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# Crop Production



National  
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United States  
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Board

Washington, D.C.

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RELEASED: December 12, 1989  
3:00 P.M. ET

## HIGHLIGHTS

**COTTON** production as of December 1, is forecast at 12.1 million bales, down 22 percent from 1988 and virtually unchanged from the November 1 forecast. A 20 percent drop in area for harvest and slightly lower yields, account for this decrease. The Delta States experienced favorable weather during harvest and show an increase in production from last month. In Texas, an October freeze lowered expected yields.

**ORANGE** production is forecast at 194 million boxes, unchanged from October 1 but 6 percent below last season. This decline is due mostly to Florida's 11 percent decrease from last season. Freezing weather in Florida during late February killed some of the open bloom and damaged new growth.

**GRAPEFRUIT** production, including California's Desert grapefruit but excluding California's "Other Areas" crop, is 54.2 million boxes, unchanged from the November 1 forecast but 17 percent less than last season. This decline is due mostly to the freezing weather in Florida during late February which killed some of the open bloom.

**BURLEY TOBACCO** production is forecast at 543 million pounds, 14 percent above 1988 but fractionally below the November 1 forecast. Area to be harvested is up 13 percent from a year earlier and the average yield per acre is 18 pounds more than in 1988.

**DRY BEAN** production is estimated at 24.1 million cwt., up 25 percent from last year but 7 percent short of 1987. Acreage for harvest gained 24 percent from last year and average yield, at 1,436 pounds per acre was up 1 percent.

UNITED STATES CROP SUMMARY - AREA PLANTED AND HARVESTED  
(DOMESTIC UNITS)

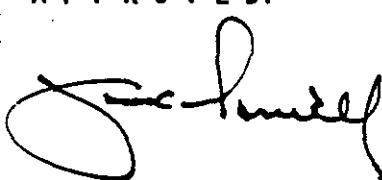
CROP	AREA PLANTED		AREA HARVESTED	
	1988	1989	1988	INDICATED 1989
	1,000 ACRES			
ALL COTTON	12,509.8	10,545.5	11,943.2	9,532.6
UPLAND	12,320.2	10,179.5	11,754.1	9,167.1
AMER-PIMA	189.6	366.0	189.1	365.5
DRY EDIBLE BEANS 1/	1,485.4	1,847.1	1,353.0	1,679.9
BURLEY TOBACCO			226.3	255.3

1/ 1988 REVISED.

UNITED STATES CROP SUMMARY - YIELD PER ACRE AND PRODUCTION  
(DOMESTIC UNITS)

CROP AND UNIT	YIELD PER ACRE		PRODUCTION		
	1988	INDICATED 1989	1988	INDICATED NOV 1, 1989 : DEC 1, 1989	
	1,000				
ALL COTTON BALE 1/	619	608	15,411.5	12,102.4	12,083.4
UPLAND " 1/	616	598	15,077.3	11,434.4	11,429.4
AMER-PIMA " 1/	848	859	334.2	668.0	654.0
COTTONSEED TON			6,062	4,716	4,706
DRY EDIBLE BEANS 2/					
BURLEY TOBACCO CWT 1/	1,423	1,436	19,253	23,991	24,131
PECANS LB	2,109	2,127	477,196	544,192	543,142
			308,000	4/240,400	203,500
CITRUS FRUITS 3/			1988-89	1989-90	1989-90
ORANGES BOX			207,150	4/194,350	194,350

1/ YIELD IN POUNDS. 2/ 1988 REVISED. 3/ SEASON BEGINS WITH THE BLOOM OF THE FIRST YEAR SHOWN AND ENDS WITH THE COMPLETION OF HARVEST THE FOLLOWING YEAR. 4/ OCTOBER 1, 1989.

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 \* The CROP PRODUCTION report contains State and National estimates with \*  
 \* related information on selected agricultural commodities. These data \*  
 \* were prepared and adopted by the Agricultural Statistics Board which \*  
 \* consists of commodity statisticians from the field offices and Washington \*  
 \* headquarters. \*  
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UNITED STATES CROP SUMMARY - AREA PLANTED AND HARVESTED  
(METRIC UNITS)

CROP	AREA PLANTED		AREA HARVESTED	
	1988	1989	1988	INDICATED 1989
	HECTARES			
ALL COTTON	5,062,590	4,267,660	4,833,300	3,857,740
UPLAND	4,985,860	4,119,540	4,756,770	3,709,830
AMER-PIMA	76,730	148,120	76,530	147,910
DRY EDIBLE BEANS 1/	601,130	747,500	547,550	679,840
BURLEY TOBACCO			91,580	103,320

1/ 1988 REVISED.

UNITED STATES CROP SUMMARY - YIELD PER HECTARE AND PRODUCTION  
(METRIC UNITS)

CROP	YIELD PER HECTARE		PRODUCTION		
	1988	INDICATED 1989	1988	NOV 1, 1989	DEC 1, 1989
	METRIC TONS				
ALL COTTON	.69	.68	3,355,460	2,634,990	2,630,850
UPLAND	.69	.67	3,282,700	2,489,550	2,488,460
AMER-PIMA	.95	.96	72,760	145,440	142,390
COTTONSEED			5,499,350	4,278,280	4,269,210
DRY EDIBLE BEANS 1/	1.59	1.61	873,300	1,088,210	1,094,560
BURLEY TOBACCO	2.36	2.38	216,450	246,840	246,370
PECANS			139,710	3/109,040	92,310
CITRUS FRUITS 2/			1987-88	1988-89	1988-89
ORANGES			8,054,000	3/7,129,600	7,506,000

1/ 1988 REVISED. 2/ SEASON BEGINS WITH THE BLOOM OF THE FIRST YEAR SHOWN AND ENDS WITH THE COMPLETION OF HARVEST THE FOLLOWING YEAR. 3/ OCTOBER 1, 1989.

COTTON

STATE	AREA HARVESTED		YIELD		PRODUCTION 1/		
	1988	IND 1989	1988	IND 1989	1987	1988	IND 1989
	1,000 ACRES		POUNDS		1,000 BALES		
UPLAND							
ALA	375.0	340.0	486	551	397.0	380.0	390.0
ARIZ	349.0	239.0	1,190	1,305	849.0	865.0	650.0
ARK	675.0	590.0	742	700	901.0	1,044.0	860.0
CALIF	1,335.0	1,040.0	1,015	1,200	2,989.0	2,824.0	2,600.0
FLA 3/	29.0	29.0	566	574	39.0	34.2	34.7
GA	315.0	275.0	564	646	338.0	370.0	370.0
KANS 3/	.9	1.2	373	400	.9	.7	1.0
LA	645.0	620.0	705	674	977.0	948.0	870.0
MISS	1,190.0	1,050.0	736	709	1,745.0	1,825.0	1,550.0
MO	237.0	209.0	620	609	330.0	306.0	265.0
N MEX	69.0	66.0	710	618	89.0	102.0	85.0
N C	124.0	110.0	515	589	98.0	133.0	135.0
OKLA	435.0	330.0	334	276	346.0	303.0	190.0
S C	142.0	115.0	473	647	106.0	140.0	155.0
TENN	530.0	450.0	529	501	634.0	584.0	470.0
TEX	5,300.0	3,700.0	472	363	4,635.0	5,215.0	2,800.0
VA 3/	3.2	2.9	510	612	1.4	3.4	3.7
U S	11,754.1	9,167.1	616	598	14,475.3	15,077.3	11,429.4
AMER-PIMA							
ARIZ	128.0	245.0	904	891	213.0	241.0	455.0
CALIF	1.8	19.0	853	960	2.2	3.2	38.0
N MEX	17.8	27.0	634	640	18.6	23.5	36.0
TEX	41.5	74.5	769	805	50.8	66.5	125.0
U S	189.1	365.5	848	859	284.6	334.2	654.0
ALL							
ALA	375.0	340.0	486	551	397.0	380.0	390.0
ARIZ	477.0	484.0	1,113	1,096	1,062.0	1,106.0	1,105.0
ARK	675.0	590.0	742	700	901.0	1,044.0	860.0
CALIF	1,336.8	1,059.0	1,015	1,196	2,991.2	2,827.2	2,638.0
FLA 3/	29.0	29.0	566	574	39.0	34.2	34.7
GA	315.0	275.0	564	646	338.0	370.0	370.0
KANS 3/	.9	1.2	373	400	.9	.7	1.0
LA	645.0	620.0	705	674	977.0	948.0	870.0
MISS	1,190.0	1,050.0	736	709	1,745.0	1,825.0	1,550.0
MO	237.0	209.0	620	609	330.0	306.0	265.0
N MEX	86.8	93.0	694	625	107.6	125.5	121.0
N C	124.0	110.0	515	589	98.0	133.0	135.0
OKLA	435.0	330.0	334	276	346.0	303.0	190.0
S C	142.0	115.0	473	647	106.0	140.0	155.0
TENN	530.0	450.0	529	501	634.0	584.0	470.0
TEX	5,341.5	3,774.5	475	372	4,685.8	5,281.5	2,925.0
VA 3/	3.2	2.9	510	612	1.4	3.4	3.7
U S	11,943.2	9,532.6	619	608	14,759.9	15,411.5	12,083.4

1/ PRODUCTION GINNED AND TO BE GINNED. 2/ 480-LB. NET WEIGHT BALES.  
 3/ ESTIMATES FOR CURRENT YEAR CARRIED FORWARD FROM EARLIER FORECAST.

COTTONSEED

STATE	PRODUCTION		
	1987	1988	1989
	1,000 TONS		
U S	5,769	6,062	4,706

BURLEY TOBACCO

STATE AND TYPE	AREA HARVESTED		YIELD		PRODUCTION		
	1988	IND 1989	1988	IND 1989	1987	1988	IND 1989
	ACRES		POUNDS		1,000 POUNDS		
TYPE 31							
IND	5,500	6,100	1,990	2,170	11,070	10,945	13,237
KY	150,000	172,000	2,235	2,250	287,000	335,250	387,000
MO 1/	2,100	2,400	2,100	2,200	3,519	4,410	5,280
N C	7,900	8,500	1,835	1,800	14,102	14,497	15,300
OHIO	7,800	9,000	1,855	1,900	11,972	14,469	17,100
TENN	42,000	45,000	1,850	1,800	73,315	77,700	81,000
VA	9,300	10,500	1,850	2,050	15,790	17,205	21,525
W VA 1/	1,700	1,800	1,600	1,500	2,592	2,720	2,700
U S	226,300	255,300	2,109	2,127	419,360	477,196	543,142

1/ ESTIMATES FOR CURRENT YEAR CARRIED FORWARD FROM EARLIER FORECAST.

PAPAYAS - HAWAII

MONTH	AREA				FRESH PRODUCTION		
	TOTAL IN CROP		HARVESTED		1988	1989	FORECAST 1989-90
	1988	1989	1988	1989			
	ACRES				1,000 POUNDS		
OCT	4,595	4,035	2,375	2,660	5,835	5,860	
NOV	4,665	4,025	2,420	2,750	5,665	6,540	
DEC	4,720		2,410		5,890		3,400
JAN		4,530		2,415		4,395	3,600
FEB		4,425		2,525		4,350	2,800
MAR		4,205		2,445		5,165	4,300
CUMULATIVE FRESH PRODUCTION JAN-NOV					51,120	59,445	

AREA PLANTED, DRY EDIBLE BEANS

STATE	1988 1/	1989	STATE	1988 1/	1989
	1,000 ACRES			1,000 ACRES	
CALIF	151.0	176.0	NEBR	200.0	220.0
COLO	160.0	195.0	N MEX	14.5	16.5
IDAHO	120.0	170.0	N Y	27.0	32.0
KANS	21.0	24.0	N DAK	400.0	500.0
MICH	245.0	330.0	UTAH	4.5	5.6
MINN	65.0	82.0	WASH	37.0	44.0
MONT	4.4	6.0	WYO	36.0	46.0
			U S	1,485.4	1,847.1

1/ REVISED.

AREA PLANTED, DRY EDIBLE LIMA BEANS

CROP AND STATE	1988	1989
	1,000 ACRES	
LARGE LIMA - CALIF	29.0	33.0
BABY LIMA - CALIF	30.0	34.0

1/ REVISED

DRY EDIBLE BEANS 1/

STATE	AREA HARVESTED		YIELD		PRODUCTION		
	1988 2/	IND 1989	1988 2/	IND 1989	1987 2/	1988 2/	IND 1989
	1,000 ACRES		POUNDS		1,000 CWT		
LARGE LIMA							
CALIF	28.0	32.0	2,050	1,910	435	574	611
BABY LIMA							
CALIF	29.0	33.0	2,320	2,120	485	673	700
OTHER							
CALIF	90.0	107.0	1,820	1,798	2,218	1,638	1,924
ALL							
CALIF	147.0	172.0	1,963	1,881	3,138	2,885	3,235
COLO	155.0	185.0	1,650	1,680	2,682	2,558	3,108
IDAHO	119.0	168.0	1,890	2,050	2,812	2,249	3,444
KANS	20.0	21.0	1,550	1,550	363	310	326
MICH	170.0	300.0	1,260	1,500	5,135	2,142	4,500
MINN	60.0	70.0	800	1,300	1,184	480	910
MONT	4.0	5.9	1,900	2,200	125	76	130
NEBR	193.0	208.0	1,950	1,680	3,507	3,764	3,494
N MEX	14.5	16.0	2,200	2,000	251	319	320
N Y	25.0	31.0	1,300	1,450	420	325	450
N DAK	370.0	410.0	730	600	5,026	2,701	2,460
UTAH	4.5	5.0	580	300	47	26	15
WASH	36.0	43.0	2,060	2,160	746	742	929
WYO	35.0	45.0	1,930	1,800	595	676	810
U S	1,353.0	1,679.9	1,423	1,436	26,031	19,253	24,131

1/ EXCLUDES BEANS GROWN FOR GARDEN SEED. 2/ REVISED.

DRY EDIBLE BEANS, PRODUCTION BY COMMERCIAL CLASSES  
THOUSAND HUNDREDWEIGHT, 1987-89 1/

STATE	LARGE LIMA			BABY LIMA			BLACKEYE			GARBANZO		
	1987:	1988:	1989:	1987:	1988:	1989:	1987:	1988:	1989:	1987:	1988:	1989:
CALIF	435	574	611	485	673	700	1,110	843	792	35	11	
IDAHO										18		
WASH										39	37	35
U S	435	574	611	485	673	700	1,110	843	792	92	48	35
STATE	NAVY			GREAT NORTHERN			SMALL WHITE			CRANBERRY		
	1987:	1988:	1989:	1987:	1988:	1989:	1987:	1988:	1989:	1987:	1988:	1989:
CALIF							48	27				
IDAHO				428	315	241	186	157	103			
KANS	43	6	60	36	27	7						
MICH	4,125	1,736	3,570				129	60	120	205	110	154
MINN	650	220	500	40								
NEBR	54	103	58	1,907	2,373	1,749	30	12				
N MEX	65	126	85									
N DAK	2,262	1,188	714									
WASH					26	34	208	235	145			
WYO				65	116	110						
U S	7,199	3,379	4,987	2,476	2,857	2,141	601	491	368	205	110	154
STATE	SMALL RED			PINK			RED KIDNEY			BLACK TURTLE SOUP		
	1987:	1988:	1989:	1987:	1988:	1989:	1987:	1988:	1989:	1987:	1988:	1989:
CALIF				94	90	230	813	519	652			
IDAHO	231	319	379	640	472	861	37	18	17			
MICH							370	182	196	130	16	390
MINN							140	120	237			
MONT				36	13	30						
NEBR							110	70	177			
N MEX				32	19	15						
N Y							298	211	318	91	84	96
WASH	163	243	327	27	18	42						
U S	394	562	706	829	612	1,178	1,768	1,120	1,597	221	100	486
STATE	PINTO			OTHER			TOTAL					
	1987:	1988:	1989:	1987:	1988:	1989:	1987:	1988:	1989:			
CALIF				118	148	250	3,138	2,885	3,235			
COLO	2,480	2,288	2,890	202	270	218	2,682	2,558	3,108			
IDAHO	1,172	923	1,722	100	45	121	2,812	2,249	3,444			
KANS	274	247	256	10	30	3	363	310	326			
MICH	126	14	35	50	24	35	5,135	2,142	4,500			
MINN	345	120	163	9	20	10	1,184	480	910			
MONT	89	63	100				125	76	130			
NEBR	1,400	1,200	1,496	6	6	14	3,507	3,764	3,494			
N MEX	154	167	212		7	8	251	319	320			
N Y				31	30	36	420	325	450			
N DAK	2,694	1,432	1,574	70	81	172	5,026	2,701	2,460			
UTAH	47	26	15				47	26	15			
WASH	249	159	299	60	24	47	746	742	929			
WYO	530	560	700				595	676	810			
U S	9,560	7,199	9,462	656	685	914	26,031	19,253	24,131			

1/ 1987 AND 1988 REVISED; 1989 PRELIMINARY.

PECANS

CROP AND STATE	PRODUCTION		
	UTILIZED		IND
	1987	1988	1989
	1,000 POUNDS		
PECANS IMPROVED	1/:		
ALA	:	13,750	6,000
ARK	:	800	1,900
CALIF	2/:		2,000
FLA	:	3,100	3,400
GA	:	100,000	95,000
LA	:	2,500	4,500
MISS	:	8,000	6,500
N MEX	:	25,000	26,000
N C	3/:	1,200	3,500
OKLA	:	1,000	2,500
S C	:	2,300	4,000
TEX	:	22,000	30,000
U S	4/:	179,650	185,300
PECANS NATIVE & SEEDLING	:		
ALA	:	11,250	4,000
ARK	:	500	1,100
FLA	:	2,400	2,600
GA	:	15,000	15,000
LA	:	16,500	17,500
MISS	:	4,000	3,500
N C	3/:	800	2,000
OKLA	:	11,000	44,500
S C	:	1,100	2,500
TEX	:	20,000	30,000
U S	:	82,550	122,700
ALL PECANS	:		
ALA	:	25,000	10,000
ARK	:	1,300	3,000
CALIF	2/:		2,000
FLA	:	5,500	6,000
GA	:	115,000	110,000
LA	:	19,000	22,000
MISS	:	12,000	10,000
N MEX	:	25,000	26,000
N C	3/:	2,000	5,500
OKLA	:	12,000	47,000
S C	:	3,400	6,500
TEX	:	42,000	60,000
U S	4/:	262,200	308,000

1/ BUDDED, GRAFTED, OR TOPWORKED VARIETIES. 2/ ESTIMATES BEGAN WITH 1988 CROP.  
 3/ ESTIMATES FOR CURRENT YEAR CARRIED FORWARD FROM EARLIER FORECAST.  
 4/ CALIF INCLUDED IN 1988 AND 1989.



CITRUS FRUIT 1/

CROP AND STATE	PRODUCTION BOXES			PRODUCTION TON EQUIVALENT		
	UTILIZED	INDICATED		UTILIZED	INDICATED	
	1987-88	1988-89	1989-90	1987-88	1988-89	1989-90
	1,000 UNITS 2/			1,000 UNITS		
ORANGES, EARLY MID & NAVEL 3/:						
ARIZ 4/:	610	550	500	23	21	19
CALIF	31,500	34,000	36,000	1,182	1,275	1,350
FLA	78,500	85,300	72,000	3,532	3,839	3,240
TEX	940	1,200	1,300	40	51	55
U S	111,550	121,050	109,800	4,777	5,186	4,664
ORANGES, VALENCIA 4/:						
ARIZ	1,210	1,150	900	45	43	34
CALIF	27,500	23,000	25,000	1,031	862	938
FLA	59,500	61,300	58,000	2,677	2,759	2,610
TEX	490	650	650	21	28	28
U S	88,700	86,100	84,550	3,774	3,692	3,610
ALL ORANGES 4/:						
ARIZ	1,820	1,700	1,400	68	64	53
CALIF	59,000	57,000	61,000	2,213	2,137	2,288
FLA	138,000	146,600	130,000	6,209	6,598	5,850
TEX	1,430	1,850	1,950	61	79	83
U S	200,250	207,150	194,350	8,551	8,878	8,274
TEMPLES						
FLA	3,550	3,750	3,000	160	169	135
GRAPEFRUIT, WHITE SEEDLESS						
FLA	29,200	27,700	22,500	1,241	1,177	956
GRAPEFRUIT, COLORED SEEDLESS						
FLA	21,900	23,700	18,500	930	1,007	786
OTHER GRAPEFRUIT						
FLA	2,750	3,350	3,000	117	142	128
ALL GRAPEFRUIT 4/:						
ARIZ	1,950	1,950	2,100	63	63	67
CALIF 4/5/:						
DESERT	4,200	3,500	3,700	134	112	118
OTHER AREAS	4,900	5,000		164	168	
TOTAL	9,100	8,500		298	280	
FLA	53,850	54,750	44,000	2,288	2,326	1,870
TEX	3,800	4,800	4,400	152	192	176
U S	68,700	70,000		2,801	2,861	
TANGERINES 6/:						
ARIZ 4/:	600	650	700	23	25	26
CALIF 4/:	2,090	2,040	1,750	78	76	66
FLA	2,450	2,900	2,300	117	138	109
U S	5,140	5,590	4,750	218	239	201
LEMONS 4/:						
ARIZ	3,650	3,800	3,200	139	144	122
CALIF	17,000	16,200	16,500	646	615	627
U S	20,650	20,000	19,700	785	759	749
TANGELOS						
FLA	4,200	3,800	3,500	189	171	158

1/ THE CROP YEAR BEGINS WITH THE BLOOM OF THE FIRST YEAR SHOWN AND ENDS WITH YEAR HARVEST IS COMPLETED. 2/ NET LBS. PER BOX: ORANGES-CALIF & ARIZ-75, FLA-90, TEX-85; GRAPEFRUIT-CALIF DESERT & ARIZ-64, CALIF OTHER-67, FLA-85, TEX-80; LEMONS-76; TANGELOS & TEMPLES-90; TANGERINES-CALIF & ARIZ-75, FLA-95. 3/ NAVEL AND MISCELLANEOUS VARIETIES IN CALIFORNIA AND ARIZONA. EARLY AND MID-SEASON VARIETIES IN FLORIDA AND TEXAS, INCLUDING SMALL QUANTITIES OF TANGERINES IN TEXAS. 4/ ESTIMATES FOR CURRENT YEAR CARRIED FORWARD FROM EARLIER FORECAST. 5/ THE FIRST FORECAST FOR CALIF GRAPEFRUIT "OTHER AREAS" WILL BE AS OF APR 1. 6/ FLORIDA "ALL TANGERINES" INCLUDES SUNBURST TANGERINES BEGINNING WITH THE 1989-90 SEASON.

## MONTHLY MARKETINGS - UNITED STATES

**UNITED STATES:** U.S. monthly marketing percentages for wheat, oats, barley, corn, sorghum, soybeans, flaxseed, sunflower, cotton, and peanuts are based on the 12 months which are used for the U.S. marketing year. These months are consistent with the data used to weight U.S. marketing year average prices. Marketings are based on monthly probability surveys which obtain quantities of the crop purchased from producers and price information. Purchases are not identified by crop production year, but represent the commodity sold during the 12 months of the marketing year. Monthly marketings for hay and dry edible beans are based on estimates derived from State marketing years and thus may extend over a period exceeding 12 months.

### CROP MARKETING SEASONS OF SPECIFIED FIELD CROPS

**BARLEY:** *May 1 to April 30 for Arizona; June 1 to May 31 for California; July 1 to June 30 for all other monthly marketing estimating States.*

**CORN FOR GRAIN:** August 1 to July 31 for Georgia and Texas; September 1 to August 31 for Illinois, Indiana, Iowa, Kansas, Kentucky, Missouri, North Carolina and Ohio; October 1 to September 30 for all other monthly marketing estimating States.

**DRY EDIBLE BEANS:** September 1 to August 31 for all estimating States.

**FLAXSEED:** July 1 to June 30 for all estimating States.

**HAY:** April 1 to March 31 for Arizona; May 1 to April 30 for Arkansas, California, Georgia, Kansas, Kentucky, Missouri, Nevada, New Mexico, Oklahoma, Texas, and Utah; June 1 to May 31 for all other monthly marketing estimating States.

**OATS:** May 1 to April 30 for Texas; June 1 to May 31 for California, July 1 to June 30 for all other monthly marketing estimating States.

**SORGHUM FOR GRAIN:** June 1 to May 31 for Texas; August 1 to July 31 for Arkansas and Oklahoma; September 1 to August 31 for Kansas, Missouri, New Mexico; South Dakota; October 1 to September 30 for Colorado and Nebraska.

**SOYBEANS:** September 1 to August 31 for all estimating States.

**SUNFLOWER:** September 1 to August 31 for Minnesota, North Dakota and South Dakota.

**WHEAT:** May 1 to April 30 for Arizona, California, Oklahoma and Texas; June 1 to May 31 for Arkansas, Illinois, Indiana, Kansas, and Missouri; July 1 to June 30 for the all other monthly marketing estimating States.

FARM MARKETING OF FIELD CROPS, UNITED STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS 1/

MONTH	CROP MARKETING YEAR					
	1987-88	1988-89	1987-88	1988-89	1987-88	1988-89
	PERCENT					
	HAY		FLAXSEED		PEANUTS	
APR	.6	.6				
MAY	5.4	5.8				
JUN	10.3	11.9				
JUL	10.9	12.5	8.3	12.9		
AUG	9.1	10.4	6.8	13.5	.1	.2
SEP	7.9	9.4	26.5	24.0	18.4	16.6
OCT	8.8	8.8	22.9	22.2	48.1	60.0
NOV	7.5	6.5	4.1	7.1	25.1	18.1
DEC	7.6	6.9	4.2	3.7	7.0	3.3
JAN	7.9	6.6	4.8	3.7	1.3	1.8
FEB	7.6	6.0	5.0	2.5		
MAR	8.2	7.0	6.2	1.9		
APR	5.8	5.5	5.1	3.6		
MAY	2.4	2.1	4.5	2.1		
JUN			1.6	2.8		
YEAR	100.0	100.0	100.0	100.0	100.0	100.0
	OATS		WHEAT		BARLEY	
JUN	7.2	10.4	15.0	22.3	9.5	12.4
JUL	22.7	32.8	15.9	13.3	8.9	13.4
AUG	14.1	12.8	12.6	10.9	14.4	13.1
SEP	9.2	9.5	7.9	8.7	8.9	7.8
OCT	4.8	5.0	6.5	5.8	7.5	6.9
NOV	6.7	3.3	4.9	5.4	7.2	8.6
DEC	6.0	3.7	8.0	7.0	8.4	6.7
JAN	6.6	4.7	8.4	8.5	7.7	6.7
FEB	6.1	3.6	4.9	3.8	6.0	5.3
MAR	6.8	5.7	4.4	5.4	8.7	7.3
APR	3.9	4.9	4.4	3.8	5.3	6.7
MAY	5.9	3.6	7.1	5.1	7.5	5.1
YEAR	100.0	100.0	100.0	100.0	100.0	100.0

1/ REVISED FOR 1987-88.

FARM MARKETING OF FIELD CROPS, UNITED STATES, 1987-88 AND 1988-89  
 PERCENT OF SALES, BY MONTHS 1/ (CONTINUED)

MONTH	CROP MARKETING YEAR							
	1987-88		1988-89		1987-88		1988-89	
	PERCENT							
	SORGHUM		CORN		COTTON			
AUG					2.6	3.5		
SEP	8.8	8.1	8.5	10.9	12.5	6.3		
OCT	11.9	14.8	12.7	14.1	21.5	12.7		
NOV	14.4	10.0	7.5	7.3	23.0	16.3		
DEC	13.3	10.3	4.9	7.8	13.3	13.2		
JAN	15.2	9.8	11.1	11.8	10.2	11.7		
FEB	4.5	6.0	8.0	6.1	5.2	10.8		
MAR	5.1	7.1	8.5	8.1	3.0	8.0		
APR	2.6	4.4	6.0	6.3	2.3	5.0		
MAY	4.0	4.2	6.9	7.1	3.2	5.1		
JUN	4.9	3.4	10.2	6.7	2.3	3.5		
JUL	7.9	10.5	8.5	6.2	.9	3.9		
AUG	7.4	11.4	7.2	7.6				
YEAR	100.0	100.0	100.0	100.0	100.0	100.0		
	SOYBEANS		DRY EDIBLE BEANS		SUNFLOWER			
SEP	12.4	8.4	10.5	22.5	4.3	4.2		
OCT	23.3	23.4	17.0	17.9	21.4	37.2		
NOV	10.0	12.0	9.6	10.2	14.0	9.0		
DEC	5.9	8.8	8.1	7.0	9.5	8.1		
JAN	13.0	13.5	10.4	6.2	7.2	6.2		
FEB	6.5	4.0	6.8	6.4	7.2	6.9		
MAR	6.8	6.9	7.9	7.5	9.9	8.6		
APR	5.0	4.6	6.9	5.1	4.4	4.7		
MAY	5.4	4.2	7.4	5.6	5.5	2.5		
JUN	4.9	5.6	4.9	4.5	5.6	6.4		
JUL	3.8	4.1	5.8	3.7	4.2	5.1		
AUG	3.0	4.5	4.7	3.4	6.8	1.1		
YEAR	100.0	100.0	100.0	100.0	100.0	100.0		

1/ REVISED FOR 1987-88.

FARM MARKETING OF HAY, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
		PERCENT													
ARIZ	1987-88	14	16	8	9	6	6	6	4	6	5	5	15		
	1988-89	15	15	10	13	10	7	6	7	3	2	3	9		
ARK	1987-88		4	13	9	9	10	10	10	5	12	11	5	2	
	1988-89		5	15	14	11	14	9	6	6	7	7	5	1	
CALIF	1987-88		15	13	13	11	11	11	4	3	3	4	5	7	
	1988-89		11	12	10	12	11	9	4	5	6	3	7	10	
COLO	1987-88			4	15	10	10	11	10	6	8	7	8	6	5
	1988-89			8	9	15	10	11	9	9	8	2	6	8	5
GA	1987-88		4	10	4	9	11	12	7	9	13	13	6	2	
	1988-89		9	12	7	7	17	10	6	7	8	8	5	4	
IDAHO	1987-88			10	8	10	8	10	6	7	9	5	9	10	8
	1988-89			14	11	12	10	8	6	6	7	5	7	7	7
ILL	1987-88			15	10	8	6	3	4	8	13	11	11	7	4
	1988-89			12	9	10	6	4	5	7	13	11	10	7	6
IND	1987-88			15	12	7	6	5	6	8	11	12	10	4	4
	1988-89			17	14	12	10	4	5	6	9	7	6	4	6
IOWA	1987-88			21	9	9	5	4	5	6	12	9	12	5	3
	1988-89			22	15	15	6	4	5	6	7	8	7	3	2
KANS	1987-88		4	7	10	8	7	8	9	11	13	10	8	5	
	1988-89		4	9	14	11	7	10	8	11	10	6	7	3	
KY	1987-88		3	13	11	6	7	6	7	9	10	13	11	4	
	1988-89		8	14	9	11	7	7	8	7	9	9	8	3	
MICH	1987-88			15	12	10	5	6	10	9	8	10	7	6	2
	1988-89			17	16	13	9	7	7	7	7	6	5	4	2
MINN	1987-88			7	4	5	5	4	8	9	8	14	17	11	8
	1988-89			13	13	6	5	4	6	7	8	10	11	12	5
MO	1987-88		4	12	11	6	5	6	8	9	12	15	9	3	
	1988-89		4	14	13	8	7	6	7	8	10	12	8	3	
MONT	1987-88			2	7	9	5	9	11	13	9	10	11	7	7
	1988-89			8	13	11	8	10	12	12	8	6	6	4	2

FARM MARKETING OF HAY, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS (CONTINUED)

STATE AND MARKETING YEAR		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
		PERCENT													
NEBR	1987-88			6	7	8	6	8	9	14	14	9	10	6	3
	1988-89			9	8	10	7	7	7	14	11	8	9	7	3
NEV	1987-88	2	4	12	15	10	11	9	9	8	8	9	3		
	1988-89	2	4	10	12	12	11	12	10	8	7	7	5		
N MEX	1987-88	10	15	14	13	11	8	6	5	5	4	4	5		
	1988-89	11	16	14	15	13	9	5	4	4	3	3	3		
N Y	1987-88		7	13	9	5	5	8	9	10	11	12	8	3	
	1988-89		23	15	6	5	4	5	5	9	8	9	6	5	
N DAK	1987-88		4	5	4	12	16	12	4	8	5	8	10	12	
	1988-89		7	10	7	13	15	8	5	5	4	7	9	10	
OHIO	1987-88		15	11	8	7	6	7	8	9	9	9	6	5	
	1988-89		17	13	11	9	6	7	6	7	6	6	6	6	
OKLA	1987-88	9	18	18	8	5	8	9	8	8	4	4	1		
	1988-89	10	19	21	10	7	8	7	6	5	3	3	1		
OREG	1987-88		4	9	8	6	16	15	13	7	13	4	3	2	
	1988-89		15	21	14	13	11	5	6	3	5	5	2		
PA	1987-88		10	11	8	5	5	8	9	11	11	12	6	4	
	1988-89		12	12	6	6	6	9	8	9	10	8	8	6	
S DAK	1987-88		7	5	10	4	14	20	10	11	3	8	2	6	
	1988-89		16	7	5	7	9	7	8	6	5	14	9	7	
TEX	1987-88	7	13	11	7	6	7	6	10	12	10	8	3		
	1988-89	9	11	14	10	10	10	6	10	6	7	5	2		
UTAH	1987-88	1	10	13	11	12	5	7	11	8	7	8	7		
	1988-89	1	12	13	13	12	7	8	11	7	5	5	6		
WASH	1987-88		10	12	11	11	11	8	8	6	8	6	5	4	
	1988-89		11	11	13	15	9	8	7	5	6	6	4	5	
WIS	1987-88		11	8	2	1	2	6	6	5	13	18	17	11	
	1988-89		19	20	16	11	2	1	6	6	6	3	7	3	
WYO	1987-88		1	8	9	8	10	14	12	10	8	10	7	3	
	1988-89		4	9	13	10	8	17	14	9	4	4	5	3	

FARM MARKETING OF BARLEY, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		PERCENT													
ARIZ	1987-88	78	4	7	1	1	3	1	1	1	1	1	1	1	
	1988-89	56	32	1	1	1	1	1	1	1	1	1	1	3	
CALIF	1987-88		31	14	2	7	3	5	3	3	2	4	10	16	
	1988-89		22	3	13	21	9	3	2	6	4	3	2	12	
COLO	1987-88			27	12	4	9	18	13	3	5	2	1	1	5
	1988-89			13	24	4	8	22	14	5	1	2	4	2	1
IDAHO	1987-88			5	29	15	10	7	7	13	4	2	3	2	3
	1988-89			10	19	8	6	15	8	12	7	6	2	5	2
MINN	1987-88			12	9	3	4	8	8	3	5	9	6	13	20
	1988-89			11	8	5	7	8	7	7	7	10	9	7	14
MONT	1987-88			4	9	11	10	6	11	14	6	10	6	6	7
	1988-89			14	14	9	7	8	7	11	5	7	8	6	4
N DAK	1987-88			8	8	5	5	7	9	7	8	12	6	7	18
	1988-89			19	11	7	8	9	7	5	5	8	7	5	9
OREG	1987-88			11	13	12	10	12	9	10	12	3	2	3	3
	1988-89			16	20	9	9	11	8	9	3	7	4	2	2
S DAK	1987-88			15	14	10	6	5	3	3	6	8	6	8	16
	1988-89			18	8	6	4	2	3	7	6	12	16	7	11
UTAH	1987-88			16	27	9	5	5	8	7	6	5	4	4	4
	1988-89			7	12	5	5	7	22	3	4	6	21	5	3
WASH	1987-88			3	23	17	15	7	7	7	3	8	4	3	3
	1988-89			3	21	12	10	10	9	6	5	9	6	6	3
WYO	1987-88			13	70	8	1	1	1	1	1	1	1	1	1
	1988-89			35	50	1	1	1	1	3	8				

FARM MARKETING OF OATS, BY STATES, 1987-88 AND 1988-89  
 PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		PERCENT													
CALIF	1987-88		11	11	6	8	11	7	8	8	14	4	8	4	
	1988-89		2	2	15	36	14	2	10	2	6	2	8	1	
ILL	1987-88			38	4	7	3	3	2	9	4	12	2	10	6
	1988-89			37	4	10	3	2	2	6	5	11	4	7	9
IND	1987-88			44	11	2	3	1	3	1	10	10	5	5	5
	1988-89			22	15	5	14	4	4	3	8	7	8	6	4
IOWA	1987-88			44	12	8	2	1	2	5	6	6	4	4	6
	1988-89			59	9	6	2	2	1	4	2	4	4	2	5
MICH	1987-88			24	30	12	3	3	3	6	5	4	4	4	2
	1988-89			17	32	18	3	2	2	5	5	4	6	2	4
MINN	1987-88			27	14	6	3	9	4	4	4	7	5	6	11
	1988-89			30	12	8	4	4	4	5	5	7	5	6	10
MONT	1987-88			2	8	11	14	8	12	11	9	7	4	8	6
	1988-89			10	22	8	6	11	5	5	7	11	6	5	4
NEBR	1987-88			33	13	7	2	4	4	9	5	7	6	3	7
	1988-89			38	10	8	2	5	5	8	5	6	6	2	5
N Y	1987-88			9	9	14	7	3	4	20	11	6	10	5	2
	1988-89			5	12	24	9	7	3	12	5	12	3	4	4
N DAK	1987-88			6	16	15	8	13	10	7	5	7	3	5	5
	1988-89			15	20	15	7	7	6	3	4	3	6	7	7
OHIO	1987-88			30	20	13	6	5	4	5	4	5	2	3	3
	1988-89			30	18	9	4	2	5	7	4	5	6	7	3
OREG	1987-88			3	15	9	18	7	10	6	9	7	7	5	4
	1988-89			5	25	17	12	3	5	10	6	8	2	2	5
PA	1987-88			20	8	10	5	5	6	8	16	9	5	5	3
	1988-89			15	15	5	2	4	2	8	5	19	13	8	4
S DAK	1987-88			20	12	8	4	7	9	9	8	6	3	6	8
	1988-89			50	7	4	6	2	4	5	2	7	5	4	4
TEX	1987-88	16	65	5	5	1	1	1	2	1	1	1			
	1988-89	28	39	9	5	4	5	2	3	1	1	2	1		
WIS	1987-88			23	14	5	4	4	5	8	10	11	5	6	5
	1988-89			32	17	8	4	4	3	5	4	5	8	4	6



FARM MARKETING OF ALL WHEAT, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		PERCENT													
ARIZ	1987-88	63	15	9	2	1	3	1	1	2	1	1	1		
	1988-89	50	13	13	16	1	1	1	1	1	1	1	1		
ARK	1987-88		65	18	7	2	1	1	1	1	1	1	1	1	1
	1988-89		79	8	4	1	1	1	1	1	1	1	1	1	1
CALIF	1987-88	20	32	12	6	3	2	4	3	12	4	1	1		
	1988-89	6	56	15	5	3	2	5	1	2	3	1	1		
COLO	1987-88			13	11	7	6	6	14	12	6	9	4	6	6
	1988-89			10	8	9	7	11	13	13	7	8	5	6	3
IDAHO	1987-88			2	25	20	12	5	5	9	6	3	5	5	3
	1988-89			2	14	13	11	7	11	16	6	7	2	5	6
ILL	1987-88		48	17	7	6	1	2	4	7	2	2	2	2	
	1988-89		45	16	15	4	2	1	3	10	1	1	1	1	
IND	1987-88		38	37	7	3	2	4	2	2	2	1	1	1	
	1988-89		38	37	8	4	2	3	2	2	1	1	1	1	
KANS	1987-88		12	24	14	7	7	4	9	9	3	3	4	4	
	1988-89		22	13	11	13	7	6	7	9	4	4	2	2	
MICH	1987-88			44	19	19	3	3	3	3	2	1	1	1	1
	1988-89			41	20	12	5	3	6	6	2	2	1	1	1
MINN	1987-88			16	16	5	5	8	7	5	7	5	7	10	9
	1988-89			10	10	7	5	7	8	7	4	9	9	11	13

(CONTINUED)

FARM MARKETING OF ALL WHEAT, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS (CONTINUED)

STATE AND MARKETING YEAR		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		PERCENT													
MO	1987-88	58	8	7	4	2	5	4	6	2	3	1			
	1988-89	51	16	9	4	2	3	4	6	1	2	1	1		
MONT	1987-88		5	10	9	11	6	8	13	9	8	7	7	7	
	1988-89		8	12	7	7	7	10	13	8	9	6	7	6	
NEBR	1987-88		29	12	4	4	2	10	9	9	4	3	3	11	
	1988-89		28	12	7	6	3	5	11	5	7	9	4	3	
N DAK	1987-88		9	12	9	8	8	9	5	5	7	5	11	12	
	1988-89		10	10	7	6	7	9	8	5	10	9	8	11	
OHIO	1987-88		60	10	4	1	1	2	4	2	1	1	2	12	
	1988-89		47	14	8	5	3	6	8	3	2	1	1	2	
OKLA	1987-88	4	22	12	13	7	8	7	10	7	4	3	3		
	1988-89	5	28	11	9	9	5	5	9	10	2	5	2		
OREG	1987-88		8	12	13	8	4	8	15	3	4	9	8	8	
	1988-89		6	17	12	8	8	9	15	6	7	4	4	4	
S DAK	1987-88		14	14	8	4	4	11	14	6	5	5	8	7	
	1988-89		17	7	7	5	6	7	9	6	11	8	11	6	
TEX	1987-88	6	45	26	9	2	2	1	2	2	3	1	1		
	1988-89	16	39	16	8	4	3	3	3	3	2	2	1		
WASH	1987-88		2	19	17	12	4	6	15	3	2	7	5	8	
	1988-89		3	19	17	11	8	8	9	3	3	7	8	4	

FARM MARKETING OF FLAXSEED, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		PERCENT											
MINN	1987-88:	8	7	16	35	2	5	3	3	6	2	8	5
	1988-89:	15	5	20	30	15	2	5	1	1	4	1	1
N DAK	1987-88:	8	6	27	24	4	4	5	5	7	6	2	2
	1988-89:	13	14	24	21	7	4	4	3	2	3	2	3
S DAK	1987-88:	7	18	33	11	4	4	12	5	4	2		
	1988-89:	11	17	8	20	2	2	9		18	1	8	4

FARM MARKETING OF SORGHUM, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		PERCENT															
ARK	1987-88:			27	24	8	1	10	19	2	1	1	1	5	1		
	1988-89:			17	28	17	3	4	14	13	1	1	1	1			
COLO	1987-88:					7	23	8	27	1	2	1	4	2	21	1	3
	1988-89:					11	19	25	9	8	6	4	6	6	2	2	2
KANS	1987-88:				8	12	16	16	16	5	6	4	6	5	3	3	
	1988-89:				5	14	13	13	12	8	11	5	6	5	3	5	
MO	1987-88:				44	20	7	3	4	4	5	5	1	3	2	2	
	1988-89:				33	23	9	6	10	5	5	1	2	2	2	2	
NEBR	1987-88:					19	14	7	16	6	6	3	5	6	8	5	5
	1988-89:					20	9	12	10	6	6	6	5	5	9	6	6
N MEX	1987-88:				1	4	23	10	18	2	1	1	2	35	1	2	
	1988-89:				7	5	23	22	14	15	5	1	2	3	1	2	
OKLA	1987-88:			3	5	10	24	23	16	4	4	2	2	5	2		
	1988-89:			1	1	13	18	14	18	6	10	6	4	3	6		
S DAK	1987-88:				2	5	13	30	10	3	12	4	4	11	3	3	
	1988-89:				7	30	10	3	14	3	2	1	13	8	6	3	
TEX	1987-88:	2	9	13	4	6	19	18	17	4	4	3	1				
	1988-89:	3	21	20	6	12	9	9	5	3	5	5	2				

FARM MARKETING OF CORN FOR GRAIN, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		PERCENT													
COLO	1987-88			9	16	10	14	10	9	6	6	10	3	4	3
	1988-89			11	9	11	13	5	7	8	7	8	8	8	5
GA	1987-88	18	18	12	2	3	5	6	7	3	6	8	12		
	1988-89	27	12	8	3	8	4	2	4	4	7	10	11		
ILL	1987-88		8	12	4	5	18	8	11	7	8	9	5	5	
	1988-89		9	12	5	9	14	8	10	7	8	7	5	6	
IND	1987-88		7	11	6	4	11	12	10	6	5	11	9	8	
	1988-89		9	20	8	8	10	7	7	7	7	6	5	6	
IOWA	1987-88		10	11	7	4	9	6	8	6	8	12	11	8	
	1988-89		13	13	6	6	11	5	8	7	7	7	7	10	
KANS	1987-88		13	22	10	13	17	8	6	2	2	4	1	2	
	1988-89		9	13	6	11	17	7	8	5	8	6	6	4	
KY	1987-88		13	13	3	5	17	18	8	7	4	5	3	4	
	1988-89		7	17	6	6	21	6	12	5	5	6	5	4	
MICH	1987-88			10	19	7	11	8	6	8	4	8	7	6	6
	1988-89			13	14	12	11	7	7	5	6	8	7	5	5
MINN	1987-88			10	7	3	7	9	7	6	8	11	12	11	9
	1988-89			16	10	8	12	4	6	5	7	10	6	9	7
MO	1987-88		17	15	7	6	12	8	9	5	4	6	4	7	
	1988-89		23	14	6	6	10	7	8	5	6	5	4	6	
NEBR	1987-88			9	9	8	12	8	8	7	9	11	8	5	6
	1988-89			10	6	9	13	8	11	7	10	7	6	8	5
N C	1987-88		33	21	5	3	3	5	4	3	6	5	6	6	
	1988-89		39	19	4	4	7	3	4	4	4	4	3	5	
OHIO	1987-88		11	24	12	5	8	5	6	4	6	8	6	5	
	1988-89		4	17	15	9	11	8	9	7	6	4	6	4	
PA	1987-88			10	9	7	9	5	12	10	10	10	9	3	6
	1988-89			12	26	5	8	7	6	7	5	3	13	4	4
S DAK	1987-88			19	10	6	6	6	7	6	5	8	8	7	12
	1988-89			19	12	9	11	8	6	5	6	6	4	7	7
TEX	1987-88	17	7	16	6	7	10	4	3	3	2	12	13		
	1988-89	16	13	32	8	7	10	2	2	2	2	1	5		
WIS	1987-88			11	14	6	6	7	8	6	9	12	9	6	6
	1988-89			16	12	7	4	4	7	11	5	6	7	10	11

FARM MARKETING OF SOYBEANS, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
		PERCENT											
ALA	1987-88:	3	36	18	6	26	3	2	2	1	1	1	1
	1988-89:	1	23	38	10	12	4	4	2	3	1	1	1
ARK	1987-88:	4	33	22	11	11	4	5	3	2	2	1	2
	1988-89:	1	23	22	16	22	3	4	3	1	2	1	2
GA	1987-88:	2	34	34	9	6	4	3	2	1	2	2	1
	1988-89:	1	14	53	13	7	2	2	3	1	2	1	1
ILL	1987-88:	16	15	5	5	20	8	8	5	7	5	3	3
	1988-89:	9	19	3	6	16	5	9	6	7	8	5	7
IND	1987-88:	28	18	5	3	10	9	5	5	5	5	3	4
	1988-89:	15	29	7	6	9	4	5	5	5	5	5	5
IOWA	1987-88:	8	21	10	6	11	6	9	6	6	6	6	5
	1988-89:	11	18	4	6	14	5	9	7	5	8	6	7
KANS	1987-88:	9	28	18	10	12	6	5	3	5	2	1	1
	1988-89:	7	23	7	9	9	4	9	7	5	8	7	5
KY	1987-88:	9	26	7	4	19	11	8	5	4	2	3	2
	1988-89:	2	14	19	9	24	6	12	4	2	4	2	2
LA	1987-88:	21	44	13	8	7	2	2	1	1	1		
	1988-89:	3	37	34	10	9	2	3	1	1			
MICH	1987-88:	3	24	26	9	13	5	6	5	4	3	1	1
	1988-89:	3	24	21	18	10	4	6	3	4	4	2	1
MINN	1987-88:	11	17	6	5	8	6	8	8	8	11	7	5
	1988-89:	17	21	6	8	12	3	6	5	4	7	6	5

FARM MARKETING OF SOYBEANS, BY STATES, 1987-88 AND 1988-89  
 PERCENT OF SALES, BY MONTHS (CONTINUED)

STATE AND MARKETING YEAR	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
	PERCENT											
MISS 1987-88:	4	25	16	14	23	6	5	3	1	1	1	1
1988-89:	4	15	23	19	22	3	5	3	2	2	1	1
MO 1987-88:	7	32	9	5	15	8	7	5	4	3	3	2
1988-89:	5	25	12	8	15	5	7	4	5	6	3	5
NEBR 1987-88:	7	25	12	5	14	6	6	5	5	3	8	4
1988-89:	6	21	9	10	13	6	9	6	5	7	5	3
N C 1987-88:	1	15	46	16	7	4	3	2	2	2	1	1
1988-89:	1	9	38	23	9	3	5	3	2	2	3	2
N DAK 1987-88:	21	29	16	9	7	5	3	2	4	2	1	1
1988-89:	20	18	5	7	5	2	4	7	8	13	8	3
OHIO 1987-88:	20	28	8	4	8	5	5	4	7	5	3	3
1988-89:	15	32	11	7	10	4	7	4	3	3	1	3
S C 1987-88:	1	7	39	19	10	5	5	4	5	3	1	1
1988-89:	1	7	43	15	11	3	5	2	2	3	3	5
S DAK 1987-88:	14	38	7	4	8	7	6	4	4	4	2	2
1988-89:	17	28	4	4	6	2	9	7	4	8	5	6
TENN 1987-88:	2	52	15	6	10	4	3	2	2	2	1	1
1988-89:	1	28	29	15	15	2	4	1	2	1	1	1
TEX 1987-88:	2	32	26	15	9	3	3	3	5	1	1	1
1988-89:	1	37	20	12	14	2	2	4	2	3	1	2

FARM MARKETING OF DRY EDIBLE BEANS, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
	PERCENT											
CALIF 1987-88:	8	10	12	11	10	7	7	7	8	8	6	6
1988-89:	6	11	15	10	9	7	7	8	9	6	6	6
COLO 1987-88:	9	15	10	7	10	8	10	8	6	6	6	5
1988-89:	30	16	8	8	7	7	5	6	4	4	3	2
IDAHO 1987-88:	15	21	6	5	7	6	10	8	7	4	7	4
1988-89:	13	23	9	7	6	6	13	9	6	4	2	2
MICH 1987-88:	3	29	15	9	7	5	4	7	6	5	7	3
1988-89:	15	26	11	4	7	7	9	3	7	3	6	2
MINN 1987-88:	22	10	5	5	11	5	11	8	12	6	2	3
1988-89:	23	16	10	7	4	3	3	1	5	7	12	9
NEBR 1987-88:	11	16	7	6	12	4	8	3	11	1	10	11
1988-89:	40	15	10	8	4	5	7	2	4	2	1	2
N Y 1987-88:	4	13	10	9	11	8	9	13	9	5	5	4
1988-89:	4	10	15	7	8	10	12	16	9	4	4	1
N DAK 1987-88:	14	12	8	10	15	10	9	7	5	5	2	3
1988-89:	21	20	9	5	4	7	5	3	5	9	5	7
WASH 1987-88:	12	13	6	9	11	17	9	7	3	7	5	1
1988-89:	13	29	10	4	11	9	9	7	3	2	2	1
WYO 1987-88:	21	8	6	5	7	1	10	11	19	5	5	2
1988-89:	47	12	3	5	5	6	8	4	4	3	2	1

FARM MARKETING OF SUNFLOWER, BY STATES, 1987-88 AND 1988-89  
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
	PERCENT											
MINN 1987-88:	10	18	13	8	4	6	20	6	3	5	4	3
1988-89:	17	19	9	7	2	9	10	5	2	10	7	3
N DAK 1987-88:	5	21	11	11	8	8	11	5	5	4	3	8
1988-89:	4	38	9	8	6	7	9	5	2	6	5	1
S DAK 1987-88:	2	31	36	4	5	6	4	1	2	1	8	
1988-89:	5	31	9	5	11	3	10	5	6	6	7	2

## NOVEMBER WEATHER SUMMARY

Dry conditions prevailed from the central and southern Pacific coast to the middle Mississippi Valley. No precipitation fell over most of the hard red winter wheat area. Kansas City, MO recorded the driest November ever with only a trace of rain. In contrast, heavy rain inundated the central Gulf coast as New Orleans, LA, had their wettest November on record with 19.81 inches of which 13 inches fell from one storm early in the month. Near to above normal precipitation covered most of the northern tier of States as heavy snow blanketed the Great Lakes. The 47 inches at Sault Ste Marie, MI was their heaviest November snowfall. Unseasonable mild conditions covered the West and South during the month while frequent blasts of arctic air kept the upper Mississippi Valley to New England abnormally cold. At mid month, a strong cold front produced severe weather in the South and East followed by a Thanksgiving Day storm which brought early season snow to the middle Atlantic Coast States. Tropical Storm Karen drenched western Cuba with torrential rain at month's end.

### ROW CROP HARVEST

Harvest was nearly complete in the central and northern Great Plains early in November. Harvest progressed rapidly during the month in the Delta and Southeast. Rain slowed harvest in the eastern Corn Belt periodically during the month. By the end of November, harvest progress was ahead of normal in most areas.

Corn harvest was 88% complete, 10 points ahead of normal by November 5. Harvest was ahead of normal except in the eastern Corn Belt. By mid-month, harvest was complete except in the eastern Corn Belt. Rain and snow slowed harvest in Indiana, Ohio, and Pennsylvania. Harvest was 88% complete, 2 points ahead of normal in Ohio by November 26. Harvest continued in Indiana and Pennsylvania.

By November 5, soybean harvest was 87% complete, 11 points ahead of normal. Harvest was complete in Minnesota and South Dakota and nearly complete in Illinois, Iowa, Michigan, and Nebraska. By mid-month, harvest was nearly complete except in the Southeast. Rain slowed harvest in the eastern Corn Belt and the Delta during November. By November 26, harvest was 97% complete, 5 points ahead of normal.

Cotton harvest made rapid progress in November. On November 5, harvest was 55% complete, 5 points ahead of normal. By November 26, harvest was 86% complete, 17 points ahead of normal. Harvest lagged behind normal in the Southeast early in the month but by the end of November, harvest was near or ahead of normal in all the major producing States. In Texas, freezing temperatures damaged late maturing fields in the Plains area early in the month. By the end of November, harvest was 31 points ahead of normal in Texas and 40 points ahead in Oklahoma. The third week of November, freezing temperatures damaged late cotton in Georgia.

### WINTER WHEAT PLANTING

At the beginning of November, planting was nearly complete except in California and the Southeast. Planting was 93% complete, 4 points ahead of normal on November 5. Crop condition was good to fair with 83% of the acres emerged. Rain was needed in the Great Plains to promote growth and emergence. By mid-November, winter wheat was mostly fair to good with 92% of the acres emerged, 4 points ahead of normal. Continued dry weather combined with high winds lowered crop condition in the Great Plains. Producers in the central and southern Great Plains limited grazing on winter wheat because of poor secondary root development. Dry weather prevailed in the Great Plains through the end of the month. In Texas, rain did improve crop condition in the Blacklands and central area late in November but the Plains area remained dry. Crop condition was good to fair in the Corn Belt during the month.



## RELIABILITY OF DECEMBER 1 COTTON PRODUCTION FORECAST

The cotton production forecast in this report is based primarily on an objective yield survey made during the last week in November and reports from cotton ginners as of December 1. Some adjustments have been made in harvested acres based on acreage data from ASCS. The objective yield survey provided small plot observations, counts and measurements based on a probability sample. This survey is subject to sampling and non-sampling errors that are common to all surveys. The forecast is also subject to change due to future weather effects and other factors that cannot be measured currently but directly affect production.

To assist users in evaluating the reliability of the December 1 cotton production forecast, the "Root Mean Square Error", a statistical measure based on past performance, is computed. This is done by expressing the deviations between the December 1 production forecasts and the final estimates as a percent of the final estimates and averaging the squared percentage deviations for the 1969-88 twenty-year period; the square root of this average becomes statistically the "Root Mean Square Error". Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year's forecast are not different from those influencing recent years.

The "Root Mean Square Error" for the December 1 cotton production forecast is 1.8 percent. This means that chances are 2 out of 3 that the current production forecast of 12.1 million bales will not be above or below the final estimate by more than 1.8 percent or approximately 218 thousand bales. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 3.2 percent or approximately 387 thousand bales.

Differences between the December 1 forecast and the final estimate during the past 10 years have averaged 218 thousand bales, ranging from 61 thousand to 479 thousand bales. The December 1 forecast has been below the final estimate 6 times and above 4 times.

**ALL COTTON:** The December 1 forecast of all cotton production is 12.1 million bales, down 22 percent from last year's production, and virtually unchanged from the November 1 forecast. Of the total, Upland is expected to account for 11.4 million bales while Pima production will be a record high 654 thousand bales. Total area for harvest is estimated at 9.53 million acres, down 20 percent from 1988. Yield is expected to average 608 pounds per acre, 11 pounds below last year but up 1 pound from November 1.

Upland cotton production in Texas and Oklahoma is forecast at 2.99 million bales, 46 percent below 1988 and 4 percent less than November 1. In both States, a late October freeze caused more damage to the crop than earlier expected. Cotton harvest made good progress in the Plains and could be completed ahead of normal due to favorable weather. By December 3, harvest was 89 percent complete in Texas, compared with 75 percent last year, and the average of 60 percent.

The Delta States (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) expect to produce 4.02 million bales, down 15 percent from last year but up 5 percent from November 1. Good harvest weather allowed producers to continue field work. Yields are higher than earlier anticipated. As of December 3, the harvest in Arkansas was 99 percent complete, Mississippi was 98 percent complete and Louisiana had completed the harvest in November.

Production in the Western States (Arizona, California, and New Mexico) is expected to total 3.34 million bales, down 12 percent from 1988. The yields in this region are expected to average 1,190 pounds per acre, 152 pounds above the 1988 yield. The Arizona and California crops remain in good to excellent condition. Cotton harvest in central California neared completion. Quality was reported to be excellent in the southern areas.

The forecast in the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina) puts production at 1.05 million bales, 3 percent above the 1988 production. Yields in this region are expected to average 600 pounds per acre, up from the 514 pounds realized last year. Favorable weather with low humidity late in the season, allowed the top bolls to mature. Harvest continued almost uninterrupted, and more than one trip through fields was possible.

Bureau of Census reports, 10,357,313 running bales ginned prior to November 1, compared with 11,698,470 running bales for the same date last year and 11,076,360 running bales in 1987.

**COTTONSEED:** Production for 1989, based on a 3 year average lint-seed ratio, is expected to total 4.71 million tons, down 22 percent from the 1988 production of 6.06 million tons.

**BURLEY TOBACCO:** U.S. production of burley tobacco is forecast at 543 million pounds, 14 percent above a year ago, but fractionally below the November 1 forecast. Yield is expected to average 2127 pounds per acre, 18 pounds more than in 1988. Area expected to be harvested is up 13 percent from a year earlier.

Burley auction markets opened November 20. Gross sales for the first 7 days totaled 238 million pounds compared with 240 million pounds for the first 7 sale days a year ago.

**DRY BEANS:** Production of dry edible beans is estimated at 24.1 million cwt, up 25 percent from last year, but 7 percent short of the 1987 production. Harvested acreage is set at 1.68 million acres, a gain of 24 percent from a year ago, but 1 percent below 1987. The average yield of 1436 pounds per acre is up 1 percent from last year, but 7 percent below two years ago.

Most of the production increase from last year came from pinto and navy beans although neither class produced as much as two years ago. Kidney, pink, and black turtle soup beans were also up substantially. On the down side were sharp reductions in great northern and small white. Garbanzo and blackeye were also lower.

The resurgence in navy bean production came from a very favorable late summer and fall season in Michigan. Hard frost held off long enough to allow a very late planted crop to mature. Drought conditions continued in dryland bean fields of North Central and Western States. The use of irrigation in Nebraska, Eastern Colorado, and Wyoming was vital to bean production.

**PECANS:** The December 1 forecast for the pecan crop in the 12 estimating States is 204 million pounds, in shell basis, 15 percent below the October 1 forecast and 34 percent less than last year's production.

The Georgia forecast is 80.0 million pounds, 16 percent less than the October 1 forecast and 27 percent below the previous year's production. Harvest was about 80 percent complete by the beginning of December, several days ahead of average. Growers complained of dropping quality during the month due to stink bugs, earlier disease infestations and above normal temperatures the first half of the month combined with showers the last half of the month. Shellers are reporting many empty and light weight nuts. Alabama's forecast of 16.0 million pounds is 60 percent above the low 1988 crop. Quality is reported poor. Louisiana's forecast is 13.0 million pounds, 41 percent below the 1988 production. Several factors including late spring freezes, excessive rain, drought stress and fungus contributed to a smaller production for this year's crop. The Mississippi crop is placed at 7.50 million pounds, 25 percent below last year. New Mexico pecans are forecast at 27.0 million pounds, 4 percent above last season. Harvest is in full swing in New Mexico, with excellent harvest conditions prevailing statewide. Many orchards have finished harvest early. Quality has been reported to be very good. Oklahoma's crop is forecast at 5.00 million pounds, an 89 percent decrease from last year's large crop. Quality is poor. Texas is forecasting 45.0 million pounds, down 25 percent from 1988 production. Harvest was over half complete by December 1. The crop varied widely across the State. A combination of a late freeze in the spring, and hot, dry weather during the summer affected the crop in many areas.

**PAPAYAS:** Hawaii Fresh papaya production is forecast at 3.40 million pounds for December, 42 percent lower than December 1988. Output for the first quarter of next year is anticipated to be lower than the comparable quarter of 1989. January output is forecast at 3.60 million pounds followed by a dip in February to 2.80 million pounds. March production is expected to rise to 4.30 million pounds.

Fresh utilization is estimated at 6.54 million pounds for November, 12 percent higher than October and 15 percent higher than November 1988. The higher than expected November output is being attributed to favorable weather conditions. Year-to-date fresh sales were 16 percent higher than the same 11-month period of 1988. November weather conditions over major producing orchards were favorable for papaya production. Rainfall was less than normal which kept disease incidence down. Temperatures were higher than normal which accelerated fruit ripening.

Production area totaled 4025 acres for November, virtually unchanged from October but 14 percent lower than November 1988. Harvested area for November totaled 2750 acres, up 3 percent from October and 14 percent more than November 1988.

**ORANGES:** U.S. production is forecast at 194 million boxes, unchanged from the October 1 forecast but 6 percent below last season. The forecast of all oranges in Florida is 130 million boxes, unchanged from October 1 but 11 percent less than last season's crop and 6 percent below 1987-88. The forecast for early and mid-season varieties in Florida is 72.0 million boxes, 16 percent less than last season and 8 percent below the 1987-88 crop. Harvest of Florida early and mid-season oranges is about 7 percent complete. The Valencia forecast, at 58.0 million boxes, is 5 percent less than last season and 3 percent below the 1987-88 crop.

The California all orange crop forecast, at 61.0 million boxes, is unchanged from October 1 but 7 percent above last season. The forecast for Navel oranges is 36.0 million boxes, up 3 percent from October 1 and 6 percent higher than last season. Harvest of the Navel crop as of December 1 was about 12 percent complete. Fruit quality is good with sizes slightly below average. California's Valencia forecast of 25.0 million boxes is down 4 percent from the October 1 forecast but 9 percent above last season's production. The crop is progressing normally.

Arizona's all orange forecast, which was carried forward from October 1, is expected to total 1.40 million boxes, 18 percent below last season's production. The Texas all orange forecast is 1.95 million boxes, unchanged from October 1 but 5 percent above the 1988-89 utilized production.

Changes in U.S. production between December 1 and final production have averaged 21.7 million boxes over the past ten seasons, ranging from 1.68 million boxes in 1982-83 to 53.1 million boxes in 1983-84. The freeze that occurred in Florida and Texas during December 1983 was the major cause for the 53.1 million box difference between December 1, 1983 and final production for the 1983-84 season.

**FLORIDA FROZEN CONCENTRATED JUICE YIELD:** The 1989-90 forecast of all Frozen Concentrated Orange Juice for Florida is 1.48 gallons per box at 42.0 degrees Brix. The forecast is projected to estimate the final yield as reported by the Florida Citrus Processors Association. The 1988-89 yield for all fruit used in FCQJ was 1.53 gallons per box at 42.0 degrees Brix.

**GRAPEFRUIT:** The U. S. forecast for the 1989-90 season, including California's "Desert" grapefruit but excluding California's "Other Areas" grapefruit, indicates a crop of 54.2 million boxes, 17 percent below the previous season and 15 percent less than the 1987-88 season. The California "Other Areas" grapefruit crop, which will be forecast as of April 1, 1990, accounted for 5.00 million boxes harvested last season and 4.90 million boxes in 1987-88.

Florida's grapefruit forecast is 44.0 million boxes, 20 percent below last season and 18 percent less than the 1987-88 season. The Florida white seedless grapefruit forecast is 22.5 million boxes, down 19 percent from last season; colored seedless is 18.5 million boxes, down 22 percent; and seedy grapefruit at 3.00 million boxes is 10 percent less than 1988-89.

The California "Desert" grapefruit forecast is 3.70 million boxes, up 6 percent from last season. Arizona's grapefruit crop is forecast at 2.10 million boxes, 8 percent above last season. The Texas grapefruit forecast is 4.40 million boxes, down 8 percent from the previous season.

**TANGELOS:** The Florida tangelo crop forecast is 3.50 million boxes, 8 percent below last season and 17 percent under the 1987-88 crop.

**TANGERINES:** The U. S. all tangerine forecast is 4.75 million boxes, 15 percent below last season and 8 percent less than the harvest in 1987-88. This forecast includes the Dancy, Robinson, Honey, and Sunburst varieties of tangerines in Florida, as well as production of California and

Arizona tangerines. Florida Sunburst tangerines, beginning this year, are included in the State and U.S. totals. Production estimates shown for previous seasons do not include this new varietal tangerine.

**TEMPLES:** Florida's temple forecast is 3.00 million boxes, 20 percent below last season's production and 15 percent less than the 1987-88 crop.

**FLORIDA CITRUS:** This state's groves and trees are in good condition. Rainfall was less than average in most citrus counties during November. There was constant and extensive irrigation in all areas. November was cooler than normal which slowed new growth and helped prepare trees for the winter season. All early bloom fruit except Valencias are well colored with advanced maturity. Harvest of Navel and Hamlin oranges increased rapidly during November as most processing plants were open by the end of the month. Movement of white and colored grapefruit continued with most of the fruit coming from the lower east coast and the south central part of the citrus belt. Harvest of early tangerines was active with most of those going into the fresh fruit markets. K-early utilization was virtually completed by the end of the month. Caretakers have been busy banking young trees in cold locations and placing heaters.

**CALIFORNIA FRUITS & NUTS:** Post-harvest activities in orchards and vineyards was active during November. Picking of Granny Smith apples was completed during the month, while fall avocado harvest continued. Riverside's Deglet Noor date harvest was nearing completion by month's end with excellent yields and quality reported. Table grape harvest ended with Emperor and Ruby Seedless, the last varieties packed. Hachiya and Fuyu persimmons, Wonderful pomegranates, Black Mission figs, and kiwifruit harvests continued. Olive harvest made good progress. Almond, pistachio, and walnut harvests were completed by month's end, while pecan harvest was active. Picking of new crop Navel oranges gained momentum while old crop Valencia harvest neared completion. Desert grapefruit, lemon, and tangerine harvests progressed with good yields and quality reported.

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\* The next issue of this report will be published **January 11,** \*  
\* **1990** and will include: \*  
\* \* \* \* \*  
\* Hay stocks on farms Dec 1, 1989; indicated production of 1989- \*  
\* 90 citrus fruits; papaya acreage and production; indicated \*  
\* cottonseed production; area planted and harvested, yield, and \*  
\* production of cotton and winter potatoes. Seeded acreage of \*  
\* 1990 winter wheat and rye crops; seedings of durum wheat \*  
\* (Arizona and California). \*  
\* \* \* \* \*  
\* Revised acreage, yield, and production for 1989 spring pota- \*  
\* toes; revised production, utilization, price and value for 1988 \*  
\* -89 California Valencia oranges. \*  
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