



# CITRUS APRIL FORECAST MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture & Consumer Services  
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April 10, 2013

**All Orange Production Down 1 Percent**  
**Non-Valencia Orange Production Unchanged**  
**Valencia Orange Production Down 1 Percent**  
**All Grapefruit Production Unchanged**  
**All Tangerine Production Down 5 Percent**  
**Tangelo Production Unchanged**  
**FCOJ Yield 1.61 Gallons per Box (42° Brix)**

FORECAST DATES – 2012-2013 SEASON

[Release time 12:00 p.m. EDT]

May 10, 2013

June 12, 2013

July 11, 2013

## Citrus Production by Type and State – United States

Crop and State	Production <sup>1</sup>			2012-2013 Forecasted Production <sup>1</sup>	
	2009-2010 (1,000 boxes)	2010-2011 (1,000 boxes)	2011-2012 (1,000 boxes)	March (1,000 boxes)	April (1,000 boxes)
<b>Non-Valencia Oranges<sup>2</sup></b>					
Florida.....	<b>68,600</b>	<b>70,300</b>	<b>74,200</b>	<b>67,000</b>	<b>67,000</b>
California.....	42,500	48,000	45,500	46,500	45,500
Texas.....	1,360	1,700	1,108	1,220	1,260
United States.....	112,460	120,000	120,808	114,720	113,760
<b>Valencia Oranges</b>					
Florida.....	<b>65,100</b>	<b>70,200</b>	<b>*72,500</b>	<b>72,000</b>	<b>71,000</b>
California.....	15,000	14,500	*13,000	12,500	12,500
Texas.....	275	249	311	286	295
United States.....	80,375	84,949	*85,811	84,786	83,795
<b>All Oranges</b>					
Florida.....	<b>133,700</b>	<b>140,500</b>	<b>*146,700</b>	<b>139,000</b>	<b>138,000</b>
California.....	57,500	62,500	*58,500	59,000	58,000
Texas.....	1,635	1,949	1,419	1,506	1,555
United States.....	192,835	204,949	*206,619	199,506	197,555
<b>Grapefruit</b>					
Florida-All.....	<b>20,300</b>	<b>19,750</b>	<b>18,850</b>	<b>17,000</b>	<b>17,000</b>
White.....	<b>6,000</b>	<b>5,850</b>	<b>5,350</b>	<b>4,500</b>	<b>4,500</b>
Colored.....	<b>14,300</b>	<b>13,900</b>	<b>13,500</b>	<b>12,500</b>	<b>12,500</b>
California.....	4,500	4,310	*4,000	4,000	4,100
Texas.....	5,600	6,300	4,800	5,280	5,500
United States.....	30,400	30,360	*27,650	26,280	26,600
<b>Lemons</b>					
California.....	21,000	20,500	20,500	20,500	20,000
Arizona.....	2,200	2,500	750	1,800	1,800
United States.....	23,200	23,000	21,250	22,300	21,800
<b>Tangelos</b>					
Florida.....	<b>900</b>	<b>1,150</b>	<b>1,150</b>	<b>1,000</b>	<b>1,000</b>
<b>Tangerines</b>					
Florida-All.....	<b>4,450</b>	<b>4,650</b>	<b>4,290</b>	<b>3,700</b>	<b>3,500</b>
Early <sup>3</sup> .....	<b>2,250</b>	<b>2,600</b>	<b>2,330</b>	<b>2,000</b>	<b>2,000</b>
Honey.....	<b>2,200</b>	<b>2,050</b>	<b>1,960</b>	<b>1,700</b>	<b>1,500</b>
California <sup>4</sup> .....	9,900	10,600	10,900	11,800	13,500
Arizona <sup>4</sup> .....	350	300	200	200	200
United States.....	14,700	15,550	15,390	15,700	17,200

\* Revised

<sup>1</sup> Net pounds per box: oranges in California-80 (75 prior to the 2010-2011 crop year), Florida-90, Texas-85; grapefruit in California-80 (67 prior to the 2010-2011 crop year), Florida-85, Texas-80; lemons-80 (76 prior to the 2010-2011 crop year), tangelos-90; tangerines and mandarins in Arizona and California-80 (75 prior to the 2010-2011 crop year), Florida-95.

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

<sup>3</sup> Fallglo and Sunburst varieties.

<sup>4</sup> Includes tangelos and tangors.

## All Oranges 138.0 Million Boxes

The 2012-2013 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 138.0 million boxes, down 1 percent from last month, and 6 percent less than last season's production. The total includes 67.0 million boxes of non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 71.0 million boxes of Valencia oranges. The hurricane seasons of 2004-2005 and 2005-2006 have been excluded from the usual 10-year regression analysis and from comparisons of the current season to previous seasons. For those previous 8 seasons, the April forecast has deviated from final production by an average of 2 percent with 5 seasons below and 3 above, and differences ranging from 3 percent below to 1 percent above. All references to "average", "minimum" or "maximum" refer to the previous 8 non-hurricane seasons unless noted.

## Non-Valencia Oranges 67.0 Million Boxes

The forecast of non-Valencia orange production is unchanged at 67.0 million boxes. The route survey (Row Count) conducted April 1-2, showed 99 percent of all non-Valencia orange rows have been harvested. The Navel portion of the non-Valencia forecast remains unchanged at 2.2 million boxes.

## Valencia Oranges 71.0 Million Boxes

The forecast of Valencia production is lowered one million boxes to 71.0 million boxes. The Size and Drop survey conducted in late March showed droppage is above the maximum and average size is below minimum. Estimated utilization to the 1<sup>st</sup> of the month is 17.0 million boxes. The route survey (Row Count) showed 27 percent of the rows have been harvested.

## All Grapefruit 17.0 Million Boxes

The forecast of all grapefruit production is unchanged at 17.0 million boxes. Of the total grapefruit forecast, 4.5 million are white and 12.5 million are the colored varieties. The route survey (Row Count) showed 72 percent of the white grapefruit and 85 percent of the colored grapefruit rows have been harvested.

## All Tangerines 3.5 Million Boxes

The forecast of all tangerine production is lowered by 200,000 boxes to 3.5 million boxes due to decreased utilization of the later maturing Honey tangerine variety. The early varieties (Fallglo and Sunburst) remain at 2.0 million and the Honey variety is reduced to 1.5 million boxes. The route survey (Row Count) showed 86 percent of the Honey tangerine rows have been harvested.

## Tangelos 1.0 Million Boxes

The forecast of tangelo production remains unchanged at 1.0 million boxes, including an allocation of 100,000 boxes for non-certified use. The route survey (Row Count) showed 99 percent of the rows have been harvested.

## FCOJ Yield 1.61 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) is unchanged at 1.61 gallons per box of 42° Brix concentrate. The projection for Valencia oranges remains at 1.71 gallons per box. The final yield for non-Valencia oranges is 1.508465 gallons per box, as reported by the Florida Department of Citrus (FDOC) in Report No. 21. Last season's final yield for all oranges was 1.628480 gallons per box, 1.529715 gallons per box for non-Valencia oranges and 1.745597 for Valencia oranges.

## Forecast Components, by Variety — Florida: April 2013

[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.....	23,741	1,032	18	274
Navel.....	1,013	409	27	137
Valencia.....	32,049	661	22	231
<b>GRAPEFRUIT</b>				
White.....	1,314	550	22	120
Colored.....	3,581	492	20	125

## Maturity Tests

Regular bloom fruit samples were collected from groves on established routes April 1-2, in Florida's five major citrus producing areas, and tested April 3, 2013. Acid levels are higher and solids (Brix) are lower on late oranges than last season, resulting in a lower ratio. Unfinished juice per box and solids per box are lower than last season. Current acid level and solids (Brix) in fruit from the Indian River District are higher than in other areas; ratios are lower. Fruit from the Indian River has a lower unfinished juice per box and a higher solids per box than fruit from other areas.

### Citrus Unadjusted Maturity Tests — Florida: 2011-2012 and 2012-2013

[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	
	2011-2012	2012-2013	2011-2012	2012-2013	2011-2012	2012-2013	2011-2012	2012-2013	2011-2012	2012-2013
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
<b>LATE ORANGES (94-112)</b>										
Oct 1.....	2.15	2.21	8.95	8.81	4.22	4.06	48.36	44.76	4.32	3.95
Nov 1.....	1.54	1.72	9.43	9.30	6.29	5.49	51.32	51.54	4.84	4.79
Dec 1.....	1.40	1.54	10.36	10.11	7.53	6.68	55.15	53.40	5.71	5.40
Jan 1.....	1.20	1.36	11.42	10.90	9.66	8.11	56.67	54.60	6.47	5.95
Feb 1.....	1.14	1.16	12.16	11.79	10.80	10.36	55.83	55.52	6.78	6.52
Mar 1.....	1.01	1.05	12.54	12.19	12.63	11.74	55.62	54.90	6.98	6.69
Apr 1.....	0.85	1.00	12.64	12.38	15.16	12.57	56.14	55.58	7.09	6.88

### Citrus Maturity Test Averages, by Areas — Florida: April 1, 2011-2012 and 2012-2013

Fruit type (number of groves)	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2011-2012	2012-2013	2011-2012	2012-2013	2011-2012	2012-2013	2011-2012	2012-2013	2011-2012	2012-2013
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
<b>LATE ORANGES</b>										
Indian River (20-24).....	0.96	1.06	12.92	12.50	13.78	11.96	57.68	55.20	7.45	6.91
Other Areas (74-88).....	0.82	0.98	12.56	12.35	15.53	12.74	55.73	55.68	7.00	6.87

## Fruit Size Comparisons to Previous Seasons

Size frequency distributions from the March size survey are shown in the table below. 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.

The chart to the right shows the distribution of fruit sizes in 2013 compared to 2012. The diameter measurements shown are the minimum values of fruit measured, except for the smallest values.

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

Type and number of fruit per 4/5 – bushel containers	2011	2012	2013
	(percent)	(percent)	(percent)
<b>VALENCIA ORANGES</b>			
64 or less.....	4.6	6.2	3.9
80.....	17.2	24.6	15.1
100.....	37.1	41.3	35.4
125.....	27.3	22.0	29.0
163 or more.....	13.8	5.9	16.6

### Fruit Size Frequency Measurements, Valencia Oranges, by Diameter - Florida: March

