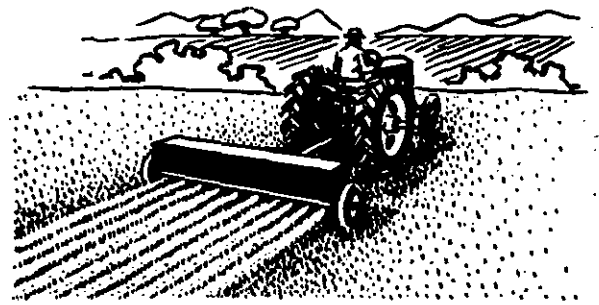


Consumption of



# Commercial Fertilizers

in the United States

Year ended June 30, 1970

with Comparisons

Preliminary Report



October 27, 1970

UNITED STATES DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service ●● Crop Reporting Board  
SpCr 7 (10-70) Washington, D. C.

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CONSUMPTION OF COMMERCIAL FERTILIZERS IN THE UNITED STATES  
For Fiscal Year Ended June 30, 1970 <sup>1/</sup>

TOTAL FERTILIZER USE UP 1 PERCENT

Total fertilizer consumed in the United States and Puerto Rico during the year ended June 30, 1970 is placed at 39.4 million tons by the Crop Reporting Board. This was 1 percent more than the previous year and compares with increases of 4 percent and one-half of one percent for the years ended June 30, 1968 and 1969 respectively.

Changes in consumption from last year varied by regions with the North Central, Mid-Atlantic and Southwest showing increases while the South and New England were down. Illinois remained the leading State in terms of total tonnage used at 3.2 million, with California second with 3.0 million. Fertilizer use was unchanged from last year in New Hampshire and Mississippi, while in 27 of the remaining States there was an increase.

MIXED FERTILIZERS DOWN 2 PERCENT

Mixed fertilizer for both farm and non-farm use amounted to 20.8 million tons, down 2 percent from the 21.2 tons used a year earlier. Mixtures accounted for 52.8 percent of the total tonnage of all fertilizer for the 1969-70 year, compared with 54.5 percent the previous year.

The primary nutrient content of mixed fertilizer increased to 39.40 percent compared to 39.02 a year earlier. The average percentage content of N-P<sub>2</sub>O<sub>5</sub>-K<sub>2</sub>O was 9.10-17.71-12.59 respectively and compares with the previous year averages of 8.95-17.53-12.54

PRIMARY NUTRIENT MATERIALS FOR DIRECT APPLICATION UP 6 PERCENT

The use of direct application primary plant nutrient materials increased 6 percent during the year ended June 30, 1970. Primary nutrients (N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O) usage totaled 17.3 million tons. Secondary and micronutrient materials reported for direct application were 1.3 million tons, practically the same as the previous year. All direct application materials accounted for 47.2 percent of total tonnage used.

Nitrogen materials (excluding natural organics) used for direct application totaled 11.8 million tons, up 8 percent. Phosphate materials at 2.6 million tons were down 8 percent. All potash materials totaled 2.4 million tons, up 12 percent. Tonnage of natural organics at 0.5 million tons was down 4 percent from a year earlier.

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

To convert phosphoric oxide (P<sub>2</sub>O<sub>5</sub>) to elemental phosphorus (P), the quantity of P<sub>2</sub>O<sub>5</sub> should be multiplied by 0.43642. To convert potassium oxide (K<sub>2</sub>O) to elemental potassium (K) multiply by 0.83016.

MICRONUTRIENTS

Data were collected from all known primary producers of selected micronutrients. The estimates in the tables on page 4 are totals of individual reports and are being published in the elemental form.

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

MICRONUTRIENTS SOLD FOR FERTILIZER IN THE UNITED STATES

Region of Application	Quantity of the Element Sold				
	Copper	Iron	Manganese	Zinc	Molybdenum
JULY 1, 1968 - JUNE 30, 1969 <sup>1/</sup>					
	----- Tons -----				
NEW ENGLAND (Me., N.H., Vt., Mass., R.I., Conn.)	32.6	2.2	29.1	88.8	---
MID-ATLANTIC (N.Y., N.J., Pa., Del., D.C., Md., W.Va.)	157.5	143.0	404.6	1,617.7	1.1
SOUTH ATLANTIC (Va., N.C., S.C., Ga., Fla.)	938.8	876.7	3,983.1	6,510.8	17.0
EAST NORTH CENTRAL (Ohio, Ind., Ill., Mich., Wis.)	70.4	291.8	3,704.1	2,054.0	16.9
WEST NORTH CENTRAL (Minn., Iowa, Mo., N.Dak., S.Dak., Nebr., Kans.)	42.9	61.3	2,588.6	4,197.5	11.1
EAST SOUTH CENTRAL (Ky., Tenn., Ala., Miss.)	23.9	20.2	242.1	757.3	2.0
WEST SOUTH CENTRAL (Ark., La., Okla., Texas)	14.0	130.6	83.4	805.9	13.8
MOUNTAIN (Mont., Idaho, Wyo., Colo., N.Mex., Ariz., Utah, Nev.)	14.0	152.4	128.6	1,668.0	.4
PACIFIC (Wash., Oreg., Calif.)	91.3	1,954.2	229.7	2,496.0	2.2
Alaska, Hawaii, Puerto Rico	1.8	1.7	.1	1.9	---
UNITED STATES	1,387.2	1/3,634.1	1/11,393.4	20,197.7	64.5

	----- Tons -----				
NEW ENGLAND (Me., N.H., Vt., Mass., R.I., Conn.)	12.5	2.7	19.9	103.3	---
MID-ATLANTIC (N.Y., N.J., Pa., Del., D.C., Md., W.Va.)	110.9	234.4	456.1	941.5	2.4
SOUTH ATLANTIC (Va., N.C., S.C., Ga., Fla.)	575.4	1,024.1	5,969.3	4,859.3	10.7
EAST NORTH CENTRAL (Ohio, Ind., Ill., Mich., Wis.)	31.5	248.9	5,420.1	1,552.6	31.7
WEST NORTH CENTRAL (Minn., Iowa, Mo., N.Dak., S.Dak., Nebr., Kans.)	42.7	387.6	857.0	5,105.2	7.3
EAST SOUTH CENTRAL (Ky., Tenn., Ala., Miss.)	8.8	8.1	69.4	993.4	5.1
WEST SOUTH CENTRAL (Ark., La., Okla., Texas)	4.7	79.3	160.3	1,488.9	9.0
MOUNTAIN (Mont., Idaho, Wyo., Colo., N.Mex., Ariz., Utah, Nev.)	5.6	1,462.3	189.9	1,428.0	.7
PACIFIC (Wash., Oreg., Calif.)	75.9	173.3	361.5	1,798.2	1.6
Alaska, Hawaii, Puerto Rico	.1	.2	1.6	.9	---
UNITED STATES	868.1	3,620.9	13,505.1	18,271.3	68.5

<sup>1/</sup> Revised.

TABLE 1.--TOTAL FERTILIZER 1/2 CONSUMPTION BY KIND OF FERTILIZER, BY STATES, YEARS ENDED JUNE 30, 1969, AND 1970

STATE AND DIVISION	MIXTURES		DIRECT-APPLICATION MATERIAL 2/				TOTAL		1970 AS PERCENT OF 1969
	1969	1970	PRIMARY NUTRIENT		SECONDARY AND MICRO-NUTRIENT		1969	1970	
			1969	1970	1969	1970			
	----- T O N S -----								
MAINE	152,716	137,448	6,182	6,827	5	3	158,903	144,278	91
N H	15,308	14,686	2,758	3,328	29	36	18,095	18,050	100
VT	32,866	41,800	9,996	11,559	37	35	42,893	53,394	124
MASS	58,554	51,880	17,987	13,955	139	100	76,680	65,935	86
R I	13,009	13,524	4,182	2,769	20	10	17,211	16,303	95
CONN	59,472	45,198	13,703	14,155	760	532	73,935	59,885	81
N F	331,919	304,536	54,808	52,593	990	716	387,717	357,845	92
N Y	517,760	523,180	112,535	110,528	335	738	630,630	634,446	101
N J	192,874	178,474	28,052	30,277	429	508	221,355	209,259	95
PA	522,535	546,481	122,433	125,030	7,407	7,750	652,375	679,261	104
DE	88,702	77,189	21,344	35,120	117	125	110,163	112,434	102
MD	289,442	273,214	50,157	80,258	70	80	339,669	353,552	104
D C	7,018	6,667	555	989	2	6	7,975	7,662	96
W VA	45,461	46,266	21,742	24,868	27	15	67,230	71,449	106
M A	1,663,792	1,651,471	357,218	407,070	8,387	9,222	2,029,397	2,067,763	102
VA	667,604	593,698	159,625	200,944	21,367	31,322	848,596	825,964	97
N C	1,257,389	1,295,210	365,379	443,196	90,578	45,696	1,717,346	1,784,102	104
S C	666,310	621,228	239,903	229,339	4,970	4,939	911,183	855,506	94
GA	1,346,099	1,269,254	538,845	510,578	55,114	60,201	1,940,058	1,840,033	94
FLA	1,601,527	1,599,773	277,789	261,375	5,871	6,080	1,885,187	1,867,228	99
S A	5,538,929	5,379,163	1,585,541	1,645,432	177,900	148,238	7,302,370	7,172,833	98
OHIO	943,012	961,872	411,142	407,740	1,105	1,275	1,355,259	1,370,887	101
IND	1,094,485	1,055,000	755,586	837,996	913	1,400	1,850,984	1,694,396	102
ILL	1,349,792	1,331,559	1,906,087	1,887,260	1,661	1,430	3,277,540	3,220,249	98
MICH	574,759	595,560	218,305	267,002	4,557	1,998	797,621	864,560	108
WIS	409,411	391,996	417,731	447,246	1,134	284	828,276	839,526	101
F N C	4,391,459	4,335,987	3,708,851	3,847,244	9,370	6,387	8,109,680	8,189,618	101
MINN	780,197	640,334	763,089	665,367	1,882	1,251	1,545,168	1,306,952	86
IOWA	664,996	1,054,384	1,362,646	1,577,556	5,769	14,839	2,333,411	2,646,779	113
MO	949,122	1,088,533	412,281	458,065	388	457	1,361,791	1,487,055	109
N DAK	195,370	201,072	149,326	154,138	0	26	344,696	355,236	103
S DAK	104,368	94,366	155,332	198,360	147	23	259,847	292,749	113
NEBR	276,262	293,824	778,423	931,291	20,833	21,878	1,075,518	1,246,993	116
KANS	406,950	416,887	686,551	806,418	2,273	2,444	1,095,774	1,255,749	112
W N C	3,677,265	3,729,400	4,307,648	4,791,195	31,292	40,918	8,016,205	8,561,513	107
KY	543,767	506,636	268,341	276,884	256	260	811,657	783,780	97
TENN	623,385	534,450	201,495	213,695	521	435	825,401	748,580	91
ALA	735,582	711,304	321,691	320,911	546	565	1,057,819	1,032,780	98
MISS	402,153	380,678	336,986	360,358	30	80	739,169	741,116	100
F S C	2,304,180	2,133,068	1,128,513	1,171,848	1,353	1,340	3,434,046	3,306,256	96
ARK	340,917	338,073	235,433	234,447	146	116	576,496	572,636	99
LA	293,115	318,924	210,164	237,951	46	55	503,325	556,930	111
OKLA	264,285	273,616	296,062	351,930	27	2	560,374	625,548	112
TEX	1,121,046	1,122,959	1,162,926	1,129,900	1,482	1,900	2,285,454	2,254,759	99
W S C	2,619,363	2,053,572	1,904,585	1,954,228	1,701	2,073	3,925,649	4,009,873	102
MONT	61,235	61,690	110,383	116,202	1,282	752	172,900	178,644	103
IDAH	72,909	69,237	348,011	333,965	12,664	20,004	433,584	423,206	98
WYO	19,377	15,502	57,907	45,008	769	695	78,053	61,205	78
COLO	86,529	84,800	164,628	169,448	4,186	3,650	255,343	257,898	101
N MEX	28,774	27,478	66,225	68,571	87	80	95,086	96,129	101
ARIZ	44,898	43,100	216,775	223,994	16,008	1,285	277,681	268,379	97
UTAH	28,943	27,490	58,696	62,570	321	150	87,960	90,210	103
NEV	3,922	3,810	9,259	10,521	4,192	1,831	17,373	16,162	93
MOUNT	346,587	333,107	1,031,884	1,030,279	39,509	28,447	1,417,980	1,391,833	98
WASH	130,361	126,243	379,393	398,224	12,846	17,178	522,600	541,645	104
ORE	65,688	74,190	302,766	334,037	13,404	12,065	381,858	440,292	115
CALIF	513,196	419,051	1,531,381	1,545,053	1,034,029	1,025,728	3,078,606	2,989,832	97
PAC	709,245	619,484	2,213,540	2,297,314	1,060,279	1,054,971	3,983,064	3,971,769	100
48 ST									
D C	20,982,739	20,539,788	16,292,588	17,197,203	1,330,781	1,292,312	38,606,108	39,029,303	101
ALAS	2,800	4,196	1,588	1,157	0	0	4,388	5,353	122
HAW	91,321	97,713	76,936	88,719	3,521	2,836	171,778	189,268	110
P R	145,496	136,766	16,366	12,272	26	18	161,888	149,056	92
U S	21,222,356	20,778,463	16,387,478	17,299,351	1,334,328	1,295,166	38,944,162	39,372,980	101

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

TABLE 2.--NITROGEN MATERIALS: CONSUMPTION OF NITROGEN MATERIALS BY DIRECT APPLICATION, BY STATES, YEARS ENDED JUNE 30, 1969 AND 1970 1/

STATE AND DIVISION	AMMONIA				AMMONIUM			
	ANHYDROUS		AQUA		NITRATE		SULFATE	
	1969	1970	1969	1970	1969	1970	1969	1970
	TONS							
MAINE	398	375	0	0	2,758	2,164	56	38
N H	0	0	0	0	511	232	16	57
VT	34	60	0	0	2,071	1,950	3	10
MASS	0	0	0	0	1,894	1,868	597	296
R I	0	0	0	0	52	157	0	0
CONN	13	10	0	0	946	1,050	23	20
N F	445	445	0	0	8,232	7,421	695	421
N Y	6,923	5,504	230	265	13,232	11,221	1,177	1,293
N J	364	684	0	0	6,574	7,408	270	294
PA	2,693	2,638	26	75	25,397	27,799	3,356	2,194
DEI	1,393	2,415	0	0	1,611	7,163	53	24
MD	3,624	6,046	0	0	5,648	7,463	223	356
D C	0	0	0	0	69	75	7	8
W VA	253	200	0	0	5,071	5,879	65	159
M A	15,250	17,487	256	340	57,602	67,008	5,151	4,328
VA	265	256	131	135	19,051	25,300	550	312
N C	11,143	12,388	0	0	36,016	41,157	296	510
S C	6,762	6,152	0	0	23,850	22,821	0	195
GA	64,109	48,225	0	0	149,278	154,577	611	450
FLA	7,145	7,587	18	24	60,741	66,480	4,044	5,335
S A	89,474	74,608	149	159	287,936	310,335	5,501	6,802
OHIO	73,634	74,370	7,392	6,505	40,974	38,106	11,157	9,483
IND	167,944	179,700	21,694	44,492	31,109	29,865	3,644	3,170
ILL	2/ 422,045	431,277	93,860	75,323	124,293	85,647	21,119	22,555
MICH	33,468	61,745	6,134	4,992	31,462	29,545	1,567	1,819
WIS	2/ 44,922	50,635	14,090	17,503	30,457	37,056	957	1,872
F N C	742,013	797,727	142,170	148,815	254,295	220,219	38,444	38,899
MINN	236,870	200,231	18,850	12,754	89,623	72,154	4,792	4,621
IOWA	441,581	521,588	69,006	71,005	100,715	133,119	1,060	1,552
MO	112,557	144,066	1,894	1,353	87,819	102,873	312	212
N DAK	6,413	9,151	0	0	50,889	63,077	1,153	1,292
S DAK	21,617	28,019	2,864	3,026	51,383	74,603	114	209
NEBR	338,486	407,127	14,746	12,562	107,882	155,986	2,444	5,247
KANS	224,626	293,463	1,308	941	197,306	205,756	1,553	794
M N C	1,382,210	1,603,645	118,668	101,641	685,617	807,568	11,428	13,927
KY	29,235	22,509	0	0	93,211	99,441	780	1,150
TFNN	19,306	14,464	0	0	87,597	96,329	36	0
ALA	19,373	15,648	0	0	145,274	165,381	4,183	2,563
MISS	35,141	38,546	0	100	163,847	189,644	158	104
F S C	103,055	91,167	0	100	489,929	550,795	5,157	3,817
ARK	11,903	11,031	619	18	70,318	83,019	3,857	5,471
LA	28,619	34,386	3,209	2,418	91,277	104,989	18,987	19,912
OKLA	45,867	62,158	2,100	0	127,819	159,525	1,359	891
TEX	371,306	414,927	30,537	26,351	193,166	246,726	106,524	99,185
W S C	457,695	522,502	36,465	28,787	482,580	594,259	130,727	125,459
MONT	1,538	2,390	571	428	26,020	28,882	1,766	3,793
IDAHO	25,787	24,654	6,645	6,195	73,906	51,092	87,989	92,789
WYO	2,125	1,275	0	0	29,766	23,076	3,278	1,600
COLO	39,427	43,092	209	230	42,771	41,577	11,119	11,297
N MEX	23,288	20,098	563	619	1,919	2,723	4,930	3,574
ARIZ	60,949	62,294	12,826	11,875	9,289	10,711	13,325	11,865
UTAH	275	3,550	72	0	8,940	10,730	9,600	9,100
NEV	1,005	1,257	51	50	459	671	1,399	1,121
NEUNT	154,394	158,610	20,937	19,397	193,070	169,462	133,406	135,139
WASH	54,106	66,337	68,230	87,751	39,840	42,404	49,177	38,885
ORF	11,310	12,091	37,010	38,146	14,075	16,430	77,937	89,349
CALIF	128,431	146,984	256,788	259,823	63,602	61,433	298,080	314,629
PAC	193,847	225,412	364,028	385,720	117,517	120,267	425,194	442,863
48 ST.								
E D.C.	3,138,333	3,491,603	672,673	684,959	2,576,778	2,847,334	755,703	771,655
ALAS	0	0	0	0	723	483	300	250
HAW	0	10	22,957	31,542	982	1,009	3,138	2,380
P R	0	0	5,420	3,875	0	0	3,814	3,368
U. S.	3,138,333	3,491,613	701,050	720,376	2,578,483	2,848,826	762,955	777,653

1/ 1970 PRELIMINARY. 2/ REVISED.

TABLE 2.--NITROGEN MATERIALS: CONSUMPTION OF NITROGEN MATERIALS BY DIRECT APPLICATION BY STATES, YEARS ENDED JUNE 30, 1969 AND 1970 1/--CONTINUED

STATE AND DIVISION	NITROGEN SOLUTION		SODIUM NITRATE		UREA		OTHER	
	1969	1970	1969	1970	1969	1970	1969	1970
TONS								
MAINE	573	375	0	23	261	1,267	21	17
N H	336	352	27	51	138	336	50	40
VT	1,325	2,125	8	10	252	410	289	380
MASS	240	250	268	116	695	1,331	106	125
R I	4	0	7	8	279	288	171	2
CONN	1,113	1,025	309	250	1,008	850	193	75
N F	3,591	4,127	619	458	2,633	4,482	830	639
N Y	19,481	21,269	1,129	1,221	10,830	11,250	1,280	1,304
N J	1,840	1,992	769	793	1,713	2,137	1,847	2,865
PA	19,975	17,500	617	689	20,650	22,508	764	682
DEL	10,776	10,433	23	24	361	404	635	446
MD	19,467	26,853	1,401	776	4,598	4,320	236	364
D C	0	0	60	55	70	80	22	15
W VA	2,808	2,519	295	465	666	938	22	25
MA	74,347	80,566	4,294	4,023	38,888	41,637	4,806	5,701
VA	73,903	90,189	5,009	3,913	3,491	3,146	9,057	9,775
N C	214,364	275,483	27,187	30,642	2,675	2,840	39,562	37,603
S C	140,777	148,490	12,398	10,464	2,761	2,015	26,646	22,550
GA	262,270	254,434	11,013	7,219	1,525	1,850	15,925	11,230
FLA	54,845	60,905	8,335	6,995	2,337	2,096	14,586	11,102
SA	746,159	829,501	63,937	59,233	12,789	11,947	105,776	92,260
OHIO	75,345	82,126	292	180	33,825	31,796	705	850
IND	231,679	292,300	65	0	15,952	12,762	27,505	7,500
ILL	270,145	207,548	129	80	8,564	5,678	2,504	2,002
MICH	29,990	40,370	409	379	22,523	21,623	776	1,188
WIS	56,939	59,786	0	0	2,991	2,762	4	0
MINN	614,098	682,130	895	639	83,855	74,621	31,494	11,540
MINN	79,638	62,939	432	0	2,650	3,467	487	2,527
INDIA	167,839	220,140	158	0	8,798	6,406	2,356	0
MO	74,430	83,845	30	0	8,982	5,473	611	474
N DAK	18,879	20,046	0	0	1,736	790	0	0
S DAK	31,915	31,212	0	0	859	823	557	1,909
NEBR	186,127	214,232	3,244	1,700	6,686	6,281	785	2,428
KANS	152,801	183,828	0	0	35,742	36,380	493	475
W N C	711,629	816,242	3,864	1,700	65,453	59,620	5,289	7,813
KY	37,880	41,900	2,375	2,347	2,748	2,220	1,143	1,050
TENN	44,565	42,405	8,347	6,710	795	750	1,603	900
ALA	69,920	61,318	5,916	3,894	4,303	2,033	7,780	4,122
MISS	43,373	45,312	7,179	3,743	15,232	13,433	1,011	1,000
LA	195,738	190,935	23,817	16,694	23,078	18,436	10,937	7,072
ARK	37,086	37,246	5,201	2,805	68,006	63,586	35	1
IA	19,579	19,614	1,785	950	18,803	15,190	22	165
OKLA	54,735	60,971	10	316	11,507	10,208	400	350
TEX	84,097	108,649	0	0	70,262	48,575	734	550
W S C	195,497	226,480	6,996	4,071	168,578	137,559	1,191	1,066
MONT	4,523	4,698	0	0	264	249	45	0
IDAHN	32,460	31,418	0	0	15,663	15,882	4,535	5,500
WYO	6,778	6,103	0	0	168	144	3,309	2,350
COLO	14,724	15,513	0	0	1,552	1,688	5,886	3,819
N MEX	9,221	10,874	0	0	3,662	8,435	841	1,076
ARIZ	20,792	33,155	0	0	28,585	24,578	9,310	6,500
UTAH	1,280	1,200	0	0	940	1,040	175	200
NEV	3	14	0	0	675	840	228	355
ARIZ	49,781	102,975	0	0	51,509	52,856	24,329	19,800
WASH	45,005	46,575	0	0	26,999	21,199	12,216	14,281
ORF	16,548	27,440	0	0	35,130	38,139	3,098	4,233
CAIF	101,634	95,775	13	310	56,713	57,783	22,402	23,244
PAC	163,187	169,790	13	310	118,842	117,121	37,716	41,758
49 ST.								
F. D. C.	2,794,022	3,102,746	104,435	87,128	565,625	518,279	147,700	187,649
ALAS	0	0	0	0	8	8	90	70
HAW	290	1,208	35	81	12,496	11,681	333	421
P R	0	0	0	0	3,750	3,128	1,108	493
U. S.	2,794,312	3,103,954	104,470	87,209	581,879	533,096	223,899	188,633

1/ 1970 PRELIMINARY.

TABLE 3.--PHOSPHATE MATERIALS: CONSUMPTION OF PHOSPHATE MATERIALS BY DIRECT APPLICATION, BY STATES, YEARS ENDED JUNE 30, 1969 AND 1970 1/

STATE AND DIVISION	PHOSPHATE ROCK 2/		SUPERPHOSPHATE				AMMONIUM PHOSPHATE 3/		OTHER	
	1969	1970	GRADES 22 PERCENT OR UNDER		GRADES OVER 22 PERCENT		1969	1970	1969	1970
			1969	1970	1969	1970				
TONS										
MAINE	0	0	281	270	175	140	75	0	90	85
N.H.	0	55	614	610	66	170	19	0	61	51
VT.	0	0	4,217	4,415	287	425	122	234	66	45
MASS.	3	25	1,027	527	98	50	713	967	372	343
R.I.	0	0	230	227	67	32	160	187	510	131
CONN.	12	0	1,804	1,715	641	524	60	4	136	182
N.F.	15	80	8,173	7,764	1,334	1,341	1,149	1,392	1,235	837
N.Y.	265	295	15,221	15,525	24,874	25,123	595	637	383	450
N.J.	52	133	729	580	0	373	0	0	1,146	560
PA.	1,687	513	16,996	16,144	4,679	6,218	1,227	975	1,611	2,255
DELA.	156	225	803	1,150	1,856	2,890	0	0	51	60
MD.	300	0	2,090	3,650	4,007	7,290	100	5,544	191	308
D.C.	0	0	47	50	0	0	0	0	91	95
W.VA.	23	137	4,173	3,685	5,534	6,701	15	5	25	39
MA.	2,493	1,303	40,059	40,784	40,950	48,595	1,937	7,161	3,498	3,767
VA.	2,248	862	9,801	6,231	17,060	22,940	270	242	87	813
N.C.	3	0	9,503	8,704	3,218	5,031	519	0	2,632	1,937
S.C.	0	0	5,001	3,837	698	1,171	10	5	5,427	5,594
GA.	392	225	4,441	3,587	1,460	1,100	1,350	300	8,592	9,500
FLA.	6,922	4,561	9,389	6,727	968	1,442	736	640	3,914	3,197
SA.	9,565	5,648	38,135	29,086	23,404	31,684	2,835	1,187	24,652	21,041
OHIO	3,557	75	3,533	3,669	28,516	26,235	848	1,200	2,144	1,930
IND.	2,332	1,850	2,698	3,400	43,876	43,278	1,629	1,558	1,138	2,620
ILL.	72,954	50,911	8,006	7,500	358,696	398,153	4,033	1,465	26,853	27,924
MICH.	230	0	2,058	1,840	7,321	5,774	591	64	548	474
WIS.	466	343	5,568	1,693	43,051	995	768	833	136	496
FINC.	79,539	53,179	21,903	18,102	481,460	474,435	7,869	5,120	30,822	33,444
MINN.	737	450	11,142	6,953	136,333	74,293	7,678	7,508	547	425
IOWA	2,513	3,146	12,125	11,812	243,070	243,341	2,162	983	731	585
MO.	87,837	84,114	139	136	6,546	6,984	415	444	55	82
N.DAK.	0	0	0	0	17,361	18,064	47,621	35,630	0	0
S.DAK.	0	0	4,644	913	15,929	17,912	16,936	26,251	15	337
NEBR.	57	50	17,099	18,605	37,638	47,540	11,065	8,929	247	570
KANS.	291	275	491	337	27,892	27,660	11,277	9,191	21	521
W.N.C.	91,435	88,035	45,644	38,756	484,769	435,794	97,154	88,936	1,616	2,520
KY.	3,807	4,657	7,669	5,873	33,522	33,336	1,220	1,200	318	114
TFNN.	61	45	3,728	1,771	8,402	17,374	533	330	5,954	2,100
ALA.	0	0	19,426	13,101	145	3,287	167	133	33,079	31,000
MISS.	542	600	10,826	8,800	5,307	4,513	1,124	800	45,297	42,983
F.S.C.	4,410	5,302	41,649	29,545	47,776	58,510	3,044	2,463	84,648	76,197
ARK.	0	0	5,366	2,266	6,596	7,026	1,874	1,216	4	6
LA.	644	259	7,543	3,652	3,424	1,768	2,520	2,267	3,526	3,183
OKLA.	2,032	885	8,604	6,046	14,600	16,343	8,601	5,809	620	64
TEX.	2,880	3,300	25,840	16,348	31,743	23,397	223,743	121,294	1,850	2,100
W.S.C.	5,556	4,444	47,353	28,312	56,363	48,534	236,738	130,586	6,000	5,353
MONT.	5	1	0	0	16,496	21,633	52,166	47,665	5,177	4,321
IDAHO	0	0	425	1,585	39,668	43,919	38,043	36,552	16,230	17,853
WYO.	0	0	4	0	8,366	5,940	1,972	2,423	0	0
COLO.	0	0	751	947	14,905	13,717	6,637	9,474	2,452	3,677
N.MEX.	0	0	4,939	5,212	9,599	8,861	5,286	5,302	460	204
ARIZ.	0	0	619	1,030	1,453	1,680	48,875	48,106	3,649	4,100
UTAH	0	0	1,600	1,200	22,760	24,560	12,440	10,490	160	100
NEV.	0	0	286	34	1,054	1,472	3,053	4,001	2	0
NEUNT.	5	1	8,624	10,008	114,301	121,782	170,472	164,013	28,130	30,255
WASH.	266	10	2,654	3,271	14,442	11,691	34,963	31,291	2,262	1,973
ORF.	0	0	18,601	20,357	10,867	10,721	65,689	79,308	350	519
CALIF.	8,469	14,952	86,403	75,392	16,137	7,352	124,103	134,030	16,142	17,200
PAC.	8,735	14,962	107,698	99,020	41,446	29,764	224,755	244,629	18,754	19,692
48 ST.										
D.C.	201,753	172,954	359,238	301,377	1,291,803	1,250,439	745,953	645,487	199,355	193,106
ALAS.	2	0	2	2	20	15	255	125	33	30
HAW.	1,698	1,774	3,875	3,877	3,266	2,573	5,273	8,973	12,175	15,698
P.R.	0	0	917	45	125	444	72	78	0	0
U. S.	203,453	174,728	364,032	305,301	1,295,214	1,253,471	751,553	654,663	211,563	208,834

1/ 1970 PRELIMINARY.

2/ INCLUDES COLLOIDAL PHOSPHATES.

3/ TOTAL OF 11-18-0, 13-39-0, 16-20-0, 21-53-0 AND 27-14-0 GRADES.

COMMERCIAL FERTILIZERS, OCTOBER 1970



TABLE 4.--POTASH AND NATURAL ORGANIC MATERIALS: CONSUMPTION OF POTASH AND NATURAL ORGANIC MATERIALS BY DIRECT APPLICATION, BY STATES, YEARS ENDED JUNE 30, 1969 AND 1970 1/

STATE AND DIVISION	POTASH MATERIALS				NATURAL ORGANIC	
	CHLORIDE 50-62 PERCENT GRADES		OTHER		1969	1970
	1969	1970	1969	1970		
TONS						
MAINE	413	1,260	60	0	1,021	813
N H	161	543	104	50	655	781
VT	1,008	1,235	105	75	209	185
MASS	1,146	1,598	731	166	10,597	10,279
R I	187	235	3	0	2,512	1,502
CONN	2,273	2,455	154	120	5,018	5,870
N F	5,188	7,326	657	411	20,012	19,430
N Y	1,335	1,375	3,451	3,486	12,129	10,310
N J	3,919	3,164	203	278	8,626	9,016
PA	10,474	14,203	737	878	11,594	9,759
DE	3,337	9,582	28	55	261	249
MD	6,740	15,623	210	320	1,827	1,345
D C	10	12	3	4	576	595
W VA	2,325	3,711	116	55	341	350
M A	27,590	47,670	4,748	5,076	35,354	31,624
VA	17,074	33,067	1,144	2,425	1,534	1,338
N C	7,879	10,999	17,158	13,900	2,229	2,002
S C	5,645	4,532	4,582	794	1,346	719
GA	5,759	5,471	9,245	9,060	2,875	2,450
FLA	17,599	14,959	57,919	43,439	28,291	25,885
S A	53,956	69,028	85,048	69,618	36,275	32,394
OHIO	120,083	122,485	1,031	950	8,106	7,780
IND	186,815	189,947	15,637	22,628	2,869	2,926
ILL	534,366	554,690	435	519	12,085	13,500
MICH	67,474	79,575	1,810	3,509	11,954	14,055
WIS	207,433	212,611	1,136	765	8,810	10,729
F N C	1,116,171	1,159,308	20,049	28,371	43,824	48,990
MINN	166,191	207,176	1,805	5,918	5,314	3,951
IOWA	308,881	362,579	394	0	1,253	1,300
MO	26,392	23,542	619	802	3,643	3,665
N DAK	5,050	5,988	0	0	224	100
S DAK	7,628	11,567	115	0	756	107
NEBR	33,533	36,454	17,861	13,105	523	1,075
KANS	31,234	45,297	118	0	1,338	475
W N C	578,969	692,603	20,912	20,329	13,051	12,066
KY	38,155	44,587	13,682	14,500	2,196	2,000
TFNN	17,343	26,436	2,280	2,506	1,545	1,575
ALA	8,140	6,811	3,019	10,768	966	852
MISS	7,315	10,000	242	380	392	400
F S C	70,453	87,834	19,223	28,154	5,099	4,827
ARK	23,717	20,341	599	125	252	290
LA	9,381	5,691	176	23,087	669	420
OKLA	14,615	25,536	1,158	984	2,035	1,844
TEX	7,129	6,307	4,793	3,691	8,822	8,500
W S C	54,842	57,875	6,226	27,887	11,778	11,054
MONT	1,464	1,918	102	0	246	224
IDAHN	4,938	4,800	1,625	1,595	97	131
WYO	1,842	1,621	95	75	204	180
COLO	7,302	8,762	1,537	1,655	13,356	14,000
N MEX	222	195	502	748	793	650
ARIZ	541	600	455	500	6,107	7,000
UTAH	154	200	0	0	300	200
NEV	0	0	0	0	1,044	706
MONT	16,463	18,096	4,316	4,573	22,147	23,091
WASH	14,457	17,107	3,764	4,372	10,972	11,077
ORF	7,074	11,354	1,542	2,700	3,585	3,250
CALIF	7,897	8,958	9,315	10,599	333,252	316,589
PAC	29,378	37,419	14,621	17,671	347,809	330,916
48 ST.						
& D.C.	1,953,400	2,177,159	175,800	202,090	535,349	514,392
ALAS	38	48	52	61	65	65
HAW	3,746	4,204	6,457	3,106	215	182
P R	494	365	578	394	88	82
U. S.	1,957,678	2,181,776	182,887	205,651	535,717	514,721

1/ 1970 PRELIMINARY.

TABLE 5.--PRIMARY PLANT NUTRIENTS: CONSUMPTION OF PRIMARY PLANT NUTRIENTS BY KIND OF FERTILIZER, BY STATES, YEARS ENDED JUNE 30, 1969, AND 1970 1/

STATE AND DIVISION	MIXTURES								1970 AS PERCENT OF 1969 PERCENT
	N		AVAILABLE P O		K O		TOTAL		
	1969	1970	1969	1970	1969	1970	1969	1970	
	- I O N S -								
MAINF	16,059	14,707	20,251	18,555	20,350	18,555	56,661	51,817	91
N H	1,619	1,513	1,755	1,615	1,967	1,836	5,341	4,964	93
VT	3,753	4,180	4,971	6,437	5,160	6,897	13,384	17,514	131
MASS	6,560	5,966	5,779	5,188	5,292	4,929	17,631	16,083	91
R I	1,781	1,339	1,356	1,420	1,119	1,163	3,756	3,922	104
CONN	6,618	5,062	6,029	4,475	5,268	3,932	17,916	13,469	75
N F	35,390	32,767	40,142	37,690	39,158	37,312	114,689	107,769	94
N Y	49,583	49,702	78,405	78,477	62,151	68,013	190,139	196,192	103
N J	16,215	16,420	20,675	20,525	19,532	18,026	55,822	54,971	98
PA	47,436	50,276	77,728	79,240	62,454	65,578	187,618	195,094	104
DEL	6,885	6,021	10,214	8,954	12,564	10,961	29,663	25,936	87
MD	22,315	21,857	34,493	32,786	38,864	36,884	95,672	91,527	96
D C	601	600	565	533	436	413	1,603	1,566	98
W VA	3,160	3,239	6,018	6,200	5,579	5,691	14,756	15,130	103
M A	146,194	148,115	227,499	226,735	201,581	205,566	575,274	580,416	101
VA	36,501	32,653	71,026	62,338	79,636	71,244	187,162	166,235	89
N C	65,307	68,646	122,996	126,931	150,940	156,720	339,242	352,297	104
S C	31,192	29,198	69,973	63,365	90,193	84,487	191,358	177,050	93
GA	71,946	71,078	142,741	137,079	197,708	187,150	411,895	395,307	96
FLA	126,699	127,982	101,544	100,786	188,090	183,974	416,333	412,742	99
S A	331,645	329,557	507,780	490,499	706,567	683,575	1,545,991	1,503,631	97
OHIO	87,590	86,568	196,562	201,993	154,740	158,709	433,891	447,270	103
IND	85,447	84,400	231,251	221,530	176,437	174,075	493,135	480,025	97
ILL	125,068	122,503	318,607	322,237	160,481	159,787	604,156	604,527	100
MICH	52,274	54,196	118,059	122,685	96,249	100,054	266,582	276,935	104
WIS	34,679	33,320	99,190	97,999	74,712	70,559	208,581	201,878	97
F N C	380,057	380,987	963,670	966,464	662,619	663,184	2,006,346	2,010,635	100
MINN	85,076	70,437	225,015	185,057	111,268	89,647	421,359	345,141	82
IOWA	87,314	98,058	266,737	289,936	124,715	136,016	478,267	524,030	110
MO	101,262	113,139	154,222	164,565	149,597	159,423	405,080	437,127	108
N DAK	31,733	32,172	71,958	74,397	6,145	6,434	109,835	113,003	103
S DAK	17,267	15,570	31,316	29,253	3,197	2,925	51,780	47,748	92
NEBR	36,216	39,079	51,507	97,843	10,385	10,578	138,108	147,500	107
KANS	61,196	62,533	145,514	150,079	17,108	18,760	223,819	231,372	103
W N C	420,064	430,988	985,768	991,130	422,415	423,783	1,828,248	1,845,921	101
KY	38,514	36,478	79,982	75,995	80,855	77,009	199,351	189,482	95
TFNN	43,463	37,412	84,935	73,734	86,294	74,823	214,696	185,989	87
ALA	46,898	45,523	98,719	96,066	101,108	99,583	246,725	241,132	98
MISS	30,181	28,932	62,322	60,908	61,574	59,386	154,077	149,226	97
F S C	159,056	148,345	325,962	306,683	329,832	310,801	814,850	765,829	94
ARK	26,573	26,708	61,697	59,163	61,880	60,853	149,549	146,724	98
LA	30,938	32,530	49,570	54,217	42,199	46,244	122,706	132,991	108
OKLA	33,969	35,023	76,408	79,349	19,899	21,342	130,276	135,714	104
TEX	148,802	151,599	228,014	230,207	85,592	84,222	462,408	466,028	101
W S C	240,281	245,860	415,089	422,936	209,569	212,661	864,939	881,457	102
MONT	12,932	13,263	19,858	17,273	239	740	33,029	31,276	95
IDAHN	12,096	11,078	28,828	26,310	388	554	41,312	37,942	92
WYO	3,833	3,023	6,527	4,961	23	31	10,383	8,015	77
COLO	13,509	13,992	20,735	30,528	1,210	1,187	45,454	45,707	101
N MEX	4,118	3,984	5,137	8,793	637	550	13,892	13,327	96
ARIZ	6,369	6,120	15,010	13,792	682	862	22,061	20,774	94
UTAH	5,130	4,948	10,496	10,171	155	220	15,780	15,339	97
NEV	705	667	544	438	106	114	1,354	1,219	90
MONT	58,691	57,075	121,135	112,266	3,439	4,258	183,265	173,599	95
WASH	19,098	18,936	30,039	29,667	7,360	8,837	56,498	57,440	102
ORF	9,914	12,093	16,129	18,548	4,051	4,600	30,094	35,241	117
CALIF	65,888	54,477	68,660	56,572	35,952	25,143	170,500	136,192	80
PAC	94,900	85,506	114,829	104,787	47,363	38,580	257,092	228,873	89
48 ST									
D C	1,966,277	1,859,200	3,701,873	3,659,210	2,622,544	2,579,720	8,190,694	8,098,130	99
DCS	333	525	620	882	434	566	1,367	1,972	144
HAW	13,780	13,875	9,348	11,139	19,932	19,445	43,060	44,459	103
P R	18,624	17,780	8,829	8,343	17,869	16,959	45,322	43,082	95
U S	1,899,013	1,891,380	3,720,650	3,679,573	2,660,779	2,616,690	8,280,442	8,187,643	99

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

TABLE 5.--PRIMARY PLANT NUTRIENTS: CONSUMPTION OF PRIMARY PLANT NUTRIENTS BY KIND OF FERTILIZER, BY STATES, YEARS ENDED JUNE 30, 1969, AND 1970--CONTINUED

STATE AND DIVISION	MIXTURES AND DIRECT-APPLICATION MATERIALS								1970 AS PERCENT OF 1969 PERCENT
	N		AVAILABLE P <sub>2</sub> O <sub>5</sub>		K <sub>2</sub> O		TOTAL		
	1969	1970	1969	1970	1969	1970	1969	1970	
	- I. C. N. S. -								
MAINE	17,664	16,460	20,470	18,712	20,636	19,326	58,770	54,498	93
NH	2,010	1,907	1,951	1,844	2,127	2,211	6,088	5,962	98
VT	4,575	5,842	6,022	7,656	5,830	7,659	16,427	21,157	129
MASS	8,450	7,993	6,594	5,888	6,189	6,104	21,234	19,985	94
RI	1,578	1,595	1,672	1,650	1,275	1,328	4,524	4,573	101
CONN	8,035	6,441	6,876	5,271	6,783	5,566	21,694	17,278	80
NF	42,312	40,238	43,585	41,021	42,839	42,194	128,737	123,453	96
NY	72,305	70,983	93,683	93,786	64,101	70,638	230,089	235,407	102
NJ	21,015	22,505	20,702	21,145	22,115	20,174	63,831	63,824	100
PA	75,293	70,648	84,860	87,007	69,062	74,535	229,215	240,190	105
DE	12,417	14,102	11,252	10,540	14,563	16,729	38,231	41,371	108
MD	35,617	41,057	36,877	39,850	42,733	46,428	115,227	127,335	111
DC	699	702	616	606	455	433	1,769	1,741	98
WVA	6,284	6,682	9,420	10,041	7,006	7,973	22,710	24,696	109
MA	223,629	234,679	257,410	262,975	220,034	236,910	701,072	734,564	105
VA	69,778	72,645	81,090	74,529	90,083	91,974	240,951	239,148	99
NC	169,631	194,426	127,033	132,172	158,259	165,735	454,924	492,333	108
SC	91,262	88,391	72,198	65,206	94,768	87,484	258,228	241,081	93
GA	261,699	242,690	145,367	139,863	203,715	193,848	610,781	576,401	94
FLA	180,298	181,472	105,523	104,228	209,071	202,273	494,893	487,973	99
SA	772,669	779,624	531,212	515,998	755,897	741,314	2,059,778	2,036,936	99
OHIO	199,463	203,816	211,628	215,825	227,247	232,485	638,338	652,126	102
IND	329,666	348,746	253,481	243,514	287,881	294,293	871,028	886,553	102
ILL	610,151	591,805	496,737	528,282	482,372	493,569	1,589,260	1,613,656	102
MICH	111,487	138,682	122,716	127,360	137,438	148,076	371,642	414,118	111
WIS	103,997	110,236	120,882	120,263	199,647	198,540	424,526	429,039	101
MINN	1,354,764	1,393,285	1,205,444	1,235,244	1,334,585	1,366,963	3,894,794	3,995,492	103
MINN	343,579	286,496	292,437	222,622	211,766	216,872	847,782	725,990	86
IOWA	556,856	659,435	381,760	404,696	310,237	353,570	1,248,853	1,417,701	114
MO	250,691	295,086	160,205	170,627	165,646	173,928	576,542	639,641	111
NDAK	66,095	71,300	100,767	98,532	9,176	10,027	176,039	179,859	102
SDAK	65,656	77,962	46,456	49,763	7,823	10,180	119,934	137,905	115
NEBR	417,330	499,205	114,810	125,623	35,730	36,362	567,870	661,190	116
KANS	374,861	443,861	161,001	164,949	35,908	45,950	571,488	654,760	115
WNC	2,074,787	2,333,345	1,257,436	1,236,812	776,286	846,889	4,108,508	4,417,046	108
KY	108,046	103,013	97,933	93,345	108,801	109,863	314,780	306,221	97
TENN	104,483	97,150	90,530	82,615	97,526	91,704	292,538	271,469	93
ALA	137,631	136,758	105,399	102,820	106,470	349,305	344,500	344,883	99
MISS	136,550	145,877	71,453	69,096	66,010	65,457	274,013	280,430	102
LA	486,709	482,798	365,315	347,876	378,807	372,329	1,230,832	1,203,003	98
ARK	104,696	105,810	65,513	63,033	76,274	73,089	246,484	241,932	98
IA	105,008	114,004	54,275	56,874	47,535	55,263	206,817	226,141	109
OKLA	137,178	162,442	87,086	89,314	28,926	36,840	253,190	288,596	114
TEX	639,447	675,085	302,884	273,359	90,877	88,886	1,033,209	1,037,330	100
WSC	986,330	1,057,341	509,758	482,580	243,612	254,078	1,739,700	1,793,999	103
MONT	33,608	35,245	44,634	42,590	1,144	1,895	79,386	79,730	100
IDAHO	101,955	93,217	67,433	67,537	4,144	4,194	173,533	164,948	95
WYO	19,781	15,236	10,757	8,200	1,151	1,026	31,689	24,462	77
COLO	70,708	74,089	41,928	42,303	6,549	7,351	119,185	123,743	104
NMEX	30,555	30,318	16,121	15,327	903	863	47,579	46,508	98
ARIZ	94,061	95,384	31,141	30,609	1,316	1,596	126,517	127,589	101
UTAH	13,112	15,921	24,674	24,217	250	341	38,036	40,479	106
NV	2,896	3,330	1,813	2,151	116	114	4,825	5,595	116
MONT	366,675	362,740	238,502	232,934	15,573	17,380	620,750	613,054	99
WASH	134,942	145,548	46,030	44,369	17,947	20,185	198,919	210,102	106
ORF	79,683	92,448	39,964	46,802	8,972	12,324	128,619	151,574	118
CALIF	387,207	389,726	141,813	129,348	54,333	44,315	583,352	563,389	97
PAC	601,832	627,722	227,807	220,519	81,252	76,824	910,890	925,065	102
48 ST	6,909,706	7,311,772	4,636,469	4,575,959	3,848,884	3,954,881	15,395,058	15,842,612	103
ALAS	704	782	723	953	484	627	1,911	2,362	124
HAW	26,265	28,513	15,585	19,342	24,038	22,862	65,888	70,717	107
PR	22,432	20,777	9,112	8,594	18,408	17,341	49,952	46,712	94
U S	6,959,107	7,361,844	4,661,890	4,604,848	3,891,814	3,995,711	15,512,810	15,962,403	103

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

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November 5, 1970

ERRATA

Consumption of Commercial Fertilizer 1969-70 (Sp Cr-7 10-70)  
 Released October 27, 1970

The following corrections for 1970 data should be entered in the above report:

Page 5, Table 1

State and Division	Primary Nutrient	Total	1970 as	
			Percent of 1969	
		Tons	Percent	
Massachusetts	17,941	69,921	91	
Northeast	56,579	361,831	93	
Wyoming	44,787	60,984		
Mountain	1,030,058	1,391,612		
48 St. & D.C.	17,200,968	39,033,068		
U.S.	17,303,116	39,376,745		

Page 8, Table 3

State and Division	Phosphate Rock	Superphosphate		Ammonium Phosphate	Other
		Grades 22 Percent or Under	Grades over 22 Percent		
		Tons			
Conn.				9	
Northeast				1,397	
Georgia				1,200	
Florida				641	
South Atlantic				2,088	
Illinois				3,953	
Michigan				114	
Wisconsin	160	9,426	42,818	1,054	69
East N. Central	52,996	25,835	516,258	7,879	33,017
48 St. & D.C.	172,771	309,110	1,292,263	649,152	192,679
U. S.	174,545	313,034	1,295,294	658,328	208,407
<u>3/ Total of 11-48-0, 13-39-0, 16-20-0, 21-53-0 and 27-14-0 grades.</u>					

