



# CITRUS NOVEMBER FORECAST

## MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture & Consumer Services  
2290 Lucien Way, Suite 300, Maitland, FL 32751  
(407) 648-6013 · (407) 648-6029 FAX · [www.nass.usda.gov/fl](http://www.nass.usda.gov/fl)

November 10, 2009

### All Oranges 136.0 Million Boxes

The Florida all orange forecast remains at 136.0 million boxes. Traditionally, no changes are made to the forecast in the month of November. The forecast consists of 67.0 million boxes of the late maturing Valencia oranges and 69.0 million boxes of the non-Valencia oranges (early, midseason, Navel, and Temple varieties).

For the 2009-2010 season, the number of bearing trees is estimated to be 59.4 million, down 2 percent from last season. The average fruit per tree is down 19 percent from the revised 2008-2009 figure for all oranges. Decreases in fruit per tree ranged from 17 percent for Valencia oranges to 24 percent for Navels. Projected sizes are larger for all orange varieties except the Navels.

### Weather and Field Conditions

In mid-March, the start of the 2009-2010 citrus crop season began with a full citrus bloom. Weather conditions during the bloom period and early into the growing season were characterized by drought conditions and warm temperatures. Irrigation and fertilizers were used by growers to enhance fruit set and development. Typical seasonal weather patterns returned in late May and into the harvest season, providing excellent

### Orange Production by Type and State — United States: 2006-2007, 2007-2008, 2008-2009, and Forecasted October 1, 2009

Crop and State	Production			Forecast
	2006-2007 (1,000 boxes)	2007-2008 (1,000 boxes)	2008-2009 (1,000 boxes)	2009-2010 (1,000 boxes)
<b>NON-VALENCIA ORANGES<sup>1</sup></b>				
<b>Florida</b>	<b>65,600</b>	<b>83,500</b>	<b>84,600</b>	<b>69,000</b>
California	34,500	45,000	34,500	40,000
Texas	1,600	1,600	1,300	1,250
Arizona <sup>2</sup>	200	230	150	
United States	101,900	130,330	120,550	110,250
<b>VALENCIA ORANGES</b>				
<b>Florida</b>	<b>63,400</b>	<b>86,700</b>	<b>77,800</b>	<b>67,000</b>
California	11,500	17,000	14,000	15,000
Texas	380	196	159	200
Arizona <sup>2</sup>	100	150	100	
United States	75,380	104,046	92,059	82,200
<b>ALL ORANGES</b>				
<b>Florida</b>	<b>129,000</b>	<b>170,200</b>	<b>162,400</b>	<b>136,000</b>
California	46,000	62,000	48,500	55,000
Texas	1,980	1,796	1,549	1,450
Arizona <sup>2</sup>	300	380	250	
United States	177,280	234,376	212,609	192,450

<sup>1</sup> Early, midseason, Navel, and Temple varieties.

<sup>2</sup> Estimates discontinued beginning with the 2009-2010 crop year.

### FORECAST DATES — 2009-2010 SEASON

December 10, 2009	April 9, 2010
January 12, 2010	May 11, 2010
February 10, 2010	June 11, 2010
March 10, 2010	July 9, 2010

growth opportunities for the citrus fruit. Current grove activities include harvesting, fertilizing, spraying and herbiciding. Growers continue to remove infected trees showing symptoms of the canker and greening diseases.

An abandoned citrus grove survey was conducted in combination with the latest tree inventory. The results, published on September 18, 2009, showed an increase of 6 percent of abandoned acreage from 2008.

### Crop Progress

At the beginning of November, nearly 40 packinghouses were open and shipping fruit with a few remaining to open. Varieties being packed include early oranges (Navels, Ambersweet, and Hamlin), white and colored grapefruit, and early tangerines (Fallglo and Sunburst). Seven processors have opened and are accepting fruit.

### FCOJ Yield 1.63 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) is unchanged at 1.63 gallons per box of 42° Brix concentrate. Last season's final all orange yield was 1.664452 gallons per box, down slightly from the record of 1.672737 set in 2007-2008. Figures for the components will be published in January. Record yields are 1.597195 gallons per box for the early-midseason category (set last season) and 1.790343 gallons per box for Valencias which occurred in 2007-2008.

**Citrus Distribution and Prorated Forecast, by Marketing Districts and Fruit Types — Florida: 2008-2009 and 2009-2010**

Fruit type	Indian River		Gulf		Florida SunRidge		State	
	2008-2009	2009-2010	2008-2009	2009-2010	2008-2009	2009-2010	2008-2009	2009-2010
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
<b>ORANGES</b>								
Non-Valencia <sup>1</sup>	4,300	2,500	16,100	14,200	64,200	52,300	84,600	69,000
Valencia	5,400	4,500	22,500	17,100	49,900	45,400	77,800	67,000
Total Oranges	9,700	7,000	38,600	31,300	114,100	97,700	162,400	136,000
<b>GRAPEFRUIT</b>								
White	4,500	4,300	300	300	1,800	1,200	6,600	5,800
Colored	10,100	9,900	1,800	1,600	3,200	2,500	15,100	14,000
Total Grapefruit	14,600	14,200	2,100	1,900	5,000	3,700	21,700	19,800

<sup>1</sup> Early, midseason, Navel, and Temple varieties.

**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 2008-2009 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 (Florida SunRidge) includes all other citrus-producing counties.

**Citrus Production by Type and State — United States: 2006-2007, 2007-2008, 2008-2009, and Forecasted October 1, 2009**

Crop and State	Production			Forecast
	2006-2007	2007-2008	2008-2009	2009-2010
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
<b>GRAPEFRUIT</b>				
<b>Florida-All</b>	<b>27,200</b>	<b>26,600</b>	<b>21,700</b>	<b>19,800</b>
<b>White</b>	<b>9,300</b>	<b>9,000</b>	<b>6,600</b>	<b>5,800</b>
<b>Colored</b>	<b>17,900</b>	<b>17,600</b>	<b>15,100</b>	<b>14,000</b>
California	5,500	5,200	5,600	4,700
Texas	7,100	6,000	5,500	5,300
Arizona <sup>1</sup>	100	100	25	
United States	39,900	37,900	32,825	29,800
<b>LEMONS</b>				
California	18,500	14,800	22,000	20,000
Arizona	2,500	1,500	3,000	2,500
United States	21,000	16,300	25,000	22,500
<b>TANGELOS</b>				
<b>Florida</b>	<b>1,250</b>	<b>1,500</b>	<b>1,150</b>	<b>1,000</b>
<b>TANGERINES</b>				
<b>Florida-All</b>	<b>4,600</b>	<b>5,500</b>	<b>3,850</b>	<b>4,900</b>
<b>Early<sup>2</sup></b>	<b>2,400</b>	<b>2,600</b>	<b>2,550</b>	<b>2,600</b>
<b>Honey</b>	<b>2,200</b>	<b>2,900</b>	<b>1,300</b>	<b>2,300</b>
California <sup>3</sup>	3,500	6,700	6,700	7,000
Arizona <sup>3</sup>	300	400	250	350
United States	8,400	12,600	10,800	12,250

<sup>1</sup> Estimates discontinued beginning with the 2009-2010 crop year.

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

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

**Maturity Test Results**

The maturity test results reported on page three are from fruit collected October 26-27 and tested on October 28-30. Samples collected were from the same trees as in the previous surveys. The chart on the top of the page shows a 3-month historical comparison between this season's remaining samples and last season's remaining samples. The chart on the bottom of the page shows this month's samples only, and separates the Indian River and all other areas.

Acid levels are higher than last season for early and midseason oranges, resulting in lower ratios for both varieties. Compared to last season, white and colored seedless grapefruit have lower acid and higher solids (Brix), resulting in higher ratios.

Unfinished juice per box levels and solids per box are lower this season on all orange varieties, and higher on both grapefruit varieties.

### Citrus Unadjusted Maturity Tests — Florida: 2008-2009 and 2009-2010

[Averages of regular bloom fruit from sample groves. Juice and solids per box are unadjusted and not comparable to juice processing plant test results. 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.]

Fruit type (number of groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2008-2009 (percent)	2009-2010 (percent)	2008-2009 (percent)	2009-2010 (percent)	2008-2009	2009-2010	2008-2009 (pounds)	2009-2010 (pounds)	2008-2009 (pounds)	2009-2010 (pounds)
<b>ORANGES</b>										
Early (120-120)										
Sep 1	1.45	1.54	9.25	9.25	6.51	6.11	46.91	42.04	4.34	3.89
Oct 1	1.07	1.14	9.63	9.31	9.14	8.34	48.90	46.11	4.71	4.29
Nov 1	0.82	0.85	10.24	10.29	12.67	12.34	52.63	49.61	5.38	5.10
Mid (55-55)										
Sep 1	1.66	1.72	9.00	9.23	5.49	5.45	45.09	42.79	4.06	3.95
Oct 1	1.29	1.31	9.41	9.24	7.47	7.23	50.76	47.16	4.78	4.36
Nov 1	0.89	0.98	10.19	10.28	11.63	10.76	53.69	51.14	5.47	5.26
Late (150-150)										
Sep 1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oct 1	2.48	2.41	8.86	8.86	3.62	3.73	47.40	43.46	4.20	3.85
Nov 1	1.86	1.86	9.30	9.32	5.07	5.07	51.82	48.08	4.82	4.48
<b>GRAPEFRUIT</b>										
White Seedless (47-48)										
Sep 1	1.71	1.75	9.56	9.81	5.61	5.60	30.96	31.50	2.96	3.09
Oct 1	1.60	1.54	10.06	9.77	6.35	6.39	36.62	36.52	3.68	3.57
Nov 1	1.43	1.41	10.08	10.46	7.09	7.46	39.67	41.17	4.00	4.31
Colored Seedless (49-49)										
Sep 1	1.70	1.75	9.79	10.06	5.80	5.78	32.56	31.49	3.19	3.17
Oct 1	1.53	1.54	10.12	10.23	6.64	6.69	36.72	36.60	3.71	3.74
Nov 1	1.38	1.36	10.35	10.69	7.55	7.90	41.10	41.72	4.25	4.46

(NA) Not available.

### Citrus Fruit Maturity Test Averages, by Areas — Florida: November 1, 2009

Fruit type	Groves sampled (number)	Acid (percent)	Solids (Brix) (percent)	Ratio	Unfinished juice per box (pounds)	Solids per box (pounds)
<b>ORANGES</b>						
Early						
Indian River	9	0.95	10.78	11.78	46.52	5.00
Other Areas	111	0.84	10.25	12.38	49.86	5.11
Midseason						
Indian River	11	1.12	10.50	9.46	52.57	5.52
Other Areas	44	0.95	10.23	11.08	50.78	5.19
Late						
Indian River	27	1.98	9.57	4.90	48.49	4.64
Other Areas	123	1.84	9.27	5.10	47.98	4.45
<b>GRAPEFRUIT</b>						
White Seedless						
Indian River	38	1.44	10.64	7.42	41.10	4.37
Other Areas	10	1.29	9.79	7.64	41.44	4.05
Colored Seedless						
Indian River	39	1.38	10.80	7.86	41.92	4.53
Other Areas	10	1.28	10.25	8.03	40.95	4.18

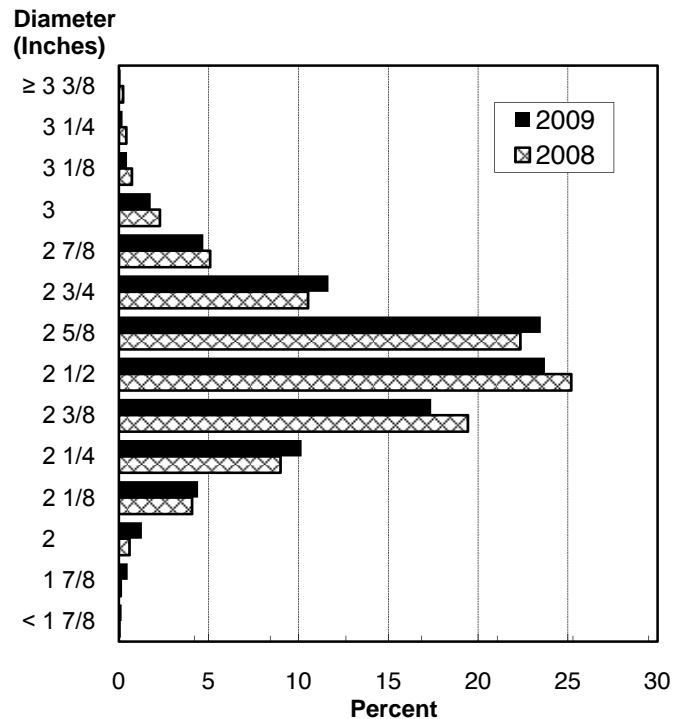
## Fruit Size Comparisons by Types to Previous Seasons

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. 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 eighth inch range, except for the smallest values.

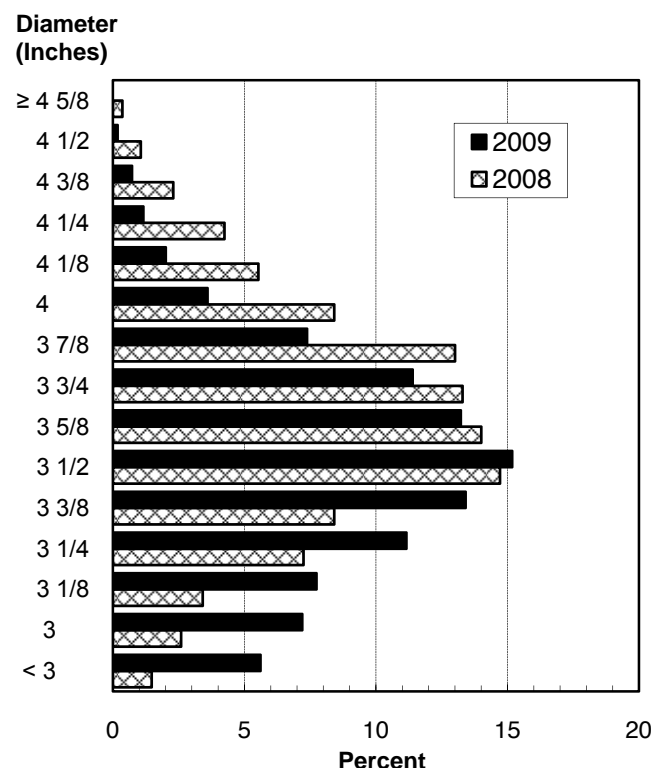
### Citrus Size Frequency Measurement Distributions, by Type — Florida: October

Type and number of fruit per 4/5-bushel containers	2007 (percent)	2008 (percent)	2009 (percent)
<b>EARLY AND MIDSEASON ORANGES<sup>1</sup></b>			
64 or less	0.4	0.9	0.5
80	3.3	4.7	3.9
100	16.1	22.2	23.2
125	32.4	39.0	38.5
163 or more	47.8	33.2	33.9
<b>NAVEL ORANGES</b>			
64 or less	43.1	34.5	36.4
80	35.9	37.0	38.8
100	15.0	22.5	18.1
125	5.0	4.8	5.1
163 or more	1.0	1.2	1.6
<b>VALENCIA ORANGES</b>			
64 or less	0.3	0.4	0.2
80	3.2	5.5	3.2
100	16.9	29.5	23.2
125	33.0	39.0	37.0
163 or more	46.6	25.6	36.4
<b>WHITE SEEDLESS GRAPEFRUIT</b>			
32 or less	3.2	10.1	2.9
36	8.2	19.4	9.1
40	13.4	18.7	14.5
48	19.6	21.6	19.1
56	15.8	10.8	15.9
63 or more	39.8	19.4	38.5
<b>COLORED SEEDLESS GRAPEFRUIT</b>			
32 or less	1.9	6.0	1.3
36	5.1	12.9	4.4
40	9.4	15.8	8.6
48	17.1	20.8	15.3
56	12.8	15.1	14.8
63 or more	53.7	29.4	55.6
<b>FALLGLO TANGERINES</b>			
80 or less	37.5	37.5	46.7
100	32.5	45.0	25.0
120	25.0	15.0	21.6
176	5.0	2.5	5.0
210 or more	-	-	1.7
<b>SUNBURST TANGERINES</b>			
80 or less	1.4	2.1	0.6
100	7.7	14.1	9.2
120	20.9	24.7	22.7
176	19.8	17.9	18.6
210 or more	50.2	41.2	48.9
<b>TANGELOS</b>			
80 or less	10.2	17.4	9.6
100	17.7	30.4	27.6
120	24.2	29.1	29.6
156 or more	47.9	23.1	33.2

### Fruit Size Frequency Measurements, Early and Midseason Oranges, by Diameter — Florida: October [Excludes Navels and Temples]



### Fruit Size Frequency Measurements, White Seedless Grapefruit, by Diameter — Florida: October



- Represents 0.

<sup>1</sup> Excludes Navels and Temples.