Crop Production

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HIGHLIGHTS OF U.S. CROP REPORT AS OF JANUARY 1, 1970

Citrus production is expected to be 3 percent more than last season, which would be a record crop. The citrus production forecast in this report does not reflect any damage that may have occurred on January 8 and 9, 1970 from low temperatures in Florida and Texas.

Orange production is forecast at 189.7 million boxes, down 0.4 million boxes (0.2 percent) from the December 1 forecast of 190.1 million but 3 percent above last season. Florida, California, and Arizona were unchanged from last month, but the Texas forecast was down.

Grapefruit production, forecast at 52.9 million boxes, is down 0.4 million boxes (0.8 percent) from the 53.3 a month earlier and 2 percent less than last season. The Texas forecast dropped 0.5 million boxes from December 1, partly offset by a slight increase in Arizona.

Lemon prospects were practically the same as a month earlier, and estimated production is 17.7 million boxes -- 12 percent above last season.

Winter potato production is forecast at 3.7 million cwt., 3 percent below last year. Harvest is underway. Intentions for late spring potato acreage of 79,300 acres is 13 percent below 1969.

Winter wheat maintained the generally good condition of a month earlier.

Hay stocks on farms totaled 89.9 million tons, down slightly from the record high 90.4 million tons a year earlier.

UNITED STATES DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
CrPr 2-2 (1-70)
Crop Reporting Board
Washington, D. C. 20250

CITRUS FRUITS PRODUCTION 1/

Crop	1967-68	1968-69	Indicated 1969-70	
			Dec. 1, 1969	Jan. 1, 1970
	1,000 boxes			
Oranges	124,570	183,880	190,100	189,700
Grapefruit	44,058	54,170	53,300	52,900
Lemons	16,850	15,810	17,800	17,700

1/ Season begins with bloom of the first year shown and ends with the completion of harvest the following year.

POTATOES IRISH

Seasonal group	Acreage		Yield per harv. acre			Production			
	Harv. 1969	For harv. 1970	1968	1969	Indicated 1970	1968	1969	Indicated 1970 Dec. 1, 1969	Indicated 1970 Jan. 1, 1970
	1,000 acres		Cwt.			1,000 cwt.			
Winter	19.8	19.3	177	193	192	3,885	3,828	3,748	3,706
	Planted acreage			Yield per planted acre			Production		
	1968	1969	Indicated 1970	1968	1969		1968	1969	1970
	1,000 acres			Cwt.			1,000 cwt.		
Early spring	34.4	33.0	30.8	146	172		5,019	5,687	April 10
Late spring	83.2	91.1	79.3	246	234		20,450	21,290	May 11

HAY: STOCKS ON FARMS

Crop	1968	1969	1970
	1,000 tons		
January 1	89,119	90,406	89,937
May 1	25,158	1/23,873	---

1/ Revised.

APPROVED:

Richard Lyng

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GENERAL CROP SUMMARY AS OF JANUARY 1, 1970

December weather was relatively favorable for winding up the 1969 crop year, according to the Crop Reporting Board. Temperatures averaged near or above normal in the western half of the Nation, but in the Ohio River Basin and the Southeast, temperatures averaged 3 to 6 degrees below normal. Precipitation totals were less than usual in the Central Plains and the central and eastern Corn Belt, but above normal in the Pacific Northwest, South Central, and Atlantic Coast States.

Corn picking was still active the first week of December, but by mid-month most corn had been harvested. High moisture necessitated drying much corn, and handling capacity often governed picking speed. Cotton picking was complete or nearly complete by January 1. Wet conditions delayed windup activity in parts of Texas and Arizona. Livestock are in generally good condition. Weather conditions favored use of pastures, ranges, fall-seeded grain, and crop residues. By January 1, snow cover prevailed in the northern half of the Nation, where supplemental feeding increased sharply.

Citrus crop prospects as of January 1 were slightly below a month earlier because of reduced orange and grapefruit prospects in Texas. Citrus prospects in California, Florida and Arizona were unchanged from a month ago.

E R R A T A
1969 ANNUAL CROP SUMMARY
Corrections to the 1969 Annual Crop Summary, CrPr 2-1 (69), issued December 19, 1969 are shown on page 7.

Soil moisture was adequate in nearly all areas during December. The moisture supply favored development of fall-seeded grains. Winter grains in Northern and Central areas are now dormant and spring development will depend on winter snow and spring rains.

Winter wheat continued in generally good condition as a month earlier. In the important Great Plains, temperatures averaged near or above normal but precipitation was generally less than usual. Topsoil moisture was adequate; however, by January 1 parts of western Kansas, eastern Colorado, and other local areas were beginning to need surface moisture. Wind erosion damage has been minor but some late-planted wheat failed to get much top growth and is vulnerable. Despite limited snow cover in Kansas, temperatures have not been severe enough to cause much damage. Nebraska wheat entered dormancy in good condition, and snow cover was protecting it from low temperatures. Winter wheat is in fair condition in Montana. In Texas, wheat has grown well and snow in the High Plains late in December benefited dryland wheat. Generous amounts of precipitation in Oregon and Washington, materially aided fall-seeded grain. Wheat in the Corn Belt had ample soil moisture, and most acreage has a good snow cover.

HAY STOCKS ON FARMS: January 1 stocks of hay on farms are estimated at 89.9 million tons, down slightly from the record high 90.4 million on hand a year earlier. Ample tonnage of hay is available in most areas of the Nation, reflecting the record 1969 production of 127.1 million tons. Fall weather was generally favorable allowing maximum utilization of pastures, ranges, fall-seeded small grains and crop residues and minimizing the need for supplemental feed.

Disappearance from May 1, 1969 through January 1, 1970 totaled 61.1 million tons compared with 60.3 million for a year earlier.

CITRUS: The Nation's citrus crop prospects as of January 1 were slightly below the December 1 forecast because of reduced orange and grapefruit prospects in Texas. Citrus production is expected to exceed last season by 3 percent and if realized will be above the record 1966-67 crop.

The U. S. orange crop is forecast at 189,700,000 boxes, slightly below the December 1 forecast but 3 percent above last season. California, Florida and Arizona forecasts were unchanged from last month but Texas declined 400,000 boxes.

United States grapefruit production is forecast slightly below the December 1 indication and is expected to be about 2 percent below the 1968-69 crop. Florida and California prospects were unchanged from last month, while Texas prospects declined and Arizona increased.

Lemon prospects for California and Arizona are 12 percent above last season; slightly below last month's forecast because of reduced expectations in Arizona.

Tangerine production is forecast 9 percent below last year but 9 percent above 1967-68, and unchanged from last month's.

Low temperatures on January 8 and 9 are believed to have caused little damage to Florida's citrus. Temperatures near the critical level occurred after sunrise on January 8, 1970, but were of very short duration. A survey will be conducted during the week of January 26-30, 1970, to determine any possible internal damage caused by the freeze and the results will be released about January 30, 1970.

Condition of Florida citrus trees and fruit was excellent on January 1. Tree foliage was generally dark green showing good dormancy. December was cold, wet and windy, leaving some groves with excess soil moisture. Caretakers are ditching and pumping where water had been standing, and disking for aeration.

Harvest was quite active until Christmas week when the fresh fruit shipping embargo slowed movement for the remainder of the month. Fruit that processors received during the holiday period was limited because of bad weather.

Fruit maturity continued ahead of a year earlier, and juice content is much greater than a year earlier.

California citrus production is expected to be unaffected by the cold temperatures in late December. However, quality is expected to decline and additional fruit shift into processing outlets. Heating equipment was fired several nights the last week of December as temperatures fell below freezing in central and southern California.

Harvest of Navel oranges continues to increase, but movement lags behind a year ago. High, dry winds in Southern areas caused some droppage and scarring. The full extent of damage by cold and high winds will not become apparent for several days. However, injury is expected to be variable and affect quality more than quantity.

Valencias remain in fair to good condition but cold dry weather in December retarded development.

Temperatures dropped to the mid 20's in the Desert Valleys the last of December, but damage to grapefruit is expected to be small. Other areas grapefruit crop expectations continue good. Lemon harvest is increasing in the south central counties and is active in both the desert and San Joaquin Valley areas where most of the new crop is originating. General rains at mid-December, following a dry first half, increased prospects for later pickings.

In Arizona, a cold period in late December caused some damage to tender new growth, although fruit damage is expected to be very light. Harvest of Navels and sweet oranges is active in the Yuma and Salt River Valley areas. Valencia oranges are sizing well and fruit is coloring well in most areas. Grapefruit harvest continued in full swing in the Yuma area but is limited in the Salt River Valley area. Sizes are generally much smaller than last year, but fruit quality is very good.

In Texas, many groves are not picking out as well as expected earlier because of small fruit size. Harvest of grapefruit and early and midseason oranges is expected to be active in January with an increasing share going to processors. Picking of Valencia oranges is expected to begin in February.

POTATOES: The 1970 production of winter potatoes is forecast at 3,706,000 cwt., 3 percent less than the 1969 crop of 3,828,000 cwt.

Harvest, underway in the Everglades area of Florida, is expected to get started in the Ft. Myers area in late January.

California marketings are expected to increase to a good volume during January.

Plantings for the 1970 late spring crop, based on intentions, are estimated at 79,300 acres, compared with 91,100 acres planted in 1969. All States expect to plant less acreage than last year.

For California, intended plantings for 1970 of 37,000 acres are 15 percent less than last year. Plantings were nearly complete in the Edison district and progressing well in the other early areas of Kern County.

In Arizona, planting is expected to be active by mid-January.

Planting in Alabama is expected to start in late January.

CROP REPORTING BOARD

E R R A T A

Crop Production - 1969 Annual Summary CrPr 2-1 (69)

Page 82 "Grapes" - Arizona, 1969 production change from 16,500 tons to 15,200 tons. Change U. S. 1969 production from 3,874,300 tons to 3,873,000 tons.

HAY STOCKS ON FARMS - JANUARY

State	1968	1969	1970
		1,000 tons	
Maine	323	270	256
New Hampshire	154	134	122
Vermont	733	672	619
Massachusetts	183	163	157
Rhode Island	18	16	18
Connecticut	170	136	137
New York	4,208	3,853	3,756
New Jersey	253	199	199
Pennsylvania	2,744	2,778	2,695
Ohio	1,791	2,142	1,860
Indiana	1,348	1,649	1,552
Illinois	2,970	2,843	2,626
Michigan	1,980	2,163	2,052
Wisconsin	7,188	7,979	8,321
Minnesota	5,536	5,180	5,160
Iowa	6,047	6,117	6,220
Missouri	4,401	5,021	4,552
North Dakota	3,565	3,337	3,492
South Dakota	4,323	4,768	4,904
Nebraska	5,198	4,843	5,849
Kansas	3,750	3,588	3,578
Delaware	56	46	52
Maryland	483	418	426
Virginia	1,180	1,415	1,312
West Virginia	711	693	703
North Carolina	473	417	456
South Carolina	265	256	260
Georgia	592	523	668
Florida	219	216	226
Kentucky	2,358	2,237	2,399
Tennessee	1,502	1,331	1,537
Alabama	558	470	535
Mississippi	833	837	797
Arkansas	963	1,046	719
Louisiana	431	413	293
Oklahoma	2,388	2,401	2,035
Texas	2,189	2,798	2,036
Montana	3,594	3,836	3,727
Idaho	2,711	2,208	2,445
Wyoming	1,810	1,579	1,679
Colorado	1,937	2,177	2,383
New Mexico	347	524	436
Arizona	325	411	329
Utah	1,166	1,104	1,057
Nevada	566	523	626
Washington	1,243	1,236	1,379
Oregon	1,744	1,550	1,648
California	1,592	1,890	1,649
United States	89,119	90,406	89,937

CITRUS FRUITS, PRODUCTION 1/

Crop and State	1967-68	1968-69	Indicated 1969-70	1967-68	1968-69	Indicated 1969-70
	1,000 boxes 2/			Equivalent tons		
ORANGES: EARLY, MIDSEASON & NAVEL VARIETIES: 3/						
Calif.	9,150	18,600	22,000	343,000	698,000	825,000
Fla.	51,400	69,700	75,000	2,313,000	3,136,000	3,375,000
Texas	970	2,800	3,200	43,600	126,000	144,000
Ariz.	880	1,270	1,300	33,000	47,600	48,800
Total Above Varieties	62,400	92,370	101,500	2,732,600	4,007,600	4,392,800
VALENCIAS:						
Calif.	10,000	25,700	23,000	375,000	964,000	862,000
Fla.	49,100	60,000	59,000	2,210,000	2,700,000	2,655,000
Texas	830	1,700	1,900	37,400	76,500	85,500
Ariz.	2,240	4,110	4,300	84,000	154,000	161,000
Total Valencias	62,170	91,510	88,200	2,706,400	3,894,500	3,763,500
ALL ORANGES:						
Calif.	19,150	44,300	45,000	718,000	1,662,000	1,687,000
Fla.	100,500	129,700	134,000	4,523,000	5,836,000	6,030,000
Texas	1,800	4,500	5,100	81,000	202,500	229,500
Ariz.	3,120	5,380	5,600	117,000	201,600	209,800
U. S. All Oranges	124,570	183,880	189,700	5,439,000	7,902,100	8,156,300
GRAPEFRUIT:						
Fla., All	32,900	39,900	37,000	1,399,000	1,695,000	1,572,000
Seedless	23,700	27,700	27,000	1,008,000	1,177,000	1,147,000
Pink	9,400	10,700	10,000	400,000	455,000	425,000
White	14,300	17,000	17,000	608,000	722,000	722,000
Other	9,200	12,200	10,000	391,000	518,000	425,000
Texas	2,800	6,700	7,500	112,000	268,000	300,000
Ariz.	3,740	2,510	3,100	120,000	80,300	99,200
Calif., All	4,618	5,060	5,300	150,400	165,300	172,400
Desert Valleys	2,918	3,260	3,200	93,400	105,000	102,000
Other Areas	1,700	1,800	2,100	57,000	60,300	70,400
U. S., All Grapefruit	44,058	54,170	52,900	1,781,400	2,208,600	2,143,600
LEMONS:						
Calif.	13,600	12,300	14,500	517,000	468,000	551,000
Ariz.	3,250	3,510	3,200	124,000	134,000	122,000
U. S. Lemons	16,850	15,810	17,700	641,000	602,000	673,000
TANGELOS: Fla.	1,700	1,800	2,900	76,500	81,000	130,000
TANGERINES:						
Fla.	2,800	3,400	2,700	133,000	162,000	128,000
Ariz.	150	170	220	5,620	6,380	8,250
Calif.	560	640	900	21,000	24,000	33,800
Total Tangerines	3,510	4,210	3,820	159,620	192,380	170,050
TEMPLES: Fla.	4,500	4,500	6,000	202,000	202,000	270,000

1/ The crop year begins with the bloom of the first year shown and ends with completion of harvest the following year. 2/ Net content of box varies. Approximate averages are as follows: Oranges - California and Arizona, 75 lbs.; Florida and other States, 90 lbs.; Grapefruit - California, Desert Valleys, and Arizona, 64 lbs.; other California areas, 67 lbs.; Florida 85 lbs. and Texas 80 lbs.; Lemons - 76 lbs.; Tangelos - 90 lbs.; Tangerines - California and Arizona, 75 lbs.; Florida, 95 lbs.; and Temples - 90 lbs. 3/ Navel and Miscellaneous varieties in California and Arizona. Early and Midseason varieties in Florida and Texas, including small quantities of tangerines in Texas.

POTATOES, IRISH 1970 CROP

Seasonal group and State	Acreage Harvested 1968	Acreage Harvested 1969	For harvest 1970	Yield per harv. acre 1968	Yield per harv. acre 1969	Indicated 1970	Production 1968	Production 1969	Indicated 1970
	1,000 acres			Cwt.			1,000 cwt.		
WINTER:									
Fla.	11.4	11.0	10.8	175	180	170	1,995	1,980	1,836
Calif.	10.5	8.8	8.5	180	210	220	1,890	1,848	1,870
Total	21.9	19.8	19.3	177	193	192	3,885	3,828	3,706

POTATOES, IRISH 1970 CROP - continued

Seasonal group and State	Acreage planted 1968	Acreage planted 1969	Indicated 1970	Yield per planted acre 1968	Yield per planted acre 1969	1970	Production 1968	Production 1969	1970
	1,000 acres			Cwt.			1,000 cwt.		
E. SPRING:									
Fla.									
Hastings	28.3	26.5	25.0	155	184	---	4,384	4,866	Apr. 10
Other	3.3	3.2	2.5	118	131	---	388	418	"
Texas	2.8	3.3	3.3	88	122	---	247	403	"
Total	34.4	33.0	30.8	146	172	---	5,019	5,687	"
L. SPRING:									
N. Carolina									
8 N.E. Counties	9.5	9.0	8.8	150	145	---	1,425	1,305	May 11
Other Counties	2.2	2.2	2.1	120	120	---	264	264	"
Ala.	11.0	10.5	7.9	124	107	---	1,365	1,120	"
Miss.	2.5	2.5	2.4	75	80	---	188	200	"
Ark.	1.8	1.8	1.7	70	70	---	126	126	"
La.	2.3	3.5	3.0	63	64	---	145	225	"
Texas	5.2	5.2	4.8	101	96	---	525	500	"
Ariz.	10.1	12.8	11.6	230	230	---	2,323	2,944	"
Calif.	38.6	43.6	37.0	365	335	---	14,089	14,606	"
Total	83.2	91.1	79.3	244	234	---	20,450	21,290	"

FERTILIZER USED ON SELECTED CROPS IN SELECTED STATES 1969
(Corn for Grain, Cotton, Soybeans for Beans, Wheat)

Data on fertilizer used on acreages of corn and wheat for grain, soybeans for beans, and cotton in 1969 are presented in the following tables. The information was obtained when interviewing farm operators for Objective Yield Surveys conducted by the Statistical Reporting Service and are not official estimates of total fertilizer use. The sample fields for Objective Yield Surveys were selected on the basis of acreage of the various crops.

The samples are relatively small in some States and the data are subject to sampling fluctuation. Sampling errors were computed for the rates per acre of nitrogen, phosphorus and potash applied to each crop in the major producing States. For all States combined, the coefficients of variation in 1969 were less than 2 percent for cotton and corn, less than 3 percent for soybeans and slightly above 4 percent for wheat.

The data on percentage of harvested acres fertilized, application rate of fertilizer nutrients and time of application were collected by interview in the specified States in the summer and fall of 1969. No attempt has been made to convert the data into total nutrients used or total acreage affected. However, total harvested acreage for each crop is shown by States. They are the official USDA acreage estimates published in the 1969 SRS Annual Crop Summary.

Number of sample fields for each State is shown in the second column of the table for each crop. Data for wheat include reports on Winter, Durum and Other Spring Wheat where produced. The nutrients applied were reported in terms of N, P_2O_5 and K_2O, but are shown in the tables in terms of actual elements of N, P, and K. Factors used in converting to actual elements of P and K are given in the table footnotes.

The data in the last three columns of each table show the time of application of fertilizer. These percentages represent the percent of acres fertilized (1) at or before seeding, (2) after seeding only, or (3) both at or before seeding and after seeding.

Additional copies of the section on Fertilizer Use are available upon request.

FERTILIZER USE ON CORN ACREAGE HARVESTED FOR GRAIN, SELECTED STATES, 1969

State	Acres harv. 1/	Fields in survey	Acres receiving: Any fert.	Acres receiving: N	Acres receiving: P	Acres receiving: K	Rate per acre receiving 2/: N	Rate per acre receiving 2/: P	Rate per acre receiving 2/: K	Acres fertilized 3/: At or before seeding only	Acres fertilized 3/: After seeding only	Acres fertilized 3/: At or before & after seeding
	Thou.	No.	Percent				Pounds			Percent		
N. Y.	247	100	100	100	100	100	70.2	26.5	49.6	93	0	7
Pa.	907	129	99	99	98	98	71.9	27.8	46.5	80	4	16
Ohio	2,740	126	100	100	99	99	93.1	33.7	63.1	67	1	32
Ind.	4,646	155	99	99	97	97	115.3	33.4	74.6	53	0	47
Ill.	9,763	198	97	96	92	90	120.2	32.5	65.0	71	3	26
Mich.	1,266	131	99	99	99	99	89.8	28.8	72.3	75	0	25
Wis.	1,684	138	99	99	97	97	79.3	27.7	62.6	59	1	40
Minn.	4,184	154	90	90	87	85	95.1	26.3	49.5	74	1	25
Iowa	9,416	201	92	91	88	83	108.1	29.2	48.5	63	3	34
Mo.	2,603	143	95	95	83	82	108.2	24.3	45.9	80	4	16
S. D.	2,447	138	47	46	42	19	55.6	13.4	10.2	88	1	11
Nebr.	4,663	178	89	89	67	44	143.3	16.2	18.7	51	8	41
Kans.	1,236	115	93	93	75	47	133.1	20.2	19.8	85	0	15
Md.	479	92	100	100	100	100	85.3	29.6	64.3	64	0	36
Va.	432	98	98	98	98	97	102.3	31.0	77.6	56	0	44
N. C.	1,321	136	100	100	100	100	133.0	24.6	57.7	9	0	91
S. C.	402	98	100	100	100	100	123.7	27.5	65.1	11	0	89
Ga.	1,426	114	99	99	99	99	119.1	22.0	61.3	19	1	80
Fla.	358	87	100	100	97	100	103.3	20.8	57.6	7	8	85
Ky.	998	134	96	96	91	91	102.5	30.6	61.5	53	4	43
Tenn.	605	113	98	98	97	98	102.0	24.5	48.8	57	0	43
Ala.	619	98	100	100	98	98	95.6	23.0	44.8	16	2	82
Miss.	318	80	98	98	92	92	87.5	17.3	32.8	10	8	82
Texas	571	104	81	81	60	31	116.8	23.9	18.4	74	6	20

1/ From 1969 Annual Crop Summary, SRS, USDA.

2/ Nutrients were reported in terms of N, P_2O_5, and K_2O but are shown in this table in terms of the elements N, P, K. P_2O_5 is converted to P by dividing by 2.29137, K_2O is converted to K by dividing by 1.20459.

3/ Percentages apply to acres receiving fertilizer, not to total acres harvested for grain.

FERTILIZER USE ON WHEAT ACREAGE HARVESTED FOR GRAIN, SELECTED STATES, 1969

State	Acres harv. 1/	Fields in survey	Acres receiving: Any fert.	Acres receiving: N	Acres receiving: P	Acres receiving: K	Rate per acre receiving 2/: N	Rate per acre receiving 2/: P	Rate per acre receiving 2/: K	Acres fertilized 3/: At or before seeding only	Acres fertilized 3/: After seeding only	Acres fertilized 3/: At or before & after seeding
	Thou.	No.	Percent				Pounds			Percent		
Ohio	1,067	79	98	98	98	98	36.6	24.1	42.8	58	7	35
Ind.	899	75	83	83	79	79	48.3	21.6	39.1	55	5	40
Ill.	1,301	78	90	85	86	77	41.8	24.4	42.3	66	1	33
Mich.	628	83	98	98	96	96	31.1	25.1	42.1	66	1	33
Minn.	838	51	90	90	90	59	32.4	15.7	16.3	91	0	9
Mo.	1,035	89	93	93	74	74	52.8	18.2	33.9	57	20	23
N.Dak.	6,782	229	72	65	72	8	14.0	10.9	9.4	99	0	1
S.Dak.	1,963	140	33	33	30	0	23.2	9.9	0.0	94	6	0
Nebr.	2,717	116	49	48	17	3	36.1	15.0	18.8	75	21	4
Kans.	9,849	274	51	50	39	5	49.9	16.7	19.9	58	9	33
Okla.	4,150	145	57	57	34	10	41.1	13.8	9.4	51	19	30
Texas	2,869	148	34	34	19	2	84.7	23.7	16.6	76	17	7
Mont.	3,645	152	39	32	39	0	7.5	8.0	0.6	94	3	3
Idaho	1,051	104	52	50	13	0	59.9	14.8	0.0	55	16	29
Colo.	2,145	95	13	13	0	0	17.9	0.0	0.0	100	0	0
Wash.	2,462	123	82	82	15	5	79.3	22.3	42.1	73	2	25
Oreg.	788	66	54	54	8	0	46.9	15.1	0.0	72	11	17

FERTILIZER USE ON SOYBEAN ACREAGE HARVESTED FOR BEANS, SELECTED STATES, 1969

Ohio	2,344	121	46	38	46	46	9.6	16.0	27.4	100	0	0
Ind.	3,278	122	52	40	52	52	8.7	18.5	39.9	100	0	0
Ill.	6,596	140	11	6	11	11	8.6	23.5	58.8	100	0	0
Minn.	3,167	114	22	18	20	21	8.2	11.8	28.7	100	0	0
Iowa	5,283	118	13	6	12	12	7.8	23.3	44.3	93	7	0
Mo.	3,150	128	18	15	16	18	11.9	18.9	37.2	100	0	0
Nebr.	813	47	15	15	13	6	27.1	19.2	19.1	100	0	0
Kans.	852	44	16	16	14	14	20.6	14.3	26.6	100	0	0
N.C.	933	76	71	57	70	71	14.6	15.5	42.2	100	0	0
S.C.	959	86	81	66	81	81	16.6	18.4	55.0	94	3	3
Tenn.	1,193	96	48	34	48	48	13.2	15.0	29.3	98	2	0
Miss.	2,290	145	26	14	26	26	19.3	19.1	36.9	95	5	0
Ark.	4,228	162	28	15	28	28	12.8	16.7	34.8	98	2	0
La.	1,608	104	23	14	23	23	12.0	20.8	39.6	100	0	0

1/ From 1969 Annual Crop Summary, SRS, USDA.
2/ Nutrients were reported in terms of N, P_2O_5, and K_2O but are shown in this table in terms of the elements N, P, K. P_2O_5 is converted to P by dividing by 2.29137; K_2O is converted to K by dividing by 1.20459.
3/ Percentages apply to acres receiving fertilizer, not to total acres harvested for beans.

FERTILIZER USE ON COTTON ACREAGE, SELECTED STATES, 1969

State	Acres harv. 1/	Fields in survey	Acres receiving				Rate per acre receiving 2/			Acres fertilized 3/		
			Any fert.	N	P	K	N	P	K	At or before seeding only	After seeding only	At or before & after seeding
	Thou.	No.	- Percent -				- Pounds -			- Percent -		
Mo.	305	67	94	94	91	91	55.5	21.3	47.0	47	21	32
N.C.	171	68	99	99	90	90	61.7	23.6	57.7	36	15	49
S.C.	287	94	99	99	97	97	88.3	36.6	81.4	12	4	84
Ga.	385	114	100	100	100	98	104.7	28.3	76.0	25	0	75
Tenn.	405	77	100	100	97	97	67.4	25.0	50.1	81	1	18
Ala.	545	125	100	100	98	98	80.3	30.4	58.6	42	2	56
Miss.	1,190	357	100	100	59	59	93.1	24.2	47.1	58	14	28
Ark.	1,055	287	98	96	68	68	64.5	20.2	45.0	70	14	16
La.	425	97	97	97	62	64	63.4	20.0	39.2	64	21	15
Okla.	465	105	53	53	50	42	27.3	16.1	13.8	96	2	2
Texas	4,675	656	49	48	34	14	61.0	20.2	17.8	76	13	11
N.Mex.	147	54	63	57	48	0	92.1	33.4	0.0	56	32	12
Ariz.	309	113	97	97	39	2	144.9	30.5	9.6	7	63	30
Calif.	705	246	97	97	49	4	195.7	43.7	29.7	27	23	50

1/ From 1969 Annual Crop Summary, SRS, USDA.

2/ Nutrients were reported in terms of N, P_2O_5, and K_2O but are shown in this table in terms of the elements N,P,K. P_2O_5 is converted to P by dividing by 2.29137; K_2O is converted to K by dividing by 1.20459.

3/ Percentages apply to acres receiving fertilizer, not to total acres harvested.

UNITED STATES DEPARTMENT OF AGRICULTURE
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FERTILIZER USED ON SELECTED CROPS IN SELECTED STATES 1969
(Corn for Grain, Cotton, Soybeans for Beans, Wheat)

Data on fertilizer used on acreages of corn and wheat for grain, soybeans for beans, and cotton in 1969 are presented in the following tables. The information was obtained when interviewing farm operators for Objective Yield Surveys conducted by the Statistical Reporting Service and are not official estimates of total fertilizer use. The sample fields for Objective Yield Surveys were selected on the basis of acreage of the various crops.

The samples are relatively small in some States and the data are subject to sampling fluctuation. Sampling errors were computed for the rates per acre of nitrogen, phosphorus and potash applied to each crop in the major producing States. For all States combined, the coefficients of variation in 1969 were less than 2 percent for cotton and corn, less than 3 percent for soybeans and slightly above 4 percent for wheat.

The data on percentage of harvested acres fertilized, application rate of fertilizer nutrients and time of application were collected by interview in the specified States in the summer and fall of 1969. No attempt has been made to convert the data into total nutrients used or total acreage affected. However, total harvested acreage for each crop is shown by States. They are the official USDA acreage estimates published in the 1969 SRS Annual Crop Summary.

Number of sample fields for each State is shown in the second column of the table for each crop. Data for wheat include reports on Winter, Durum and Other Spring Wheat where produced. The nutrients applied were reported in terms of N, P_2O_5 and K_2O, but are shown in the tables in terms of actual elements of N, P, and K. Factors used in converting to actual elements of P and K are given in the table footnotes.

The data in the last three columns of each table show the time of application of fertilizer. These percentages represent the percent of acres fertilized (1) at or before seeding, (2) after seeding only, or (3) both at or before seeding and after seeding.

UNITED STATES DEPARTMENT OF AGRICULTURE
Statistical Reporting Service
Crop Reporting Board
Reprint from: Crop Production Report
Washington, D. C. 20250
January 9, 1970

FERTILIZER USE ON CORN ACREAGE HARVESTED FOR GRAIN, SELECTED STATES, 1969

State	Acres harv. 1/	Fields in survey	Acres receiving: Any fert.	Acres receiving: N	Acres receiving: P	Acres receiving: K	Rate per acre receiving 2/: N	Rate per acre receiving 2/: P	Rate per acre receiving 2/: K	Acres fertilized 3/: At or before seeding only	Acres fertilized 3/: After seeding only	Acres fertilized 3/: At or before & after seeding
	Thou.	No.	Percent	Percent	Percent	Percent	Pounds	Pounds	Pounds	Percent	Percent	Percent
N. Y.	247	100	100	100	100	100	70.2	26.5	49.6	93	0	7
Pa.	907	129	99	99	98	98	71.9	27.8	46.5	80	4	16
Ohio	2,740	126	100	100	99	99	93.1	33.7	63.1	67	1	32
Ind.	4,646	155	99	99	97	97	115.3	33.4	74.6	53	0	47
Ill.	9,763	198	97	96	92	90	120.2	32.5	65.0	71	3	26
Mich.	1,266	131	99	99	99	99	89.8	28.8	72.3	75	0	25
Wis.	1,684	138	99	99	97	97	79.3	27.7	62.6	59	1	40
Minn.	4,184	154	90	90	87	85	95.1	26.3	49.5	74	1	25
Iowa	9,416	201	92	91	88	83	108.1	29.2	48.5	63	3	34
Mo.	2,603	143	95	95	83	82	108.2	24.3	45.9	80	4	16
S. D.	2,447	138	47	46	42	19	55.6	13.4	10.2	88	1	11
Nebr.	4,663	178	89	89	67	44	143.3	16.2	18.7	51	8	41
Kans.	1,236	115	93	93	75	47	133.1	20.2	19.8	85	0	15
Md.	479	92	100	100	100	100	85.3	29.6	64.3	64	0	36
Va.	432	98	98	98	98	97	102.3	31.0	77.6	56	0	44
N. C.	1,321	136	100	100	100	100	133.0	24.6	57.7	9	0	91
S. C.	402	98	100	100	100	100	123.7	27.5	65.1	11	0	89
Ga.	1,426	114	99	99	99	99	119.1	22.0	61.3	19	1	80
Fla.	358	87	100	100	97	100	103.3	20.8	57.6	7	8	85
Ky.	998	134	96	96	91	91	102.5	30.6	61.5	53	4	43
Tenn.	605	113	98	98	97	98	102.0	24.5	48.8	57	0	43
Ala.	619	98	100	100	98	98	95.6	23.0	44.8	16	2	82
Miss.	318	80	98	98	92	92	87.5	17.3	32.8	10	8	82
Texas	571	104	81	81	60	31	116.8	23.9	18.4	74	6	20

1/ From 1969 Annual Crop Summary, SRS, USDA.

2/ Nutrients were reported in terms of N, P_2O_5, and K_2O but are shown in this table in terms of the elements N, P, K. P_2O_5 is converted to P by dividing by 2.29137, K_2O is converted to K by dividing by 1.20459.

3/ Percentages apply to acres receiving fertilizer, not to total acres harvested for grain.

FERTILIZER USE ON WHEAT ACREAGE HARVESTED FOR GRAIN, SELECTED STATES, 1969

State	Acres harv. 1/	Fields in survey	Acres receiving: Any fert.	Acres receiving: N	Acres receiving: P	Acres receiving: K	Rate per acre receiving 2/: N	Rate per acre receiving 2/: P	Rate per acre receiving 2/: K	Acres fertilized 3/: At or before seeding only	Acres fertilized 3/: After seeding only	Acres fertilized 3/: At or before & after seeding
	Thou.	No.	Percent				Pounds			Percent		
Ohio	1,067	79	98	98	98	98	36.6	24.1	42.8	58	7	35
Ind.	899	75	83	83	79	79	48.3	21.6	39.1	55	5	40
Ill.	1,301	78	90	85	86	77	41.8	24.4	42.3	66	1	33
Mich.	628	83	98	98	96	96	31.1	25.1	42.1	66	1	33
Minn.	838	51	90	90	90	59	32.4	15.7	16.3	91	0	9
Mo.	1,035	89	93	93	74	74	52.8	18.2	33.9	57	20	23
N.Dak.	6,782	229	72	65	72	8	14.0	10.9	9.4	99	0	1
S.Dak.	1,963	140	33	33	30	0	23.2	9.9	0.0	94	6	0
Nebr.	2,717	116	49	48	17	3	36.1	15.0	18.8	75	21	4
Kans.	9,849	274	51	50	39	5	49.9	16.7	19.9	58	9	33
Okla.	4,150	145	57	57	34	10	41.1	13.8	9.4	51	19	30
Texas	2,869	148	34	34	19	2	84.7	23.7	16.6	76	17	7
Mont.	3,645	152	39	32	39	0	7.5	8.0	0.6	94	3	3
Idaho	1,051	104	52	50	13	0	59.9	14.8	0.0	55	16	29
Colo.	2,145	95	13	13	0	0	17.9	0.0	0.0	100	0	0
Wash.	2,462	123	82	82	15	5	79.3	22.3	42.1	73	2	25
Oreg.	788	66	54	54	8	0	46.9	15.1	0.0	72	11	17

FERTILIZER USE ON SOYBEAN ACREAGE HARVESTED FOR BEANS, SELECTED STATES, 1969

Ohio	2,344	121	46	38	46	46	9.6	16.0	27.4	100	0	0
Ind.	3,278	122	52	40	52	52	8.7	18.5	39.9	100	0	0
Ill.	6,596	140	11	6	11	11	8.6	23.5	58.8	100	0	0
Minn.	3,167	114	22	18	20	21	8.2	11.8	28.7	100	0	0
Iowa	5,283	118	13	6	12	12	7.8	23.3	44.3	93	7	0
Mo.	3,150	128	18	15	16	18	11.9	18.9	37.2	100	0	0
Nebr.	813	47	15	15	13	6	27.1	19.2	19.1	100	0	0
Kans.	852	44	16	16	14	14	20.6	14.3	26.6	100	0	0
N.C.	933	76	71	57	70	71	14.6	15.5	42.2	100	0	0
S.C.	959	86	81	66	81	81	16.6	18.4	55.0	94	3	3
Tenn.	1,193	96	43	34	48	48	13.2	15.0	29.3	98	2	0
Miss.	2,290	145	26	14	26	26	19.3	19.1	36.9	95	5	0
Ark.	4,228	162	28	15	28	28	12.8	16.7	34.8	98	2	0
La.	1,608	104	23	14	23	23	12.0	20.8	39.6	100	0	0

1/ From 1969 Annual Crop Summary, SRS, USDA.
2/ Nutrients were reported in terms of N, P_2O_5, and K_2O but are shown in this table in terms of the elements N, P, K. P_2O_5 is converted to P by dividing by 2.29137; K_2O is converted to K by dividing by 1.20459.
3/ Percentages apply to acres receiving fertilizer, not to total acres harvested for beans.

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FERTILIZER USE ON COTTON ACREAGE, SELECTED STATES, 1969

State	Acres harv. 1/	Fields in survey	Acres receiving				Rate per acre receiving 2/			Acres fertilized 3/		
			Any fert.	N	P	K	N	P	K	At or before seeding only	After seeding only	At or before & after seeding
	Thou.	No.	- Percent -				- Pounds -			- Percent -		
Mo.	305	67	94	94	91	91	55.5	21.3	47.0	47	21	32
N.C.	171	68	99	99	90	90	61.7	23.6	57.7	36	15	49
S.C.	287	94	99	99	97	97	88.3	36.6	81.4	12	4	84
Ga.	385	114	100	100	100	98	104.7	28.3	76.0	25	0	75
Tenn.	405	77	100	100	97	97	67.4	25.0	50.1	81	1	18
Ala.	545	125	100	100	98	98	80.3	30.4	58.6	42	2	56
Miss.	1,190	357	100	100	59	59	93.1	24.2	47.1	58	14	28
Ark.	1,055	287	98	96	68	68	64.5	20.2	45.0	70	14	16
La.	425	97	97	97	62	64	63.4	20.0	39.2	64	21	15
Okla.	465	105	53	53	50	42	27.3	16.1	13.8	96	2	2
Texas	4,675	656	49	48	34	14	61.0	20.2	17.8	76	13	11
N.Mex.	147	54	63	57	48	0	92.1	33.4	0.0	56	32	12
Ariz.	309	113	97	97	39	2	144.9	30.5	9.6	7	63	30
Calif.	705	246	97	97	49	4	195.7	43.7	29.7	27	23	50

1/ From 1969 Annual Crop Summary, SRS, USDA.

2/ Nutrients were reported in terms of N, P_2O_5, and K_2O but are shown in this table in terms of the elements N,P,K. P_2O_5 is converted to P by dividing by 2.29137; K_2O is converted to K by dividing by 1.20459.

3/ Percentages apply to acres receiving fertilizer, not to total acres harvested.