Size frequency distributions are from the October size survey conducted in sample groves during the period of October 7 through 25, 1996. The distributions are by percent from fruit within the size range of each 4/5 bushel container. These percents relate only to fruit from spring bloom and exclude summer bloom fruit in all seasons.

FLORIDA CITRUS: Size frequency distributions from October measurements

Type of fruit and size in 4/5-bushel containers	1994	1995	1996
	- - - Percent - - -		
Early and midseason oranges: (excluding Navels)			
64 and larger	4.1	2.1	1.2
80	15.1	12.0	9.5
100	38.3	39.2	30.6
125	31.1	34.5	37.6
163 and smaller	11.4	12.2	21.1
Navel oranges:			
64 and larger	62.2	65.9	51.0
80	28.3	26.0	32.7
100	8.3	7.2	13.3
125	1.0	0.8	2.5
163 and smaller	0.2	0.1	0.5
White seedless grapefruit:			
32 and larger	13.1	19.8	8.6
36	21.0	24.2	17.8
40	21.4	19.5	17.2
48	19.4	16.8	20.1
56	9.9	8.1	13.5
63 and smaller	15.2	11.6	22.8
Colored seedless grapefruit:			
32 and larger	8.2	14.9	5.9
36	17.2	21.3	14.5
40	21.3	20.9	17.8
48	23.3	19.7	20.9
56	12.5	9.7	16.3
63 and smaller	17.5	13.5	24.6
Sunburst tangerines:			
150 and larger	67.0	64.5	33.5
176	14.4	16.5	20.2
210	10.8	12.1	19.7
246	6.1	5.2	14.1
294 and smaller	1.7	1.7	12.5
Dancy tangerines:			
150 and larger	33.7	17.8	12.9
176	18.3	27.5	13.6
210	21.3	19.7	21.2
246	16.7	23.9	22.0
294 and smaller	10.0	11.1	30.3
Honey tangerines:			
150 and larger	54.0	52.8	32.2
176	15.1	18.1	21.8
210	13.7	14.7	22.5
246	7.9	8.1	14.1
294 and smaller	9.3	6.3	9.4
Tangelos:			
80 and larger	41.4	25.7	9.9
100	34.1	34.9	21.8
120	15.6	25.6	27.2
156 and smaller	8.9	13.8	41.1

CHART 1: Early and midseason oranges (excluding Navels) size frequency by diameter from October measurements.

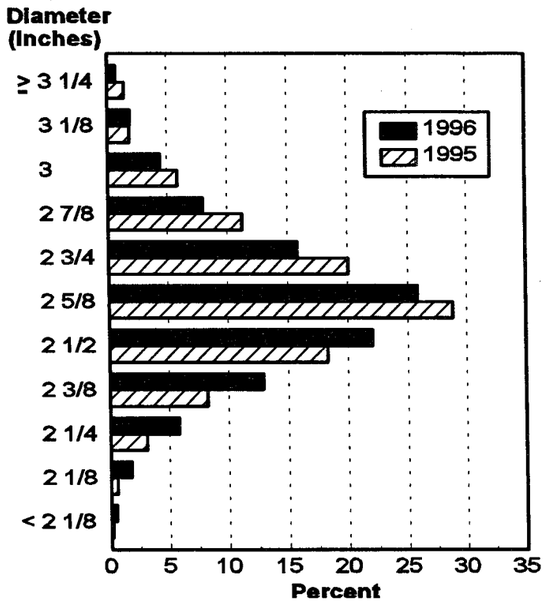
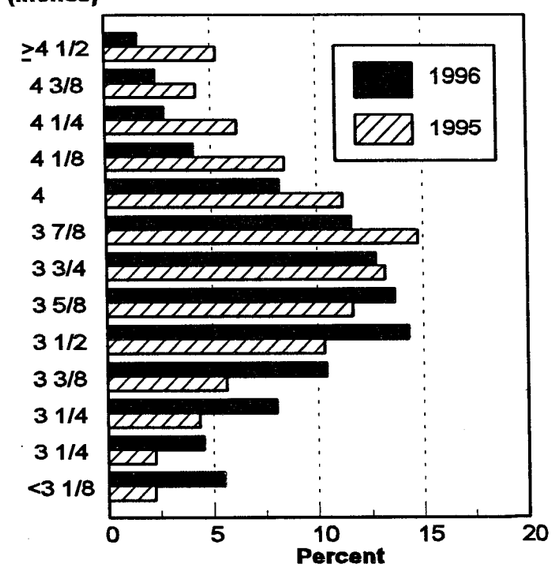


CHART 2: White seedless grapefruit size frequency by diameter from October measurements.



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FLORIDA AGRICULTURE

CITRUS

NOVEMBER FORECAST
MATURITY TEST RESULTS AND FUEL SIZE

November 12, 1996

FORECAST DATES 1996-97 SEASON

December 12, 1996

January 9, 1997

February 12, 1997

March 11, 1997

April 11, 1997

May 12, 1997

June 12, 1997

July 11, 1997

ORANGES 220.0 MILLION BOXES

The October 1 orange forecasts for all States are repeated in this report since no November forecasts are made. During six of the last 10 non-freeze seasons, the Florida October forecast has exceeded the final utilization by an average of 2.6 percent. In the remaining four seasons, the forecast has been below actual utilization by an average of 7.8 percent.

FCOJ YIELD 1.53 GALLONS PER BOX

Since there are no November forecasts or projections, the forecast for FCOJ remains at 1.53 gallons per box at 42.0 degrees Brix equivalent. Maturity test results on fruit collected October 28 and 29 are presented on page 3. All averages are unadjusted as in prior seasons and provide a measure of changes occurring in fruit still on the trees. The tests do not reflect the same levels of maturity as being reported by processors from plant tests or plant recovery rates because the latter relate to fruit that has been harvested.

The final 1995-96 all orange season average FCOJ yield as reported by the Florida Citrus Processors Association was 1.522516 gallons per box. The next FCOJ projection will be released with the box forecasts on December 12.

Citrus production, October 1, 1996
forecasts by varieties and states, with comparisons

Crop and State	Production			Forecast
	1993-94	1994-95	1995-96	1996-97
Early, Midseason, and Navel Oranges:		- - - 1,000 boxes - - -		
FLORIDA	**107,300**	**119,700**	**121,200**	**130,000**
California	36,600	35,000	38,000	37,000
Texas	480	950	830	1,300
Arizona	700	400	700	650
Total Above Varieties	145,080	156,050	160,730	168,950
Valencias:				
FLORIDA	**67,100**	**85,800**	**82,000**	**90,000**
California	27,000	21,000	28,000	26,000
Texas	70	105	110	150
Arizona	1,200	650	950	850
Total Valencias	95,370	107,555	111,060	117,000
All Oranges:				
FLORIDA	**174,400**	**205,500**	**203,200**	**220,000**
California	63,600	56,000	66,000	63,000
Texas	550	1,055	940	1,450
Arizona	1,900	1,050	1,650	1,500
Total All Oranges	240,450	263,605	271,790	285,950

CROP PROGRESS

Most areas of Florida's citrus belt recorded above average rainfall for October, however most of this was during the first half of the month. The last part of the month was generally dry and caretakers were using their irrigation equipment to maintain good tree condition.

New growth slowed the last of October due to the lack of rain and fewer hours of sunlight. Harvesting of early citrus increased during the month. Picking crews have been moving Hamlin, Navel, and Ambersweet oranges, Fallglo and Robinson tangerines, white and colored grapefruit, Satsumas and K-Early citrus fruit. By the end of October, there were approximately 10 to 12 processing plants open and running packing house eliminations.

Caretakers generally were not very busy during October as most grove operations are trying to cut costs. There has been cover crop cutting prior to harvesting and for fire prevention. Also, there is some spraying going on in the fresh fruit groves. A few growers are applying the early winter fertilizers where applicable.

U.S. Department of Agriculture
National Agricultural Statistics Service

Florida Department of Agriculture and Consumer
Division of Marketing and Development

University of Florida
Institute of Food and Agricultural Sciences

FLORIDA CITRUS: Distribution of 1995-96 production and 1996-97 forecast by marketing districts and fruit types

Fruit type	Indian River		Gulf		Florida SunRidge		State total	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
	--- 1,000 BOXES ---							
ORANGES:								
Early & Midseason (Including Navels)	9,800	11,000	25,200	28,500	86,200	90,500	121,200	130,000
Valencia	8,200	12,000	20,000	25,500	53,800	52,500	82,000	90,000
All	18,000	23,000	45,200	54,000	140,000	143,000	203,200	220,000
GRAPEFRUIT:								
White Seedless	13,800	17,000	2,300	2,900	7,100	6,600	23,200	26,500
Colored Seedless	18,900	22,700	5,400	4,700	3,800	4,100	28,100	31,500
Other (Seedy)	100	50	100	50	850	900	1,050	1,000
All	32,800	39,750	7,800	7,650	11,750	11,600	52,350	59,000

Citrus production, October 1, 1996
forecasts by varieties and states, with comparisons

Crop and State	Production			Forecast
	1993-94	1994-95	1995-96	1996-97
	--- 1,000 boxes ---			
Grapefruit:				
FLORIDA-All	**51,050**	**55,700**	**52,350**	**59,000**
Seedless	**50,000**	**54,400**	**51,300**	**58,000**
White	**24,500**	**25,700**	**23,200**	**26,500**
Colored	**25,500**	**28,700**	**28,100**	**31,500**
Seedy (Other)	**1,050**	**1,300**	**1,050**	**1,000**
Texas	3,000	4,650	4,550	5,700
Arizona	1,750	1,400	1,200	1,100
California	9,300	9,300	8,100	8,000
Total Grapefruit	65,100	71,050	66,200	73,800
Lemons:				
California	20,700	20,000	21,000	22,000
Arizona	5,200	3,600	5,100	4,700
Total Lemons	25,900	23,600	26,100	26,700
Limes: **Florida**	**200**	**230**	**300**	**375**
Temples: **Florida**	**2,250**	**2,550**	**2,150**	**2,500**
Tangelos: **Florida**	**3,350**	**3,150**	**2,450**	**3,800**
K-Early: **Florida**	**210**	**120**	**160**	**200**
Tangerines:				
FLORIDA-All	**4,100**	**3,550**	**4,500**	**6,000**
Early [1]	**2,370**	**2,350**	**2,900**	**4,400**
Honey	**1,730**	**1,200**	**1,600**	**1,600**
California	2,300	2,500	2,600	2,600
Arizona	1,000	650	1,000	850
Total Tangerines	7,400	6,700	8,100	9,450

[1] Robinson, Fallglo, Sunburst, and Dancy.

ESTIMATE OF PRODUCTION BY MARKETING DISTRICTS

The production forecasts made in October for Florida oranges and grapefruit have been divided between marketing districts for this report. These are shown in the table above with the 1995-96 production for comparison.

MATURITY TEST RESULTS

The maturity test results reported on page 3 are from fruit collected October 28-29 and tested October 30 thru November 1. These samples were collected from the same trees as the October 1 survey and reflect maturity levels for unharvested fruit.

The next maturity tests and FCOJ projection will be released with the crop forecast December 12 at 8:30 a.m.

Weather during October was variable with adequate moisture the first part of the month and dry the last two weeks. Growers and caretakers have been irrigating with all types of equipment to maintain good tree condition.

Unadjusted maturity tests: Average of regular bloom fruit from sample groves, 1995-96 and 1996-97 seasons

Fruit type (No. groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97	1995-96	1996-97
	Percent		Percent				Pounds		Pounds	
	Juice and solids per box are unadjusted and not comparable to plant test results.									
ORANGES:										
Early (117-120)										
Oct 1	1.03	1.14	9.28	9.85	9.26	8.84	50.48	48.14	4.68	4.74
Nov 1	0.77	0.89	9.84	10.26	13.14	11.80	53.75	50.75	5.29	5.20
Mids (55-55)										
Oct 1	1.24	1.40	9.20	9.76	7.59	7.07	51.82	48.95	4.77	4.78
Nov 1	0.93	1.12	9.90	10.21	10.83	9.34	55.72	52.44	5.52	5.35
Late (150-150)										
Oct 1	2.39	2.40	8.60	8.93	3.65	3.76	47.68	46.08	4.10	4.11
Nov 1	1.77	1.98	8.68	9.33	5.00	4.78	52.66	49.71	4.58	4.64
GRAPEFRUIT:										
Seedless										
White (45-49)										
Oct 1	1.57	1.64	9.65	10.39	6.20	6.35	36.85	37.79	3.55	3.92
Nov 1	1.34	1.45	9.49	10.11	7.12	6.99	40.83	40.62	3.87	4.11
Colored (39-40)										
Oct 1	1.48	1.58	9.59	10.42	6.55	6.67	36.82	38.19	3.53	3.97
Nov 1	1.24	1.37	9.56	10.06	7.76	7.37	41.82	41.71	4.00	4.19

NOTICE: All samples were run through an FMC 091 machine using mechanical pressure only. This machine utilizes a .040 short strainer and standard 5/8-inch orifice tube. The beam settings are also identical to past tests and no restrictors are used.

Maturity test averages by areas, November 1, 1996

Fruit type	Groves sampled	Acid	Solids (Brix)	Ratio	Unfinished juice per box	Solids per box
ORANGES:	Number	Percent	Percent		Pounds	Pounds
Early						
Indian River Dist.	11	0.85	10.60	12.51	50.60	5.35
Other Areas	109	0.89	10.23	11.73	50.77	5.19
Midseason						
Indian River Dist.	11	1.17	10.50	9.07	52.13	5.46
Other Areas	44	1.10	10.14	9.41	52.52	5.33
Late						
Indian River Dist.	25	2.07	9.67	4.75	50.27	4.85
Other Areas	125	1.97	9.26	4.79	49.60	4.59
GRAPEFRUIT:						
White Seedless						
Indian River Dist.	35	1.46	10.24	7.02	40.35	4.13
Other Areas	14	1.42	9.80	6.92	41.30	4.04
Colored Seedless						
Indian River Dist.	33	1.39	10.12	7.33	41.62	4.21
Other areas	7	1.30	9.82	7.57	42.16	4.13