



# CITRUS NOVEMBER FORECAST MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture and Consumer Services  
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November 10, 2014

**Florida All Orange Production Unchanged**  
**Florida Non-Valencia Orange Production Unchanged**  
**Florida Valencia Orange Production Unchanged**  
**Florida All Grapefruit Production Unchanged**  
**Florida All Tangerine Production Down 7 percent**  
**Florida Tangelo Production Unchanged**  
**FCOJ Yield Remains 1.60 Gallons per Box (42° Brix)**

FORECAST DATES	-	2014-2015 SEASON
December 10, 2014		April 9, 2015
January 12, 2015		May 12, 2015
February 10, 2015		June 10, 2015
March 10, 2015		July 10, 2015

## Citrus Production by Type and State – United States

Crop and State	Production <sup>1</sup>			2014-2015 Forecasted Production <sup>1</sup>	
	2011-2012 (1,000 boxes)	2012-2013 (1,000 boxes)	2013-2014 (1,000 boxes)	October (1,000 boxes)	November (1,000 boxes)
<b>Non-Valencia Oranges<sup>2</sup></b>					
<b>Florida</b> .....	<b>74,200</b>	<b>67,100</b>	<b>53,300</b>	<b>52,000</b>	<b>52,000</b>
California <sup>3</sup> .....	45,500	42,500	39,000	40,500	40,500
Texas <sup>3</sup> .....	1,108	1,499	1,400	1,627	1,627
United States.....	120,808	111,099	93,700	94,127	94,127
<b>Valencia Oranges</b>					
<b>Florida</b> .....	<b>72,500</b>	<b>66,500</b>	<b>51,300</b>	<b>56,000</b>	<b>56,000</b>
California <sup>3</sup> .....	12,500	12,000	11,000	10,000	10,000
Texas <sup>3</sup> .....	311	289	376	345	345
United States.....	85,311	78,789	62,676	66,345	66,345
<b>All Oranges</b>					
<b>Florida</b> .....	<b>146,700</b>	<b>133,600</b>	<b>104,600</b>	<b>108,000</b>	<b>108,000</b>
California <sup>3</sup> .....	58,000	54,500	50,000	50,500	50,500
Texas <sup>3</sup> .....	1,419	1,788	1,776	1,972	1,972
United States.....	206,119	189,888	156,376	160,472	160,472
<b>Grapefruit</b>					
<b>Florida-All</b> .....	<b>18,850</b>	<b>18,350</b>	<b>15,650</b>	<b>15,000</b>	<b>15,000</b>
<b>White</b> .....	<b>5,350</b>	<b>5,250</b>	<b>4,150</b>	<b>4,000</b>	<b>4,000</b>
<b>Colored</b> .....	<b>13,500</b>	<b>13,100</b>	<b>11,500</b>	<b>11,000</b>	<b>11,000</b>
California <sup>3</sup> .....	4,000	4,500	4,000	4,000	4,000
Texas <sup>3</sup> .....	4,800	6,100	5,700	5,750	5,750
United States.....	27,650	28,950	25,350	24,750	24,750
<b>Lemons<sup>3</sup></b>					
California.....	20,500	21,000	19,000	19,000	19,000
Arizona.....	750	1,800	1,800	2,000	2,000
United States.....	21,250	22,800	20,800	21,000	21,000
<b>Tangelos</b>					
<b>Florida</b> .....	<b>1,150</b>	<b>1,000</b>	<b>880</b>	<b>900</b>	<b>900</b>
<b>Tangerines</b>					
<b>Florida-All</b> .....	<b>4,290</b>	<b>3,280</b>	<b>2,900</b>	<b>2,800</b>	<b>2,600</b>
<b>Early<sup>4</sup></b> .....	<b>2,330</b>	<b>1,910</b>	<b>1,750</b>	<b>1,700</b>	<b>1,500</b>
<b>Honey</b> .....	<b>1,960</b>	<b>1,370</b>	<b>1,150</b>	<b>1,100</b>	<b>1,100</b>
California <sup>3,5</sup> .....	10,800	13,000	14,500	16,000	16,000
Arizona <sup>3,5</sup> .....	200	200	200	220	220
United States.....	15,290	16,480	17,600	19,020	18,820

<sup>1</sup> Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California-80, Florida-85, Texas-80; lemons-80, tangelos-90; tangerines and mandarins in Arizona and California-80, Florida-95.

<sup>2</sup> Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas. Includes small quantities of tangerines in Texas and Temples in Florida.

<sup>3</sup> Estimates carried forward from October.

<sup>4</sup> Fallglo and Sunburst varieties.

<sup>5</sup> Includes tangelos and tangors.

## All Oranges 108.0 Million Boxes

The 2014-2015 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 108.0 million boxes, unchanged from the initial October forecast. If realized, this forecast will be 3 percent more than last season's production. The forecast consists of 52.0 million boxes of the non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 56.0 million boxes of the Valencia oranges. Regression data used are from the 2006-2007 through 2013-2014 seasons. For those previous 8 seasons, the November forecast has deviated from final production by an average of 6 percent, with 7 seasons above and 1 below, with differences ranging from 1 percent below to 20 percent above. All references to "average", "minimum", and "maximum" refer to the previous 8 seasons unless noted.

## Non-Valencia Oranges 52.0 Million Boxes

The forecast of non-Valencia production is unchanged at 52.0 million boxes. Current size is close to the minimum and projected to remain close to the minimum until harvest. Current droppage is above average, and is projected to be closer to the maximum at harvest. The Navel forecast, included in the non-Valencia forecast, is unchanged at 1.5 million boxes. If realized, this utilization will be the lowest in the series which began in 1979-1980. Current Navel size is about average and droppage is close to the maximum.

## Valencia Oranges 56.0 Million Boxes

The forecast of Valencia production is unchanged at 56.0 million boxes. Current fruit size is slightly above the minimum and is projected to be above the minimum at harvest. Current droppage is close to the maximum and projected to be close to the maximum at harvest.

## All Grapefruit 15.0 Million Boxes

The forecast of all grapefruit production remains at 15.0 million boxes. The white grapefruit forecast is unchanged at 4.0 million boxes. The colored grapefruit forecast is unchanged at 11.0 million boxes. Current fruit size of white grapefruit is slightly above the minimum and droppage is above average. Current fruit size of colored grapefruit is also slightly above the minimum and droppage is above average.

## All Tangerines 2.6 Million Boxes

The forecast of all tangerine production is reduced by 200,000 boxes to 2.6 million boxes. The early tangerine forecast (Fallglo and Sunburst) is now 1.5 million boxes, consisting of 450,000 boxes of Fallglo tangerines and 1.05 million boxes of Sunburst tangerines. Harvest of Fallglo tangerines started in mid-September and is projected to go through mid-November, while Sunburst tangerine harvest is just underway. Fallglo final size is well below the minimum in a series beginning with the 1995-1996 season. Fallglo final droppage is above average at 27 percent. Sunburst current size is below the minimum and projected to set a new low record at harvest; droppage is projected to be well above average at 31 percent. The forecast of the later maturing Honey variety remains at 1.1 million boxes. Current Honey size is below average but current droppage is above average.

## Tangelos 900 Thousand Boxes

The forecast of tangelo production is unchanged at 900 thousand boxes. Tangelo projected fruit size is below average requiring 280 pieces of fruit to fill a 1 3/5 bushel box. Droppage is projected above average at 12 percent.

## FCOJ Yield 1.60 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) remains at 1.60 gallons per box of 42° Brix concentrate. Last season's final yield for all oranges was 1.569080 gallons per box, as reported by the Florida Department of Citrus. Yield projections for the early-midseason and late components will be published in January. All projections of yield assume the processing relationships this season will be similar to those of the past several seasons.

## Forecast Components, by Variety — Florida: November 2014

[Survey data is considered final in December for Navels, January for early-midseason oranges, February for grapefruit, and April for Valencias]

Type	Bearing trees (1,000 trees)	Fruit per tree (number)	Droppage (percent)	Fruit per box (number)
<b>ORANGES</b>				
Early-midseason.....	22,707	890	20	284
Navel.....	970	295	24	138
Valencia.....	31,190	624	28	235
<b>GRAPEFRUIT</b>				
White.....	1,199	477	22	117
Colored.....	3,374	445	21	119

## Maturity

Regular bloom fruit samples were collected from groves on established routes in Florida's five major citrus producing areas and tested in the Florida Department of Agriculture and Consumer Services, Division of Marketing and Development, Florida Agricultural Statistics Service (FASS) laboratory October 29-31, 2014. The orange sample size is 325 and the grapefruit sample size is 97. All comparisons are made to November 1, 2013. Acid levels and solids (Brix) are lower on all fruit types. Ratios are higher on midseason oranges, late oranges, and white grapefruit, but lower on early oranges and colored grapefruit. Unfinished juice per box and solids per box are higher on all varieties except late oranges.

### Citrus Unadjusted Maturity Tests — Florida: 2013-2014 and 2014-2015

[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	
	2013-2014	2014-2015	2013-2014	2014-2015	2013-2014	2014-2015	2013-2014	2014-2015	2013-2014	2014-2015
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
<b>ORANGES</b>										
Early (119-120)										
Sep 1.....	1.47	1.38	9.24	9.12	6.41	6.69	42.38	43.72	3.92	3.98
Oct 1.....	(NA)	1.01	(NA)	9.05	(NA)	9.11	(NA)	49.01	(NA)	4.43
Nov 1.....	0.89	0.87	10.04	9.68	11.52	11.28	44.64	51.55	4.48	4.99
Midseason (55-55)										
Sep 1.....	1.69	1.53	9.26	9.10	5.59	6.05	43.30	44.18	4.01	4.02
Oct 1.....	(NA)	1.14	(NA)	9.09	(NA)	8.08	(NA)	49.77	(NA)	4.52
Nov 1.....	1.11	1.01	10.29	9.80	9.53	9.96	45.75	52.25	4.71	5.12
Late (149-150)										
Sep 1.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oct 1.....	(NA)	2.08	(NA)	8.69	(NA)	4.23	(NA)	45.17	(NA)	3.92
Nov 1.....	1.84	1.76	9.26	9.10	5.11	5.22	50.85	50.35	4.71	4.58
<b>GRAPEFRUIT</b>										
White Seedless (49-50)										
Sep 1.....	1.78	1.64	10.08	9.97	5.70	6.11	31.46	34.69	3.17	3.46
Oct 1.....	(NA)	1.47	(NA)	9.76	(NA)	6.68	(NA)	38.25	(NA)	3.73
Nov 1.....	1.54	1.38	10.21	9.72	6.68	7.11	39.49	42.77	4.03	4.16
Colored Seedless (48-47)										
Sep 1.....	1.70	1.64	10.00	9.91	5.91	6.08	33.13	34.87	3.31	3.45
Oct 1.....	(NA)	1.44	(NA)	9.60	(NA)	6.69	(NA)	39.10	(NA)	3.75
Nov 1.....	1.43	1.42	10.17	9.94	7.16	7.05	40.56	42.99	4.12	4.27

(NA) Not available.

### Citrus Maturity Test Averages, by Areas — Florida: November 1, 2013-2014 and 2014-2015

Fruit type (number of groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2013-2014	2014-2015	2013-2014	2014-2015	2013-2014	2014-2015	2013-2014	2014-2015	2013-2014	2014-2015
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
<b>ORANGES</b>										
Early										
Indian River (8-9).....	1.00	0.93	10.14	9.79	10.40	10.93	43.49	50.96	4.41	4.99
Other Areas (111-111)...	0.88	0.87	10.03	9.67	11.60	11.31	44.72	51.60	4.48	4.99
Midseason										
Indian River (11-11).....	1.16	1.06	10.33	9.79	9.24	9.34	45.02	50.73	4.64	4.96
Other Areas (44-44).....	1.09	1.00	10.28	9.81	9.60	10.11	45.93	52.63	4.73	5.16
Late										
Indian River (29-29).....	1.88	1.86	9.48	9.20	5.14	4.99	50.19	50.01	4.76	4.60
Other Areas (120-121)...	1.83	1.73	9.20	9.08	5.10	5.28	51.01	50.43	4.69	4.58
<b>GRAPEFRUIT</b>										
White Seedless										
Indian River (38-38).....	1.58	1.40	10.42	9.88	6.65	7.13	39.27	42.92	4.09	4.24
Other Areas (11-12).....	1.41	1.32	9.48	9.23	6.78	7.07	40.24	42.32	3.81	3.92
Colored Seedless										
Indian River (40-40).....	1.44	1.42	10.26	9.94	7.16	7.03	40.94	42.84	4.20	4.26
Other Areas (9-7).....	1.38	1.38	9.78	9.90	7.15	7.20	38.88	43.85	3.80	4.34

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

[Size frequency distributions 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 include fruit from regular bloom and exclude fruit from summer bloom]

Type and number of fruit per 4/5 – bushel containers	2012	2013	2014	Type and number of fruit per 4/5 – bushel containers	2012	2013	2014
	(percent)	(percent)	(percent)		(percent)	(percent)	(percent)
<b>NON-VALENCIA ORANGES <sup>1</sup></b>				<b>WHITE GRAPEFRUIT <sup>2</sup></b>			
64 or less.....	0.5	0.4	0.3	32 or less.....	2.2	1.3	1.5
80.....	3.4	2.8	2.7	36.....	8.0	4.8	4.8
100.....	16.3	12.7	12.3	40.....	9.9	7.2	9.8
125.....	31.6	27.1	28.0	48.....	12.8	12.5	13.7
163 or more.....	48.2	57.0	56.7	56.....	12.9	11.2	14.2
				63 or more.....	54.2	63.0	56.0
<b>NAVEL ORANGES</b>				<b>COLORED GRAPEFRUIT</b>			
64 or less.....	30.0	25.1	39.8	32 or less.....	0.8	1.3	1.9
80.....	29.6	30.1	30.5	36.....	3.3	3.0	4.1
100.....	23.0	24.3	17.8	40.....	8.1	6.4	7.9
125.....	10.3	12.7	8.0	48.....	13.5	11.7	13.8
163 or more.....	7.1	7.8	3.9	56.....	12.9	11.8	14.5
				63 or more.....	61.4	65.8	57.8
<b>VALENCIA ORANGES</b>				<b>FALLGLO TANGERINES</b>			
64 or less.....	0.8	0.4	0.3	80 or less.....	-	20.0	-
80.....	5.1	2.9	3.1	100.....	28.0	45.0	3.0
100.....	21.7	15.3	16.7	120.....	35.0	35.0	6.0
125.....	34.8	30.0	32.2	176.....	10.0	-	6.0
163 or more.....	37.6	51.4	47.7	210 or more.....	27.0	-	85.0
<b>TANGELOS</b>				<b>SUNBURST TANGERINES</b>			
80 or less.....	11.2	7.6	13.5	100 or less.....	12.1	6.5	7.0
100.....	20.2	15.9	20.0	120.....	18.2	15.2	14.7
120.....	28.4	23.0	19.6	176.....	19.5	10.4	12.8
156 or more.....	40.2	53.5	46.9	210 or more.....	50.2	67.9	65.5

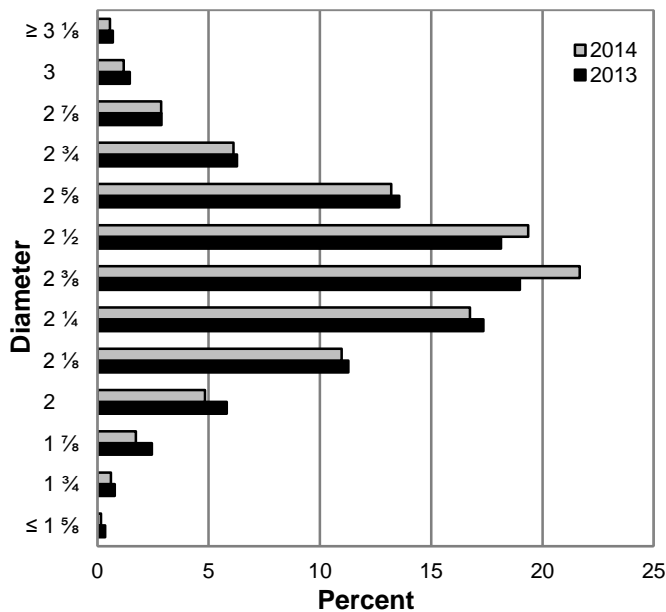
- Represents zero.

<sup>1</sup> Excludes Navel and Temple varieties.

<sup>2</sup> Excludes seedy.

The charts below show the distribution of fruit sizes in 2014 compared to 2013. The diameter measurements shown are the minimum values of each eighth inch range, except for the smallest values.

**Fruit Size Frequency Measurements, Non-Valencia Oranges <sup>1</sup>, by Diameter - Florida: October**



<sup>1</sup> Excludes Navel and Temple varieties.

**Fruit Size Frequency Measurements, Colored Grapefruit, by Diameter - Florida: October**

