



CITRUS

JULY FORECAST FORECAST COMPONENTS

Cooperating with the Florida Department of Agriculture & Consumer Services
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July 12, 2016

Florida All Orange Production Up Slightly
Florida Non-Valencia Orange Production Unchanged
Florida Valencia Orange Production Up Slightly
Florida All Grapefruit Production Unchanged
Florida All Tangerine Production Unchanged
Florida Tangelo Production Unchanged
Florida FCOJ Yield 1.405527 gallons per box (42° Brix)

The first forecast of the 2016-2017 season will be released at 12:00 p.m. EDT on October 12, 2016

Citrus Production by Type and State – United States

Crop and State	Production ¹			2015-2016 Forecasted Production ¹	
	2012-2013 (1,000 boxes)	2013-2014 (1,000 boxes)	2014-2015 (1,000 boxes)	June (1,000 boxes)	July (1,000 boxes)
Non-Valencia Oranges ²					
Florida	67,100	53,300	47,400	36,100	36,100
California	42,500	38,700	39,100	42,000	44,000
Texas	1,504	1,401	1,170	1,350	1,355
United States.....	111,104	93,401	87,670	79,450	81,455
Valencia Oranges					
Florida	66,500	51,400	49,550	45,300	45,400
California	12,000	10,800	9,500	10,500	10,500
Texas	289	376	282	220	340
United States.....	78,789	62,576	59,332	56,020	56,240
All Oranges					
Florida	133,600	104,700	96,950	81,400	81,500
California	54,500	49,500	48,600	52,500	54,500
Texas	1,793	1,777	1,452	1,570	1,695
United States.....	189,893	155,977	147,002	135,470	137,695
Grapefruit					
Florida-All	18,350	15,650	12,900	10,850	10,850
White.....	5,250	4,150	3,250	2,500	2,500
Red.....	13,100	11,500	9,650	8,350	8,350
California	4,500	3,850	4,300	3,900	3,900
Texas	6,100	5,700	4,250	5,200	4,830
United States.....	28,950	25,200	21,450	19,950	19,580
Lemons					
California.....	21,000	18,800	20,600	21,000	21,800
Arizona	1,800	1,800	2,000	1,500	1,550
United States.....	22,800	20,600	22,600	22,500	23,350
Tangelos					
Florida	1,000	880	665	390	390
Tangerines					
Florida-All	3,280	2,900	2,265	1,430	1,430
Early ³	1,910	1,750	1,445	800	800
Honey	1,370	1,150	820	630	630
California ⁴	13,000	14,700	18,500	22,000	22,000
Arizona ^{4,5}	160	150	170	(NA)	(NA)
United States.....	16,440	17,750	20,935	23,430	23,430

¹ 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.

² Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas. Small quantities of Temples in Florida.

³ Fallglo and Sunburst varieties.

⁴ Includes tangelos and tangors.

⁵ Estimates discontinued in 2015-2016.

Citrus Forecast

The 2015-2016 Florida all orange forecast released today by the USDA Agricultural Statistics Board is up 100,000 boxes, now at 81.5 million boxes. The total comprises 36.1 million boxes of non-Valencia oranges (early, midseason, Navel, and Temple varieties), unchanged from last month, and 45.4 million boxes of Valencia oranges, up 100,000 boxes from last month. The forecast of all Florida grapefruit production is unchanged at 10.85 million boxes. Of the total grapefruit forecast, 2.5 million boxes are white and 8.35 million boxes are the red varieties. The Florida all tangerine forecast remains at 1.43 million boxes. The total comprises the early varieties (Fallglo and Sunburst) at 800,000 boxes and the later maturing Honey tangerines at 630,000 boxes. The forecast of all Florida tangelo production is unchanged at 390,000 boxes. The Florida Department of Citrus reports the final FCOJ per box yields at 42° Brix are: all oranges at 1.405527 gallons, late (Valencia) portion at 1.472983 gallons, and non-Valencia oranges at 1.347046 gallons.

Forecast Components of Production from Objective Surveys – Florida: 2011-2012 through 2015-2016

Fruit type and crop year	Number bearing trees (1,000 trees)	Sample survey averages		
		Fruit per tree (number)	Percent drop ¹ (percent)	Fruit per box ¹ (number)
Early-Midseason Oranges ^{2,3}				
2011-2012.....	23,864	918	13	235
2012-2013.....	23,804	1,034	18	274
2013-2014.....	23,208	919	23	286
2014-2015.....	22,370	886	22	302
2015-2016.....	21,650	744	32	284
Navel Oranges				
2011-2012.....	1,045	478	17	135
2012-2013.....	1,006	413	27	135
2013-2014.....	977	432	19	140
2014-2015.....	958	293	21	137
2015-2016.....	944	229	24	141
Valencia Oranges				
2011-2012.....	32,550	567	19	212
2012-2013.....	32,335	661	22	231
2013-2014.....	31,704	614	31	240
2014-2015.....	31,054	624	25	244
2015-2016.....	30,249	520	29	228
White Grapefruit ⁴				
2011-2012.....	1,377	443	16	101
2012-2013.....	1,326	547	22	120
2013-2014.....	1,264	556	29	118
2014-2015.....	1,160	480	24	113
2015-2016.....	1,087	449	34	132
Red Grapefruit				
2011-2012.....	3,557	428	18	105
2012-2013.....	3,571	492	21	125
2013-2014.....	3,480	504	25	123
2014-2015.....	3,303	441	27	117
2015-2016.....	3,236	439	40	127

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

² Excludes Navels.

³ Includes Temples in number of bearing trees.

⁴ Includes seedy grapefruit in number of bearing trees.

The above table shows the production components used for the 2011-2012 through the 2015-2016 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.

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