----	11,850	9,120	2,730	38	32	100	9	144	100	44
23: Potatoes-----	6,617	6,217	400	81	80	100	5	139	129	10
24: Sweetpotatoes-----	6,307	6,307	0	87	87	0	0	103	103	0
25: Vegetables-----	37,084	29,450	7,634	26	22	100	5	953	691	262
26: Close-growing crops-----	288,738	288,738	0	51	51	0	0	3,287	3,287	0
27: Wheat-----	127,550	127,550	0	66	66	0	0	2,551	2,551	0
28: Oats-----	97,291	97,291	0	47	47	0	0	1,180	1,180	0
29: Barley-----	35,244	35,244	0	42	42	0	0	365	365	0
30: Rye-----	8,606	8,606	0	34	34	0	0	48	48	0
31: Other small grain-----	20,047	20,047	0	38	38	0	0	143	143	0
32: Hay and pasture-----	825,882	823,086	2,796	17	18	100	0	4,008	3,992	16
33: Cropland-----	666,833	664,037	2,796	15	15	100	2/	3,392	3,376	16
34: Permanent pasture-----	159,049	159,049	0	59	59	0	0	616	616	0
35: Unspecified-----	2,228	2,228	0	8	8	0	0	12	12	0
36: Crops and pasture-----	3,230,303	3,207,755	22,548	39	38	100	2/	37,913	37,335	578
37: Nonfarm use-----	---	---	---	---	---	---	---	831	---	---
TEXAS										
38: Intertilled crops-----	2,785,045	1,825,960	889,085	16	13	31	16	55,252	25,914	29,338
39: Corn-----	519,871	498,658	21,213	28	28	55	2	9,746	9,121	625
40: Sorghum-----	685,068	401,102	283,966	9	6	24	16	15,472	5,960	9,512
41: Cotton-----	987,468	560,976	426,492	13	9	31	18	22,562	7,370	15,192
42: Peanuts-----	224,294	221,567	2,727	77	77	90	1	1,351	1,327	24
43: Beans and peas-----	39,391	34,400	4,991	21	19	85	3	147	112	35
44: Fruits-----	29,089	17,407	11,682	22	22	21	41	374	149	225
45: Potatoes-----	11,067	4,234	6,833	87	75	97	55	309	63	246

See footnotes at end of table.

plant nutrients, by crops and States, 1954

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
160	0	160	85	0	85	32	0	32	56	0	56	30	0	30
50	46	4	50	46	4	16	15	42	19	18	56	19	18	56
1,732	1,697	35	6	6	0	15	15	18	20	20	23	2	2	0
221	214	7	0	0	0	12	12	22	14	13	22	0	0	0
1,387	1,373	14	0	0	0	15	15	15	22	22	18	0	0	0
87	73	14	6	6	0	12	11	22	16	15	31	1	1	9
0	0	0	0	0	0	38	38	0	0	0	0	0	0	0
37	37	0	0	0	0	12	12	0	16	16	0	0	0	0
2,246	1,790	456	47	41	6	5	4	13	44	36	252	1	1	3
2,000	1,550	450	10	5	5	3	3	7	47	38	315	2	2	3
221	217	4	37	36	1	0	0	0	51	51	36	8	8	9
25	23	2	0	0	0	23	21	48	5	5	7	0	0	0
3	0	3	0	0	0	92	0	92	8	0	8	0	0	0
6,579	5,887	692	221	125	96	16	15	33	24	22	89	1	2	12
4	---	---	2	---	---	---	---	---	---	---	---	---	---	---
34,039	33,388	651	31,875	31,200	675	29	29	57	32	32	66	30	30	68
16,205	16,163	42	13,052	13,015	37	23	23	30	24	24	28	20	20	24
197	197	0	172	172	0	10	10	0	22	22	0	20	20	0
9,615	9,589	26	10,867	10,836	31	41	41	54	35	35	40	40	40	46
4,834	4,601	233	5,138	4,870	268	55	55	71	104	104	101	111	110	117
1,181	1,181	0	801	801	0	1	1	0	32	32	0	22	22	0
228	172	56	189	138	51	24	22	32	38	38	41	32	30	37
274	256	18	248	230	18	42	41	50	53	82	92	75	74	92
205	205	0	201	201	0	33	33	0	65	65	0	64	64	0
1,300	1,024	276	1,207	937	270	51	47	69	70	70	72	65	64	71
4,030	4,030	0	1,593	1,593	0	23	23	0	28	28	0	11	11	0
1,820	1,820	0	710	710	0	24	24	0	29	29	0	11	11	0
1,342	1,342	0	535	535	0	24	24	0	28	28	0	11	11	0
468	468	0	192	192	0	21	21	0	27	27	0	11	11	0
108	108	0	47	47	0	11	11	0	25	25	0	11	11	0
292	292	0	109	109	0	14	14	0	29	29	0	11	11	0
15,996	15,935	61	11,209	11,159	50	10	10	11	39	38	44	27	27	36
12,733	12,672	61	9,984	9,934	50	10	10	12	38	38	44	30	29	36
3,263	3,263	0	1,225	1,225	0	8	8	0	41	41	0	15	15	0
24	24	0	26	26	0	11	11	0	22	22	0	23	23	0
54,089	53,377	712	44,703	43,978	725	23	23	51	33	33	63	28	27	64
1,565	---	---	1,383	---	---	---	---	---	---	---	---	---	---	---
40,226	26,263	13,963	13,429	10,705	2,724	40	27	66	29	28	31	10	11	6
7,682	7,335	347	3,712	3,571	141	37	37	58	30	29	33	14	14	13
7,167	4,916	2,251	1,725	1,494	231	45	30	67	21	25	16	5	7	2
15,270	7,437	7,833	3,627	2,246	1,371	46	26	71	31	27	37	7	8	6
3,143	3,072	71	1,327	1,315	12	12	12	18	28	28	52	12	12	9
640	494	146	159	147	12	7	7	14	32	29	59	8	9	5
336	199	137	172	161	11	26	17	39	23	23	23	12	18	2
192	58	134	75	43	32	56	30	72	35	27	39	14	20	9

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		N		
							All land	Non-irrigated land	Irrigated land	
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
TEXAS - Cont.										
1: Sweetpotatoes-----	6,550	4,950	1,600	26	49	11	60	45	27	18
2: Vegetables-----	282,247	152,666	129,581	53	46	66	37	5,246	1,785	3,461
3: Close-growing crops--	607,940	31,904	576,036	11	2/	76	14	9,019	280	8,739
4: Wheat-----	20,439	9,184	11,255	1	0	6	6	293	87	206
5: Oats-----	10,114	9,519	625	1	1	12	1	81	69	12
6: Barley-----	598	448	150	2/	2/	4	3	4	2	2
7: Rice-----	562,639	0	562,639	100	0	100	100	8,502	0	8,502
8: Flaxseed-----	1,414	1,414	0	1	1	0	0	6	6	0
9: Other small grain--	12,706	11,339	1,367	1	1	24	1	133	116	17
10: Hay and pasture-----	1,141,477	1,012,746	128,731	9	8	37	3	4,398	3,368	1,030
11: Cropland-----	829,615	737,366	92,249	9	8	65	2	2,413	1,737	676
12: Permanent pasture--	311,862	275,380	36,482	8	7	18	5	1,985	1,631	354
13: Crops and pasture-----	4,534,462	2,940,610	1,593,852	13	9	40	11	68,669	29,562	39,107
14: Nonfarm use-----	---	---	---	---	---	---	---	---	---	---
UTAH										
15: Intertilled crops--	58,650	652	57,998	46	4	53	86	2,049	10	2,039
16: Corn-----	12,000	0	12,000	32	0	35	92	650	0	650
17: Dry beans-----	225	0	225	3	0	42	6	3	0	3
18: Sugar beets-----	28,175	0	28,175	89	0	89	100	850	0	850
19: Sugar beet seed--	373	0	373	100	0	100	100	40	0	40
20: Fruits-----	4,000	72	3,928	25	5	27	91	148	3	145
21: Potatoes-----	3,877	0	3,877	42	0	44	95	130	0	130
22: Vegetables-----	10,000	580	9,420	41	10	51	77	228	7	221
23: Close-growing crops--	42,783	9,311	33,472	8	3	17	36	1,556	270	1,286
24: Wheat-----	25,311	9,311	16,000	7	3	26	18	825	270	555
25: Oats-----	2,000	0	2,000	7	0	8	8	90	0	90
26: Barley-----	14,472	0	14,472	10	0	15	65	596	0	596
27: Other small grain--	1,000	0	1,000	5	0	7	75	45	0	45
28: Hay and pasture-----	65,505	5,105	60,400	6	1	8	70	725	55	670
29: Cropland-----	55,105	5,105	50,000	7	2	10	60	500	55	445
30: Seed crops 15/-----	3,000	0	3,000	6	0	8	23	0	0	0
31: Permanent pasture--	7,400	0	7,400	3	0	3	92	225	0	225
32: Crops and pasture-----	166,938	15,068	151,870	9	2	14	60	4,330	335	3,995
33: Nonfarm use-----	---	---	---	---	---	---	---	250	---	---
VERMONT										
34: Intertilled crops--	50,494	49,905	589	69	69	100	1	664	643	21
35: Corn-----	41,979	41,890	89	73	73	100	2/	454	453	1
36: Dry beans-----	52	52	0	50	50	0	0	2/	2/	0
37: Fruits-----	3,744	3,744	0	68	68	0	0	38	38	0
38: Potatoes-----	2,569	2,269	300	96	95	100	11	133	117	16
39: Vegetables-----	2,150	1,950	200	30	28	100	3	39	35	4
40: Close-growing crops--	13,922	13,922	0	74	74	0	0	92	92	0
41: Oats-----	10,638	10,638	0	78	78	0	0	73	73	0
42: Other small grain--	3,284	3,284	0	65	65	0	0	19	19	0
43: Hay and pasture-----	147,155	147,055	100	15	15	100	2/	628	627	1
44: Cropland-----	130,595	130,495	100	14	14	100	2/	527	526	1
45: Permanent pasture--	16,560	16,560	0	36	36	0	0	101	101	0

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
107	63	44	96	56	40	14	11	22	33	25	25	29	23	50
5,689	2,689	3,000	2,546	1,672	874	37	23	53	40	35	46	18	22	13
10,559	240	10,319	2,302	51	2,251	30	18	30	34	15	36	8	3	8
151	53	98	4	3	1	29	19	37	15	12	17	0	1	0
39	30	9	6	6	0	16	14	38	8	6	29	1	1	0
6	4	2	0	0	0	13	9	27	20	18	27	0	0	0
10,183	0	10,183	2,240	0	2,240	30	0	30	36	0	36	8	0	8
22	22	0	5	5	0	8	8	0	31	31	0	7	7	0
158	131	27	47	37	10	21	20	25	25	23	40	7	7	15
19,357	15,586	3,771	3,892	3,609	283	8	7	16	34	31	43	7	7	4
13,983	11,105	2,878	1,557	1,482	75	6	5	15	34	30	62	4	4	2
5,374	4,481	893	2,335	2,127	208	13	12	19	34	33	49	15	15	11
70,142	42,089	28,053	19,623	14,365	5,258	30	20	49	31	29	35	9	10	7
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,761	19	1,742	34	0	34	70	31	70	60	58	60	1	0	1
0	0	0	0	0	0	108	0	108	0	0	0	0	0	0
6	0	6	0	0	0	27	0	27	53	0	53	0	0	0
1,000	0	1,000	0	0	0	60	0	60	71	0	71	0	0	0
30	0	30	0	0	0	214	0	214	160	0	160	0	0	0
60	2	58	0	0	0	74	83	74	30	56	30	0	0	0
165	0	165	0	0	0	67	0	67	85	0	85	0	0	0
500	17	483	34	0	34	46	24	47	100	59	103	7	0	7
0	0	0	0	0	0	73	58	77	0	0	0	0	0	0
0	0	0	0	0	0	65	58	69	0	0	0	0	0	0
0	0	0	0	0	0	90	0	90	0	0	0	0	0	0
0	0	0	0	0	0	82	0	82	0	0	0	0	0	0
0	0	0	0	0	0	90	0	90	0	0	0	0	0	0
1,899	149	1,750	0	0	0	22	22	22	58	58	58	0	0	0
1,674	149	1,525	0	0	0	18	22	18	61	58	79	0	0	0
200	0	200	0	0	0	0	0	0	133	0	133	0	0	0
25	0	25	0	0	0	61	0	61	7	0	7	0	0	0
3,660	168	3,492	34	0	34	52	44	53	44	22	46	0	0	0
300	---	---	100	---	---	---	---	---	---	---	---	---	---	---
1,486	1,442	44	1,189	1,146	43	26	25	71	59	58	449	47	46	146
1,135	1,132	3	832	830	2	22	22	22	54	54	67	40	40	45
1	1	0	1	1	0	2	2	0	38	38	0	38	38	0
0	0	0	0	0	0	20	20	0	0	0	0	0	0	0
288	254	34	310	274	36	104	103	107	224	224	227	241	242	240
62	55	7	46	41	5	36	36	40	58	56	70	43	42	50
232	232	0	185	185	0	14	14	0	33	33	0	27	27	0
184	184	0	147	147	0	14	14	0	34	34	0	28	28	0
48	48	0	38	38	0	12	12	0	29	29	0	23	23	0
3,977	3,973	4	3,694	3,691	3	9	9	20	54	54	80	50	50	60
3,775	3,771	4	3,442	3,439	3	8	8	20	58	58	80	53	53	60
202	202	0	252	252	0	12	12	0	24	24	0	30	30	0

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
VERMONT - Cont.										
1: Crops and pasture	211,571	210,882	689	20	20	100	2/	1,384	1,362	22
2: Nonfarm use	---	---	---	---	---	---	---	30	---	---
VIRGINIA										
3: Intertilled crops	1,420,161	---	---	84	---	---	---	30,650	---	---
4: Corn	781,948	---	---	89	---	---	---	20,682	---	---
5: Sorghum	5,939	---	---	65	---	---	---	102	---	---
6: Cotton	16,460	---	---	100	---	---	---	330	---	---
7: Tobacco	120,491	---	---	98	---	---	---	2,400	---	---
8: Soybeans	159,418	---	---	65	---	---	---	245	---	---
9: Peanuts	75,650	---	---	75	---	---	---	201	---	---
10: Fruits	69,852	---	---	80	---	---	---	1,187	---	---
11: Potatoes	24,375	---	---	100	---	---	---	829	---	---
12: Sweetpotatoes	14,932	---	---	100	---	---	---	194	---	---
13: Vegetables	151,096	---	---	80	---	---	---	4,480	---	---
14: Close-growing crops	393,517	---	---	74	---	---	---	6,308	---	---
15: Wheat	196,285	---	---	75	---	---	---	3,054	---	---
16: Oats	97,418	---	---	75	---	---	---	1,653	---	---
17: Barley	72,226	---	---	75	---	---	---	1,128	---	---
18: Other small grain	27,588	---	---	58	---	---	---	473	---	---
19: Hay and pasture	731,756	---	---	25	---	---	---	1,532	---	---
20: Cropland	509,697	---	---	22	---	---	---	1,138	---	---
21: Permanent pasture	222,059	---	---	34	---	---	---	394	---	---
22: Crops and pasture	2,545,434	---	---	49	---	---	2/	38,490	---	---
23: Nonfarm use	---	---	---	---	---	---	---	---	---	---
WASHINGTON										
24: Intertilled crops	357,704	86,361	271,343	65	35	89	56	13,908	990	12,918
25: Corn	34,222	2,895	31,327	92	67	95	89	1,277	29	1,248
26: Dry peas	5,466	1,957	3,509	4	2	52	5	75	12	63
27: Dry beans	33,085	0	33,085	95	0	95	100	1,255	0	1,255
28: Sugar beets	32,404	15	32,389	99	0	99	100	2,885	0	2,885
29: Fruits	117,855	16,103	101,752	88	62	94	81	5,242	206	5,036
30: Potatoes	23,401	4,599	18,802	78	75	79	80	939	85	854
31: Vegetables	88,893	56,342	32,551	71	69	74	35	1,699	615	1,084
32: Hops	10,509	171	10,338	80	100	80	99	242	2	240
33: Hirt	6,756	202	6,554	89	27	90	96	240	3	237
34: Nursery bulbs	5,113	4,077	1,036	92	1	91	21	54	38	16
35: Close-growing crops	1,310,571	1,256,488	54,083	44	43	66	3	19,309	17,787	1,522
36: Wheat	1,034,859	1,001,635	33,224	48	49	80	2	15,724	14,593	1,131
37: Oats	57,277	47,665	9,612	32	36	44	12	621	458	163
38: Barley	210,739	199,980	10,759	35	34	63	3	2,879	2,659	220
39: Other small grain	7,696	7,208	488	63	16	15	3	85	77	8
40: Hay and pasture	204,027	108,028	95,999	13	9	25	25	2,639	1,086	1,553
41: Cropland	202,026	106,286	95,740	13	9	25	25	2,598	1,049	1,549
42: Seed crops	2,001	1,742	259	36	2	34	14	41	37	4
43: Crops and pasture	1,872,302	1,450,877	421,425	37	34	55	15	35,856	19,863	15,993
44: Nonfarm use	---	---	---	---	---	---	---	387	---	---

See footnotes at end of table.

plant nutrients applied						Average rate per acre fertilized									
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O			
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	
5,695	5,647	48	5,068	5,022	46	13	13	64	54	53	139	48	48	134	1
45			21												2
43,603			42,208			43			61			59			3
19,295			20,619			53			49			53			4
218			218			34			73			73			5
494			494			40			60			60			6
7,180			6,041			40			119			100			7
2,449			3,679			3			31			46			8
2,218			3,530			5			59			93			9
526			437			34			15			13			10
1,691			1,110			68			139			91			11
522			522			26			70			70			12
9,010			5,558			59			119			74			13
10,978			8,842			32			56			45			14
5,280			4,442			31			54			45			15
2,939			2,206			34			60			45			16
1,952			1,626			31			54			45			17
807			568			34			50			41			18
14,833			16,707			4			42			46			19
11,382			13,649			4			45			54			20
3,451			3,058			4			31			28			21
69,414			67,757			30			55			53			22
															23
7,726	2,961	4,765	2,655	1,846	809	78	23	95	43	69	35	15	43	6	24
778	67	711	123	32	91	75	20	80	45	46	45	7	22	6	25
113	33	80	26	14	12	27	12	36	41	34	45	10	14	7	26
194	0	194	0	0	0	76	0	76	12	0	12	0	0	0	27
1,175	0	1,175	0	0	0	178	0	178	72	0	72	0	0	0	28
1,192	694	498	619	486	133	89	26	99	20	86	10	11	60	2	29
1,188	428	760	583	406	177	80	37	91	102	186	81	50	177	19	30
2,469	1,569	900	1,128	796	332	38	22	67	56	56	55	25	28	20	31
257	6	251	32	3	29	46	23	46	49	70	49	6	35	6	32
178	10	168	30	7	23	71	30	72	53	59	51	9	69	7	33
182	154	28	114	102	12	21	19	31	71	75	54	45	50	23	34
2,032	618	421	409	371	38	29	28	56	2	1	1	1	1	1	35
305	146	159	36	36	0	30	29	68	1	1	10	2	2	2	36
485	402	83	318	281	37	22	19	34	17	17	17	11	12	8	37
214	41	173	33	32	1	27	27	41	2	2	32	2	2	2	38
35	29	6	22	22	0	22	21	33	9	8	24	6	6	0	39
4,001	1,866	2,135	1,289	888	401	26	20	32	39	35	44	13	16	8	40
3,957	1,828	2,129	1,266	866	400	26	20	32	39	34	44	12	16	8	41
44	38	6	23	22	1	41	42	31	44	44	46	23	25	8	42
12,766	5,445	7,321	4,353	3,105	1,248	38	27	76	14	8	34	5	4	6	43
938			356												44

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
WEST VIRGINIA										
1: Intertilled crops----	161,606	160,575	1,031	49	49	100	2/	2,070	2,022	48:
2: Corn-----	117,737	117,737	0	62	62	0	0	1,384	1,384	0:
3: Tobacco-----	2,232	2,227	5	78	79	100	2/	80	80	2/
4: Soybeans-----	4,260	4,260	0	46	46	0	0	25	25	0:
5: Fruits-----	12,942	12,408	534	25	25	100	1	250	238	12:
6: Potatoes-----	3,640	3,614	26	38	38	100	2/	67	66	1:
7: Sweetpotatoes-----	99	99	0	89	89	0	0	2	2	0:
8: Vegetables-----	20,696	20,230	466	30	30	100	1	262	227	35:
9: Close-growing crops----	80,594	80,594	0	83	83	0	0	526	526	0:
10: Wheat-----	37,177	37,177	0	84	84	0	0	267	267	0:
11: Oats-----	26,700	26,700	0	81	81	0	0	166	166	0:
12: Barley-----	12,395	12,395	0	87	87	0	0	80	80	0:
13: Rye-----	318	318	0	23	23	0	0	2	2	0:
14: Buckwheat-----	3,711	3,711	0	87	87	0	0	9	9	0:
15: Other small grain----	293	293	0	88	88	0	0	2	2	0:
16: Hay and pasture-----	126,073	125,723	350	8	8	100	2/	639	635	4:
17: Cropland-----	96,134	95,784	350	8	8	100	2/	553	549	4:
18: Red clover seed----	483	483	0	28	28	0	0	1	1	0:
19: Alfalfa seed-----	36	36	0	30	30	0	0	0	0	0:
20: Permanent pasture----	29,420	29,420	0	11	11	0	0	85	85	0:
21: Crops and pasture----	368,273	366,892	1,381	19	19	100	2/	3,235	3,283	52:
22: Nonfarm use-----	---	---	---	---	---	---	---	217	---	---
WISCONSIN										
23: Intertilled crops----	2,284,513	---	---	74	---	---	---	14,984	---	---
24: Corn-----	2,079,758	---	---	80	---	---	---	11,937	---	---
25: Tobacco-----	12,488	---	---	91	---	---	---	224	---	---
26: Soybeans-----	33,958	---	---	45	---	---	---	40	---	---
27: Sugar beets-----	10,709	---	---	91	---	---	---	174	---	---
28: Fruits-----	11,239	11,082	157	40	40	100	1	51	50	1:
29: Potatoes-----	22,000	6,000	16,000	50	21	100	36	1,176	474	702:
30: Vegetables-----	114,361	112,778	1,583	39	38	100	1	1,382	1,369	13:
31: Close-growing crops----	1,309,749	---	---	44	---	---	---	2,632	---	---
32: Wheat-----	22,880	---	---	40	---	---	---	123	---	---
33: Oats-----	1,220,512	---	---	45	---	---	---	2,020	---	---
34: Barley-----	34,459	---	---	45	---	---	---	225	---	---
35: Rye-----	5,978	---	---	15	---	---	---	68	---	---
36: Buckwheat-----	1,397	---	---	10	---	---	---	4	---	---
37: Flaxseed-----	1,026	---	---	20	---	---	---	5	---	---
38: Other small grain----	23,497	---	---	40	---	---	---	187	---	---
39: Hay and pasture-----	293,329	---	---	5	---	---	---	1,698	---	---
40: Cropland-----	250,904	---	---	4	---	---	---	1,538	---	---
41: Permanent pasture----	42,425	---	---	30	---	---	---	160	---	---
42: Crops and pasture----	3,887,591	---	---	32	31	97	2/	19,314	---	---
43: Nonfarm use-----	---	---	---	---	---	---	---	422	---	---
WYOMING										
44: Intertilled crops----	62,933	---	---	41	---	---	76	713	---	---
45: Corn-----	17,640	---	---	33	---	---	36	198	---	---
46: Dry beans-----	6,310	---	---	12	---	---	97	50	---	---

See footnotes at end of table.

plant nutrients applied									Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O					
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land			
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds			
3,315	3,278	37	2,441	2,405	36	26	25	93	41	41	72	30	30	70			
2,526	2,526	0	1,761	1,761	0	24	24	0	43	43	0	30	30	0			
159	158	1	116	116	2	72	72	2	142	142	240	104	104	2			
50	50	0	50	50	0	12	12	0	23	23	0	23	23	0			
12	12	0	10	10	0	39	38	45	2	2	0	1	1	0			
157	156	1	143	142	1	37	37	46	86	86	100	78	78	100			
3	3	0	2	2	0	34	34	0	53	53	0	53	53	0			
408	373	35	359	324	35	25	22	150	39	37	150	35	32	150			
1,976	1,976	0	927	927	0	13	13	0	49	49	0	23	23	0			
798	798	0	400	400	0	14	14	0	43	43	0	22	22	0			
761	761	0	339	339	0	12	12	0	57	57	0	25	25	0			
330	330	0	161	161	0	13	13	0	53	53	0	26	26	0			
7	7	0	4	4	0	9	9	0	45	45	0	26	26	0			
74	74	0	19	19	0	5	5	0	40	40	0	10	10	0			
6	6	0	4	4	0	11	11	0	44	44	0	24	24	0			
3,755	3,744	11	2,664	2,653	11	10	10	23	60	60	63	42	42	63			
2,884	2,873	11	2,304	2,293	11	12	11	23	60	60	63	48	48	63			
12	12	0	7	7	0	2	2	0	48	48	0	29	29	0			
1	1	0	0	0	0	0	0	0	56	56	0	0	0	0			
858	858	0	353	353	0	6	6	0	58	58	0	24	24	0			
9,046	8,998	48	6,032	5,985	47	18	18	74	49	49	69	33	33	69			
327	---	---	327	---	---	---	---	---	---	---	---	---	---	---			
39,138	---	---	41,411	---	---	13	---	---	34	---	---	19	---	---			
32,242	---	---	32,278	---	---	11	---	---	31	---	---	31	---	---			
540	---	---	765	---	---	36	---	---	86	---	---	123	---	---			
424	---	---	800	---	---	2	---	---	25	---	---	47	---	---			
535	---	---	535	---	---	32	---	---	100	---	---	100	---	---			
0	0	0	202	199	3	9	9	12	0	0	0	3	36	38			
2,352	948	1,404	3,024	1,204	1,820	107	158	88	214	316	176	275	401	228			
3,045	2,938	107	3,807	3,585	222	24	24	16	53	52	135	67	65	280			
15,574	---	---	21,526	---	---	4	---	---	24	---	---	---	---	---			
420	---	---	515	---	---	11	---	---	37	---	---	45	---	---			
14,043	---	---	19,578	---	---	3	---	---	23	---	---	32	---	---			
623	---	---	775	---	---	13	---	---	36	---	---	45	---	---			
50	---	---	65	---	---	22	---	---	17	---	---	2	---	---			
12	---	---	15	---	---	6	---	---	17	---	---	21	---	---			
14	---	---	19	---	---	10	---	---	27	---	---	37	---	---			
412	---	---	559	---	---	16	---	---	35	---	---	48	---	---			
3,764	---	---	7,329	---	---	12	---	---	26	---	---	50	---	---			
2,965	---	---	6,007	---	---	12	---	---	24	---	---	48	---	---			
799	---	---	1,322	---	---	8	---	---	37	---	---	62	---	---			
58,476	---	---	70,266	---	---	10	29	81	30	60	170	36	77	231			
1,279	---	---	537	---	---	---	---	---	---	---	---	---	---	---			
1,684	---	---	34	---	---	23	---	---	54	---	---	1	---	---			
44	---	---	1	---	---	22	---	---	5	---	---	2	---	---			
73	---	---	3	---	---	16	---	---	23	---	---	1	---	---			

- Continued

Table 1.- Estimated use of principal

Crop	Acreage fertilized			Percentage of harvested acreage fertilized			Percentage of harvested acreage irrigated	Quantity of N		
	Total	Nonirrigated acreage	Irrigated acreage	All	Non-irrigated	Irrigated		All land	Non-irrigated land	Irrigated land
	Acres	Acres	Acres	Per-cent	Per-cent	Per-cent	Percent	Tons	Tons	Tons
WYOMING - Cont.										
1: Dry peas-----	2,000	---	---	51	---	---	100	6	---	---
2: Sugar beets-----	31,246	---	---	100	---	---	100	399	---	---
3: Potatoes-----	3,337	---	---	68	---	---	87	54	---	---
4: Vegetables-----	2,400	---	---	100	---	---	64	6	---	---
5: Close-growing crops--	28,851	---	---	7	---	---	25	193	---	---
6: Wheat-----	3,390	---	---	1	---	---	5	24	---	---
7: Oats-----	12,360	---	---	14	---	---	46	91	---	---
8: Barley-----	13,101	---	---	12	---	---	45	78	---	---
9: Hay and pasture-----	64,831	---	---	4	---	---	57	154	---	---
10: Cropland-----	52,186	---	---	4	---	---	51	79	---	---
11: Seed crops-----	3,715	---	---	12	---	---	61	1	---	---
12: Permanent pasture--	9,930	---	---	4	---	---	4	74	---	---
13: Crops and pasture--	156,615	---	---	11	---	---	86	1,060	---	---
14: Nonfarm use-----	---	---	---	---	---	---	---	37	---	---

- 1/ Includes velvet beans.
- 2/ Less than 1 unit.
- 3/ Includes fruits and vegetables.
- 4/ Nonfarm use of fertilizer estimated to be from 10 to 15 percent of the total.
- 5/ Includes dry beans.
- 6/ Includes cowpeas and popcorn.
- 7/ Includes fruits, vegetables, and potatoes.
- 8/ Includes wheat.
- 9/ Includes soybeans and dry beans.

plant nutrients applied						Average rate per acre fertilized								
Available P ₂ O ₅			K ₂ O			N			Available P ₂ O ₅			K ₂ O		
All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land	All land	Non-irrigated land	Irrigated land
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
24	---	---	2/	---	---	6	---	---	24	---	---	2/	---	---
1,381	---	---	10	---	---	26	---	---	88	---	---	1	---	---
136	---	---	20	---	---	32	---	---	82	---	---	12	---	---
26	---	---	0	---	---	5	---	---	22	---	---	0	---	---
318	---	---	5	---	---	14	---	---	22	---	---	2/	---	---
41	---	---	0	---	---	14	---	---	24	---	---	0	---	---
146	---	---	2/	---	---	15	---	---	24	---	---	2/	---	---
131	---	---	5	---	---	12	---	---	20	---	---	1	---	---
1,001	---	---	5	---	---	5	---	---	31	---	---	2/	---	---
888	---	---	4	---	---	3	---	---	34	---	---	2/	---	---
53	---	---	2/	---	---	1	---	---	39	---	---	2/	---	---
60	---	---	1	---	---	15	---	---	12	---	---	2/	---	---
3,003	---	---	44	---	---	13	---	---	37	---	---	1	---	---
8	---	---	0	---	---	---	---	---	---	---	---	---	---	---

- 10/ Includes oats, barley, rye, buckwheat, other small grain.
- 11/ Includes sugarcane, broomcorn, cowpeas.
- 12/ Includes grass seeds.
- 13/ Includes hairy and other vetch and Austrian winter peas.
- 14/ Includes fruits and potatoes.
- 15/ Includes alfalfa and clover seeds.
- 16/ Includes cowpeas.
- 17/ Includes permanent pasture.

Table 2.- Estimated use of principal plant nutrients

Crop	Extent of application						Quantity of		
	Acreage fertilized			Percentage of acreage fertilized			N		
	1947	1950	1954	1947	1950	1954	1947	1950	1954
	1,000 acres	1,000 acres	1,000 acres	Percent	Percent	Percent	Tons	Tons	Tons
NORTHEAST									
1: Intertilled crops-----	4,620	4,628	4,248	72	81	83	69,300	73,280	81,372
2: Corn-----	2,454	2,406	2,665	83	79	89	11,900	22,284	31,158
3: Tobacco-----	114	116	97	99	99	100	3,900	4,528	4,094
4: Large seeded legumes-----	185	247	306	75	69	66	1,400	900	2,188
5: Fruits-----	441	493	266	62	74	60	7,500	7,006	4,024
6: Potatoes and sweetpotatoes-----	568	438	333	97	98	95	25,500	13,316	17,110
7: Vegetables-----	825	928	581	91	84	78	18,900	25,246	22,798
8: Other-----	33	---	---	37	---	---	200	---	---
9: Close-growing crops-----	2,505	3,656	2,733	57	82	79	10,000	17,801	22,234
10: Wheat-----	1,439	1,653	1,126	75	90	89	6,300	8,652	9,509
11: Oats and barley-----	885	1,737	951	46	76	76	3,100	7,969	6,099
12: Other-----	181	266	656	33	76	70	600	1,180	6,626
13: Hay and pasture-----	1,566	2,206	1,945	10	12	16	5,200	8,386	14,174
14: Cropland-----	1,115	1,224	1,591	11	12	14	3,200	6,358	11,821
15: Permanent pasture-----	451	982	354	7	12	53	2,000	2,028	2,353
16: Unspecified-----	---	106	1	---	68	26	---	442	29
17: Crops and pasture-----	8,691	10,596	8,927	32	37	43	84,500	99,909	117,809
18: Nonfarm use-----	---	---	---	---	---	---	2,900	1,314	14,724
LAKE STATES									
19: Intertilled crops-----	---	6,110	7,040	---	52	51	---	18,187	52,376
20: Corn-----	---	4,509	5,843	---	48	59	---	6,842	39,285
21: Tobacco-----	---	13	13	---	60	91	---	38	234
22: Sugar crops-----	---	169	153	---	84	99	---	618	991
23: Large seeded legumes-----	---	449	489	---	68	19	---	634	1,692
24: Fruits-----	---	276	121	---	87	50	---	5,382	2,126
25: Potatoes and sweetpotatoes-----	---	165	122	---	61	68	---	1,254	3,212
26: Vegetables-----	---	530	284	---	64	42	---	3,418	3,716
27: Other-----	---	3	15	---	10	100	---	1	120
28: Close-growing crops-----	---	5,373	4,479	---	35	34	---	10,735	17,611
29: Wheat-----	---	1,303	1,066	---	57	61	---	2,686	5,867
30: Oats and barley-----	---	3,633	3,104	---	32	31	---	7,326	10,052
31: Other-----	---	437	309	---	26	21	---	723	1,697
32: Hay and pasture-----	---	1,334	1,092	---	8	7	---	2,976	2,781
33: Cropland-----	---	842	982	---	9	6	---	1,236	2,519
34: Permanent pasture-----	---	492	110	---	7	34	---	1,740	262
35: Unspecified-----	---	14	---	---	95	---	---	---	---
36: Crops and pasture-----	---	12,831	12,611	---	30	29	---	31,898	72,768
37: Nonfarm use-----	---	---	---	---	---	---	---	417	1,978
CORN BELT									
38: Intertilled crops-----	---	16,736	22,869	---	40	52	---	67,609	256,714
39: Corn-----	---	13,983	20,414	---	47	64	---	54,317	237,042
40: Cotton-----	---	265	322	---	60	76	---	2,907	6,416
41: Tobacco-----	---	34	25	---	99	99	---	796	1,327
42: Sugar crops-----	---	34	---	---	94	---	---	203	---
43: Large seeded legumes-----	---	1,241	1,570	---	13	14	---	1,346	1,375
44: Fruits-----	---	337	73	---	66	39	---	2,198	2,875
45: Potatoes and sweetpotatoes-----	---	73	20	---	78	54	---	1,024	591
46: Vegetables-----	---	732	242	---	65	40	---	4,518	5,758
47: Other-----	---	37	203	---	25	53	---	300	1,330

See footnote at end of table.

plant nutrients applied									Average rates per acre fertilized								
P ₂ O ₅			K ₂ O			N			P ₂ O ₅			K ₂ O					
1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954			
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds			
170,000	155,148	144,080	114,400	126,421	125,179	30	32	38	74	67	68	50	55	59			
49,300	52,591	58,155	21,800	31,415	42,126	10	19	23	40	44	44	18	26	32			
6,300	4,860	4,748	5,100	7,722	6,760	68	78	85	110	84	98	88	133	140			
4,600	4,099	6,392	2,200	3,108	5,836	15	7	14	49	33	42	24	25	38			
8,200	4,136	2,767	4,000	3,323	2,779	34	28	30	37	17	21	18	13	21			
57,500	39,185	30,780	54,900	42,472	34,126	90	61	103	202	179	185	193	194	205			
43,100	50,277	41,238	26,100	38,381	33,552	46	54	79	105	108	142	63	83	116			
1,000	---	---	300	---	---	13	---	---	60	---	---	20	---	---			
48,600	79,560	44,609	19,900	35,701	33,471	8	10	16	39	43	33	16	19	24			
27,000	37,666	21,489	12,800	17,254	15,562	9	10	17	37	46	38	18	21	28			
17,700	36,346	12,636	5,900	16,818	8,394	7	9	13	40	42	27	13	19	18			
3,900	5,548	10,484	1,200	1,629	9,515	7	9	20	43	42	32	14	12	29			
47,700	54,944	50,854	11,900	27,323	44,735	7	8	15	61	50	52	15	25	46			
31,200	32,930	43,205	9,700	19,816	38,773	6	10	15	56	54	54	17	32	49			
16,500	22,014	7,649	2,200	7,507	5,962	9	4	13	73	45	43	10	15	34			
---	1,706	35	---	421	35	---	8	54	---	32	65	---	8	65			
266,300	291,358	239,578	146,200	189,866	203,420	21	19	26	61	55	54	34	36	46			
4,900	2,124	27,711	1,800	1,477	16,844	---	---	---	---	---	---	---	---	---			
---	77,070	114,632	---	54,236	105,095	---	6	15	---	25	33	---	18	30			
---	44,350	82,839	---	28,213	76,171	---	3	13	---	20	28	---	13	26			
---	113	550	---	227	775	---	6	37	---	17	87	---	36	123			
---	4,189	3,802	---	2,919	3,077	---	7	13	---	50	50	---	35	40			
---	5,553	8,618	---	507	6,817	---	3	7	---	25	35	---	2	28			
---	4,910	2,024	---	4,895	2,226	---	39	35	---	36	34	---	36	37			
---	4,640	7,084	---	6,800	6,905	---	15	53	---	56	116	---	82	113			
---	13,314	9,415	---	10,674	8,524	---	13	33	---	50	66	---	40	60			
---	1	300	---	1	600	---	20	28	---	20	40	---	20	80			
---	55,521	62,479	---	43,680	58,963	---	4	8	---	21	28	---	16	26			
---	15,128	18,339	---	10,849	16,926	---	4	11	---	23	34	---	17	32			
---	36,077	39,965	---	30,287	40,015	---	4	6	---	20	26	---	17	26			
---	4,386	4,175	---	2,544	2,022	---	3	11	---	20	27	---	12	13			
---	24,314	23,956	---	14,754	19,446	---	4	5	---	36	44	---	22	36			
---	15,194	21,718	---	9,834	17,472	---	3	5	---	36	44	---	23	36			
---	9,120	2,238	---	4,920	1,974	---	7	5	---	37	40	---	20	36			
---	280	---	---	560	---	---	---	---	---	39	---	---	78	---			
---	157,255	201,067	---	113,230	183,504	---	5	12	---	25	32	---	18	29			
---	725	2,516	---	575	1,253	---	---	---	---	---	---	---	---	---			
---	207,167	326,804	---	159,414	339,124	---	8	22	---	25	29	---	19	30			
---	171,962	282,310	---	124,547	290,061	---	8	23	---	25	28	---	18	28			
---	2,916	5,010	---	3,972	5,677	---	22	40	---	22	31	---	30	35			
---	1,914	2,145	---	1,809	2,980	---	47	107	---	112	172	---	106	240			
---	844	---	---	1,189	---	---	12	---	---	50	---	---	70	---			
---	13,412	25,277	---	12,740	26,773	---	2	2	---	22	32	---	21	34			
---	2,685	1,215	---	2,215	1,201	---	13	79	---	16	33	---	13	35			
---	1,232	918	---	3,691	1,413	---	28	59	---	34	91	---	101	140			
---	11,752	7,524	---	9,101	9,241	---	12	43	---	32	62	---	25	77			
---	450	2,405	---	150	1,698	---	16	13	---	24	24	---	8	17			

Continued

Table 2.- Estimated use of principal plant nutrients

Crop	Extent of application						Quantity of		
	Acreage fertilized			Percentage of acreage fertilized			N		
	1947	1950	1954	1947	1950	1954	1947	1950	1954
	1,000 acres	1,000 acres	1,000 acres	Percent	Percent	Percent	Tons	Tons	Tons
CORN BELT - Cont.									
1: Close-growing crops-----	---	10,517	10,123	---	46	51	---	32,703	79,124
2: Wheat-----	---	5,822	4,833	---	83	83	---	19,985	42,326
3: Oats and barley-----	---	4,536	4,976	---	30	38	---	12,316	34,219
4: Other-----	---	159	314	---	31	46	---	402	2,579
5: Hay and pasture-----	---	3,483	2,835	---	11	10	---	3,553	16,324
6: Cropland-----	---	1,421	2,337	---	14	9	---	2,145	12,181
7: Permanent pasture-----	---	2,062	498	---	9	37	---	1,438	4,143
8: Unspecified-----	---	23	---	---	75	---	---	6	---
9: Crops and pasture-----	---	30,759	35,827	---	32	39	---	103,901	352,162
10: Nonfarm use-----	---	---	---	---	---	---	---	2,088	9,357
CORN BELT and LAKE STATES									
11: Intertilled crops-----	21,758	22,846	29,908	39	42	52	42,300	85,796	309,090
12: Corn-----	17,284	18,491	26,258	42	47	63	26,400	61,159	276,327
13: Cotton-----	207	265	322	43	60	76	300	2,907	6,416
14: Tobacco-----	49	47	38	84	84	96	300	834	1,561
15: Sugar crops-----	91	203	153	51	85	99	200	821	991
16: Large seeded legumes-----	2,123	1,690	1,983	20	16	15	2,600	1,980	2,206
17: Fruits-----	215	613	193	30	74	80	4,300	7,580	5,001
18: Potatoes and sweetpotatoes-----	343	238	142	75	65	66	2,100	2,278	3,803
19: Vegetables-----	1,238	1,262	525	60	65	78	5,900	7,936	10,474
20: Other-----	208	37	294	61	25	74	200	302	2,311
21: Close-growing crops-----	13,510	15,890	14,603	39	42	44	47,800	43,438	96,739
22: Wheat-----	7,446	7,125	5,899	79	76	78	13,000	22,671	48,193
23: Oats and barley-----	5,976	8,170	8,080	26	31	35	34,700	19,642	44,271
24: Other-----	88	595	624	3	27	29	100	1,125	4,275
25: Hay and pasture-----	2,041	4,817	3,928	5	10	9	3,200	6,559	19,105
26: Cropland-----	1,313	2,264	3,319	5	12	8	1,600	3,381	14,700
27: Permanent pasture-----	728	2,553	609	5	9	36	1,600	3,178	4,405
28: Unspecified-----	---	37	---	---	8	---	---	6	---
29: Crops and pasture-----	37,309	43,590	48,439	29	31	36	93,300	135,799	424,934
30: Nonfarm use-----	---	---	---	---	---	---	5,100	2,505	11,335
APPALACHIAN									
31: Intertilled crops-----	10,657	9,861	9,545	79	71	79	121,900	127,280	181,526
32: Corn-----	6,600	5,451	5,751	82	67	83	49,400	61,965	101,491
33: Cotton-----	1,172	1,190	1,089	83	95	92	14,600	13,039	20,132
34: Tobacco-----	1,379	1,212	1,152	98	99	99	34,900	22,420	33,390
35: Large seeded legumes-----	520	636	711	---	44	48	1,900	856	690
36: Fruits-----	152	228	141	29	57	60	2,400	3,970	3,012
37: Potatoes and sweetpotatoes-----	257	182	108	74	97	86	11,600	6,324	2,809
38: Vegetables-----	499	894	491	87	83	64	6,500	17,734	18,246
39: Other-----	78	68	102	47	72	57	600	1,272	1,776
40: Close-growing crops-----	2,027	2,811	1,625	51	73	67	9,900	17,613	21,267
41: Wheat-----	1,495	1,304	708	79	76	71	6,500	8,082	9,171
42: Oats and barley-----	484	1,268	775	32	78	65	3,100	8,463	10,387
43: Other-----	48	239	142	9	49	56	300	1,068	1,707
44: Hay and pasture-----	2,593	4,609	3,111	14	16	18	3,000	7,853	14,019
45: Cropland-----	1,206	1,652	2,348	17	22	15	1,800	1,218	11,649
46: Permanent pasture-----	1,387	2,957	763	12	14	42	1,200	6,635	2,370

See footnote at end of table.

by regions and crops, 1947, 1950, and 1954

plant nutrients applied						Average rates per acre fertilized								
P ₂ O ₅			K ₂ O			N			P ₂ O ₅			K ₂ O		
1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
---	171,393	194,673	---	82,436	163,075	---	6	16	---	33	38	---	16	32
---	101,340	91,181	---	55,313	88,039	---	7	18	---	35	38	---	19	36
---	67,595	98,580	---	25,914	71,326	---	5	14	---	30	40	---	11	29
---	2,458	4,912	---	1,209	3,710	---	5	16	---	31	31	---	15	24
---	176,040	59,220	---	20,893	43,825	---	2	12	---	101	42	---	12	31
---	75,429	49,330	---	7,285	37,197	---	3	10	---	106	42	---	10	32
---	100,611	9,890	---	13,608	6,628	---	1	17	---	98	40	---	13	27
---	330	---	---	636	---	---	1	---	---	29	---	---	56	---
---	554,930	580,697	---	263,379	546,024	---	7	20	---	36	32	---	17	30
---	4,932	17,126	---	4,134	16,964	---	---	---	---	---	---	---	---	---
248,900	284,237	441,435	144,500	213,650	444,213	4	8	21	23	25	30	13	19	30
170,300	216,312	365,149	97,900	152,760	366,232	3	7	21	20	23	28	11	17	28
1,400	2,916	5,010	2,100	3,972	5,677	3	22	40	14	22	31	20	30	35
1,100	2,027	2,694	900	2,036	3,754	11	36	83	47	87	144	38	87	200
2,300	5,033	3,802	1,200	4,108	3,077	6	8	13	49	50	50	28	41	40
23,400	18,965	32,557	12,400	13,247	32,251	2	2	2	22	22	33	12	16	33
3,600	7,595	3,239	1,500	7,110	3,507	40	25	52	33	25	34	14	23	36
13,700	5,872	8,002	9,800	10,491	8,318	12	19	53	80	49	112	57	88	117
30,100	25,066	16,939	17,700	19,775	17,765	10	13	40	49	40	65	29	31	68
3,000	451	4,043	1,000	151	3,632	29	16	16	29	24	28	10	8	25
168,900	226,984	257,153	87,400	126,116	222,034	7	6	13	25	29	35	13	16	30
92,300	116,468	109,520	46,900	66,162	104,965	4	6	16	25	33	37	13	19	36
76,000	103,672	138,545	40,300	56,201	111,336	12	5	11	25	25	34	13	14	28
600	6,844	9,088	200	3,753	5,733	1	4	14	14	23	29	4	13	17
40,700	200,354	83,176	8,900	35,647	63,271	3	3	10	40	83	42	9	15	32
26,900	90,623	71,048	5,600	17,119	54,669	2	3	9	41	80	43	9	15	33
13,800	109,731	12,128	3,300	18,528	8,602	4	2	14	38	86	40	9	15	27
---	610	---	---	1,196	---	---	1/	---	---	33	---	---	64	---
458,500	712,185	781,764	240,800	376,609	729,518	5	6	18	25	33	32	13	17	30
5,500	5,657	20,042	2,300	4,709	18,217	---	---	---	---	---	---	---	---	---
229,500	212,611	235,537	138,500	128,216	215,393	23	25	38	43	43	49	26	26	45
100,500	80,292	98,727	52,200	50,664	89,214	15	23	35	30	29	34	16	19	31
20,400	23,600	22,583	13,700	8,833	23,320	25	22	37	35	40	41	23	15	43
72,400	58,280	69,411	49,600	37,896	61,572	51	37	58	105	96	120	72	63	107
8,200	8,842	11,581	4,700	8,248	16,521	7	3	2	32	28	33	18	26	46
1,700	2,638	1,417	2,300	1,955	1,180	31	35	43	23	23	20	30	17	17
16,400	7,963	5,348	9,200	5,920	4,421	90	66	52	128	88	99	72	65	82
8,400	29,868	24,719	6,100	13,896	17,923	26	40	74	34	67	101	25	31	73
1,500	1,128	1,751	700	804	1,232	17	38	35	40	33	35	18	24	24
28,500	44,252	32,525	15,200	21,284	24,185	10	13	26	28	31	40	15	15	30
21,700	21,229	14,104	10,000	10,244	10,561	9	12	26	29	33	40	13	16	30
6,000	19,035	15,667	4,800	9,326	11,654	13	13	27	25	30	40	20	15	30
800	3,988	2,754	400	1,714	1,970	14	9	24	34	33	39	15	14	28
109,400	106,310	64,677	16,600	31,902	60,203	2	3	9	84	46	42	13	14	39
45,500	32,717	49,352	9,400	8,146	46,879	3	1	10	75	39	42	14	10	40
63,900	73,593	15,325	7,200	23,756	13,324	2	4	6	92	50	40	10	16	35

- Continued

Table 2.- Estimated use of principal plant nutrients

Crop	Extent of application						Quantity of		
	Acreage fertilized			Percentage of acreage fertilized			N		
	1947	1950	1954	1947	1950	1954	1947	1950	1954
	1,000 acres	1,000 acres	1,000 acres	Percent	Percent	Percent	Tons	Tons	Tons
APPALACHIAN - Cont.									
1: Unspecified-----	---	26	2	---	34	8	---	645	12
2: Crops and pasture-----	15,277	17,307	14,283	42	37	44	134,800	153,391	216,824
3: Nonfarm use-----	---	---	---	---	---	---	800	2,215	11,196
SOUTHEAST									
4: Intertilled crops-----	15,565	14,312	12,208	93	89	88	183,400	192,050	239,203
5: Corn-----	7,473	7,659	6,254	92	89	94	68,100	70,600	106,153
6: Cotton-----	3,835	3,266	2,969	99	99	99	47,000	56,223	55,711
7: Tobacco-----	272	229	228	100	100	92	5,800	4,855	6,498
8: Sugar crops-----	36	84	43	40	95	83	200	582	224
9: Large seeded legumes-----	1,766	935	1,010	86	67	60	12,400	3,491	4,950
10: Fruits-----	788	881	750	99	92	77	11,800	27,801	34,498
11: Potatoes and sweetpotatoes-----	270	94	87	90	99	85	3,300	2,845	3,326
12: Vegetables-----	975	1,043	809	99	85	84	31,000	23,949	27,035
13: Other-----	150	121	58	75	84	51	800	1,704	808
14: Close-growing crops-----	2,288	1,989	1,112	80	83	72	9,800	15,602	18,928
15: Wheat-----	470	303	207	87	88	82	3,400	2,438	3,538
16: Oats and barley-----	1,755	1,663	877	78	83	72	6,000	13,066	14,942
17: Other-----	63	23	28	83	37	45	400	98	448
18: Hay and pasture-----	1,527	2,686	3,567	23	34	40	2,400	7,671	39,867
19: Cropland-----	1,011	1,567	1,918	36	48	32	1,300	3,133	20,351
20: Permanent pasture-----	516	1,119	1,649	14	24	56	1,100	4,538	19,516
21: Unspecified-----	---	106	13	---	30	19	---	434	127
22: Crops and pasture-----	19,380	19,093	16,900	74	72	69	195,600	215,757	298,125
23: Nonfarm use-----	---	---	---	---	---	---	1,400	3,200	10,348
DELTA									
24: Intertilled crops-----	7,623	8,334	7,280	62	72	71	99,400	129,580	181,415
25: Corn-----	2,638	3,386	2,181	56	73	74	24,300	56,653	48,198
26: Cotton-----	3,619	3,519	4,135	68	77	96	56,600	55,435	114,789
27: Tobacco-----	---	1	---	---	100	---	---	1	---
28: Sugar crops-----	285	301	243	84	95	91	5,900	3,825	8,229
29: Large seeded legumes-----	150	266	247	27	27	13	900	185	547
30: Fruits-----	168	220	129	67	85	58	1,200	4,661	3,678
31: Potatoes and sweetpotatoes-----	201	50	85	85	97	73	5,300	1,075	893
32: Vegetables-----	517	556	185	74	79	52	5,000	7,145	4,328
33: Other-----	45	30	75	26	70	40	2	600	753
34: Close-growing crops-----	1,216	894	1,622	57	59	70	6,400	11,371	25,587
35: Wheat-----	---	29	---	---	98	---	---	490	---
36: Oats and barley-----	591	487	474	51	82	61	2,600	6,896	7,484
37: Other-----	625	378	1,148	64	43	74	3,800	3,985	18,103
38: Hay and pasture-----	1,183	1,467	1,407	17	12	16	3,900	2,918	5,101
39: Cropland-----	569	561	964	23	17	13	1,600	1,140	3,272
40: Permanent pasture-----	614	906	443	14	10	32	2,300	1,778	1,829
41: Unspecified-----	---	1	---	---	20	---	---	3	---
42: Crops and pasture-----	10,022	10,696	10,309	47	43	48	109,700	146,872	212,103
43: Nonfarm use-----	---	---	---	---	---	---	800	125	1,870

See footnote at end of table.

plant nutrients applied						Average rates per acre fertilized								
P ₂ O ₅			K ₂ O			N			P ₂ O ₅			K ₂ O		
1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
---	649	24	---	1,842	26	---	50	11	---	50	22	---	142	23
367,400	363,822	332,763	170,300	183,244	299,807	18	18	30	18	42	47	22	21	42
1,300	8,624	13,127	500	4,033	10,735	---	---	---	---	---	---	---	---	---
295,000	253,858	258,275	187,000	193,445	242,529	25	27	39	38	35	42	24	27	40
91,100	73,335	87,562	55,000	48,347	72,087	18	18	34	24	19	28	15	13	23
76,800	75,615	68,972	46,200	45,985	55,626	24	34	38	40	46	46	24	28	37
13,700	11,402	15,029	13,400	9,056	16,376	43	42	57	123	100	132	99	79	144
500	885	336	400	2,463	3,111	10	14	10	25	21	16	21	59	145
31,200	7,971	18,392	19,100	6,090	19,009	14	7	10	35	17	36	22	13	38
32,200	33,925	20,487	19,000	38,794	31,349	37	63	92	82	77	55	48	88	84
8,800	5,509	6,044	5,000	4,199	5,497	25	61	77	65	117	139	37	89	127
36,200	43,826	40,531	22,600	37,251	38,682	65	46	67	74	84	100	46	71	96
1,500	1,390	922	6,300	1,260	792	10	28	28	20	23	32	84	21	27
20,000	16,303	14,447	10,500	12,424	15,620	9	16	34	17	16	26	9	12	28
3,800	2,671	2,210	2,500	2,294	2,165	14	16	34	16	18	21	11	15	21
16,000	13,467	11,908	7,800	9,994	13,015	7	16	34	18	16	27	9	12	30
200	165	329	200	136	440	13	8	33	8	14	24	5	12	32
33,800	52,696	64,604	10,700	21,207	57,811	3	6	22	44	39	36	14	16	32
15,900	21,871	35,152	5,900	9,391	32,988	3	4	21	31	28	37	12	12	34
17,900	30,825	29,452	4,800	11,816	24,823	5	8	24	69	55	36	19	21	30
---	2,159	236	---	888	236	---	8	19	---	41	36	---	17	36
348,800	325,016	337,562	208,200	227,964	316,196	20	23	35	36	34	40	21	24	37
1,500	4,900	13,893	900	3,696	11,593	---	---	---	---	---	---	---	---	---
62,600	53,882	72,519	33,100	39,769	70,092	26	31	50	34	13	20	16	10	19
15,600	11,812	19,164	7,600	9,444	16,127	18	33	44	12	7	18	6	6	15
25,200	23,302	41,054	16,500	19,176	45,737	31	32	55	14	13	20	11	11	22
---	2	---	---	1	---	20	---	---	---	40	---	---	20	---
500	982	795	800	560	509	41	25	68	4	7	---	---	20	---
1,500	2,670	1,752	200	1,015	1,566	12	1	4	20	20	14	3	8	13
3,600	3,936	3,459	700	2,701	2,382	14	42	57	43	36	54	9	25	37
9,200	1,575	1,199	4,600	1,160	602	53	38	21	92	56	28	46	41	14
6,800	9,303	4,543	2,600	5,562	2,747	19	26	47	26	33	49	10	20	30
200	300	553	100	150	422	8	40	20	8	20	15	4	10	11
6,300	6,070	9,756	2,600	4,910	14,078	11	25	32	10	14	12	4	11	17
---	380	---	---	190	---	---	33	---	---	26	---	---	13	---
4,900	2,790	2,954	2,300	2,325	2,460	9	28	32	16	11	12	8	10	10
1,400	2,900	6,802	300	2,395	11,618	12	24	32	4	15	12	1	13	20
30,600	31,650	16,745	2,900	7,218	14,485	7	4	7	52	43	24	5	10	21
11,200	11,025	11,124	200	1,238	9,577	6	4	7	39	39	23	1	4	20
19,400	20,625	5,621	2,700	5,980	4,908	8	4	8	63	46	25	9	13	22
---	12	---	---	6	---	---	5	---	---	18	---	---	9	---
99,500	91,614	99,020	38,600	51,903	98,655	22	27	41	20	17	19	8	10	19
500	262	2,859	100	125	1,497	---	---	---	---	---	---	---	---	---

- Continued

Table 2.- Estimated use of principal plant nutrients

Crop	Extent of application						Quantity of		
	Acreage fertilized			Percentage of acreage fertilized			N		
	1947	1950	1954	1947	1950	1954	1947	1950	1954
	1,000 acres	1,000 acres	1,000 acres	Percent	Percent	Percent	Tons	Tons	Tons
SOUTHERN PLAINS									
1: Intertilled crops-----	2,914	3,268	3,298	12	15	16	18,600	19,916	58,679
2: Corn-----	777	802	632	19	18	30	3,000	5,935	10,965
3: Cotton-----	622	1,270	1,196	7	16	14	1,900	6,060	23,651
4: Sugar crops-----	---	4	---	---	70	---	---	101	---
5: Large seeded legumes-----	644	464	309	27	63	47	1,300	804	1,558
6: Fruits-----	99	91	33	36	29	19	3,300	3,320	421
7: Potatoes and sweetpotatoes-----	82	26	19	69	62	45	1,800	445	367
8: Vegetables-----	566	531	302	59	73	51	7,000	3,172	5,481
9: Other-----	124	80	807	2	1	9	300	79	16,236
10: Close-growing crops-----	1,093	1,180	1,579	6	7	14	2,500	7,932	14,152
11: Wheat-----	885	711	735	6	6	10	2,200	1,679	3,993
12: Oats and barley-----	100	151	254	3	5	13	200	793	1,460
13: Other-----	108	318	590	14	42	33	100	5,460	8,699
14: Hay and pasture-----	754	2,930	1,630	4	2	9	200	5,733	6,836
15: Cropland-----	320	1,712	1,209	10	44	9	100	3,525	4,148
16: Permanent pasture-----	434	1,218	421	3	1	9	100	2,208	2,688
17: Crops and pasture-----	4,761	7,378	6,507	8	5	13	21,300	33,581	79,667
18: Nonfarm use-----	---	---	---	---	---	---	500	12	---
NORTHERN PLAINS									
19: Intertilled crops-----	684	1,380	3,436	4	8	16	6,900	11,177	52,749
20: Corn-----	610	956	2,791	4	7	20	6,800	9,768	46,984
21: Cotton-----	---	1/	---	---	75	---	---	1	---
22: Tobacco-----	---	1/	---	---	90	---	---	2	---
23: Sugar crops-----	45	63	86	37	54	79	100	419	969
24: Large seeded legumes-----	---	158	81	---	21	10	---	41	702
25: Fruits-----	1	1	5	4	5	28	---	13	64
26: Potatoes and sweetpotatoes-----	7	77	66	3	39	53	1/	347	546
27: Vegetables-----	3	76	19	2	37	30	1/	106	262
28: Other-----	18	49	388	1	2	6	---	480	3,222
29: Close-growing crops-----	1,897	3,569	4,942	4	9	12	600	15,739	33,755
30: Wheat-----	1,590	3,190	3,184	5	10	14	600	14,229	21,816
31: Oats and barley-----	291	374	1,659	2	4	12	---	1,469	11,443
32: Other-----	16	5	99	1	1	2	1/	41	496
33: Hay and pasture-----	228	989	712	1	3	3	300	3,051	6,034
34: Cropland-----	154	772	578	1	8	3	200	1,436	4,346
35: Permanent pasture-----	74	217	134	1	1	14	100	1,615	1,688
36: Unspecified-----	---	---	1	---	---	6	---	---	33
37: Crops and pasture-----	2,809	5,938	9,091	5	7	11	7,800	29,967	92,571
38: Nonfarm use-----	---	---	---	---	---	---	400	7	483
MOUNTAIN									
39: Intertilled crops-----	994	864	1,432	22	45	44	12,000	22,503	43,044
40: Corn-----	73	22	164	6	5	22	100	237	4,558
41: Cotton-----	51	237	491	13	51	77	600	10,326	18,937
42: Sugar crops-----	345	167	285	75	80	90	2,700	2,937	6,530
43: Large seeded legumes-----	95	92	37	9	39	9	100	721	210
44: Fruits-----	51	30	33	45	40	39	2,000	1,067	1,278
45: Potatoes and sweetpotatoes-----	143	132	158	56	67	68	1,700	1,625	3,558
46: Vegetables-----	223	166	105	75	67	53	4,600	5,140	3,580
47: Other-----	13	18	159	1	25	26	200	450	4,393

See footnote at end of table..

plant nutrients applied						Average rates per acre fertilized								
P ₂ O ₅			K ₂ O			N			P ₂ O ₅			K ₂ O		
1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
39,800	30,344	45,844	10,300	9,216	15,326	13	12	36	27	19	28	7	6	9
6,600	6,094	9,096	1,700	2,008	4,176	8	14	35	17	15	29	4	4	13
6,900	12,340	17,235	1,800	3,360	4,316	6	10	40	22	19	29	6	5	7
---	106	---	---	5	---	---	48	---	---	50	---	---	2	---
6,500	5,076	4,409	1,200	1,156	1,727	4	3	10	20	22	29	4	5	11
300	1,005	376	200	22	186	67	73	26	6	22	23	4	1	11
1,100	470	316	1,100	198	179	45	35	39	27	36	34	28	15	19
17,000	4,858	6,026	4,100	2,428	2,744	25	12	36	60	18	40	14	9	18
1,400	395	8,386	200	39	1,998	4	2	40	22	10	21	3	1	5
11,200	12,380	19,367	400	940	3,414	5	13	18	20	21	25	1	2	4
9,500	7,773	6,255	200	---	544	5	5	11	21	22	17	1	---	1
900	1,745	2,634	200	303	542	4	10	11	19	23	21	4	4	4
800	2,862	10,478	---	637	2,328	2	34	29	15	18	35	1	4	8
14,100	65,250	26,031	200	4,214	5,552	1	4	8	37	45	32	1	3	7
7,000	41,090	19,643	100	3,110	2,824	1	4	7	44	48	32	1	4	5
7,100	24,160	6,388	100	1,104	2,728	1	4	13	33	40	30	1	2	13
65,100	107,974	91,242	10,900	14,370	24,292	9	9	24	27	29	28	5	4	7
700	35	---	200	15	---	---	---	---	---	---	---	---	---	---
3,800	10,299	31,620	500	929	3,084	20	16	31	11	15	18	1	1	2
1,800	5,747	24,183	200	172	1,555	22	20	34	6	12	17	1	1	1
---	2	---	---	1	---	---	19	---	---	38	---	---	19	---
---	4	---	---	2	---	---	22	---	---	44	---	---	22	---
1,700	1,486	1,873	---	208	366	3	13	23	77	47	43	---	7	8
---	7	896	---	---	194	---	1	17	---	1	22	---	---	5
1/	---	53	---	---	4	---	32	29	42	---	24	---	---	2
100	2,370	1,246	1/	491	738	5	9	17	17	38	7	13	13	23
1/	203	268	100	55	74	11	3	27	29	5	28	35	1	8
200	480	3,101	200	---	153	---	20	17	22	20	16	22	---	1
17,200	36,138	48,323	1,700	2,761	2,967	1	9	14	18	20	20	2	2	1
14,600	31,603	31,362	900	2,761	1,709	1	9	14	18	20	20	1	2	1
2,500	4,528	16,269	800	---	1,232	---	8	14	17	24	20	5	---	1
100	7	692	1/	---	26	2	16	10	13	3	14	3	---	1
2,600	15,434	11,295	300	1,177	595	3	6	17	23	31	32	3	2	2
2,500	14,955	9,531	200	1,177	516	3	4	15	32	39	33	3	3	2
100	479	1,764	100	---	79	3	15	25	3	4	26	2	---	1
---	---	3	---	---	---	---	---	92	---	---	6	---	---	---
23,600	61,871	91,241	2,500	4,867	6,646	6	10	20	17	21	20	2	2	1
400	5	597	200	5	118	---	---	---	---	---	---	---	---	---
20,600	19,356	28,556	1,100	2,520	1,771	24	52	60	42	45	40	2	6	2
900	440	928	---	40	107	4	21	56	26	40	11	---	4	1
600	4,035	6,471	---	---	11	22	87	77	26	34	26	1	---	1
8,400	6,340	11,132	600	25	92	16	35	46	49	76	78	3	1	1
2,800	1,828	607	---	---	3	3	16	11	59	40	33	1	---	1
700	158	196	---	26	7	79	70	77	27	10	12	1	2	1
4,100	2,956	4,727	100	422	675	24	25	44	58	45	60	2	6	9
2,900	3,329	3,191	400	2,007	855	41	62	68	26	40	61	3	24	16
200	270	1,304	---	---	17	34	50	55	24	30	16	---	---	1

- Continued

Table 2.- Estimated use of principal plant nutrients

Crop	Extent of application						Quantity of		
	Acreage fertilized			Percentage of acreage fertilized			N		
	1947	1950	1954	1947	1950	1954	1947	1950	1954
	1,000 acres	1,000 acres	1,000 acres	Percent	Percent	Percent	Tons	Tons	Tons
MOUNTAIN - Cont.									
1: Close-growing crops	190	259	1,232	1	3	13	1,900	3,498	14,996
2: Wheat	68	127	676	1	2	11	100	1,065	4,495
3: Oats and barley	119	120	524	3	5	19	1,600	2,130	10,280
4: Other	3	12	32	1	84	11	200	303	221
5: Hay and pasture	529	458	812	4	10	7	800	698	5,200
6: Cropland	500	410	745	7	11	7	600	572	4,333
7: Permanent pasture	29	48	67	1/	5	3	200	126	867
8: Unspecified		1/	110		70	3		5	1,550
9: Crops and pasture	1,713	1,581	3,586	5	10	13	14,700	26,704	64,790
10: Nonfarm use							600	297	555
PACIFIC									
11: Intertilled crops	2,537	450	3,088	58	10	68	102,600	11,105	123,493
12: Corn	27	16	179	26	12	86	600	407	5,741
13: Cotton	138		746	24		85	1,200		30,351
14: Sugar crops	179	37	253	86	24	96	6,400	1,011	13,663
15: Large seeded legumes	34	1	147	5	1/	32	800	6	4,464
16: Fruits	1,185	184	872	67	10	55	49,200	4,520	42,392
17: Potatoes and sweetpotatoes	162	62	146	90	31	91	9,400	1,242	8,181
18: Vegetables	780	150	625	98	16	77	34,700	3,919	15,700
19: Other	32		120	22		68	300		2,999
20: Close-growing crops	547	247	3,136	6	3	43	11,100	3,398	54,076
21: Wheat	312	127	1,499	6	3	43	3,300	1,659	23,844
22: Oats and barley	143	120	1,187	4	3	34	4,700	1,736	20,846
23: Other	92	1/	450	15	1/	70	3,100	3	9,386
24: Hay and pasture	729	346	1,123	5	6	12	2,100	3,872	16,294
25: Cropland	425	128		11	4		1,700	605	
26: Permanent pasture	304	218		3	10		400	3,267	
27: Unspecified		57	80		11	23		4,741	1,185
28: Crops and pasture	3,813	1,100	7,427	13	6	34	115,800	23,116	195,046
29: Nonfarm use							4,800	800	39,837
UNITED STATES									
30: Intertilled crops	67,352	65,944	74,441	43	45	50	656,400	672,687	1,270,587
31: Corn	37,936	39,189	46,873	44	48	60	190,600	288,954	531,575
32: Cotton	9,644	9,747	10,948	45	52	58	122,200	143,991	269,987
33: Tobacco	1,844	1,604	1,515	98	99	97	44,900	32,694	45,543
34: Sugar crops	981	859	1,063	70	69	91	15,500	9,696	30,606
35: Large seeded legumes	5,517	4,489	4,831	22	27	23	21,400	8,984	17,515
36: Fruits	3,100	2,742	2,422	60	51	58	84,700	59,938	94,368
37: Potatoes and sweetpotatoes	2,033	1,305	1,144	75	73	78	60,700	29,197	40,593
38: Vegetables	5,626	5,605	3,642	76	68	63	113,600	94,347	107,904
39: Other	701	404	2,003	6	35	12	2,800	4,886	32,498
40: Close-growing crops	25,273	30,495	32,584	18	24	29	100,000	136,392	301,734
41: Wheat	13,705	14,569	14,034	18	22	28	35,400	60,965	124,559
42: Oats and barley	10,344	14,089	14,781	19	27	30	56,000	62,164	127,212
43: Other	1,224	1,837	3,769	12	32	30	8,600	13,263	49,963
44: Hay and pasture	11,150	20,508	18,235	7	7	12	21,100	46,741	126,630
45: Cropland	6,613	10,290	12,572	9	16	10	12,100	21,368	74,620
46: Permanent pasture	4,537	10,218	4,440	5	5	27	9,000	25,373	35,716
47: Unspecified		333	207		29	5		6,276	2,936
48: Crops and pasture	103,775	117,280	125,467	23	21	30	777,500	862,096	1,700,889
49: Nonfarm use							17,300	10,475	88,348

1/ Less than 1 unit.

plant nutrients applied						Average rates per acre fertilized								
P ₂ O ₅			K ₂ O			N			P ₂ O ₅			K ₂ O		
1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954	1947	1950	1954
Tons	Tons	Tons	Tons	Tons	Tons	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1,800	3,270	9,843	100	---	96	20	27	24	19	25	16	1	---	1/
900	1,579	5,174	100	---	68	4	17	13	27	25	15	1	---	1/
800	1,451	4,424	---	---	28	26	36	39	13	24	17	---	---	1/
100	240	245	---	---	---	91	50	14	37	40	15	1	---	---
10,700	11,929	18,503	400	10	57	3	3	13	40	52	46	1	1/	1/
10,200	11,672	16,915	400	2	54	2	3	12	41	57	45	1	1/	1/
500	257	1,508	---	8	3	13	5	26	36	11	47	1	1/	1/
---	20	1,746	---	1	79	---	18	28	---	71	32	---	4	1
33,100	34,575	58,648	1,600	2,531	2,007	17	34	36	39	44	33	2	3	1
500	502	637	500	119	172	---	---	---	---	---	---	---	---	---
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52,700	10,517	45,816	15,900	5,354	16,493	81	49	80	42	47	30	13	23	11
300	377	1,716	100	92	210	42	50	64	22	46	19	8	11	2
2,500	---	6,101	100	---	214	17	---	81	36	---	16	1	---	1
2,400	1,050	6,546	700	40	523	71	55	108	27	57	52	8	2	4
500	12	2,574	100	---	650	50	20	61	30	40	35	6	---	9
15,400	3,086	8,041	4,900	1,383	6,570	83	49	97	26	34	18	8	15	15
4,300	1,553	4,290	400	654	1,623	115	40	112	53	50	59	4	21	22
26,200	4,439	15,069	9,500	2,985	5,731	89	52	50	67	59	48	24	40	18
1,100	---	1,477	100	---	972	20	---	50	70	---	25	5	---	16
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2,700	118	8,107	---	---	640	41	27	34	10	1	5	---	---	1/
500	---	1,308	---	---	61	21	26	32	3	---	2	---	---	1/
1,500	117	2,654	---	---	557	66	29	35	21	2	4	---	---	1/
700	1	4,145	---	---	22	66	20	42	16	7	18	1	---	1/
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16,400	6,308	31,859	1,800	324	5,522	6	22	29	45	36	57	5	2	10
10,400	2,777	---	1,100	192	---	8	9	---	49	43	---	5	3	---
6,000	3,531	---	700	132	---	2	30	---	39	32	---	4	1	---
---	2,980	1,005	---	495	97	---	165	30	---	104	25	---	17	2
71,800	19,923	86,787	17,700	5,973	22,752	61	42	53	38	36	23	9	11	6
6,200	375	4,968	3,200	300	5,279	---	---	---	---	---	---	---	---	---
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1,122,900	1,030,252	1,303,682	645,300	719,320	1,134,060	19	20	34	33	31	35	19	22	30
436,400	447,000	664,680	236,500	294,942	591,834	10	15	27	23	23	28	12	15	25
133,800	141,810	167,426	80,400	81,327	134,901	25	30	49	28	29	31	17	17	25
96,500	76,575	91,882	69,000	56,713	88,462	49	41	60	106	95	121	76	71	117
15,800	15,882	24,486	3,700	7,409	7,678	32	23	58	32	37	46	8	17	14
78,700	49,470	79,160	39,900	32,864	77,757	5	4	7	27	22	33	13	15	32
65,700	56,479	40,035	32,600	55,314	47,964	55	44	78	42	41	33	21	40	40
115,200	67,453	61,952	85,100	66,007	56,189	60	45	71	113	103	108	84	104	98
170,700	171,169	152,524	89,200	12,340	120,077	40	34	59	61	62	84	32	44	66
10,100	1,344	21,537	8,900	2,404	9,218	8	24	32	29	22	22	25	12	9
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305,200	425,75	444,130	137,800	204,136	316,505	11	9	19	24	28	27	11	13	19
170,300	219,369	191,422	73,400	98,905	135,635	5	8	18	25	30	27	11	11	19
126,300	183,151	207,691	62,100	94,967	149,218	11	9	17	24	26	28	12	13	20
8,600	22,555	45,017	2,300	10,264	31,752	14	14	27	14	25	24	4	11	17
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306,000	544,875	367,744	53,700	129,022	253,231	4	5	14	55	53	40	10	13	28
160,800	259,660	255,910	32,600	60,191	106,280	4	4	12	49	50	40	10	12	29
115,200	285,215	79,915	21,100	68,831	60,429	4	5	16	64	56	36	9	13	27
---	8,136	3,049	---	4,849	473	---	38	28	---	49	29	---	29	5
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2,734,100	2,008,338	2,128,605	936,800	1,057,321	1,703,289	15	15	27	33	34	34	16	18	27
21,500	22,484	83,834	9,700	14,479	64,455	---	---	---	---	---	---	---	---	---

END