



# CITRUS JULY FORECAST FORECAST COMPONENTS

Cooperating with the Florida Department of Agriculture & Consumer Services  
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July 12, 2017

**Florida All Orange Production up Slightly from June**  
**Florida Non-Valencia Orange Production Unchanged**  
**Florida Valencia Orange Production up 1 percent**  
**Florida All Grapefruit Production Unchanged**  
**Florida All Tangerine and Tangelo Production Unchanged**  
**FCOJ Yield at 1.416618 Gallons per Box (42° Brix)**

The first forecast of the 2017-2018 season will be released at 12:00 p.m. EDT on October 12, 2017

Crop and State	Production <sup>1</sup>		2016-2017 Forecasted Production <sup>1</sup>	
	2014-2015 (1,000 boxes)	2015-2016 (1,000 boxes)	June (1,000 boxes)	July (1,000 boxes)
<b>Non-Valencia Oranges <sup>2</sup></b>				
<b>Florida</b> .....	<b>47,400</b>	<b>36,100</b>	<b>33,000</b>	<b>33,000</b>
California .....	39,000	47,200	43,000	40,000
Texas .....	1,170	1,351	1,050	1,090
United States.....	87,570	84,651	77,050	74,090
<b>Valencia Oranges</b>				
<b>Florida</b> .....	<b>49,550</b>	<b>45,600</b>	<b>35,500</b>	<b>35,700</b>
California .....	9,200	11,300	8,000	8,000
Texas .....	282	340	320	280
United States.....	59,032	57,240	43,820	43,980
<b>All Oranges</b>				
<b>Florida</b> .....	<b>96,950</b>	<b>81,700</b>	<b>68,500</b>	<b>68,700</b>
California .....	48,200	58,500	51,000	48,000
Texas .....	1,452	1,691	1,370	1,370
United States.....	146,602	141,891	120,870	118,070
<b>Grapefruit</b>				
<b>Florida-All</b> .....	<b>12,900</b>	<b>10,800</b>	<b>7,800</b>	<b>7,800</b>
<b>White</b> .....	<b>3,250</b>	<b>2,490</b>	<b>1,500</b>	<b>1,500</b>
<b>Red</b> .....	<b>9,650</b>	<b>8,310</b>	<b>6,300</b>	<b>6,300</b>
California .....	4,800	3,800	3,800	4,000
Texas .....	4,250	4,800	4,700	4,800
United States.....	21,950	19,400	16,300	16,600
<b>Lemons</b>				
California.....	20,600	20,900	19,000	19,000
Arizona.....	2,000	1,750	1,700	1,650
United States.....	22,600	22,650	20,700	20,650
<b>Tangelos</b>				
<b>Florida</b> .....	<b>665</b>	<b>390</b>	<b>(NA)</b>	<b>(NA)</b>
<b>Tangerines and Tangelos <sup>3</sup></b>				
<b>Florida-All</b> .....	<b>2,265</b>	<b>1,415</b>	<b>1,620</b>	<b>1,620</b>
<b>Early <sup>4</sup></b> .....	<b>1,445</b>	<b>785</b>	<b>600</b>	<b>600</b>
<b>Royal <sup>5</sup></b> .....	<b>(NA)</b>	<b>(NA)</b>	<b>210</b>	<b>210</b>
<b>Honey</b> .....	<b>820</b>	<b>630</b>	<b>530</b>	<b>530</b>
<b>Tangelo</b> .....	<b>(NA)</b>	<b>(NA)</b>	<b>280</b>	<b>280</b>
California.....	18,700	21,600	22,000	24,000
Arizona <sup>6</sup> .....	170	(NA)	(NA)	(NA)
United States.....	21,135	23,015	23,620	25,620

<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. Small quantities of Temples in Florida for 2014-2015 and 2015-2016.

<sup>3</sup> Includes tangelos and tangors in California. Beginning in 2016-2017, includes tangelos in Florida.

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

<sup>5</sup> Beginning in 2016-2017, Temples have been reclassified as Royal tangerines.

<sup>6</sup> Estimates discontinued in 2015-2016.

## Citrus Forecast

The 2016-2017 Florida all orange forecast released today by the USDA Agricultural Statistics Board is up 200,000 boxes from last month, and is now at 68.7 million boxes. The total comprises 33.0 million boxes of non-Valencia oranges (early, midseason, and Navel varieties), unchanged from last month, and 35.7 million boxes of Valencia oranges, up 200,000 boxes from last month. The forecast of all Florida grapefruit production is unchanged at 7.80 million boxes. Of the total grapefruit forecast, 1.50 million boxes are white and 6.30 million boxes are the red varieties. The Florida all tangerine and tangelo forecast remains at 1.62 million boxes. The forecast includes 600,000 boxes of the early tangerines (Fallglo and Sunburst), 210,000 boxes of Royal tangerines, 530,000 thousand boxes of Honey tangerines, and 280,000 boxes of tangelos. The Frozen Concentrated Orange Juice (FCOJ) yields as reported by the Florida Department of Citrus (FDOC), Report No. 39, for the period ending July 1, 2017, at 42° Brix are: all oranges at 1.416618 gallons per box, late (Valencia) portion at 1.536500 gallons, and non-Valencia oranges at 1.336596 gallons.

### Forecast Components of Production from Objective Surveys – Florida: 2012-2013 through 2016-2017

Fruit type and crop year	Number bearing trees (1,000 trees)	Sample survey averages		
		Fruit per tree (number)	Percent drop <sup>1</sup> (percent)	Fruit per box <sup>1</sup> (number)
<b>Early-Midseason Oranges</b> <sup>2,3</sup>				
2012-2013.....	23,804	1,034	18	274
2013-2014.....	23,208	919	23	286
2014-2015.....	22,370	886	22	302
2015-2016.....	21,454	744	32	284
2016-2017.....	20,872	766	26	317
<b>Navel Oranges</b>				
2012-2013.....	1,006	413	27	135
2013-2014.....	977	432	19	140
2014-2015.....	958	293	21	137
2015-2016.....	965	228	24	140
2016-2017.....	1,005	219	27	144
<b>Valencia Oranges</b>				
2012-2013.....	32,335	661	22	231
2013-2014.....	31,704	614	31	240
2014-2015.....	31,054	624	25	244
2015-2016.....	29,785	520	29	228
2016-2017.....	28,925	450	30	242
<b>White Grapefruit</b> <sup>4</sup>				
2012-2013.....	1,326	547	22	120
2013-2014.....	1,264	556	29	118
2014-2015.....	1,160	480	24	113
2015-2016.....	981	453	34	132
2016-2017.....	832	410	44	143
<b>Red Grapefruit</b>				
2012-2013.....	3,571	492	21	125
2013-2014.....	3,480	504	25	123
2014-2015.....	3,303	441	27	117
2015-2016.....	3,218	441	40	127
2016-2017.....	3,092	393	36	132

<sup>1</sup> Averages at cut-off month—January 1 for early-midseason oranges, December 1 for Navels, April 1 for Valencias, and February 1 for grapefruit.

<sup>2</sup> Excludes Navels.

<sup>3</sup> Includes Temples in number of bearing trees for 2012-2013 to 2015-2016.

<sup>4</sup> Includes seedy grapefruit in number of bearing trees.

The above table shows the production components used for the 2012-2013 through the 2016-2017 forecast seasons. Bearing trees are estimated at the beginning of each forecast season using the most updated tree inventory with an allowance for expected attrition. Revisions are made to the historic series where applicable. Fruit per tree is the weighted average obtained from the annual Limb Count survey conducted during a ten-week period from mid-July to mid-September. Survey averages for each tree age group within an area are weighted by the estimated number of bearing trees for each age group. Fruit size measurements and drop observations are obtained from monthly surveys. The average drop percentages are from the final month used in the forecast model. Average fruit sizes were also obtained from the same survey period and have been converted in the table to estimated number of fruit needed to fill a 1-3/5 bushel box. These four factors are the primary components used in the initial October forecast and in following months up to the "cut-off" for each fruit type.

$$\text{Direct Expansion} = \frac{\text{Bearing Trees} \times \text{Fruit per Tree} \times \text{Percent Remaining at Harvest}}{\text{Pieces of Fruit per Box}}$$