



# CITRUS NOVEMBER FORECAST MATURITY TEST RESULTS AND FRUIT SIZE

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## ALL ORANGES 168.0 MILLION BOXES

The Florida all orange forecast remains at 168.0 million boxes. No changes are made to the forecast in November. The forecast includes 81.0 million boxes of early-midseason-Navel oranges (including Temples) and 87.0 million boxes of late season Valencia oranges.

This season, 59.6 million orange trees, a decrease of 6.4 percent from last year are used to expand fruit counts and measurements. The average fruit per tree on early-midseason oranges (excluding Navels) is 52 percent higher than last season, and on Valencias is 59 percent higher. Fruit sizes are considerably smaller than last season on all orange varieties.

## WEATHER AND FIELD CONDITIONS

Weather conditions were very dry going into the fall months of the season, with cumulative rainfall well below average. During October many areas showed increases in precipitation. The East Coast and the West Coast recorded the most rainfall at over six inches for the month. The Central and Southern citrus growing areas averaged between two and five inches for the month. Growers with deficit rainfall amounts are irrigating on a regular basis to maintain high surface soil moisture levels.

**CITRUS PRODUCTION: OCTOBER 1, 2007**  
Forecasts by varieties and states, with comparisons

Crop and State	Production			Forecast
	2004-05	2005-06	2006-07	2007-08
--- 1,000 boxes ---				
<b>EARLY, MIDSEASON, AND NAVAL ORANGES:</b>				
<b>FLORIDA<sup>1/</sup></b>	<b>79,100</b>	<b>75,000</b>	<b>65,600</b>	<b>81,000</b>
California	44,000	47,000	34,000	43,000
Texas	1,500	1,400	1,600	1,450
Arizona	240	250	200	200
Total Above Varieties	124,840	123,650	101,400	125,650
<b>VALENCIAS:</b>				
<b>FLORIDA</b>	<b>70,700</b>	<b>72,700</b>	<b>63,400</b>	<b>87,000</b>
California	20,500	14,000	11,000	15,000
Texas	270	200	380	350
Arizona	190	200	100	100
Total Valencias	91,660	87,100	74,880	102,450
<b>ALL ORANGES:</b>				
<b>FLORIDA</b>	<b>149,800</b>	<b>147,700</b>	<b>129,000</b>	<b>168,000</b>
California	64,500	61,000	45,000	58,000
Texas	1,770	1,600	1,980	1,800
Arizona	430	450	300	300
Total All Oranges	216,500	210,750	176,280	228,100

<sup>1/</sup> Includes Temples beginning in 2006-07. Historic Temple production listed on page 2.

## FORECAST DATES — 2007-08 SEASON

December 11, 2007	April 9, 2008
January 11, 2008	May 9, 2008
February 8, 2008	June 10, 2008
March 11, 2008	July 11, 2008

Most trees in well cared for groves are in good condition. Limited grove activity includes fertilizing, spraying, herbiciding, and cleaning groves in preparation for harvest. Citrus greening disease has been an issue on the forefront of the many concerns in the citrus industry. Growers, caretakers and workers are attending seminars on ways to deal with the problem. Steps are being put into place to both control the problem and eliminate future damage.

## CROP PROGRESS

At the beginning of November, only two processing plants were open, primarily for eliminations. More processing plants will be opening in the next few weeks to receive field run fruit. Over half of the major packinghouses have opened and began running early variety fruit. Harvested varieties include Fallglo tangerines; early, Ambersweet, and Navel oranges; grapefruit; and tangelos.

Grapefruit harvest started off slowly due to high acids and late maturity. Packinghouse eliminations picked early in the season that were not suitable for processing were taken to cattle pastures. Increased maturity levels in October allowed for more harvesting of fresh fruit and some processed fruit. Both white and colored varieties are picked primarily for the fresh market.

## FCOJ YIELD 1.60 GALLONS PER BOX

With no November forecasts or projections, the forecast for FCOJ yield remains at 1.60 gallons per box of 42° Brix concentrate. The average final yield over the last 10 seasons is 1.59 gallons per box. Last season's final yield was a record high 1.64668 gallons per box.

**FLORIDA CITRUS: Distribution of 2006-07 production and 2007-08 forecast  
by marketing districts and fruit types**

Fruit type	Indian River		Gulf		Florida SunRidge		State	
	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08
--- 1,000 boxes ---								
<b>ORANGES:</b>								
Early-midseason-Navel <sup>1/</sup>	3,000	4,100	13,900	17,700	48,700	59,200	65,600	81,000
Valencia	4,500	6,300	20,000	21,900	38,900	58,800	63,400	87,000
<b>Total Oranges</b>	<b>7,500</b>	<b>10,400</b>	<b>33,900</b>	<b>39,600</b>	<b>87,600</b>	<b>118,000</b>	<b>129,000</b>	<b>168,000</b>
<b>GRAPEFRUIT:</b>								
White	6,700	7,000	700	600	1,900	1,400	9,300	9,000
Colored	12,800	10,900	1,800	2,200	3,300	2,900	17,900	16,000
<b>Total Grapefruit</b>	<b>19,500</b>	<b>17,900</b>	<b>2,500</b>	<b>2,800</b>	<b>5,200</b>	<b>4,300</b>	<b>27,200</b>	<b>25,000</b>

<sup>1/</sup> Includes Temples.

**CITRUS PRODUCTION: October 1, 2007  
forecasts by varieties and states, with comparisons**

Crop and State	Production			Forecast
	2004-05	2005-06	2006-07	2007-08
--- 1,000 boxes ---				
<b>GRAPEFRUIT:</b>				
<b>FLORIDA-All</b>	<b>12,800</b>	<b>19,300</b>	<b>27,200</b>	<b>25,000</b>
<b>White</b>	<b>3,400</b>	<b>6,500</b>	<b>9,300</b>	<b>9,000</b>
<b>Colored</b>	<b>9,400</b>	<b>12,800</b>	<b>17,900</b>	<b>16,000</b>
California	6,100	6,000	4,000	4,500
Texas	6,600	5,200	7,100	6,800
Arizona	140	100	100	200
<b>Total Grapefruit</b>	<b>25,640</b>	<b>30,600</b>	<b>38,400</b>	<b>36,500</b>
<b>LEMONS:</b>				
California	20,500	22,000	16,000	16,500
Arizona	2,400	3,800	2,500	1,500
<b>Total Lemons</b>	<b>22,900</b>	<b>25,800</b>	<b>18,500</b>	<b>18,000</b>
Temples: <b>Florida</b>	<b>650</b>	<b>700</b>	<sup>1/</sup>	<sup>1/</sup>
Tangelos: <b>Florida</b>	<b>1,550</b>	<b>1,400</b>	<b>1,250</b>	<b>1,300</b>
<b>TANGERINES:</b>				
<b>FLORIDA-All</b>	<b>4,450</b>	<b>5,500</b>	<b>4,600</b>	<b>5,100</b>
<b>Early</b> <sup>2/</sup>	<b>2,450</b>	<b>2,850</b>	<b>2,400</b>	<b>2,600</b>
<b>Honey</b>	<b>2,000</b>	<b>2,650</b>	<b>2,200</b>	<b>2,500</b>
California <sup>3/</sup>	2,900	3,600	2,900	4,700
Arizona <sup>3/</sup>	400	550	300	400
<b>Total Tangerines</b>	<b>7,750</b>	<b>9,650</b>	<b>7,800</b>	<b>10,200</b>

<sup>1/</sup> Included in early-midseason-Navel oranges.

<sup>2/</sup> Fallglo and Sunburst varieties.

<sup>3/</sup> Includes tangelos and tangors.

**ESTIMATES OF PRODUCTION  
BY MARKETING DISTRICTS**

Production forecasts for Florida oranges and grapefruit have been divided among marketing districts for this report. Comparisons (in the table above) are shown to the 2006-07 production. Marketing District II is the legally defined Indian River District along the East Coast. Marketing District III (Gulf) includes the counties of Charlotte, Collier, Glades, Hendry, and Lee. Marketing District I - the Florida SunRidge - includes all other citrus producing counties.

**MATURITY TEST RESULTS**

The maturity test results reported on page three are from fruit collected October 29-30 and tested October 31 and November 1-2. Samples were collected from the same trees as in the previous two surveys and reflect maturity levels for unharvested fruit.

Acid levels are lower than last season on all orange varieties, while solids (Brix) are lower on early and late oranges. The result is higher ratios on early and midseason oranges this season, while the ratio on Valencias is running behind last season. Compared to last season, acids and solids (Brix) are lower on both white and colored grapefruit, resulting in higher ratios on both.

Juice levels are higher this season on early and late oranges but slightly lower on midseason oranges. Solids per box is higher this season on early oranges, lower on late oranges, and equal to last year on midseason oranges. White and colored grapefruit juice levels and solids are lower than last season.

**UNADJUSTED MATURITY TESTS: Average of regular bloom fruit from sample groves, 2006-07 and 2007-08 seasons**

Fruit type (No. groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08
	<i>Percent</i>		<i>Percent</i>				<i>Pounds</i>		<i>Pounds</i>	
<i>Juice and solids per box are unadjusted and not comparable to plant test results.</i>										
<b>ORANGES:</b>										
Early (119-120)										
Sep 1	1.70	1.75	9.44	9.45	5.66	5.51	42.47	40.93	4.00	3.86
Oct 1	1.15	1.25	9.58	10.28	8.48	8.39	48.81	45.93	4.68	4.72
Nov 1	0.92	0.87	10.34	10.21	11.50	11.92	49.98	50.98	5.17	5.20
Mid (54-55)										
Sep 1	1.81	1.99	9.29	9.63	5.25	4.91	43.06	41.52	4.00	4.00
Oct 1	1.28	1.49	9.52	9.62	7.62	6.58	50.03	46.19	4.76	4.44
Nov 1	1.03	1.00	10.29	10.30	10.27	10.51	50.74	50.72	5.22	5.22
Late (150-149)										
Sep 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oct 1	2.50	2.62	8.91	9.47	3.59	3.66	45.75	43.86	4.08	4.15
Nov 1	2.02	1.95	9.82	9.27	4.94	4.82	48.78	48.85	4.79	4.53
<b>GRAPEFRUIT:</b>										
White Seedless (49-50)										
Sep 1	1.86	1.94	10.50	10.17	5.65	5.30	32.12	30.64	3.37	3.11
Oct 1	1.59	1.64	10.45	10.12	6.58	6.19	37.32	35.58	3.90	3.59
Nov 1	1.57	1.41	10.73	9.98	6.85	7.13	41.57	41.26	4.45	4.11
Colored Seedless (48-49)										
Sep 1	1.86	1.96	10.46	10.53	5.65	5.40	31.89	30.54	3.33	3.21
Oct 1	1.55	1.67	10.49	10.56	6.77	6.35	38.64	35.41	4.05	3.74
Nov 1	1.54	1.40	11.29	10.43	7.37	7.49	42.65	41.73	4.82	4.35

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, 2007**

Fruit type	Groves sampled	Acid	Solids (Brix)	Ratio	Unfinished juice per box	Solids per box
	<i>Number</i>	<i>Percent</i>	<i>Percent</i>		<i>Pounds</i>	<i>Pounds</i>
<b>ORANGES:</b>						
EARLY						
Indian River	9	0.87	10.01	11.77	52.22	5.23
Other Areas	111	0.87	10.22	11.93	50.88	5.20
MIDSEASON						
Indian River	11	1.01	10.22	10.18	50.70	5.17
Other Areas	44	1.00	10.32	10.59	50.73	5.24
LATE						
Indian River	25	2.06	9.20	4.51	49.30	4.53
Other Areas	124	1.93	9.29	4.88	48.75	4.53
<b>GRAPEFRUIT:</b>						
WHITE SEEDLESS						
Indian River	38	1.44	10.02	6.98	40.86	4.09
Other Areas	12	1.30	9.86	7.62	42.53	4.18
COLORED SEEDLESS						
Indian River	39	1.43	10.40	7.31	41.36	4.30
Other Areas	10	1.29	10.54	8.21	43.20	4.54

## FRUIT SIZE COMPARISONS BY TYPES TO PREVIOUS SEASONS

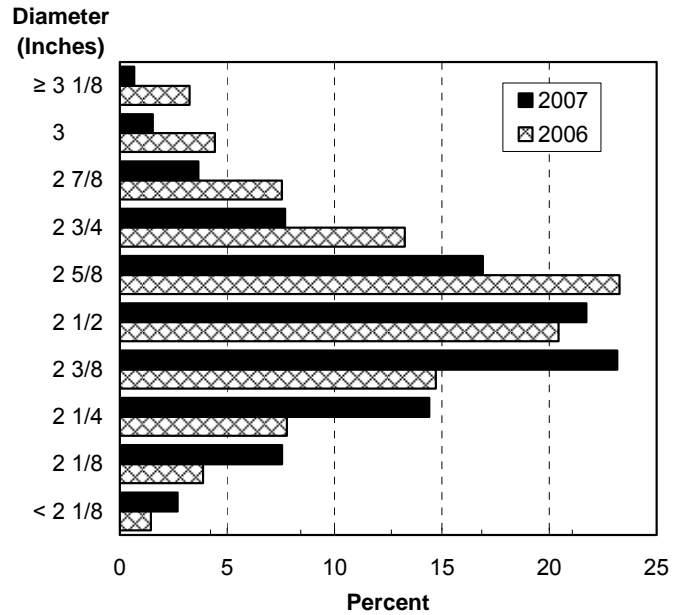
Size frequency distributions developed from the October size survey are shown in the following table. The distributions are by percent of fruit falling within the size range of each 4/5-bushel container. These frequency distributions relate to fruit from regular bloom and exclude summer bloom in all years.

### FLORIDA CITRUS: Size frequency distributions from October measurements

Type of fruit and size in 4/5-bushel containers	2005	2006	2007
--- Percent ---			
<b>EARLY AND MIDSEASON ORANGES: (excluding Navels)</b>			
64 and larger	0.2	2.1	0.4
80	1.6	9.0	3.3
100	9.6	27.2	16.1
125	28.0	33.9	32.4
163 and smaller	60.6	27.8	47.8
<b>NAVEL ORANGES:</b>			
64 and larger	31.8	60.4	43.1
80	38.2	28.4	35.9
100	24.4	9.0	15.0
125	4.3	1.7	5.0
163 and smaller	1.3	0.5	1.0
<b>VALENCIA ORANGES:</b>			
64 and larger	0.2	0.6	0.3
80	1.7	6.9	3.2
100	12.3	27.9	16.9
125	33.7	35.1	33.0
163 and smaller	52.1	29.5	46.6
<b>WHITE SEEDLESS GRAPEFRUIT:</b>			
32 and larger	9.6	3.6	3.2
36	12.3	11.1	8.2
40	20.3	21.5	13.4
48	17.0	21.1	19.6
56	14.2	16.3	15.8
63 and smaller	26.6	26.4	39.8
<b>COLORED SEEDLESS GRAPEFRUIT:</b>			
32 and larger	9.0	2.6	1.9
36	7.4	8.3	5.1
40	18.2	16.6	9.4
48	18.7	20.1	17.1
56	15.3	17.1	12.8
63 and smaller	31.4	35.3	53.7
<b>FALLGLO TANGERINES:</b>			
80 and larger	51.7	46.6	37.5
100	20.0	18.3	32.5
120	23.3	26.7	25.0
176	3.3	1.7	5.0
210 and smaller	1.7	6.7	0.0
<b>SUNBURST TANGERINES:</b>			
80 and larger	2.5	2.6	1.4
100 and larger	3.6	17.6	7.7
120	15.5	21.1	20.9
176	16.1	18.9	19.8
210 and smaller	62.3	39.8	50.2
<b>TANGELOS:</b>			
80 and larger	2.7	14.8	10.2
100	16.1	27.9	17.7
120	27.3	29.4	24.2
156 and smaller	53.9	27.9	47.9

The charts below describe the relationships of the fruit size measurements with those taken in the previous year. The diameter measurements shown are the minimum values of each eight inch range, except for the smallest values.

**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**

