
Crop Production



National
Agricultural
Statistics
Service

United States
Department of
Agriculture

Agricultural
Statistics
Board

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HIGHLIGHTS

ALL COTTON production, as of December 1, is forecast at 15.4 million bales, up 3 percent from November and up 26 percent from 1989. Harvest proceeded with little interruption during November. Yields and grades in the High Plains were good to excellent and Louisiana's production is a record high level.

ORANGE production is forecast at 230 million boxes, virtually unchanged from October 1 but 23 percent above last season. This significant increase is due mostly to the sharp rebound in Florida production compared with last season's freeze reduced crop.

GRAPEFRUIT production, including California's Desert grapefruit but excluding California's "Other Areas" crop, is 55.1 million boxes, down 3 percent from the November 1 forecast but 26 percent greater than last season. This large increase is the result of last season's devastating freeze in the Florida citrus belt causing significant fruit loss last year.

BURLEY TOBACCO production is forecast at 578 million pounds, 20 percent above a year ago but 1 percent below last month's forecast. Yield and acreage are both up from last year.

DRY EDIBLE BEANS production is estimated at 32.6 million cwt, up 38 percent from last year and 70 percent above two years ago. Harvested acreage was up 28 percent from last year while the average yield gained 7 percent. Record yields in Michigan and New York coupled with record production in Nebraska helped to produce a bumper crop. Increased acreage harvested in Minnesota and North Dakota also helped.

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

CROP	AREA PLANTED		AREA HARVESTED	
	1989	1990	1989	INDICATED
				1990
1,000 ACRES				
ALL COTTON	10,586.6	12,309.2	9,537.7	11,524.8
UPLAND	10,209.7	12,072.5	9,166.0	11,296.8
AMER-PIMA	376.9	236.7	371.7	228.0
DRY EDIBLE BEANS 1/	1,824.6	2,199.1	1,650.9	2,117.4
BURLEY TOBACCO			244.4	263.3

(METRIC UNITS)

CROP	AREA PLANTED		AREA HARVESTED	
	1989	1990	1989	INDICATED
				1990
HECTARES				
ALL COTTON	4,284,290	4,981,410	3,859,810	4,663,970
UPLAND	4,131,760	4,885,620	3,709,390	4,571,700
AMER-PIMA	152,530	95,790	150,420	92,270
DRY EDIBLE BEANS 1/	738,400	889,950	668,100	856,890
BURLEY TOBACCO			98,890	106,550

1/ 1989 REVISED.

* 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 head- *
* quarters. *
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**UNITED STATES CROP SUMMARY - YIELD PER ACRE AND PRODUCTION
(DOMESTIC UNITS)**

CROP AND UNIT	: YIELD PER ACRE :			PRODUCTION		
	: INDICATED:			: INDICATED 1990		
	: 1989	: 1990	: 1989	: NOV 1	: DEC 1	
				1,000		
ALL COTTON	BALE 1/	614	641	12,195.6	14,904.8	15,398.8
UPLAND	" 1/	602	638	11,503.9	14,507.9	15,012.9
AMER-PIMA	" 1/	893	812	691.7	396.9	385.9
COTTONSEED	TON			4,676.9	5,804.3	5,998.1
DRY EDIBLE						
BEANS 2/	CWT 1/	1,437	1,542	23,729	32,450	32,644
BURLEY TOBACCO	LB	1,975	2,197	482,568	586,815	578,415
PECANS	"			250,500	4/237,100	215,900
CITRUS FRUITS 3/				1989-90	1990-91	1990-91
ORANGES	BOX			186,075	4/230,750	229,750

(METRIC UNITS)

CROP	: YIELD PER HECTARE :			PRODUCTION		
	: INDICATED:			: INDICATED 1990		
	: 1989	: 1990	: 1989	: NOV 1	: DEC 1	
				METRIC TONS		
ALL COTTON		.69	.72	2,655,280	3,245,130	3,352,690
UPLAND		.68	.71	2,504,680	3,158,720	3,268,670
AMER-PIMA		1.00	.91	150,600	86,410	84,020
COTTONSEED				4,242,810	5,265,570	5,441,380
DRY EDIBLE BEANS 2/		1.61	1.73	1,076,330	1,471,910	1,480,710
BURLEY TOBACCO		2.21	2.46	218,890	266,170	262,360
PECANS				113,620	4/107,550	97,930
CITRUS FRUITS 3/				1989-90	1990-91	1990-91
ORANGES				7,084,200	4/8,973,000	8,939,400

1/ YIELD IN POUNDS.

2/ 1989 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, 1990.

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 1970-89 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 15.4 million bales will not be above or below the final estimate by more than 1.8 percent or approximately 277 thousand bales. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 3.2 percent or approximately 493 thousands bales.

Differences between the December 1 forecast and the final estimate during the past 10 years have averaged 219 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.

COTTON

STATE	AREA HARVESTED		YIELD		PRODUCTION 1/		
	1989	IND 1990	1989	IND 1990	1988	1989	IND 1990
	1,000 ACRES		POUNDS		1,000 BALES 2/		
UPLAND							
AL	322.0	398.0	571	482	380.0	383.0	400.0
AZ	239.0	344.0	1,303	1,116	865.0	649.0	800.0
AR	595.0	740.0	687	714	1,044.0	851.0	1,100.0
CA	1,040.0	1,040.0	1,228	1,292	2,824.0	2,661.0	2,800.0
FL 3/	25.0	29.5	557	750	34.2	29.0	46.1
GA	260.0	345.0	631	529	370.0	342.0	380.0
KS 3/	0.4	1.3	240	406	0.7	0.2	1.1
LA	620.0	790.0	672	729	948.0	868.0	1,200.0
MS	1,020.0	1,180.0	732	753	1,825.0	1,555.0	1,850.0
MO	209.0	235.0	618	623	306.0	269.0	305.0
NM	55.0	50.0	698	768	102.0	80.0	80.0
NC	110.0	200.0	615	624	133.0	141.0	260.0
OK	340.0	360.0	244	467	303.0	173.0	350.0
SC	118.0	154.0	626	452	140.0	154.0	145.0
TN	460.0	525.0	497	448	584.0	476.0	490.0
TX	3,750.0	4,900.0	367	470	5,215.0	2,870.0	4,800.0
VA 3/	2.6	5.0	498	547	3.4	2.7	5.7
US	9,166.0	11,296.8	602	638	15,077.3	11,503.9	15,012.9
AMER-PIMA:							
AZ	244.5	123.5	936	816	241.0	477.0	210.0
CA	17.9	25.5	1,078	1,050	3.2	40.2	55.8
MS 4/	1.1	1.0	436	528		1.0	1.1
NM	30.2	20.0	707	696	23.5	44.5	29.0
TX	78.0	58.0	794	745	66.5	129.0	90.0
US	371.7	228.0	893	812	334.2	691.7	385.9
ALL							
AL	322.0	398.0	571	482	380.0	383.0	400.0
AZ	483.5	467.5	1,118	1,037	1,106.0	1,126.0	1,010.0
AR	595.0	740.0	687	714	1,044.0	851.0	1,100.0
CA	1,057.9	1,065.5	1,226	1,287	2,827.2	2,701.2	2,855.8
FL 3/	25.0	29.5	557	750	34.2	29.0	46.1
GA	260.0	345.0	631	529	370.0	342.0	380.0
KS 3/	0.4	1.3	240	406	0.7	0.2	1.1
LA	620.0	790.0	672	729	948.0	868.0	1,200.0
MS	1,021.1	1,181.0	731	752	1,825.0	1,556.0	1,851.1
MO	209.0	235.0	618	623	306.0	269.0	305.0
NM	85.2	70.0	701	747	125.5	124.5	109.0
NC	110.0	200.0	615	624	133.0	141.0	260.0
OK	340.0	360.0	244	467	303.0	173.0	350.0
SC	118.0	154.0	626	452	140.0	154.0	145.0
TN	460.0	525.0	497	448	584.0	476.0	490.0
TX	3,828.0	4,958.0	376	473	5,281.5	2,999.0	4,890.0
VA 3/	2.6	5.0	498	547	3.4	2.7	5.7
US	9,537.7	11,524.8	614	641	15,411.5	12,195.6	15,398.8

1/ PRODUCTION GINNED AND TO BE GINNED. 2/ 480-LB. NET WEIGHT BALES.
 3/ ESTIMATES FOR CURRENT YEAR CARRIED FORWARD FROM PREVIOUS FORECAST.
 4/ ESTIMATES BEGAN IN 1989.

COTTONSEED

STATE	PRODUCTION		
	1988	1989	IND 1990
	1,000 TONS		
US	6,061.8	4,676.9	5,998.1

BURLEY TOBACCO

STATE AND TYPE	AREA HARVESTED		YIELD		PRODUCTION		
	1989	IND 1990	1989	IND 1990	1988	1989	IND 1990
	ACRES		POUNDS		1,000 POUNDS		
TYPE 31							
IN	6,100	6,400	2,170	2,100	10,945	13,237	13,440
KY	169,000	185,000	2,060	2,250	335,250	348,140	416,250
MO 1/	2,500	2,500	2,180	2,150	4,422	5,450	5,375
NC	7,700	8,500	1,680	2,150	14,497	12,936	18,275
OH	9,100	9,100	1,750	1,950	14,469	15,925	17,745
TN	38,000	39,000	1,720	2,100	77,700	65,360	81,900
VA	10,500	11,000	1,870	2,050	17,205	19,635	22,550
WV 1/	1,450	1,800	1,300	1,600	2,720	1,885	2,880
US	244,350	263,300	1,975	2,197	477,208	482,568	578,415

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

PAPAYAS - HAWAII

MONTH	AREA				FRESH PRODUCTION	
	TOTAL IN CROP		HARVESTED		1989	1990
	ACRES		POUNDS		1,000 POUNDS	
	1989	1990	1989	1990		
OCT	4,070	3,545	2,625	2,250	6,130	5,210
NOV	4,060	3,495	2,735	2,310	6,270	5,500
DEC	4,100		2,745		5,530	
JAN		4,120		2,810		5,080
FEB		4,005		2,660		4,530
MAR		3,900		2,555		4,830
CUMULATIVE FRESH PRODUCTION JAN-NOV					58,470	54,210

DRY EDIBLE BEANS 1/ 2/

STATE	AREA PLANTED			AREA HARVESTED		
	1988	1989	1990	1988	1989	1990
	1,000 ACRES					
CA	151.0	185.0	175.0	147.0	180.0	167.0
CO	160.0	195.0	255.0	155.0	185.0	245.0
ID	120.0	170.0	180.0	119.0	168.0	178.0
KS	21.0	24.0	40.0	20.0	21.0	38.0
MI	245.0	300.0	360.0	170.0	265.0	340.0
MN	65.0	82.0	140.0	60.0	70.0	136.0
MT	4.4	6.0	13.5	4.0	5.9	13.0
NE	200.0	220.0	260.0	193.0	208.0	254.0
NM	14.5	15.0	14.0	14.5	14.0	14.0
NY	27.0	32.0	41.0	25.0	31.0	39.5
ND	400.0	500.0	570.0	370.0	410.0	550.0
OR 3/			9.1			9.0
TX 3/			25.0			21.0
UT	4.5	5.6	5.5	4.5	5.0	4.0
WA	37.0	44.0	48.0	36.0	43.0	47.0
WI 3/			11.0			10.9
WY	36.0	46.0	52.0	35.0	45.0	51.0
U S	1,485.4	1,824.6	2,199.1	1,353.0	1,650.9	2,117.4
	YIELD PER ACRE			PRODUCTION		
	1988	1989	1990	1988	1989	1990
	POUNDS			1,000 CWT		
CA	1,963	1,865	1,872	2,885	3,357	3,126
CO	1,650	1,680	1,730	2,558	3,108	4,239
ID	1,890	2,050	2,000	2,249	3,444	3,560
KS	1,550	1,550	1,750	310	326	665
MI	1,260	1,500	1,650	2,142	3,975	5,610
MN	800	1,300	1,300	480	910	1,768
MT	1,900	2,200	1,690	76	130	220
NE	1,950	1,680	1,970	3,764	3,494	5,004
NM	2,200	2,000	2,000	319	280	280
NY	1,300	1,450	1,700	325	450	672
ND	730	600	910	2,701	2,460	5,005
OR 3/			2,000			180
TX 3/			1,050			221
UT	580	300	330	26	15	13
WA	2,060	2,160	1,940	742	929	912
WI 3/			1,700			185
WY	1,930	1,890	1,930	676	851	984
U S	1,423	1,437	1,542	19,253	23,729	32,644

1/ EXCLUDES BEANS GROWN FOR GARDEN SEED. 2/ 1989 REVISED. 3/ ESTIMATES BEGAN IN 1990.

DRY EDIBLE BEANS BY COMMERCIAL CLASS

CLASS AND STATE	AREA PLANTED			AREA HARVESTED		
	1988	1989	1990	1988	1989	1990
	1,000 ACRES					
LARGE LIMA						
CA	29.0	33.0	26.0	28.0	32.0	25.0
TOTAL	29.0	33.0	26.0	28.0	32.0	25.0
BABY LIMA						
CA	30.0	36.0	25.0	29.0	35.0	25.0
TOTAL	30.0	36.0	25.0	29.0	35.0	25.0
OTHER THAN LIMA						
CA	92.0	116.0	124.0	90.0	113.0	117.0
TOTAL	92.0	116.0	124.0	90.0	113.0	117.0
NAVY						
ID			7.0			6.9
KS	.5	2.6	1.4	.4	2.5	1.3
MI	205.0	230.0	255.0	140.0	203.0	242.0
MN	35.0	43.0	69.0	31.0	36.0	67.0
NE	5.5	3.5	4.5	5.4	3.2	4.2
NM	5.3	4.0	4.0	5.3	4.0	4.0
ND	171.0	190.0	188.0	155.0	140.0	184.0
OR			2.7			2.7
TOTAL	422.3	473.1	531.6	337.1	388.7	512.1
GREAT NORTHERN						
ID	16.5	11.6	9.0	16.4	11.4	8.9
KS	1.7	.7	1.7	1.5	.6	1.6
NE	114.0	114.0	119.0	111.0	106.0	116.5
WA	1.6	1.7	2.9	1.6	1.7	2.8
WY	5.8	5.0	6.5	5.7	4.5	6.4
TOTAL	139.6	133.0	139.1	136.2	124.2	136.2
SMALL WHITE						
CA	2.0			2.0		
ID	9.0	5.9	5.0	9.0	5.8	4.9
MI	5.0	9.0	8.5	4.3	8.0	8.0
NE	.8			.6		
OR			1.1			1.1
WA	11.0	6.8	3.5	10.8	6.7	3.4
TOTAL	27.8	21.7	18.1	26.7	20.5	17.4

(CONTINUED)

DRY EDIBLE BEANS BY COMMERCIAL CLASS (CONTINUED)

CLASS AND STATE	YIELD PER ACRE			PRODUCTION		
	1988	1989	1990	1988	1989	1990
	POUNDS			1,000 CWT		
LARGE LIMA						
CA	2,050	1,930	1,920	574	618	480
TOTAL	2,050	1,930	1,920	574	618	480
BABY LIMA						
CA	2,320	2,080	2,160	673	728	540
TOTAL	2,320	2,080	2,160	673	728	540
OTHER THAN LIMA						
CA	1,820	1,780	1,800	1,638	2,011	2,106
TOTAL	1,820	1,780	1,800	1,638	2,011	2,106
NAVY						
ID			2,000			138
KS	1,500	2,400	2,230	6	60	29
MI	1,240	1,500	1,620	1,736	3,045	3,920
MN	710	1,390	1,370	220	500	919
NE	1,910	1,810	2,070	103	58	87
NM	2,380	2,000	2,000	126	80	80
ND	770	510	960	1,188	714	1,767
OR			2,040			55
TOTAL	1,002	1,147	1,366	3,379	4,457	6,995
GREAT NORTHERN						
ID	1,920	2,050	2,060	315	234	183
KS	1,800	1,170	2,250	27	7	36
NE	2,140	1,650	2,080	2,373	1,749	2,425
WA	1,630	2,000	2,000	26	34	56
WY	2,040	2,180	2,000	116	98	128
TOTAL	2,098	1,709	2,076	2,857	2,122	2,828
SMALL WHITE						
CA	1,350			27		
ID	1,740	1,900	2,080	157	110	102
MI	1,400	1,500	1,630	60	120	130
NE	2,000			12		
OR			2,000			22
WA	2,180	2,160	2,260	235	145	77
TOTAL	1,839	1,829	1,902	491	375	331

(CONTINUED)

DRY EDIBLE BEANS BY COMMERCIAL CLASS (CONTINUED)

CLASS AND STATE	AREA PLANTED			AREA HARVESTED		
	1988	1989	1990	1988	1989	1990
	1,000 ACRES					
PINTO						
CO	146.0	181.0	221.0	141.5	171.5	215.0
ID	50.2	85.0	92.0	49.5	84.1	91.1
KS	17.1	20.5	35.9	16.5	17.7	34.1
MI	1.8	3.0	10.0	1.0	2.5	9.0
MN	17.0	21.0	37.3	17.0	18.0	36.2
MT	3.6	4.6	11.9	3.3	4.5	11.4
NE	75.0	90.0	122.5	72.0	87.0	120.0
NM	8.0	10.0	9.4	8.0	9.0	9.4
ND	220.0	290.0	336.0	207.0	254.0	328.0
OR			3.1			3.1
TX			15.0			13.0
UT	4.5	5.6	5.5	4.5	5.0	4.0
WA	7.1	14.5	18.1	7.0	14.0	17.7
WY	30.2	41.0	45.5	29.3	40.5	44.6
TOTAL	580.5	766.2	963.2	556.6	707.8	936.6
ALL RED KIDNEY						
CA	32.0	48.0		31.0	47.0	
ID	1.0	1.1		1.0	1.1	
MI	17.0	17.5		14.0	15.0	
MN	12.0	17.0		11.0	15.0	
NE	4.3	11.5		3.7	11.0	
NY	18.0	22.0		17.0	21.5	
TOTAL	84.3	117.1		77.7	110.6	
LIGHT RED KIDNEY 1/						
CA			35.0			33.0
ID			.6			.6
MI			8.5			8.0
MN			.5			.5
NE			12.0			11.5
NY			21.0			20.0
TOTAL			77.6			73.6
DARK RED KIDNEY 1/						
CA			16.0			15.0
ID			1.4			1.4
MI			9.0			8.0
MN			23.6			22.9
NY			5.5			5.4
WI			11.0			10.9
TOTAL			66.5			63.6

(CONTINUED)

DRY EDIBLE BEANS BY COMMERCIAL CLASS (CONTINUED)

CLASS AND STATE	YIELD PER ACRE			PRODUCTION		
	1988	1989	1990	1988	1989	1990
	POUNDS			1,000 CWT		
PINTO						
CO	1,620	1,650	1,700	2,288	2,838	3,659
ID	1,860	2,050	1,980	923	1,722	1,804
KS	1,500	1,450	1,730	247	256	590
MI	1,400	1,600	1,670	14	40	150
MN	710	910	1,020	120	163	371
MT	1,910	2,220	1,690	63	100	193
NE	1,670	1,720	1,860	1,200	1,496	2,230
NM	2,090	2,030	2,020	167	183	190
ND	690	620	880	1,432	1,574	2,873
OR			2,000			62
TX			1,310			170
UT	580	300	330	26	15	13
WA	2,270	2,140	2,010	159	299	356
WY	1,910	1,860	1,920	560	753	856
TOTAL	1,293	1,334	1,443	7,199	9,439	13,517
ALL RED KIDNEY						
CA	1,670	1,590		519	748	
ID	1,800	1,550		18	17	
MI	1,300	1,470		182	220	
MN	1,090	1,580		120	237	
NE	1,890	1,610		70	177	
NY	1,240	1,480		211	318	
TOTAL	1,441	1,552		1,120	1,717	
LIGHT RED KIDNEY 1/						
CA			1,680			554
ID			1,170			7
MI			1,500			120
MN			2,400			12
NE			2,000			230
NY			1,680			336
TOTAL			1,711			1,259
DARK RED KIDNEY 1/						
CA			1,760			264
ID			1,290			18
MI			1,880			150
MN			1,720			395
NY			1,690			91
WI			1,700			185
TOTAL			1,734			1,103

1/ ESTIMATES NOT AVAILABLE PRIOR TO 1990.

(CONTINUED)

DRY EDIBLE BEANS BY COMMERCIAL CLASS (CONTINUED)

CLASS AND STATE	AREA PLANTED			AREA HARVESTED		
	1988	1989	1990	1988	1989	1990
	1,000 ACRES					
PINK						
CA	5.0	16.0	15.0	5.0	16.0	15.0
ID	25.0	43.6	43.0	24.9	43.1	42.6
MT	.8	1.4	1.6	.7	1.4	1.6
NM	.7	.5	.3	.7	.5	.3
WA	.8	1.8	2.9	.8	1.8	2.9
TOTAL	32.3	63.3	62.8	32.1	62.8	62.4
SMALL RED						
ID	16.0	17.8	18.0	15.9	17.6	17.7
WA	11.1	13.4	12.8	10.9	13.2	12.6
TOTAL	27.1	31.2	30.8	26.8	30.8	30.3
CRANBERRY						
MI	12.0	11.0	12.0	8.0	9.5	11.0
TOTAL	12.0	11.0	12.0	8.0	9.5	11.0
BLACK TURTLE SOUP						
MI	1.3	28.0	53.0	1.0	26.0	50.0
NY	6.3	7.1	10.0	5.6	6.8	9.8
TOTAL	7.6	35.1	63.0	6.6	32.8	59.8
BLACK EYE						
CA	44.0	40.0	46.0	43.0	39.0	44.0
TX			6.0			5.0
TOTAL	44.0	40.0	52.0	43.0	39.0	49.0
GARBANZO						
CA	1.0			1.0		
WA	4.0	3.4	5.3	3.5	3.3	5.2
TOTAL	5.0	3.4	5.3	4.5	3.3	5.2
OTHER						
CA	8.0	12.0	12.0	8.0	11.0	10.0
CO	14.0	14.0	34.0	13.5	13.5	30.0
ID	2.3	5.0	4.0	2.3	4.9	3.9
KS	1.7	.2	1.0	1.6	.2	1.0
MI	2.9	1.5	4.0	1.7	1.0	4.0
MN	1.0	1.0	9.6	1.0	1.0	9.4
NE	.4	1.0	2.0	.3	.8	1.8
NM	.5	.5	.3	.5	.5	.3
NY	2.7	2.9	4.5	2.4	2.7	4.3
ND	9.0	20.0	46.0	8.0	16.0	38.0
OR			2.2			2.1
TX			4.0			3.0
WA	1.4	2.4	2.5	1.4	2.3	2.4
TOTAL	43.9	60.5	126.1	40.7	53.9	110.2

(CONTINUED)

DRY EDIBLE BEANS BY COMMERCIAL CLASS (CONTINUED)

CLASS AND STATE	YIELD PER ACRE			PRODUCTION		
	1988	1989	1990	1988	1989	1990
	POUNDS			1,000 CWT		
PINK						
CA	1,800	1,610	1,470	90	258	220
ID	1,900	2,080	2,060	472	895	878
MT	1,860	2,140	1,690	13	30	27
NM	2,710	2,000	2,000	19	10	6
WA	2,250	2,330	2,380	18	42	69
TOTAL	1,907	1,967	1,923	612	1,235	1,200
SMALL RED						
ID	2,010	2,110	2,150	319	372	380
WA	2,230	2,480	2,210	243	327	278
TOTAL	2,097	2,269	2,172	562	699	658
CRANBERRY						
MI	1,380	1,740	1,820	110	165	200
TOTAL	1,380	1,740	1,820	110	165	200
BLACK TURTLE SOUP						
MI	1,600	1,420	1,760	16	370	880
NY	1,500	1,410	1,760	84	96	172
TOTAL	1,515	1,420	1,760	100	466	1,052
BLACKEYE						
CA	1,960	2,040	2,070	843	797	910
TX			600			30
TOTAL	1,960	2,040	1,918	843	797	940
GARBANZO						
CA	1,100			11		
WA	1,060	1,060	520	37	35	27
TOTAL	1,067	1,060	520	48	35	27
OTHER						
CA	1,850	1,890	1,580	148	208	158
CO	2,000	2,000	1,930	270	270	580
ID	1,960	1,920	1,280	45	94	50
KS	1,880	1,500	1,000	30	3	10
MI	1,410	1,500	1,500	24	15	60
MN	2,000	1,000	760	20	10	71
NE	2,000	1,750	1,780	6	14	32
NM	1,400	1,400	1,330	7	7	4
NY	1,250	1,330	1,700	30	36	73
ND	1,010	1,080	960	81	172	365
OR			1,950			41
TX			700			21
WA	1,710	2,040	2,040	24	47	49
TOTAL	1,683	1,625	1,374	685	876	1,514

CITRUS FRUIT 1/

CROP AND STATE	PRODUCTION BOXES			PRODUCTION TON EQUIVALENT			
	UTILIZED		IND	UTILIZED		IND	
	1988-89	1989-90	1990-91	1988-89	1989-90	1990-91	
	1,000 UNITS 2/			1,000 UNITS			
ORANGES, EARLY MID & NAVEL	3/						
AZ	4/	550	380	550	21	14	21
CA		34,000	44,100	40,000	1,275	1,654	1,500
FL		85,300	68,100	95,000	3,839	3,064	4,275
TX	5/	1,200	1,050		51	44	
U S		121,050	113,630	135,550	5,186	4,776	5,796
ORANGES, VALENCIA							
AZ	4/	1,150	1,190	1,200	43	44	45
CA		24,900	29,000	23,000	934	1,087	863
FL		61,300	42,100	70,000	2,758	1,895	3,150
TX	5/	650	155		28	7	
U S		88,000	72,445	94,200	3,763	3,033	4,058
ALL ORANGES							
AZ	4/	1,700	1,570	1,750	64	58	66
CA		58,900	73,100	63,000	2,209	2,741	2,363
FL		146,600	110,200	165,000	6,597	4,959	7,425
TX	5/	1,850	1,205		79	51	
US		209,050	186,075	229,750	8,949	7,809	9,854
TEMPLES							
FL		3,750	1,400	3,100	169	63	140
GRAPEFRUIT, WHITE SEEDLESS							
FL		27,700	18,000	24,000	1,177	765	1,020
GRAPEFRUIT, COLORED SEEDLESS							
FL		23,700	16,300	23,500	1,007	693	999
OTHER GRAPEFRUIT							
FL		3,350	1,400	1,500	142	60	64
ALL GRAPEFRUIT							
AZ	4/	1,950	2,200	2,200	63	70	70
CA	4/ 6/						
DESERT OTHER AREAS		3,500	3,700	3,900	112	118	125
TOTAL		8,000	8,700		263	285	
FL		54,750	35,700	49,000	2,326	1,518	2,083
TX	5/	4,800	2,000		192	80	
US		69,500	48,600		2,844	1,953	
TANGERINES	7/						
AZ	4/	650	600	650	25	22	24
CA	4/	2,040	1,600	2,000	76	61	75
FL		2,900	1,700	2,100	138	81	100
US		5,590	3,900	4,750	239	164	199
LEMONS	4/						
AZ		3,800	2,900	3,100	144	110	118
CA		16,200	15,700	17,000	615	596	646
US		20,000	18,600	20,100	759	706	764
TANGELOS							
FL		3,800	2,950	3,100	171	132	140

SEE FOOTNOTES ON PAGE A-15.

CITRUS FRUITS FOOTNOTES

- 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-CA & AZ-75, FL-90, TX-85; GRAPEFRUIT-CA DESERT & AZ-64, CA OTHER-67, FL-85, TX-80; LEMONS-76; TANGELOS & TEMPLES-90; TANGERINES-CA & AZ-75, FL-95.
- 3/ NAVEL AND MISCELLANEOUS VARIETIES IN CA AND AZ. EARLY AND MID-SEASON VARIETIES IN FL AND TX, INCLUDING SMALL QUANTITIES OF TANGERINES IN TX.
- 4/ ESTIMATES FOR CURRENT YEAR CARRIED FORWARD FROM EARLIER FORECAST.
- 5/ DUE TO THE SEVERE FREEZE OF DEC 1989, THE 1990-91 TX CITRUS CROPS ARE VIRTUALLY ELIMINATED AND FORECASTS WILL NOT BE ISSUED THIS SEASON UNLESS SUFFICIENT COMMERCIAL SUPPLIES BECOME AVAILABLE.
- 6/ THE FIRST FORECAST FOR CA GRAPEFRUIT "OTHER AREAS" WILL BE AS OF APR 1.
- 7/ FL "ALL TANGERINES" INCLUDE SUNBURST TANGERINES BEGINNING WITH THE 1989-90 SEASON.

PECANS

CROP AND STATE		PRODUCTION		
		UTILIZED		IND
		1988	1989	1990
		1,000 POUNDS		
PECANS IMPROVED	1/			
AL		6,000	13,000	5,000
AR		1,900	100	250
CA		2,200	2,000	3,000
FL		3,400	4,000	2,700
GA		95,000	69,000	60,000
LA		4,500	2,500	1,500
MS		6,500	5,500	2,500
NM		26,000	29,000	31,000
NC	2/	3,500	300	700
OK		2,500	1,000	1,000
SC		4,000	600	700
TX		30,000	34,000	50,000
US		185,500	161,000	158,350
PECANS NATIVE & SEEDLING				
AL		4,000	9,000	1,000
AR		1,100	900	150
FL		2,600	3,000	1,900
GA		15,000	16,000	10,000
LA		17,500	11,500	3,500
MS		3,500	3,000	1,500
NC	2/	2,000	400	800
OK		44,500	8,000	5,500
SC		2,500	400	300
TX		30,000	21,000	15,000
US		122,700	73,200	39,650
ALL PECANS				
AL		10,000	22,000	6,000
AR		3,000	1,000	400
CA		2,200	2,000	3,000
FL		6,000	7,000	4,600
GA		110,000	85,000	70,000
LA		22,000	14,000	5,000
MS		10,000	8,500	4,000
NM		26,000	29,000	31,000
NC	2/	5,500	700	1,500
OK		47,000	9,000	6,500
SC		6,500	1,000	1,000
TX		60,000	55,000	65,000
OTH STS	2/ 3/		16,300	17,900
US		308,200	250,500	215,900

- 1/ BUDDED, GRAFTED, OR TOPWORKED VARIETIES.
 2/ ESTIMATES FOR CURRENT YEAR CARRIED FORWARD FROM EARLIER FORECAST.
 3/ AZ, KS, MO, AND TN BEGINNING WITH 1989 CROP. NO BREAKDOWN BETWEEN VARIETIES AVAILABLE.

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: 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, and 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 Kansas, Minnesota, North Dakota and South Dakota.

WHEAT: May 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, 1988-89 AND 1989-90
 PERCENT OF SALES, BY MONTHS 1/

MONTH	CROP MARKETING YEAR					
	1988-89	1989-90	1988-89	1989-90	1988-89	1989-90
	PERCENT					
	HAY		FLAXSEED		PEANUTS	
APR	.6	.5				
MAY	4.9	5.1				
JUN	12.2	10.6				
JUL	11.9	11.5	12.9	4.6		
AUG	11.4	10.4	13.5	3.7	.2	1.2
SEP	9.7	8.6	24.0	36.6	16.7	48.2
OCT	8.2	9.4	22.2	22.1	60.3	40.1
NOV	6.6	7.8	7.1	4.9	18.1	7.6
DEC	7.3	7.8	3.7	5.7	2.8	1.8
JAN	6.9	7.5	3.7	7.6	1.9	1.1
FEB	5.3	7.0	2.5	1.5		
MAR	6.8	6.8	1.9	1.7		
APR	6.1	5.3	3.6	5.2		
MAY	2.1	1.7	2.1	2.9		
JUN			2.8	3.5		
YEAR	100.0	100.0	100.0	100.0	100.0	100.0
	OATS		WHEAT		BARLEY	
JUN	10.4	3.8	22.3	13.1	12.4	8.3
JUL	32.8	27.8	13.3	19.6	13.4	6.4
AUG	12.8	21.3	10.9	12.9	13.1	15.3
SEP	9.5	7.4	8.7	7.1	7.8	11.8
OCT	5.0	4.6	5.8	6.2	6.9	8.9
NOV	3.3	3.5	5.4	6.9	8.6	10.2
DEC	3.7	4.6	7.0	7.9	6.7	9.0
JAN	4.7	6.6	8.5	9.0	6.7	10.9
FEB	3.6	4.1	3.8	3.9	5.3	5.8
MAR	5.7	5.4	5.4	4.4	7.3	4.7
APR	4.9	5.2	3.8	4.5	6.7	4.4
MAY	3.6	5.7	5.1	4.5	5.1	4.3
YEAR	100.0	100.0	100.0	100.0	100.0	100.0

1/ REVISED FOR 1988-89.

FARM MARKETING OF FIELD CROPS, UNITED STATES, 1988-89 AND 1989-90
 PERCENT OF SALES, BY MONTHS 1/ (CONTINUED)

MONTH	CROP MARKETING YEAR						
	1988-89		1989-90		1988-89		1989-90
	PERCENT						
	SORGHUM		CORN		COTTON		
AUG					3.5	4.1	
SEP	8.1	6.9	10.9	6.1	6.3	4.5	
OCT	14.8	21.9	14.1	16.3	12.7	14.6	
NOV	10.0	20.2	7.3	12.4	16.3	26.0	
DEC	10.3	8.8	7.8	6.9	13.2	15.4	
JAN	9.8	11.1	11.8	14.6	11.7	11.8	
FEB	6.0	5.3	6.1	7.3	10.8	7.4	
MAR	7.1	4.8	8.1	7.6	8.0	4.8	
APR	4.4	3.5	6.3	7.7	5.0	4.5	
MAY	4.2	2.2	7.1	5.9	5.1	2.8	
JUN	3.4	4.5	6.7	5.5	3.5	2.2	
JUL	10.5	5.9	6.2	4.3	3.9	1.9	
AUG	11.4	4.9	7.6	5.4			
YEAR	100.0	100.0	100.0	100.0	100.0	100.0	
	SOYBEANS		DRY EDIBLE BEANS		SUNFLOWER		
SEP	8.4	5.6	22.5	19.3	4.2	9.6	
OCT	23.4	24.6	17.9	21.5	37.2	34.4	
NOV	12.0	10.5	10.2	11.5	9.0	15.3	
DEC	8.8	7.0	7.0	9.3	8.1	7.4	
JAN	13.5	12.3	6.2	10.6	6.2	8.7	
FEB	4.0	7.3	6.4	6.3	6.9	5.4	
MAR	6.9	8.2	7.5	5.6	8.6	6.8	
APR	4.6	6.3	5.1	4.6	4.7	4.6	
MAY	4.2	5.2	5.6	3.9	2.5	2.6	
JUN	5.6	3.6	4.5	2.7	6.4	2.8	
JUL	4.1	4.3	3.7	2.6	5.1	1.9	
AUG	4.5	5.1	3.4	2.1	1.1	.5	
YEAR	100.0	100.0	100.0	100.0	100.0	100.0	

1/ REVISED FOR 1988-89.

FARM MARKETING OF HAY, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
		PERCENT													
AZ	1988-89	15	15	10	13	10	7	6	7	3	2	3	9		
	1989-90	14	17	9	12	9	6	7	7	4	3	4	8		
AR	1988-89		5	15	14	11	14	9	6	6	7	7	5	1	
	1989-90		3	14	14	10	13	9	6	6	8	9	6	2	
CA	1988-89		11	12	10	12	11	9	4	5	6	3	7	10	
	1989-90		13	12	11	12	8	10	5	4	4	5	5	11	
CO	1988-89			8	9	15	10	11	9	9	8	2	6	8	5
	1989-90			5	4	10	8	14	15	8	8	8	9	4	7
GA	1988-89		9	12	7	7	17	10	6	7	8	8	5	4	
	1989-90		8	11	6	7	16	10	7	8	9	9	5	4	
ID	1988-89			14	11	12	10	8	6	6	7	5	7	7	7
	1989-90			10	17	11	9	9	9	6	12	6	7	3	1
IL	1988-89			12	9	10	6	4	5	7	13	11	10	7	6
	1989-90			19	13	10	8	4	3	6	9	9	9	7	3
IN	1988-89			17	14	12	10	4	5	6	9	7	6	4	6
	1989-90			15	13	9	8	4	6	9	10	8	8	5	5
IA	1988-89			22	15	15	6	4	5	6	7	8	7	3	2
	1989-90			23	14	14	6	4	5	6	7	8	8	3	2
KS	1988-89		4	9	14	11	7	10	8	11	10	6	7	3	
	1989-90		3	8	13	10	7	10	8	11	12	8	7	3	
KY	1988-89		8	14	9	11	7	7	8	7	9	9	8	3	
	1989-90		8	14	9	10	7	7	8	7	9	10	9	2	
MI	1988-89			17	16	13	9	7	7	7	7	6	5	4	2
	1989-90			11	11	7	4	5	14	16	8	6	8	6	4
MN	1988-89			13	13	6	5	4	6	7	8	10	11	12	5
	1989-90			8	5	7	4	6	9	10	12	12	13	9	5
MO	1988-89		4	14	13	8	7	6	7	8	10	12	8	3	
	1989-90		4	18	16	5	5	3	7	7	9	13	10	3	
MT	1988-89			8	13	11	8	10	12	12	8	6	6	4	2
	1989-90			6	12	11	8	9	12	12	9	8	7	4	2

(CONTINUED)

FARM MARKETING OF HAY, BY STATES, 1988-89 AND 1989-90
 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													
NE	1988-89			9	8	10	7	7	7	14	11	8	9	7	3
	1989-90			9	11	10	9	11	9	11	9	7	7	5	2
NV	1988-89		2	4	10	12	12	11	12	10	8	7	7	5	
	1989-90		3	3	9	12	10	11	12	10	10	9	7	4	
NM	1988-89		11	16	14	15	13	9	5	4	4	3	3	3	
	1989-90		15	16	14	12	11	10	5	4	4	4	3	2	
NY	1988-89			23	15	6	5	4	5	5	9	8	9	6	5
	1989-90			15	13	5	4	4	8	10	10	9	10	7	5
ND	1988-89			7	10	7	13	15	8	5	5	4	7	9	10
	1989-90			4	11	11	15	10	11	7	7	9	10	4	1
OH	1988-89			17	13	11	9	6	7	6	7	6	6	6	6
	1989-90			12	11	7	7	7	9	12	9	9	8	6	3
OK	1988-89		10	19	21	10	7	8	7	6	5	3	3	1	
	1989-90		5	10	22	10	11	10	5	6	7	6	5	3	
OR	1988-89			15	21	14	13	11	5	6	3	5	5	2	
	1989-90			8	10	9	8	14	9	10	10	8	8	3	3
PA	1988-89			12	12	6	6	6	9	8	9	10	8	8	6
	1989-90			9	11	4	4	6	10	12	10	10	10	8	6
SD	1988-89			16	7	5	7	9	7	8	6	5	14	9	7
	1989-90			9	14	5	15	17	6	5	7	5	8	6	3
TX	1988-89		9	11	14	10	10	10	6	10	6	7	5	2	
	1989-90		9	9	13	9	10	10	6	10	7	9	6	2	
UT	1988-89		1	12	13	13	12	7	8	11	7	5	5	6	
	1989-90		3	9	12	23	13	10	6	10	7	3	2	2	
WA	1988-89			11	11	13	15	9	8	7	5	6	6	4	5
	1989-90			10	10	11	13	10	9	8	7	7	7	4	4
WI	1988-89			19	20	16	11	2	1	6	6	6	3	7	3
	1989-90			27	11	11	7	6	3	8	9	4	5	5	4
WY	1988-89			4	9	13	10	8	17	14	9	4	4	5	3
	1989-90			3	9	13	10	9	17	13	10	5	5	4	2

FARM MARKETING OF BARLEY, BY STATES, 1988-89 AND 1989-90
 PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		PERCENT													
CA	1988-89	22	3	13	21	9	3	2	6	4	3	2	12		
	1989-90	27	10	9	5	3	3	8	5	2	2	7	19		
CO	1988-89		13	24	4	8	22	14	5	1	2	4	2	1	
	1989-90		7	26	15	9	30	6	2	1	1	1	1	1	
ID	1988-89		10	19	8	6	15	8	12	7	6	2	5	2	
	1989-90		2	16	18	11	11	8	17	6	2	3	2	4	
MN	1988-89		11	8	5	7	8	7	7	7	10	9	7	14	
	1989-90		9	15	12	10	13	13	10	5	3	2	3	5	
MT	1988-89		14	14	9	7	8	7	11	5	7	8	6	4	
	1989-90		2	7	6	8	7	8	12	10	12	10	10	8	
ND	1988-89		19	11	7	8	9	7	5	5	8	7	5	9	
	1989-90		8	15	12	6	8	8	13	6	6	5	4	9	
OR	1988-89		16	20	9	9	11	8	9	3	7	4	2	2	
	1989-90		7	24	13	6	8	8	10	4	1	7	5	7	
SD	1988-89		18	8	6	4	2	3	7	6	12	16	7	11	
	1989-90		7	10	14	14	14	11	3	13	3	3	3	5	
UT	1988-89		7	12	5	5	7	22	3	4	6	21	5	3	
	1989-90		18	24	9	12	2	4	10	3	6	5	3	4	
WA	1988-89		3	21	12	10	10	9	6	5	9	6	6	3	
	1989-90		2	13	17	21	20	10	9	2	2	1	2	1	
WY	1988-89		35	50	1	1	1	1	3	8					
	1989-90		1	85	4	1	1	7	1						

FARM MARKETING OF OATS, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		PERCENT													
CA	1988-89		2	2	15	36	14	2	10	2	6	2	8	1	
	1989-90		3	1	27	16	8	9	16	3	1	5	8	3	
IL	1988-89			37	4	10	3	2	2	6	5	11	4	7	9
	1989-90			42	27	5	2	1	2	7	3	2	3	3	3
IN	1988-89			22	15	5	14	4	4	3	8	7	8	6	4
	1989-90			37	23	23	6	1	1		1	2	2	3	1
IA	1988-89			59	9	6	2	2	1	4	2	4	4	2	5
	1989-90			46	18	8	3	2	2	4	2	3	4	4	4
MI	1988-89			17	32	18	3	2	2	5	5	4	6	2	4
	1989-90			7	44	12	5	2	4	7	3	4	6	4	2
MN	1988-89			30	12	8	4	4	4	5	5	7	5	6	10
	1989-90			26	16	6	4	5	4	7	4	6	7	7	8
MT	1988-89			10	22	8	6	11	5	5	7	11	6	5	4
	1989-90			10	7	14	11	5	6	9	10	7	6	9	6
NE	1988-89			38	10	8	2	5	5	8	5	6	6	2	5
	1989-90			47	11	6	3	3	2	7	4	5	4	4	4
NY	1988-89			5	12	24	9	7	3	12	5	12	3	4	4
	1989-90			9	29	14	2	1	6	7	8	5	5	9	5
ND	1988-89			15	20	15	7	7	6	3	4	3	6	7	7
	1989-90			7	15	9	5	7	6	9	6	8	10	7	11
OH	1988-89			30	18	9	4	2	5	7	4	5	6	7	3
	1989-90			20	25	6	4	4	5	10	6	6	5	6	3
OR	1988-89			5	25	17	12	3	5	10	6	8	2	2	5
	1989-90			2	17	14	23	11	5	7	3	2	4	6	6
PA	1988-89			15	15	5	2	4	2	8	5	19	13	8	4
	1989-90			17	29	6	2	2	3	5	10	9	8	4	5
SD	1988-89			50	7	4	6	2	4	5	2	7	5	4	4
	1989-90			35	16	4	2	3	8	8	4	6	3	6	5
TX	1988-89	28	39	9	5	4	5	2	3	1	1	2	1		
	1989-90	15	32	30	4	2	8	2	2	2	1	1	1		
WI	1988-89			32	17	8	4	4	3	5	4	5	8	4	6
	1989-90			10	27	14	7	3	4	5	5	7	4	5	9

FARM MARKETING OF ALL WHEAT, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
		PERCENT													
AZ	1988-89	50	13	13	16	1	1	1	1	1	1	1	1	1	1
	1989-90	10	73	5	2	1	1	1	1	2	1	1	1	2	
AR	1988-89		79	8	4	1	1	1	1	1	1	1	1	1	1
	1989-90		66	17	6	2	1	1	1	1	1	1	1	1	2
CA	1988-89	6	56	15	5	3	2	5	1	2	3	1	1		
	1989-90	3	32	28	8	4	4	2	6	7	3	2	1		
CO	1988-89			10	8	9	7	11	13	13	7	8	5	6	3
	1989-90			12	19	7	7	8	8	13	7	7	6	4	2
ID	1988-89			2	14	13	11	7	11	16	6	7	2	5	6
	1989-90			3	9	12	12	9	9	12	5	7	6	8	8
IL	1988-89		45	16	15	4	2	1	3	10	1	1	1	1	
	1989-90		24	53	8	4	1	1	1	4	1	1	1	1	
IN	1988-89		38	37	8	4	2	3	2	2	1	1	1	1	
	1989-90		11	69	10	3	1		1	3	1		1		
KS	1988-89		22	13	11	13	7	6	7	9	4	4	2	2	
	1989-90		12	23	12	7	7	6	8	8	4	5	5	3	
MI	1988-89			41	20	12	5	3	6	6	2	2	1	1	1
	1989-90			34	36	7	4	3	4	4	3	2	1	1	1
MN	1988-89			10	10	7	5	7	8	7	4	9	9	11	13
	1989-90			9	21	7	6	9	12	11	5	5	5	6	4

(CONTINUED)

FARM MARKETING OF ALL WHEAT, BY STATES, 1988-89 AND 1989-90
 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	1988-89	51	16	9	4	2	3	4	6	1	2	1	1		
	1989-90	27	45	11	5	2	2	1	3	1	1	1	1		
MT	1988-89		8	12	7	7	7	10	13	8	9	6	7	6	
	1989-90		3	7	8	9	11	11	11	8	7	9	9	7	
NE	1988-89		28	12	7	6	3	5	11	5	7	9	4	3	
	1989-90		30	12	6	6	8	7	10	4	7	5	2	3	
ND	1988-89		10	10	7	6	7	9	8	5	10	9	8	11	
	1989-90		6	16	10	6	9	9	15	5	6	7	4	7	
OH	1988-89		47	14	8	5	3	6	8	3	2	1	1	2	
	1989-90		52	15	8	4	2	6	7	2	1	1	1	1	
OK	1988-89	5	28	11	9	9	5	5	9	10	2	5	2		
	1989-90	2	21	17	9	5	7	11	1	13	3	5	6		
OR	1988-89		6	17	12	8	8	9	15	6	7	4	4	4	
	1989-90		5	16	12	10	11	11	10	4	4	7	6	4	
SD	1988-89		17	7	7	5	6	7	9	6	11	8	11	6	
	1989-90		14	20	5	5	6	12	9	4	4	6	8	7	
TX	1988-89	16	39	16	8	4	3	3	3	3	2	2	1		
	1989-90	17	37	21	4	2	5	3	3	2	3	2	1		
WA	1988-89		3	19	17	11	8	8	9	3	3	7	8	4	
	1989-90		3	12	14	13	14	14	8	4	5	5	5	3	

FARM MARKETING OF FLAXSEED, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PERCENT												
MN 1988-89:	15	5	20	30	15	2	5	1	1	4	1	1
1989-90:	16	2	41	32	2			7				
ND 1988-89:	13	14	24	21	7	4	4	3	2	3	2	3
1989-90:	4	2	37	22	6	5	8	1	2	6	3	4
SD 1988-89:	11	17	8	20	2	2	9		18	1	8	4
1989-90:		42	15	7	3	19	8	3				3

FARM MARKETING OF SORGHUM, BY STATES, 1988-89 AND 1989-90
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																
AR 1988-89:			17	28	17	3	4	14	13	1	1	1	1			
1989-90:			6	65	15	3	4	3	1	1	1	1				
CO 1988-89:					11	19	25	9	8	6	4	6	6	2	2	2
1989-90:					4	67	8	7	1	3	3	1	1			5
KS 1988-89:				5	14	13	13	12	8	11	5	6	5	3	5	
1989-90:				6	26	19	12	13	6	6	4	3	2	2	1	
MO 1988-89:				33	23	9	6	10	5	5	1	2	2	2	2	
1989-90:				19	22	13	4	9	5	7	8	5	3	2	3	
NE 1988-89:					20	9	12	10	6	6	6	5	5	9	6	6
1989-90:					28	21	10	11	8	8	5	3	2	1	2	1
NM 1988-89:				7	5	23	22	14	15	5	1	2	3	1	2	
1989-90:				1	20	57	8	10	1	1	2					
OK 1988-89:			1	1	13	18	14	18	6	10	6	4	3	6		
1989-90:			3	5	13	28	15	10	12	4	6	1	2	1		
SD 1988-89:				7	30	10	3	14	3	2	1	13	8	6	3	
1989-90:				8	33	9	6	8	10	7	3	5	4	5	2	
TX 1988-89:	3	21	20	6	12	9	9	5	3	5	5	2				
1989-90:	2	21	20	4	12	18	5	10	3	2	2	1				

FARM MARKETING OF CORN, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR		AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
		PERCENT													
CO	1988-89			11	9	11	13	5	7	8	7	8	8	8	5
	1989-90			11	16	16	20	9	7	6	5	5	2	2	1
GA	1988-89	27	12	8	3	8	4	2	4	4	7	10	11		
	1989-90	31	18	8	4	4	7	3	3	4	4	3	11		
IL	1988-89		9	12	5	9	14	8	10	7	8	7	5	6	
	1989-90		4	18	11	7	18	8	9	9	6	4	3	3	
IN	1988-89		9	20	8	8	10	7	7	7	7	6	5	6	
	1989-90		4	15	15	6	21	12	6	7	3	4	3	4	
IA	1988-89		13	13	6	6	11	5	8	7	7	7	7	10	
	1989-90		7	15	9	5	11	6	9	9	8	7	7	7	
KS	1988-89		9	13	6	11	17	7	8	5	8	6	6	4	
	1989-90		9	21	13	15	17	8	5	4	3	2	2	1	
KY	1988-89		7	17	6	6	21	6	12	5	5	6	5	4	
	1989-90		14	14	9	7	27	10	7	4	3	1	2	2	
MI	1988-89			13	14	12	11	7	7	5	6	8	7	5	5
	1989-90			10	18	15	20	10	8	6	4	3	2	2	2
MN	1988-89			16	10	8	12	4	6	5	7	10	6	9	7
	1989-90			13	11	4	6	4	6	10	10	13	8	11	4
MO	1988-89		23	14	6	6	10	7	8	5	6	5	4	6	
	1989-90		18	21	9	6	13	6	6	7	4	3	3	4	
NE	1988-89			10	6	9	13	8	11	7	10	7	6	8	5
	1989-90			13	13	9	15	6	9	10	5	6	3	5	6
NC	1988-89		39	19	4	4	7	3	4	4	4	4	3	5	
	1989-90		28	26	5	5	6	5	5	4	4	2	2	8	
OH	1988-89		4	17	15	9	11	8	9	7	6	4	6	4	
	1989-90		4	15	16	9	13	8	8	7	6	4	6	4	
PA	1988-89			12	26	5	8	7	6	7	5	3	13	4	4
	1989-90			9	22	8	11	7	7	6	6	12	3	5	4
SD	1988-89			19	12	9	11	8	6	5	6	6	4	7	7
	1989-90			30	12	10	10	5	7	5	5	5	4	4	3
TX	1988-89	16	13	32	8	7	10	2	2	2	2	1	5		
	1989-90	11	24	28	9	5	13	4	1	1	1	1	2		
WI	1988-89			16	12	7	4	4	7	11	5	6	7	10	11
	1989-90			20	24	7	6	6	4	4	6	7	7	5	4

FARM MARKETING OF SOYBEANS, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS

STATE AND: MARKETING: YEAR :		SEP :	OCT :	NOV :	DEC :	JAN :	FEB :	MAR :	APR :	MAY :	JUN :	JUL :	AUG :
		PERCENT											
AL	1988-89:	1	23	38	10	12	4	4	2	3	1	1	1
	1989-90:	3	29	31	10	9	6	4	2	3	1	1	1
AR	1988-89:	1	23	22	16	22	3	4	3	1	2	1	2
	1989-90:	1	22	25	13	16	8	4	3	2	1	1	4
GA	1988-89:	1	14	53	13	7	2	2	3	1	2	1	1
	1989-90:	1	22	35	17	9	5	3	2	2	1	1	2
IL	1988-89:	9	19	3	6	16	5	9	6	7	8	5	7
	1989-90:	7	22	4	6	15	9	10	8	6	4	4	5
IN	1988-89:	15	29	7	6	9	4	5	5	5	5	5	5
	1989-90:	4	38	9	4	11	9	6	6	4	3	3	3
IA	1988-89:	11	18	4	6	14	5	9	7	5	8	6	7
	1989-90:	8	17	5	6	13	7	10	8	7	5	7	7
KS	1988-89:	7	23	7	9	9	4	9	7	5	8	7	5
	1989-90:	3	28	17	11	11	6	7	5	5	2	2	3
KY	1988-89:	2	14	19	9	24	6	12	4	2	4	2	2
	1989-90:	1	13	18	8	19	11	13	7	4	1	2	3
LA	1988-89:	3	37	34	10	9	2	3	1	1			
	1989-90:	7	43	16	9	11	6	4	2	1	0	0	1
MI	1988-89:	3	24	21	18	10	4	6	3	4	4	2	1
	1989-90:	3	27	17	10	13	6	7	5	4	3	3	2
MN	1988-89:	17	21	6	8	12	3	6	5	4	7	6	5
	1989-90:	7	16	7	4	8	5	8	7	8	9	9	12

(CONTINUED)

FARM MARKETING OF SOYBEANS, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS (CONTINUED)

STATE AND:		SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
MARKETING:													
YEAR													
		PERCENT											
MS	1988-89:	4	15	23	19	22	3	5	3	2	2	1	1
	1989-90:	7	21	18	10	20	6	8	5	2	1	1	1
MO	1988-89:	5	25	12	8	15	5	7	4	5	6	3	5
	1989-90:	4	24	11	7	13	8	10	7	6	3	3	4
NE	1988-89:	6	21	9	10	13	6	9	6	5	7	5	3
	1989-90:	4	25	13	9	12	9	7	6	4	3	4	4
NC	1988-89:	1	9	38	23	9	3	5	3	2	2	3	2
	1989-90:	1	7	36	22	8	3	8	5	3	2	3	2
OH	1988-89:	15	32	11	7	10	4	7	4	3	3	1	3
	1989-90:	3	34	12	7	10	7	7	7	4	3	3	3
SC	1988-89:	1	7	43	15	11	3	5	2	2	3	3	5
	1989-90:	1	8	35	24	11	3	5	3	4	2	2	2
SD	1988-89:	17	28	4	4	6	2	9	7	4	8	5	6
	1989-90:	16	35	4	6	8	7	7	5	4	3	3	2
TN	1988-89:	1	28	29	15	15	2	4	1	2	1	1	1
	1989-90:	2	26	25	10	12	7	6	4	3	1	1	3
TX	1988-89:	1	37	20	12	14	2	2	4	2	3	1	2
	1989-90:	1	28	21	9	17	11	5	1	1	1	2	3

FARM MARKETING OF DRY EDIBLE BEANS, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
	PERCENT											
CA 1988-89:	6	11	15	10	9	7	7	8	9	6	6	6
1989-90:	5	9	12	11	9	8	7	8	9	7	9	6
CO 1988-89:	30	16	8	8	7	7	5	6	4	4	3	2
1989-90:	24	16	8	11	13	7	6	5	4	3	2	1
ID 1988-89:	13	23	9	7	6	6	13	9	6	4	2	2
1989-90:	21	18	12	11	13	6	6	6	4	2	1	
MI 1988-89:	15	26	11	4	7	7	9	3	7	3	6	2
1989-90:	15	34	10	7	10	8	5	2	4	2	2	1
MN 1988-89:	23	16	10	7	4	3	3	1	5	7	12	9
1989-90:	43	20	15	7	5	4	1	2	1	1		1
NE 1988-89:	40	15	10	8	4	5	7	2	4	2	1	2
1989-90:	24	29	9	9	12	5	5	3	1	1	1	1
NY 1988-89:	4	10	15	7	8	10	12	16	9	4	4	1
1989-90:	1	12	21	13	10	9	7	7	7	5	4	4
ND 1988-89:	21	20	9	5	4	7	5	3	5	9	5	7
1989-90:	30	24	13	9	8	3	3	2	1	1	1	5
WA 1988-89:	13	29	10	4	11	9	9	7	3	2	2	1
1989-90:	12	27	16	7	8	6	10	5	4	1	2	2
WY 1988-89:	21	8	6	5	7	1	10	11	19	5	5	2
1989-90:	14	9	21	5	12	7	8	12	4	5	2	1

FARM MARKETING OF SUNFLOWER, BY STATES, 1988-89 AND 1989-90
PERCENT OF SALES, BY MONTHS

STATE AND MARKETING YEAR	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
	PERCENT											
KS 1988-89:	1/											
1989-90:		7	39	10	7	9	1	2	15	10		
MN 1988-89:	17	19	9	7	2	9	10	5	2	10	7	3
1989-90:	15	18	13	8	5	7	10	5	3	8	5	3
ND 1988-89:	4	38	9	8	6	7	9	5	2	6	5	1
1989-90:	4	37	16	7	10	6	8	5	1	3	2	1
SD 1988-89:	5	31	9	5	11	3	10	5	6	6	7	2
1989-90:	38	27	7	7	4	1	3	4	5		4	

1/ KANSAS MONTHLY MARKETINGS BEGAN WITH 1989-90 MARKETING YEAR.

NOVEMBER WEATHER SUMMARY

The typical storm track of November consisted of disturbances plunging southeastward from the Pacific Northwest to the Central or Southern Plains, then lifting northeastward to New England. Thus, coastal and mountain sections of the Pacific Northwest wrung out more than ample moisture. As Gulf of Mexico moisture worked into the storms east of the Rocky divide, much of the center third of the Nation had above normal precipitation. The areas suffering most from long-term drought conditions also experienced below normal monthly precipitation. These are: portions of the Southeast, the Northern Plains, and much of the West. Virtually the entire Nation had above-average temperatures for the month.

ROW CROP HARVEST

Harvest weather was excellent for most of November. Lack of moisture and warmer than normal temperatures over most of the Nation helped harvest to progress rapidly during the month. Rain the second week of the month slowed harvest in the central and eastern Corn Belt. By the end of November, harvest progress was ahead of normal in most areas.

Early in the month, corn harvest was 79% complete, 1 point behind normal. Harvest was generally ahead of normal in the Plains States and Southeast with the Texas harvest complete. Rains slowed harvest in the eastern Corn Belt. Michigan harvest was 45% complete, 25 points behind normal. Ninety-seven percent of the crop was harvested by the end of the month. Harvest progressed rapidly in the eastern Corn Belt. Harvest progress in most Corn Belt states was at or above normal.

By November 4, the soybean harvest was 84% complete, 4 points ahead of normal. Harvest was complete in Iowa, Nebraska, and South Dakota. In mid-November, the soybean harvest was 95% complete, 5 points ahead of normal. North and South Carolina, at 58% and 47% respectively, were the only states below 80% harvested, however both were ahead of average.

Cotton harvest was equal to or above normal in all major producing states in early November. Harvest was 64% complete, 8 points ahead of normal. Excessive moisture early in the month in Arkansas, caused some bolls to rot, resulting in reduced yields and grade. By mid-November, cotton harvest was 78% complete, 9 points ahead of normal. By the end of the month, harvest was 88% complete, 6 points ahead of normal. Texas High Plains cotton harvest was hampered by high humidity and heavy morning dew. Yields were good to excellent.

WINTER WHEAT PLANTING

By early November, 91% of the winter wheat crop was planted and 79% emerged, both 1 point ahead of normal. Planting was complete in Colorado, Montana, Nebraska, and South Dakota. Rain in the Central and Southern plains benefitted wheat fields. Seeding in Arkansas was delayed due to late soybean harvest. In mid-November the winter wheat crop was in mostly good condition with 90% of the crop emerged, 1 point ahead of normal. Condition was mostly good in all states except, Montana, Oregon, and South Dakota, where the crop was mostly fair. By the end of November, 93% of the winter wheat crop was emerged and in mostly good condition. In the panhandle of Nebraska, high gusty winds caused soil erosion in some wheat fields. In California and Florida, small grain seeding was slowed due to lack of moisture.

ALL COTTON: The December 1 forecast of all cotton production is 15.4 million bales, up 3 percent from the November 1 forecast and up 26 percent from last year's production. Of the total, Upland is expected to account for 15.0 million bales while Pima production will be 386 thousand bales. Total area for harvest is estimated at 11.5 million acres, up 21 percent from 1989. Yield is expected to average 641 pounds per acre, 19 pounds above November and up 27 pounds from last year.

Upland cotton production in Texas and Oklahoma is forecast at 5.15 million bales, 4 percent above November 1, and 69 percent above the 1989 production. Cotton harvest made good progress in the Plains, although hampered during November by rains, high humidity, and morning dew. Yields and grades in the High Plains were reported good to excellent. By December 2, harvest was 73 percent complete in Texas, compared with the average of 66 percent.

The Delta States (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) expect to produce 4.95 million bales, 3 percent above the November 1 forecast and up 23 percent from 1989. Good harvest weather allowed producers to continue field work. Yields are higher than anticipated earlier in Arkansas, Mississippi, and Missouri. Louisiana's production is a record high level. As of December 2, the harvest in all of these States was virtually complete.

Production in the Western States (Arizona, California, and New Mexico) is expected to total 3.68 million bales, up 3 percent from November 1 and up 9 percent from 1989. The yields in this region are expected to average 1,232 pounds per acre, 12 pounds above the 1989 yield.

The forecast in the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina) puts production at 1.19 million bales, a 4 percent increase from last month and 16 percent above the 1989 production. Yields in this region are expected to average 519 pounds per acre, down 85 pounds from last year due to dry conditions that prevailed during the season. Harvest continued almost uninterrupted during the month.

Bureau of Census reports 12,436,067 running bales ginned prior to December 1, compared with 10,352,900 running bales for the same date last year and 11,698,470 running bales in 1988.

COTTONSEED: Production for 1990, based on a 3 year average lintseed ratio, is expected to total 6.00 million tons, up 28 percent from the 1989 production of 4.68 million tons.

BURLEY TOBACCO: U.S. production of burley tobacco is forecast at 578 million pounds, 20 percent above a year ago but 1 percent below the November 1 forecast. Yield is expected to average 2197 pounds per acre, up 222 pounds from 1989. Area expected to be harvested is 8 percent above last year, and 16 percent greater than 2 years ago.

Burley auction markets opened November 19. Gross sales for the first 11 sale days totaled 366 million pounds compared with 335 million pounds for the first 11 sale days a year ago.

PAPAYAS: Hawaii fresh papaya production is estimated at 5.50 million pounds in November, 6 percent higher than October but 12 percent lower than November a year ago. Year-to-date fresh sales trail the same 11-month period of 1989 by 7 percent.

Weather during November was mostly unfavorable over major papaya producing areas. Rainfall, at times heavy during the first three weeks, prompted growers to intensify spray programs to control *Phytophthora* outbreaks. Still, serious outbreaks were reported and growers removed some older affected trees to control the disease.

Crop area totaled 3,495 acres in November, 1 percent less than October and 14 percent below November 1989. Area harvested, totaling 2,310 acres, was 3 percent higher than last month but 16 percent less than a year ago.

DRY EDIBLE BEANS: Production of dry edible beans is estimated at 32.6 million cwt, up 38 percent from last year and 70 percent above two years ago. This year's output is just short of the record high production set in 1981. Area for harvest is estimated at 2.12 million acres, up 28 percent from last year and 56 percent above two years ago. The average yield is estimated at 1,542 pounds per acre, up 7 percent from last year and 8 percent above two years ago. A good finish in Michigan, Colorado, Kansas, Nebraska, New York, and Wyoming boosted the average yield. Minnesota and North Dakota, coming out of a drought, show productions well above the last two years.

Production of navy beans jumped 57 percent from last year because of record yields in Michigan and increased acreage harvested in Minnesota and North Dakota. Great northern beans returned to full production after a short crop last year in Nebraska. Pinto bean production gained 43 percent over a year ago but was short of the record output of 1981. Kidney beans were up 38 percent from last year. Bumper crops in Michigan and New York more than doubled the crop of black turtle soup beans. The output of pink and small red beans remained strong, although both were below a year ago. The small white bean crop continues to get smaller.

PECANS: The December 1 forecast for the U.S. pecan crop is 216 million pounds (in-shell basis), 9 percent less than the October 1 forecast and 14 percent below last year's production.

The Georgia forecast is 70.0 million pounds, down 22 percent from the October forecast and 18 percent below last season's production. Several factors such as spring freezes, drought, disease, insects, and predators contributed to this low production. Quality is good to excellent. Alabama's forecast is 6.00 million pounds, 25 percent under the October forecast and 73 percent below the previous year's harvest. Late-season drought, heavy aphid pressure, foliage disease, and being the down year in the alternate bearing cycle contributed to this low production. California's production of 3.00 million pounds is unchanged from October 1 but 50 percent above last year. Quality and size are good. Harvest is about 70 percent complete. Florida's crop is expected to total 4.60 million pounds, 28 percent above the October forecast but 34 percent below last season. Louisiana's forecast is 5.00 million pounds, unchanged from October, but 64 percent below 1989 production. Mississippi expects 4.00 million pounds, the same as on October 1, but 53 percent below last season. This decrease was caused mostly from freezes during December 1989 and April 1990. Quality is excellent. New Mexico pecans are forecast at 31.0 million pounds, unchanged from October 1 but 7 percent above last year. Quality is good. Oklahoma's crop is forecast at 6.50 million pounds, the same as October's forecasts but 28 percent below last season. Texas is forecasting 65.0 million pounds, unchanged from October but 18 percent above last year's production. Harvest is behind normal because of wet conditions. Quality problems are being encountered in many areas. The "Other States" (Arizona, Kansas, Missouri, and Tennessee) forecast of 17.9 million pounds remains unchanged from October but is 10 percent higher than last season.

ORANGES: U.S. production is forecast at 230 million boxes, virtually unchanged from the October 1 forecast but 23 percent above last season. The forecast of all oranges in Florida is 165 million boxes, unchanged from October 1 but 50 percent greater than last season's freeze damaged crop and 13 percent above 1988-89. The forecast for early and mid-season varieties in Florida is 95.0 million boxes, 40 percent greater than last season and 11 percent above the 1988-89 crop. Harvest of Florida early and mid-season oranges was about 31 percent complete as of December 1. The Valencia forecast, at 70.0 million boxes, is 66 percent greater than last season and 14 percent above the 1988-89 crop.

The California all orange crop forecast, at 63.0 million boxes, is 2 percent below October 1 and 14 percent less than last season. The forecast for Navel oranges is 40.0 million boxes, unchanged from October but 9 percent less than last season. Harvest of the Navel crop as of December 1 was about 8 percent complete. The California Valencia forecast of 23.0 million boxes is down 4 percent from the October 1 forecast and 21 percent below last season's production.

Arizona's all orange forecast, which was carried forward from October 1, is expected to total 1.75 million boxes, 11 percent greater than last season's production.

Due to the severe freeze of December 1989, the 1990-91 Texas orange crop is virtually eliminated and forecasts will not be issued this season unless sufficient commercial supplies become available.

Changes in U.S. production between December 1 and final production have averaged 20.8 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 1990-91 forecast of all Frozen Concentrated Orange Juice (FCOJ) for Florida is 1.50 gallons per box at 42.0 degrees Brix. The forecast projects the final yield as reported by the Florida Citrus Processors Association. The freeze damaged 1989-90 yield for all fruit used in FCOJ was 1.23 gallons per box at 42.0 degrees Brix.

GRAPEFRUIT: Prospects as of December 1 for the 1990-91 season indicate a crop of 55.1 million boxes, 3 percent below the November 1 forecast, but 26 percent above last season's production. This forecast includes California's "Desert" grapefruit but excludes California's "Other Areas" grapefruit. The California's "Other Areas" grapefruit crop accounted for 5.00 million boxes harvested last season and 4.50 million boxes in 1988-89. The first forecast for that area will be as of April 1, 1991. Due to the severe freeze of December 1989, the 1990-91 Texas grapefruit crop is virtually eliminated. Forecasts will not be issued this season unless sufficient commercial supplies become available.

Florida's grapefruit forecast is 49.0 million boxes, 3 percent less than the October 1 forecast but 37 percent more than the freeze damaged 1989-90 crop. The Florida white seedless grapefruit forecast is 24.0 million boxes, 4 percent below the October 1 forecast but 33 percent above the previous season; colored seedless is 23.5 million boxes, 2 percent less than October 1 but 44 percent greater than the 1989-90 crop; and seeded grapefruit at 1.50 million boxes is unchanged from October 1 but 7 percent above last season.

The California Desert grapefruit forecast is 3.90 million boxes, 5 percent above the 1989-90 crop. Arizona's grapefruit crop is forecast at 2.20 million boxes, unchanged from both the October 1 forecast and last season.

TANGELOS: The Florida tangelo crop production forecast is 3.10 million boxes, unchanged from October 1 but 5 percent above last season.

TANGERINES: The U.S. all tangerine forecast is 4.75 million boxes, the same as October 1 but 22 percent above the 1989-90 crop. 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 are included in the State and U.S. totals beginning with the 1989-90 season. Production estimates shown for seasons prior to 1989-90 do not include this new varietal tangerine.

TEMPLES: Florida's temple forecast, at 3.10 million boxes, is more than double last season's freeze reduced crop.

FLORIDA CITRUS: Most of the groves and trees in the State are in good shape due to extensive irrigation in all areas. Rainfall during November was below average throughout the citrus belt. There was little new growth because of shorter days and light rainfall. Harvesting early oranges for processing increased intensity during November as most juice processing plants opened to receive grove run fruit. All but late bloom, early, and midseason oranges are passing maturity tests for both fresh and processed usage. Movement of all grapefruit was active during November for all uses. Early tangerine harvest was almost complete by the end of the month. Picking of tangelos increased with good fruit and an excellent fresh demand. Caretakers were active cutting cover crops and preparing young trees for the winter season. Few sprays and fertilizers were being applied.

TEXAS CITRUS: Due to the severe freeze in December 1989, the 1990-91 Texas citrus crops were virtually eliminated and forecasts will not be issued this season unless sufficient commercial supplies become available. Pushing out of dead orchards continues and estimates of acreage lost are not readily available. Remaining orchards are showing good development and, with a mild winter, some fruit may set for the 1991-92 season. White and black flies are causing some problems. Citrus growers would like to see more rainfall going into the winter months.

CALIFORNIA FRUITS AND NUTS: Orchard and vineyard post-harvest pruning, pulling, irrigating, and pre-plant fumigation were active during November. The harvest of Granny Smith apples was completed during the month. Harvesting of new crop Hass avocados has begun. Deglet Noor date harvest in Riverside County was nearly complete by the end of the month. Table grape harvest ended with Emperor, the last variety to be packed. Fuyu and Hachiya persimmons, pomegranates, and kiwi harvests made good progress through the month. Almond, pistachio, and walnut harvests were completed during the month while pecan harvest was in full swing. New crop Navel orange picking continued to gain momentum but slowed in some areas due to lack of maturity. Old crop Valencia harvest neared completion while Desert lemon and grapefruit harvest progressed.

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 * cated production of 1990-91 citrus fruits; papaya acreage and *
 * production; indicated cottonseed production; area planted and *
 * harvested, yield, and production of cotton and winter potatoes. *
 * Revised acreage, yield, and production for 1990 spring pota- *
 * toes; revised production, utilization, price, and value for *
 * 1989-90 California Valencia oranges. *
