
Crop Production



United States
Department of
Agriculture
Washington, D.C. 20250

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HIGHLIGHTS

ALL COTTON production in 1987 is expected to total 14.7 million bales, 51 percent above the 1986 crop and 3 percent above the December 1 forecast.

CITRUS production is forecast at 12.1 million tons (11.0 million metric tons), 3 percent higher than last season and 12 percent above the 1985-86 season.

ORANGE production is forecast at 191 million boxes (7.44 million metric tons), up 3 percent from December 1 and 5 percent above last season.

GRAPEFRUIT production, excluding California "other areas" crop, is forecast at 61.6 million boxes (2.31 million metric tons), up 2 percent from December 1 and 6 percent above last season.

LEMON production, at 23.5 million boxes (810 thousand metric tons), is down 1 percent from the previous forecast and 18 percent below last season.

WINTER POTATO production for 1988 is forecast at 2.75 million cwt (125 thousand metric tons), up 10 percent from last year but down 8 percent from 1986.

HAY STOCKS on farms December 1, 1987 are estimated at 120 million tons (109 million metric tons), down 2 percent from December 1, 1986.

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* The next issue of this report will be published February 9, 1988. *

UNITED STATES CROP SUMMARY
(DOMESTIC UNITS)
CITRUS FRUITS, PRODUCTION 1/

CROP	1986-87	INDICATED 1987-88	
		DEC 1, 1987	JAN 1, 1988
		1,000 BOXES	
ORANGES	182,225	186,400	191,450
LEMONS	28,600		23,500

1/ SEASON BEGINS WITH THE BLOOM OF THE FIRST YEAR SHOWN AND ENDS WITH THE COMPLETION OF HARVEST THE FOLLOWING YEAR.

COTTON - AREA PLANTED AND HARVESTED

CROP	AREA PLANTED		AREA HARVESTED	
	1986	IND 1987	1986	IND 1987
	1,000 ACRES			
ALL COTTON	10,044.6	10,421.2	8,468.4	10,049.3
UPLAND	9,933.1	10,285.2	8,357.3	9,914.6
AMER-PIMA	111.5	136.0	111.1	134.7

COTTON AND COTTONSEED - YIELD PER ACRE AND PRODUCTION

CROP AND UNIT	YIELD PER ACRE 1/		PRODUCTION 2/		
	1986	INDICATED 1987	1986	INDICATED	
				1,000	
				DEC 1, 1987	JAN 1, 1988
ALL COTTON	BALE	703	9,731.1	14,281.4	14,724.2
UPLAND	"	700	9,525.2	14,038.9	14,460.2
AMER-PIMA	"	941	205.9	242.5	264.0
COTTONSEED	TON		3,801	5,621	5,802

1/ COTTON YIELD IN POUNDS. 2/ COTTON PRODUCTION IN 480-LB NET WEIGHT BALES.

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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WINTER POTATOES

AREA PLANTED		:	AREA HARVESTED	
1987	:	IND 1988	:	IND 1988
1,000 ACRES				
11.9		12.5		11.7
				12.3
YIELD PER ACRE		:	PRODUCTION	
1987	:	IND 1988	:	IND 1988
CWT			1,000 CWT	
214		223		2,501
				2,746

HAY STOCKS ON FARMS

DATE	:	1986	:	1987
		1,000 TONS		
MAY 1	:	26,698		32,418
DEC 1	:	121,734		119,749

UNITED STATES CROP SUMMARY
(METRIC UNITS)
CITRUS FRUITS, PRODUCTION 1/

CROP	1986-87	INDICATED 1987-88	
		DEC 1, 1987	JAN 1, 1988
METRIC TONS			
ORANGES	7,018,890	7,231,170	7,437,100
LEMONS	986,110		810,120

1/ SEASON BEGINS WITH THE BLOOM OF THE FIRST YEAR SHOWN AND ENDS WITH THE COMPLETION OF HARVEST THE FOLLOWING YEAR.

COTTON - AREA PLANTED AND HARVESTED

CROP	AREA PLANTED		AREA HARVESTED	
	1986	IND 1987	1986	IND 1987
HECTARES				
ALL COTTON	4,064,950	4,217,360	3,427,080	4,066,850
UPLAND	4,019,830	4,162,320	3,382,120	4,012,340
AMER-PIMA	45,120	55,040	44,960	54,510

COTTON AND COTTONSEED - YIELD PER HECTARE AND PRODUCTION

CROP	YIELD PER HECTARE		PRODUCTION		
	1986	INDICATED:	1986	INDICATED	
		1987		DEC 1, 1987	JAN 1, 1988
METRIC TONS					
ALL COTTON	0.62	0.79	2,118,690	3,109,390	3,205,800
UPLAND	0.61	0.78	2,073,860	3,056,590	3,148,320
AMER-PIMA	1.00	1.05	44,830	52,800	57,480
COTTONSEED			3,448,210	5,099,290	5,263,490

WINTER POTATOES

AREA PLANTED		:	AREA HARVESTED	
1987	IND 1988	:	1987	IND 1988
HECTARES				
4,820	5,060	:	4,730	4,980
YIELD PER HECTARE		:	PRODUCTION	
1987	IND 1988	:	1987	IND 1988
METRIC TONS				
23.98	25.01	:	113,440	124,560

HAY STOCKS ON FARMS

DATE	:	1986	:	1987
	:	METRIC TONS		
MAY 1	:	24,220,020	:	29,409,110
DEC 1	:	110,435,230	:	108,634,470

COTTON

STATE	AREA PLANTED			AREA HARVESTED		
	1985	1986	1987	1985	1986	1987
1,000 ACRES						
UPLAND						
ALA	330.0	315.0	335.0	329.0	313.0	333.0
ARIZ	360.0	250.0	300.0	359.0	249.0	299.0
ARK	465.0	490.0	575.0	440.0	480.0	570.0
CALIF	1,330.0	1,000.0	1,130.0	1,320.0	990.0	1,120.0
FLA	24.5	19.5	25.5	22.5	19.0	25.0
GA	255.0	225.0	250.0	245.0	195.0	245.0
KANS	.8	1.2	1.0	.6	1.0	.9
LA	640.0	580.0	605.0	630.0	570.0	600.0
MISS	1,050.0	1,020.0	1,020.0	1,040.0	1,000.0	1,010.0
MO	152.0	178.0	190.0	150.0	160.0	189.0
N MEX	70.0	63.0	66.0	54.0	50.0	62.0
N C	88.0	82.0	96.0	87.0	81.0	95.0
OKLA	370.0	400.0	420.0	360.0	350.0	400.0
S C	124.0	118.0	120.0	122.0	113.0	119.0
TENN	340.0	340.0	450.0	335.0	335.0	445.0
TEX	5,000.0	4,850.0	4,700.0	4,650.0	3,450.0	4,400.0
VA	1.3	1.4	1.7	1.3	1.3	1.7
U S	10,600.6	9,933.1	10,285.2	10,145.4	8,357.3	9,914.6
AMER-PIMA						
ARIZ	56.5	74.0	90.0	56.3	73.8	89.8
N MEX	8.0	11.1	14.0	7.9	11.1	13.9
TEX	19.5	26.4	32.0	19.4	26.2	31.0
U S	84.0	111.5	136.0	83.6	111.1	134.7
ALL						
ALA	330.0	315.0	335.0	329.0	313.0	333.0
ARIZ	416.5	324.0	390.0	415.3	322.8	388.8
ARK	465.0	490.0	575.0	440.0	480.0	570.0
CALIF	1,330.0	1,000.0	1,130.0	1,320.0	990.0	1,120.0
FLA	24.5	19.5	25.5	22.5	19.0	25.0
GA	255.0	225.0	250.0	245.0	195.0	245.0
KANS	.8	1.2	1.0	.6	1.0	.9
LA	640.0	580.0	605.0	630.0	570.0	600.0
MISS	1,050.0	1,020.0	1,020.0	1,040.0	1,000.0	1,010.0
MO	152.0	178.0	190.0	150.0	160.0	189.0
N MEX	78.0	74.1	80.0	61.9	61.1	75.9
N C	88.0	82.0	96.0	87.0	81.0	95.0
OKLA	370.0	400.0	420.0	360.0	350.0	400.0
S C	124.0	118.0	120.0	122.0	113.0	119.0
TENN	340.0	340.0	450.0	335.0	335.0	445.0
TEX	5,019.5	4,876.4	4,732.0	4,669.4	3,476.2	4,431.0
VA	1.3	1.4	1.7	1.3	1.3	1.7
U S	10,684.6	10,044.6	10,421.2	10,229.0	8,468.4	10,049.3

COTTON

CROP AND STATE	YIELD			PRODUCTION 1/		
	1985	1986	1987	1985	1986	1987
	POUNDS			1,000	BALES 2/	
UPLAND						
ALA	795	506	588	545.0	330.0	408.0
ARIZ	1,241	1,301	1,365	928.0	675.0	850.0
ARK	767	602	762	703.0	602.0	905.0
CALIF	1,132	1,088	1,264	3,114.0	2,245.0	2,950.0
FLA	693	707	634	32.5	28.0	33.0
GA	725	455	666	370.0	185.0	340.0
KANS	320	336	587	.4	.7	1.1
LA	565	567	792	742.0	673.0	990.0
MISS	764	571	832	1,655.0	1,190.0	1,750.0
MO	653	588	830	204.0	196.0	327.0
N MEX	631	595	735	71.0	62.0	95.0
N C	646	646	505	117.0	109.0	100.0
OKLA	380	288	420	285.0	210.0	350.0
S C	708	370	444	180.0	87.0	110.0
TENN	600	567	701	419.0	396.0	650.0
TEX	404	353	502	3,910.0	2,535.0	4,600.0
VA	443	554	311	1.2	1.5	1.1
U S	628	547	700	13,277.1	9,525.2	14,460.2
AMER-PIMA						
ARIZ	927	965	1,042	108.7	148.3	195.0
N MEX	687	718	656	11.3	16.6	19.0
TEX	868	751	774	35.1	41.0	50.0
U S	891	890	941	155.1	205.9	264.0
ALL						
ALA	795	506	588	545.0	330.0	408.0
ARIZ	1,198	1,224	1,290	1,036.7	823.3	1,045.0
ARK	767	602	762	703.0	602.0	905.0
CALIF	1,132	1,088	1,264	3,114.0	2,245.0	2,950.0
FLA	693	707	634	32.5	28.0	33.0
GA	725	455	666	370.0	185.0	340.0
KANS	320	336	587	.4	.7	1.1
LA	565	567	792	742.0	673.0	990.0
MISS	764	571	832	1,655.0	1,190.0	1,750.0
MO	653	588	830	204.0	196.0	327.0
N MEX	638	617	721	82.3	78.6	114.0
N C	646	646	505	117.0	109.0	100.0
OKLA	380	288	420	285.0	210.0	350.0
S C	708	370	444	180.0	87.0	110.0
TENN	600	567	701	419.0	396.0	650.0
TEX	406	356	504	3,945.1	2,576.0	4,650.0
VA	443	554	311	1.2	1.5	1.1
U S	630	552	703	13,432.2	9,731.1	14,724.2

1/ PRODUCTION GINNED AND TO BE GINNED. 2/ 480-LB. NET WEIGHT BALES.

COTTONSEED

STATE	PRODUCTION		
	1985	1986	IND 1987
	1,000 TONS		
ALA	189.0	122.0	145.7
ARIZ	389.0	309.0	397.2
ARK	264.0	228.0	334.1
CALIF	1,300.0	875.0	1,200.4
FLA	11.7	9.8	11.7
GA	128.0	64.0	119.4
KANS	.2	.3	.5
LA	264.0	257.0	362.4
MISS	616.0	458.0	659.7
MO	80.0	81.0	129.7
N MEX	31.3	30.5	44.6
N C	44.0	40.0	35.9
OKLA	106.0	85.0	138.2
S C	61.0	31.0	42.2
TENN	160.0	157.0	254.5
TEX	1,634.5	1,052.8	1,925.2
VA	.5	.5	.4
U S	5,279.2	3,800.9	5,801.8

POTATOES

SEASONAL GROUP AND STATE	AREA				YIELD		PRODUCTION		
	PLANTED		HARVESTED						
	1987	1988	1987	1988	1987	1988	1986	1987	1988
	1,000 ACRES				CWT		1,000 CWT		
WINTER									
CALIF	4.6	5.2	4.6	5.2	235	255	1,479	1,081	1,326
FLA	7.3	7.3	7.1	7.1	200	200	1,512	1,420	1,420
TOTAL	11.9	12.5	11.7	12.3	214	223	2,991	2,501	2,746
SPRING 1/									
ALA	5.0		4.9		125		682	613	
ARIZ	4.9		4.9		275		1,298	1,348	
CALIF	21.3		21.3		370		7,605	7,881	
FLA									
HASTINGS	27.0		26.5		170		6,860	4,505	
OTHER	2.2		2.1		190		171	399	
LA	.5		.3		60		35	18	
N C	14.6		14.5		140		2,055	2,030	
TEX	7.0		6.2		150		1,116	930	
TOTAL	82.5		80.7		220		19,822	17,724	

1/ 1987 REVISED.

PAPAYAS - HAWAII

MONTH	AREA				FRESH PRODUCTION		
	TOTAL IN CROP		HARVESTED				
	1986	1987	1986	1987	1986	1987	FORECAST 1987-88
	ACRES				1,000 POUNDS		
NOV	4,025	4,095	2,265	2,440	4,155	5,780	
DEC	3,930	4,135	2,270	2,470	4,440	5,710	
JAN		3,905		2,420		4,400	5,000
FEB		3,860		2,465		3,600	3,300
MAR		3,965		2,495		3,470	2,500
APR		3,995		2,460		4,115	4,400
CUMULATIVE FRESH PRODUCTION JAN-DEC					50,100	56,115	

HAY STOCKS ON FARMS

STATE	MAY 1		DECEMBER 1	
	1986	1987	1986	1987
	1,000 TONS			
ALA	262	168	1,008	1,250
ARIZ	55	25	290	263
ARK	382	486	1,537	1,290
CALIF	400	345	2,330	2,341
COLO	765	728	2,659	3,033
CONN	37	36	142	129
DEL	10	6	35	36
FLA	75	101	460	479
GA	186	135	631	1,003
IDAHO	245	1,086	3,304	4,008
ILL	814	733	2,748	2,472
IND	497	358	1,722	1,754
IOWA	1,284	2,080	6,800	6,032
KANS	1,469	1,150	5,879	4,635
KY	943	574	3,050	3,893
LA	156	102	562	799
MAINE	84	108	300	278
MD	146	76	356	494
MASS	44	59	195	178
MICH	742	861	3,331	2,236
MINN	1,280	1,548	6,773	5,850
MISS	286	232	1,067	1,354
MO	1,433	1,266	5,546	5,375
MONT	331	1,296	4,450	4,842
NEBR	1,419	1,921	6,354	4,921
NEV	130	206	963	897
N H	31	42	135	118
N J	47	18	178	172
N MEX	230	92	594	536
N Y	1,001	1,028	3,894	3,688
N C	121	69	401	486
N DAK	641	1,465	5,208	5,275
OHIO	920	560	2,929	2,875
OKLA	1,629	1,417	4,553	3,972
OREG	179	689	2,100	2,200
PA	1,113	769	3,741	4,054
R I	4	7	15	12
S C	69	46	279	338
S DAK	1,546	4,105	8,677	8,508
TENN	537	251	1,925	2,485
TEX	2,698	2,313	6,714	8,089
UTAH	271	470	1,559	1,503
VT	152	206	628	587
VA	312	190	1,303	1,954
WASH	182	517	1,868	2,104
W VA	172	128	761	895
WIS	1,112	1,616	9,482	7,726
WYO	256	734	2,298	2,330
U S	26,698	32,418	121,734	119,749

CITRUS FRUIT 1/

CROP AND STATE	PRODUCTION BOXES			PRODUCTION TON EQUIVALENT		
	UTILIZED	INDICATED:	UTILIZED	INDICATED	UTILIZED	INDICATED
	1985-86	1986-87	1987-88	1985-86	1986-87	1987-88
	1,000 UNITS 2/			1,000 UNITS		
ORANGES, EARLY MID & NAVEL 3/:						
ARIZ	600	950	650	23	36	24
CALIF	33,000	34,500	28,000	1,238	1,294	1,050
FLA	64,200	65,800	75,000	2,889	2,961	3,375
TEX	200	500	900	9	22	38
U S	98,000	101,750	104,550	4,159	4,313	4,487
ORANGES, VALENCIA						
ARIZ	1,700	2,200	2,400	64	83	90
CALIF	20,900	24,000	24,000	784	900	900
FLA	55,000	53,900	60,000	2,475	2,425	2,700
TEX	110	375	500	5	16	21
U S	77,710	80,475	86,900	3,328	3,424	3,711
ALL ORANGES						
ARIZ	2,300	3,150	3,050	87	119	114
CALIF	53,900	58,500	52,000	2,022	2,194	1,950
FLA	119,200	119,700	135,000	5,364	5,386	6,075
TEX	310	875	1,400	14	38	59
U S	175,710	182,225	191,450	7,487	7,737	8,198
TEMPLES						
FLA	2,950	3,400	3,400	133	153	153
GRAPEFRUIT, WHITE SEEDLESS						
FLA	25,600	26,900	28,000	1,088	1,143	1,190
GRAPEFRUIT, COLORED SEEDLESS						
FLA	18,000	20,000	20,500	765	850	871
SEEDY GRAPEFRUIT						
FLA	3,150	2,900	3,500	134	123	149
ALL GRAPEFRUIT						
ARIZ	2,400	2,200	2,200	77	70	70
CALIF 4/:						
DESERT	3,600	4,200	4,200	115	134	134
OTHER AREAS	4,500	4,900		151	164	
TOTAL	8,100	9,100		266	298	
FLA	46,750	49,800	52,000	1,987	2,116	2,210
TEX	220	1,925	3,200	9	77	128
U S	57,470	63,025		2,339	2,561	
TANGERINES						
ARIZ	700	700	550	26	26	21
CALIF	1,800	2,230	1,500	68	83	56
FLA 5/:	1,950	2,340	2,200	93	111	105
U S 5/:	4,450	5,270	4,250	187	220	182
LEMONS						
ARIZ	3,250	7,100	5,000	123	270	190
CALIF	15,100	21,500	18,500	574	817	703
U S	18,350	28,600	23,500	697	1,087	893
TANGELOS						
FLA	2,950	4,000	4,000	133	180	180

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/ NAVAL AND MISCELLANEOUS VARIETIES IN CALIFORNIA AND ARIZONA. EARLY AND MIDSEASON VARIETIES IN FLORIDA AND TEXAS, INCLUDING SMALL QUANTITIES OF TANGERINES IN TEXAS. 4/ THE FIRST FORECAST FOR CALIF GRAPEFRUIT "OTHER AREAS" WILL BE AS OF APR 1. 5/ PER PROGRAM MODIFICATIONS FLA "ALL TANGERINES" INCLUDE HONEY TANGERINES BEGINNING WITH 1987-88 SEASON. ESTIMATES FOR PREVIOUS SEASONS ARE REVISED TO INCLUDE THE HONEY VARIETY.

DECEMBER HARVESTING PROGRESS

Precipitation prolonged cotton harvest in Oklahoma and Texas and soybean harvest in the Southeast during most of December. On December 6, 15 percent of the acreage remained to be harvested in the 14 major producing States. Most of the acreage left to be harvested was in Oklahoma, Texas, and New Mexico but some cotton was still in the field in Arizona, California, Georgia, and South Carolina. At midmonth snow halted cotton harvest in Oklahoma and drastically curtailed activities in Texas. As the month closed, Texas harvest was 98 percent finished but 10 percent of Oklahoma's acreage was left to be picked. Producers in California began preparation for seeding the 1988 cotton crop before the month ended. As the month ended, soybeans were left to be harvested in South Carolina, North Carolina and Georgia.

DECEMBER WEATHER SUMMARY

December temperatures were generally mild and above normal early in the month except in the Southeast. By midmonth, temperatures in the western half of the Nation turned cold while the eastern half remained relatively mild. Some western areas reported temperatures as much as 15 to 18° below normal. Freezing temperatures hurt susceptible fruit and vegetable crops from California to Texas. Snow cover was limited to the Great Lakes States, Northeast, and Mountain States early in the month. By the end of the month, snow covered most of the West and the northern half of the Nation except parts of Montana and North Dakota. Precipitation was heavy from northeast Texas to Indiana around midmonth and in the South late in the month.

WINTER WHEAT

Rain hampered winter wheat seeding in the Southeast during December. Seeding progressed normally in California with minor delays. Above-normal temperatures melted most snow cover from Texas to North Dakota, until near the end of December. Late in the month, the melting snow provided much needed moisture in some areas. Cold temperatures swept though the central and northern Great Plains and Corn Belt but snow protection was ample most days. However, melting snow subjected wheat to low temperatures in some areas. Cool temperatures slowed growth and emergence in the Southwest. The cold temperatures eradicated disease and insect problems in the central and northern Great Plains. Winter wheat was under stress in dry areas of South Dakota at the end of December.

COTTON: All cotton production in 1987 is expected to total 14.7 million bales, 51 percent above the 1986 crop and 3 percent above the December 1 forecast. The Upland production forecast is 14.5 million bales and American-Pima production is expected to total a record high 264 thousand bales. Planted area of all cotton totaled 10.4 million acres (4.22 million hectares), up 4 percent from 1986. Total area for harvest is estimated at 10.0 million acres (4.07 million hectares), 19 percent above 1986. Yields are expected to average a record high 703 pounds per harvested acre, up 151 pounds from 1986 and 73 pounds per acre above the previous record high established in 1985.

In Texas and Oklahoma, Upland production is forecast at 4.95 million bales, up 80 percent from last year and 5 percent above the December 1 forecast. Cold, wet conditions in the area during December slowed final cotton harvest activities. Record high yields are expected in Texas and Oklahoma.

Production in the Delta States (Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) is expected to total 4.62 million bales, up 51 percent from 1986 and up slightly from December 1. Record yields are expected in all States except Mississippi.

Upland production in the Western States (Arizona, California, and New Mexico) is expected to total 3.90 million bales, up 31 percent from last year and 5 percent above the December 1 forecast. Record high yields are expected in Arizona and California, and New Mexico expects the highest yield since 1961.

Production in the Southeastern States (Alabama, Georgia, North Carolina, and South Carolina) is expected to total 958 thousand bales, up 35 percent from 1986, but down slightly from December 1. Dry conditions and early frost reduced yields in the area. Harvest is virtually complete.

Bureau of the Census reported 13,275,665 running bales ginned prior to January 1 compared with 8,588,206 to the same date last year and 12,365,030 bales in 1985.

COTTONSEED: Production of cottonseed for 1987, based on a three year average lint-seed ratio, is forecast at 5.80 million tons (5.26 million metric tons), 53 percent above the 1986 production of 3.80 million tons (3.45 million metric tons).

ORANGES: U.S. all orange production is forecast at 191 million boxes (7.44 million metric tons), up 3 percent from December 1 and 5 percent higher than last season. All oranges in Florida are forecast at 135 million boxes, up 4 percent from December 1 and 13 percent more than last season's crop. Early and mid-season varieties in Florida, at 75.0 million boxes, is 4 percent above December 1 and 14 percent higher than last season. Harvest of early's and mid's is 29 percent complete as compared with 35 percent a year earlier. The Florida Valencia forecast is 60.0 million boxes, up 3 percent from December 1 and 11 percent higher than last season.

The California all orange crop is forecast at 52.0 million boxes, unchanged from December 1, but 11 percent below last season. The California Navel crop, at 28.0 million boxes, is the same as December 1 but 19 percent less than the crop harvested in 1986-87. Navel harvest in California is about 27 percent complete. The forecast for the California Valencia crop, at 24.0 million boxes, is unchanged from both December 1 and last season. California's orange crop suffered some frost damage in late December. The result of the damage will be primarily lowering fruit quality. A higher percentage of the production will likely be utilized for products.

Arizona's all orange forecast, at 3.05 million boxes, is unchanged from the previous forecast but 3 percent below last season. The Texas all orange crop is forecast at 1.40 million boxes, up 4 percent from the last forecast and compares with 875 thousand boxes harvested last season.

Changes in U.S. production between the January 1 forecast and final production have averaged 15.1 million boxes over the past ten seasons, ranging from 680 thousand boxes in 1982-83 to 43.2 million boxes in 1981-82. A freeze in Florida during January 1982 was the major cause for the 43.2 million box difference between the January 1, 1982 forecast and final production for 1981-82.

FLORIDA FROZEN CONCENTRATED JUICE YIELD: The 1987-88 Florida all orange frozen concentrate juice yield forecast has been increased to 1.48 gallons per box of 42.0 degrees Brix equivalent, up from last month's projection of 1.46 gallons per box. This increase is due to the continued gains in both Brix and pounds of unfinished juice per box. The latest maturity survey tests show pounds of solids to be similar to last season when the final was 1.50827 gallons of FCOJ per box.

GRAPEFRUIT: The January 1 forecast, excluding California's "other areas" grapefruit, is 61.6 million boxes (2.31 million metric tons), up 2 percent from December 1 and 6 percent above last season. Production for the California "other areas" crop, which will be forecast as of April 1, 1988, accounted for 4.90 million boxes last season. The California "Desert Valley" crop forecast is 4.20 million boxes, the same as production in 1986-87. The Florida all grapefruit forecast is 52.0 million boxes -- up 2 percent from the December 1 forecast and up 4 percent from last season. Harvest in Florida is 20 percent complete. Arizona's forecast is 2.20 million boxes, the same as last season but up 5 percent from the previous forecast. In Texas, the forecast is 3.20 million boxes, 3 percent higher than December 1 and compares to the 1986-87 season of 1.93 million boxes.

LEMONS: Production in Arizona and California is expected to total 23.5 million boxes (810 thousand metric tons), down 1 percent from the previous forecast and 18 percent below last season's utilized production. California's forecast continues at 18.5 million boxes, 14 percent below the 1986-87 season. Freezing temperatures during the last half of December caused varying amounts of damage to California lemon groves. The smallest sizes of fruit experienced the worst damage. Extent of the damage is impossible to determine at this time. As a result of the frost, more fruit will be used for processed products rather than fresh. The Arizona forecast is 5.00 million boxes, 30 percent less than last season's large utilized crop. Harvest is 57 percent complete in Arizona and 28 percent in California.

TANGELOS: The Florida crop, excluding K-early citrus fruit, at 4.00 million boxes (163 thousand metric tons), is unchanged from December 1 and the same as the 1986-87 crop. Harvest is 54 percent complete.

TANGERINES: The U.S. production forecast is 4.25 million boxes (165 thousand metric tons), up 1 percent from the previous forecast but 19 percent below last season's utilized crop. Harvest remains active in Florida, Arizona, and California. Fruit size in California appears to be large with good quality. The California crop may have suffered some freeze damage in late December but the extent of damage can not be assessed at this time.

The Florida forecast is 2.20 million boxes, unchanged from December 1, but 6 percent below 1986-87. The forecast for all Florida tangerines includes Robinson, Dancy, and Honey tangerines. The California crop forecast remains at 1.50 million boxes but is down 33 percent from last season. The Arizona crop forecast is 550 thousand boxes, 21 percent below 1986-87.

TEMPLES: The Florida forecast is 3.40 million boxes (139 thousand metric tons), unchanged from both December 1 and last season. Harvest is just starting.

FLORIDA CITRUS: Florida's citrus trees and groves are in very good to excellent condition. Rainfall during December has been minimal with some caretakers irrigating, however, cautiously to avoid generating new growth which would be vulnerable to frost or freezing temperatures, should either arrive. Temperatures during most of December were above normal with a few daytime highs reaching into the 80's. Cooler weather the last of the month has been beneficial by retarding new growth. Harvest of early oranges increased rapidly during December as all processing plants were open and running field-run fruit. Both fresh and processed usage of grapefruit continued active in all areas of the Citrus Belt. There was increasing movement of Orlando tangelos and Dancy tangerines for the Christmas holiday fresh trade. Caretakers were very active this month clean cultivating groves and placing trunk wraps on young trees for the winter season.

TEXAS CITRUS: Harvest is showing a seasonal lull; however demand remains good. Quality continued to be good. The Rio Grande Valley has escaped any severe cold weather so far this year. Grapefruit harvest is slightly less than half complete with early and mid-season oranges winding down at about three fourths harvested. Harvest of Valencias is expected to begin soon.

PAPAYA: Hawaii fresh papaya production is forecast at 5.00 million pounds (2270 metric tons) for January, 14 percent more than January 1987. Output of 3.30 million pounds (1500 metric tons) is anticipated for February followed by a further drop to 2.50 million pounds (1130 metric tons) in March. An upswing is expected to push April production to 4.40 million pounds (2000 metric tons).

Fresh utilization in December is estimated at 5.71 million pounds (2590 metric tons), 1 percent lower than November but 29 percent higher than December 1986. Annual fresh sales for 1987 totaled 56.1 million pounds (25.5 thousand metric tons), 12 percent more than the total in calendar year 1986. Heavy rainfall occurring at mid-December and again at year's end, slowed harvesting operations and delayed spraying for disease control in many orchards. Tree losses due to wind or phytophthora root rot were considered minimal. Seasonally cool temperatures slowed fruit development and are expected to continue affecting orchards in this manner for several months. Crop area in December 1987 totaled 4135 acres (1670 hectares), 1 percent higher than November and 5 percent more than December a year ago. Area harvested, at 2470 acres (1000 hectares), was 1 percent higher than last month and 9 percent greater than December a year ago.

HAY STOCKS ON FARMS: Hay stocks on farms December 1, 1987 totaled 120 million tons (109 million metric tons), down 2 percent from December 1, 1986. The lower stocks level reflects the decline in production from 1986.

POTATOES: Winter potato production for 1988 is forecast at 2.75 million cwt (125 thousand metric tons), up 10 percent from last year but down 8 percent from 1986. Harvested area is projected at 12.3 thousand acres (4980 hectares), up 5 percent from 1987 but the same as 1986. The average yield is forecast at 223 cwt per acre, up 4 percent from a year ago.

California area for harvest totals 5200 acres, 13 percent above 1987. Better yield prospects this year plus the larger acreage for harvest gives a potential production 23 percent above 1987.

Florida acreage for harvest, yield, and production are expected to be the same as last year. Planting was completed in early January. Tubers on early planted acreage have been sizing well and harvest is expected to get underway in late January.

SPRING POTATO FINAL: Production in 1987 was estimated at 17.7 million cwt, (804 thousand metric tons), down 11 percent from 1986 and 23 percent below 1985. Harvested area covered 80.7 thousand acres (32.7 thousand hectares), up 6 percent from 1986 but 7 percent below two years ago. Yield averaged 220 cwt per acre, 16 percent below 1986 and 17 percent less than 1985.

