



CITRUS MAY FORECAST

MATURITY TEST RESULTS AND FRUIT SIZE

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Florida All Orange Production Up 1 Percent from April
Florida Non-Valencia Orange Production Unchanged
Florida Valencia Orange Production Up 3 percent
Florida All Grapefruit Production Down 4 Percent
Florida All Tangerine and Tangelo Production Down 1 Percent
FCOJ Yield at 1.41 Gallons per Box (42° Brix)

FORECAST DATES	-	2016-2017 SEASON
June 9, 2017		July 12, 2017

Crop and State	Production ¹		2016-2017 Forecasted Production ¹	
	2014-2015 (1,000 boxes)	2015-2016 (1,000 boxes)	April (1,000 boxes)	May (1,000 boxes)
Non-Valencia Oranges ²				
Florida	47,400	36,100	33,000	33,000
California ³	39,000	47,200	43,000	43,000
Texas ³	1,170	1,351	1,050	1,050
United States	87,570	84,651	77,050	77,050
Valencia Oranges				
Florida	49,550	45,600	34,000	35,000
California ³	9,200	11,300	8,000	8,000
Texas ³	282	340	320	320
United States	59,032	57,240	42,320	43,320
All Oranges				
Florida	96,950	81,700	67,000	68,000
California ³	48,200	58,500	51,000	51,000
Texas ³	1,452	1,691	1,370	1,370
United States	146,602	141,891	119,370	120,370
Grapefruit				
Florida-All	12,900	10,800	8,100	7,800
White	3,250	2,490	1,500	1,500
Red	9,650	8,310	6,600	6,300
California ³	4,800	3,800	3,800	3,800
Texas ³	4,250	4,800	4,700	4,700
United States	21,950	19,400	16,600	16,300
Lemons ³				
California	20,600	20,900	19,000	19,000
Arizona	2,000	1,750	1,700	1,700
United States	22,600	22,650	20,700	20,700
Tangelos				
Florida	665	390	(NA)	(NA)
Tangerines and Tangelos ⁴				
Florida-All	2,265	1,415	1,640	1,630
Early ⁵	1,445	785	600	600
Royal ⁶	(NA)	(NA)	240	220
Honey	820	630	520	530
Tangelo	(NA)	(NA)	280	280
California ³	18,700	21,600	22,000	22,000
Arizona ⁷	170	(NA)	(NA)	(NA)
United States	21,135	23,015	23,640	23,630

NA Not available.

¹ Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California and Texas-80, Florida-85; 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. Includes small quantities of Temples in Florida for 2014-2015 and 2015-2016.

³ Estimates carried forward from April forecast.

⁴ Includes tangelos and tangors in California. Beginning in 2016-2017, includes tangelos in Florida.

⁵ Fallglo and Sunburst varieties.

⁶ Beginning in 2016-2017, Temples have been reclassified as Royal tangerines.

⁷ Estimates discontinued in 2015-2016.

Regressions

Regression data used are from the 2006-2007 through 2015-2016 seasons. All references to “average”, “minimum”, and “maximum” refer to these 10 seasons unless noted.

All Oranges 68.0 Million Boxes

The 2016-2017 Florida all orange forecast released today by the USDA Agricultural Statistics Board is up 1.00 million boxes to 68.0 million boxes. The total includes 33.0 million boxes of the non-Valencia oranges (early, midseason, and Navel varieties) and 35.0 million boxes of Valencia oranges. For the previous 10 seasons used in the regressions, the May all orange forecast has deviated from final production by an average of 2 percent, with 3 seasons above and 7 below, and differences ranging from 3 percent below to 5 percent above.

Non-Valencia Oranges 33.0 Million Boxes

The forecast of non-Valencia production remains at 33.0 million boxes. Harvest is complete for the included varieties. The Navel portion of the non-Valencia forecast unchanged at 800,000 boxes.

Valencia Oranges 35.0 Million Boxes

The forecast of Valencia production is 35.0 million boxes, up 1.00 million boxes from the April Forecast. Weekly certifications in April averaged 3.43 million boxes, down 370,000 boxes from last season’s weekly utilization average.

The Row Count survey conducted April 26-27, 2017 showed 68 percent of the Valencia rows are harvested. Estimated utilization to May 1, including an allocation for other use, is 25.2 million boxes. Processors were surveyed regarding fruit processed through April 30th and the estimated quantity remaining to be processed to the end of the season. Analysis of the Row Count Survey, estimated utilization to the first of the month, and the processors report support raising the late orange forecast.

All Grapefruit 7.80 Million Boxes

The forecast of all grapefruit production is lowered 300,000 boxes to 7.80 million boxes. The white grapefruit forecast remains at 1.50 million, while the red grapefruit forecast is lowered 300,000 boxes to 6.30 million. Estimated utilization to May 1, with an allocation for non-certified use, of white grapefruit is 1.50 million boxes and red grapefruit is 6.30 million boxes. The Row Count survey conducted April 26-27, 2017, indicated harvest is relatively complete for these varieties.

Tangerines and Tangelos 1.63 Million Boxes

The forecast of all tangerine and tangelos is lowered 10,000 boxes to 1.63 million. The forecast includes 600,000 boxes of the early tangerines (Fallglo and Sunburst), 220,000 boxes of Royal tangerines, 530,000 thousand boxes of Honey tangerines, and 280,000 boxes of tangelos.

The early portion of the tangerine forecast is final. Changes were made in the Royal tangerine forecast, down 20,000 boxes from last month. The Honey tangerine forecast is up 10,000 boxes based on utilization. The Row Count Survey conducted April 26-27, 2017 indicated 94 percent of the Royal tangerine rows and 92 percent of the Honey tangerine rows were harvested.

The tangelo portion of the all tangerine forecast remains at 280,000 boxes. The Row Count survey showed harvest is over for this variety. If realized, this will be the lowest tangelo production recorded in a series dating back to the 1956-1957 season.

Weather

Weather stations in the citrus growing areas reported above average afternoon temperatures almost all month, reaching the mid-80s to lower 90s on most days. Rainfall was below normal in two-thirds of the citrus growing region. Half of the monitored citrus counties had less than an inch of rainfall for the entire month. Typical rainfall for the month of April is just over two inches. According to the May 2, 2017, U.S. Drought Monitor, Highlands County in the Central citrus production area, and portions of each of its surrounding counties are in an extreme drought condition. The remainder of the citrus region is in severe drought.

FCOJ Yield 1.41 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) is lowered to 1.41 gallons per box of 42° Brix concentrate. Projections for the late (Valencia) portion is lowered to 1.53 gallons per box. The final yield for non-Valencia oranges is 1.336596 gallons per box as reported by the Florida Department of Citrus (FDOC) in Report No. 21. Last season's final yields, as reported by the Florida Department of Citrus were: 1.405527 gallons per box for all oranges, 1.347046 gallons per box for non-Valencia oranges, and 1.472983 gallons per box for late (Valencia) oranges.

Maturity Tests

Regular bloom fruit samples were collected from groves on established routes on April 26-27, 2017, in Florida's five major citrus producing areas, and tested April 28, 2017. Acid level and solids (Brix) are higher on late oranges than last season, with a lower ratio. Unfinished juice per box is lower than last season, while solids per box are higher. The current acid level and solids (Brix) in fruit from the Indian River District is higher than in other areas, and the ratio lower. Fruit from the Indian River this month had less unfinished juice per box and lower solids per box than fruit from other areas.

Citrus Unadjusted Maturity Tests — Florida: 2015-2016 and 2016-2017

[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	
	2015-2016	2016-2017	2015-2016	2016-2017	2015-2016	2016-2017	2015-2016	2016-2017	2015-2016	2016-2017
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
LATE ORANGES (29-47)										
Oct 1	1.94	2.01	8.63	8.81	4.48	4.49	49.11	46.91	4.24	4.13
Nov 1	1.64	1.68	9.36	9.16	5.73	5.50	53.19	50.10	4.97	4.59
Dec 1	1.34	1.42	9.65	10.00	7.28	7.11	54.92	52.84	5.30	5.28
Jan 1	1.05	1.24	10.31	10.72	9.89	8.73	57.64	53.18	5.94	5.70
Feb 1	1.01	1.09	10.63	11.31	10.69	10.45	56.23	56.74	5.98	6.42
Mar 1	0.89	1.00	11.16	11.76	12.65	11.87	55.51	54.99	6.19	6.46
Apr 1	0.82	0.88	11.55	12.07	14.23	13.84	55.30	55.37	6.38	6.69
May 1	0.71	0.81	11.85	12.19	17.08	15.22	56.20	55.59	6.66	6.78

Citrus Maturity Test Averages, by Areas — Florida: May 1, 2015-2016 and 2016-2017

Fruit type (number of groves)	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2015-2016	2016-2017	2015-2016	2016-2017	2015-2016	2016-2017	2015-2016	2016-2017	2015-2016	2016-2017
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
LATE ORANGES										
Indian River (4-5).....	0.71	0.86	12.63	12.53	17.97	14.64	57.58	53.27	7.27	6.70
Other Areas (25-42).....	0.71	0.80	11.72	12.15	16.94	15.29	55.98	55.86	6.57	6.79