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June 2, 1977

BUSUMFRUM BY BUSS

Consumption of commercial fertilizer in lowa totaled 3.66 million tons in the year ending June 30, 1976. This is a 22 percent increase from the 2.99 million tons purchased a year earlier. The total tonnage consisted of 1,903,000 tons dry bulk, 1,569,000 tons in liquid form and 186,000 tons dry bagged. Mixed fertilizers made up 33 percent, 1,195,400 tons, of the total while direct application types made up 67 percent, 2,461,800 tons.

Total Fertilizer 1/: Consumption of Mixtures and Direct Application Materials by Class, Iowa and U.S., from 1972 to 1976

Year ended June 30	Name of	10	AWC		UNITED STATES						
	Dry bagged	Dry bulk	Liquid	Total	Dry bagged	Dry bulk	Liquid	Total			
1		Thous	and tons -	Thousand tons							
1972	295.9	1,270.0	1,037.9	2,603.8	11,246.0	17,513.1	10,839.7	39,598.8			
1973	340.1	1,339.9	983.5	2,663.5	10,544.8	20,153.6	11,124.0	41,822.4			
1974	317.5	1,521.1	1,091.5	2,930.1	10,482.4	21,836.7	12,645.3	44,964.4			
1975	220.8	1,602.8	1,168.7	2,992.3	9,044.1	19,372.6	12,189.3	40,605.9			
1976	185.7	1,902.7	1,568.9	3,657.2	8,535.7	23,336.9	14,941.3	40,813.8			
Average	272.0	1,527.3	1,170.1	2,969.4	9,970.6	20,442.6	12,347.9	41,561.1			

Total Fertilizer 1/: Consumption of Mixtures and Direct Application Materials by Class, by States, Year Ended June 30, 1976

		Mixtures ar	nd materials		% of total fertilizer				
State	Dry bagged	Dry bulk	Liquid	Total 2/	Dry bagged	Dry bulk	Liquid		
		Thousa	and tons			Percent			
ILL	157.6	2,080.9	1,748.8	3,987.3	4	52	44		
IOWA	185.7	1.902.7	1,568.9	3,657.2	5		43		
MINN	178.9	1,303.7	688.8	2,171.4	8	<u>52</u>	32		
MO	171.4	1,196.7	381.5	1,749.6	10	68	22		
NEBR	70.4	514.4	1,002.7	1,587.4	5	32	63		
S DAK	22.7	276.0	103.9	402.5	6	68	26		
WIS	157.1	748.1	234.8	1,140.1	14	66	20		
U.S.	8,535.7	23,336.9	14,941.3	46,813.8	18	50	32		

^{1/} Excludes secondary and micronutrient materials. 2/ Sum of individual items may not equal total due to rounding.

Liquid Fertilizer Average Analysis: Average Primary-Nutrient Content of Liquid Fertilizers Consumed as Mixtures and Materials, by States, Year Ended June 30, 1976

7781		Liqui	mixtur	es	Liquid materials					
State	N	Avail- able P ₂ 05	K ₂ 0	Total N, Available P ₂ 0 ₅ and K ₂ 0	N	Avail- able P205	K ₂ 0	Total N, Available P ₂ 0 ₅ and K ₂ 0		
		200100		Percen	t					
ILL	7.0	14.0	13.1	34.1	56.2	.1	0	56.3		
IOWA	7.5	16.1	14.7	38.3	60.2	0	0	60.2		
MINN	8.3	21.6	8.4	38.3	66.4	.1	ō	66.5		
MO	9.9	9.8	10.8	30.5	58.6	0	0	58.6		
NEBR	9.6	26.3	3.4	39.3	61.0	0	0	61.0		
S DAK	9.5	24.8	4.5	38.8	49.1	2.9	0	52.0		
WIS	$\frac{8.3}{}$	16.3	11.6	36.2	49.8	0	1_	49.9		
U. S.	9.1	15.5	9.4	34.0	50.9	.2	.1	51.2		

Mixtures: Consumption of Mixed Fertilizer by Class, by States, Year Ended June 30, 1976

	11 H.J. S.H. 1244	% of total mixtures					
State	Dry bagged	Dry bulk	Liquid	Total 1/	Dry bagged	Dry bulk	Liquid
	ысота	Thousan	d tons		AVIIC	Percen	t
ILL	143.5	753.2	526.6	1,423.3	10	53	37
IOWA	172.1	688.6	334.7	1.195.4	14	58	28
MINN	112.0	546.9	147.6	806.5	14	68	28 18
MO	151.2	1,032.9	148.2	1,332.3	11	78	11
NEBR	49.4	186.0	111.0	346.4	14	54	32
S DAK	16.1	118.1	26.6	160.8	10	73	17
WIS	136.2	245.3_	47.4	428.9	32	_ 57_	11_
U. S.	6,621.0	12,728.1	3,638.2	22,987.3	29	55	16

^{1/} Sum of individual items may not equal total due to rounding.

Materials 1/: Consumption of Direct Application Primary Nutrient Materials by Class, by States, Year Ended June 30, 1976

		% of total materials					
State	Dry bagged	Dry bulk	Liquid	Total <u>2</u> /	Dry bagged	Dry bulk	Liquid
	10.5109	Percent					
ILL	14.1	1,327.7	1,222.2	2,564.0	1	52	47
IOWA	13.5	1,214.1	1,234.2	2,461.8	1	49	
MINN	66.9	756.7	541.3	1,364.9	5	<u>49</u> 55	50 40
MO	20.2	163.8	233.3	417.3	5	39	56
NEBR	21.0	328.4	891.7	1,241.1	2	26	72
S DAK	6.6	157.9	77.3	241.7	3	65	32
WIS	21.0	502.8	187.4	711.1	3	_ 71_	26
U. S.	1,914.7	10,608.8	11,303.1	23,826.5	8	45	47

¹/ Excludes secondary and micronutrient materials. 2/ Sum of individual items may not equal total due to rounding.

OF AND OPPUBLIED BY

Ninety-eight percent of the corn acreage harvested for grain in lowa received fertilizer in 1976, an increase from 94 percent in 1975. Nine percent of the soybean acreage was fertilized in 1976, a decrease from 1975. Rates of application for N, P, and K per acre of corn showed increases from 1975. Nitrogen increased to 126.2 pounds, phosphate upped to 62.1 pounds, and potash increased to 67.1 pounds per acre. Eighty-five percent of the corn acres were fertilized at or before planting in 1976, an increase from 1975.

Rate of application for soybeans showed a 33 pound increase in nitrogen, a 5.6 pound increase in phosphates, and a 25.3 pound per acre increase in potash. All soybean acres continued to be fertilized at or before planting.

Fertilizer Use on Corn Acreage Harvested for Grain and Soybeans Harvested for Beans, 1968 - 1976, Iowa

878	1897878	SETTO	Ac	res re	eceivin	g		e per ac	re 2/	Acres fertilized 3/		
Crop and year	Acres harvested 1/	Fields in survey	Any fert.	N	P ₂ 0 ₅	к ₂ 0	N	P ₂ 0 ₅	K ₂ 0	At or before plant- ing only	After plant- ing only	At or before & after plant- ing
Corn	Thous.	No.	88	Per	cent			Pounds			Percen	t
1968	9,775	198	88	87	84	80	104.3	64.4	54.2	78	2	20
1969	9,549	201	92	91	88	83	108.1	66.9	58.4	63	3	34
1970	10,077	206	95	94	90	87	106.9	66.7	63.1	82	1	17
1971	11,550	207	95	94	89	84	100.5	57.5	51.7	81	3	16
1972	10,450	208	94	94	90	86	110.0	60.3	56.4	77	1	22
1973	11,150	204	94	93	84	80	109.0	59.3	54.7	71	7	22
1974	11,750	195	91	90	81	79	101.8	61.9	63.8	80	3	17
1975	12,130	190	94	93	85	82	102.4	58.6	62.2	80	6	14
1976	12,750	191	98	98	90	85	126.2	62.1	67.1	85	2	15
Soybe	ans		1111-11	Water best	3 6. 12. 7							
1968	5,561	127	22	17	22	21	9.6	39.4	33.5	96	4	0
1969	5,450	118	13	6	12	12	7.8	53.4	53.4	93	7	0
1 97 0	5,680	147	13	8	13	13	11.4	43.8	49.1	100	0	0
1971	5,500	152	11	7	11	11	10.2	33.9	45.4	100	0	0
1972	6,050	142	14	9	13	14	11.3	35.7	34.7	95	5	0
1973	7,900	148	16	10	16	16	10.2	41.9	47.7	100	0	0
1974	7,070	153	11	7	11	11	8.4	33.0	43.8	94	6 0	0
1975	6,970	143	11	8	11	11	9.1	27.1	33.9	100		0
1976	6,560	139	9	7	9	9	12.4	32.7	59.2	100		0

^{1/} Official USDA estimate. 2/ Nutrients were reported as N, P_2O_5 and K_2O . P_2O_5 can be converted to P by dividing by 2.2914; K_2O can be converted to K by dividing by 1.2046. 3/ Percentages apply to acres receiving fertilizer, not to total acres harvested.

Fertilizer Use on Corn Acreage Harvested for Grain, Selected States, 1976 Rate per acre Acres fertilized 3/ Acres receiving receiving 2/ At or At or Acres Fields After before before State harvested in plantplant-Any & after survey N P205 K20 N P205 K20 ing 1/ fert. ing plantonly only ing Percent Thous. No. Percent Pounds 94 141.3 77.8 11,600 226 99 99 96 92.4 73.1 0.4 26.5 ILL 98 104.7 IND 6,250 182 100 100 100 129.3 84.1 66.5 0.5 33.0 126.2 62.1 98 98 90 IOWA 12.750 191 85 67.1 85.1 1.6 13.3 1,750 98 KANS 155 98 72 44 161.8 58.6 44.2 81.6 0.0 18.4 88.7 1.0 2,000 102 99 99 97 99 63.0 73.6 54.5 44.5 MICH 5,600 MINN 144 97 97 95 94 104.3 60.8 67.9 83.6 0.7 15.7 2,880 98 89 88 115.8 52.3 59.4 79.4 139 98 0.7 19.9 MO **NEBR** 6,200 163 91 91 65 42 142.9 41.8 25.4 56.0 3.1 40.9 145 100 98 97 116.2 79.8 81.9 76.6 0.0 23.4 OHIO 3,900 100 1,400 68 60 57 54 60.6 33.6 13.5 82.9 S DAK 31 7.3 9.8 Fertilizer Use on Soybean Acreage Harvested for Beans, Selected States, 1976 19.1 35.6 55.9 98.0 2.0 4,320 155 33 13 29 32 0.0 ARK 48.6 28 12 23 28 79.1 100.0 0.0 0.0 7,560 152 11.7 ILL 48 55 3,280 114 56 54 10.4 34.3 52.1 95.3 4.7 0.0 IND 6,560 139 9 7 9 9 32.7 59.2 0.0 IOWA 12.4 100.0 0.0 8 49 8 10 43.4 26.3 100.0 KANS 880 10 32.0 0.0 0.0 7 10 12 20.6 31.4 63.8 100.0 MINN 2,900 110 13 0.0 0.0 3,400 3.8 MISS 124 42 26 40 41 16.5 57.2 58.6 96.2 0.0 12 12 42.9 58.8 87.5 12.5 4,300 139 9 10 11.9 0.0 MO 1,030 60 8 7 7 23.3 37.0 24.0 100.0 0.0 0.0 NEBR 2,880 99 36 50 5 11.0 39.2 46.5 95.9 4.1 0.0 OHIO 50

1/ Official USDA estimate. 2/ Nutrients were reported as N, P₂O₅ and K₂O. P₂O₅ can be converted to P by dividing by 2.2914; K20 can be converted to K by dividing by 1.2046. 3/ Percentages apply to acres receiving fertilizer, not to total acres harvested.

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U. S. Department of Agriculture Statistical Reporting Service

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