



CITRUS MATURITY TEST RESULTS AND FRUIT SIZE

JUNE FORECAST

Cooperating with the Florida Department of Agriculture and Consumer Services
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June 12, 2018

Florida All Orange Production Unchanged from May
Florida Non-Valencia Orange Production Unchanged
Florida Valencia Orange Production Unchanged
Florida All Grapefruit Production Down 2 percent
Florida All Tangerine and Tangelo Production Unchanged

FORECAST DATES - 2017-2018 SEASON

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

July 12, 2018

Crop and State	Production ¹		2017-2018 Forecasted Production ¹	
	2015-2016 (1,000 boxes)	2016-2017 (1,000 boxes)	May (1,000 boxes)	June (1,000 boxes)
Non-Valencia Oranges ²				
Florida.....	36,100	33,000	18,950	18,950
California ³	47,200	39,300	35,000	35,000
Texas ³	1,351	1,090	1,550	1,550
United States.....	84,651	73,390	55,500	55,500
Valencia Oranges				
Florida.....	45,600	35,850	26,000	26,000
California ³	11,300	9,000	9,500	9,500
Texas ³	340	280	560	560
United States.....	57,240	45,130	36,060	36,060
All Oranges				
Florida.....	81,700	68,850	44,950	44,950
California ³	58,500	48,300	44,500	44,500
Texas ³	1,691	1,370	2,110	2,110
United States.....	141,891	118,520	91,560	91,560
Grapefruit				
Florida-All.....	10,800	7,760	3,950	3,880
White.....	2,490	1,480	700	700
Red.....	8,310	6,280	3,250	3,180
California ³	3,800	4,400	4,000	4,000
Texas ³	4,800	4,800	5,700	5,700
United States.....	19,400	16,960	13,650	13,580
Lemons ³				
California.....	21,000	20,500	20,500	20,500
Arizona.....	1,600	1,650	1,300	1,300
United States.....	22,600	22,150	21,800	21,800
Tangelos				
Florida.....	390	(NA)	(NA)	(NA)
Tangerines and Tangelos				
Florida-All ⁴	1,415	1,620	750	750
Early ⁵	785	600	(NA)	(NA)
Royal ⁶	(NA)	210	(NA)	(NA)
Honey.....	630	530	(NA)	(NA)
Tangelos.....	(NA)	280	(NA)	(NA)
California ^{3,7}	21,700	23,900	21,000	21,000
United States.....	23,115	25,520	21,750	21,750

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 in Florida for 2015-2016, and tangerines and mandarins in 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 2015-2016.

³ Estimates carried forward from May forecast.

⁴ Prior to 2016-2017 includes Fallglo, Sunburst, and Honey tangerine varieties only. In 2016-2017, includes Fallglo, Sunburst, Royal, and Honey tangerine varieties and tangelos. Beginning in 2017-2018, includes all certified varieties of tangerines and tangelos.

⁵ Fallglo and Sunburst varieties.

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

⁷ Includes tangelos and tangors in California.

Regressions

Regression data used are from the 2007-2008 through 2016-2017 seasons. All references to "average", "minimum", and "maximum" refer to these 10 seasons unless noted.

All Oranges 45.0 Million Boxes

The 2017-2018 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 45.0 million boxes, unchanged from the May forecast. The total includes of 19.0 million boxes of non-Valencia oranges (early, midseason, and Navel varieties) and 26.0 million boxes of Valencia oranges.

Non-Valencia Oranges 19.0 Million Boxes

The forecast of non-Valencia production is finalized at 19.0 million boxes. Harvest is complete for the included varieties. The Navel forecast, included in the non-Valencia portion of the forecast, is 500,000 boxes, 3 percent of the non-Valencia total.

Valencia Oranges 26.0 Million Boxes

The forecast of Valencia production is unchanged at 26.0 million boxes. The forecast is based on certified utilization and projections for the remainder of the season. The Row Count survey conducted May 30-31, 2018 showed harvest is nearly over for this variety. Estimated utilization to June 1, including an allocation for other use, is 25.7 million boxes.

All Grapefruit 3.88 Million Boxes

The forecast of all grapefruit production is lowered 70,000 boxes to 3.88 million boxes. The white grapefruit forecast is unchanged at 700,000 boxes. The red grapefruit forecast is lowered 70,000 boxes to 3.18 million boxes based on certified utilization. Harvest is complete for these varieties.

Tangerines and Tangelos 750,000 Boxes

The forecast for tangerine and tangelo production is unchanged at 750,000 boxes. Harvest is complete for these varieties.

Maturity Tests

There were no maturity tests run for this forecast.

Reliability

To assist users in evaluating the reliability of the June 1 Florida production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the June 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of squared percentage deviations for the latest 20-year period is computed. The square root of the average becomes statistically the "Root Mean Square Error." Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year's forecast are not different from those influencing recent years.

The "Root Mean Square Error" for the June 1 Florida all orange production forecast is 1.2 percent. However, if you exclude the two abnormal production seasons (two hurricane seasons), the "Root Mean Square Error" is 0.9 percent. This means chances are 2 out of 3 that the current all orange production forecast will not be above or below the final estimates by more than 1.2 percent, or 0.9 percent excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.1 percent, or 1.6 percent excluding abnormal seasons.

Changes between the June 1 Florida all orange forecast and the final estimates during the past 20 years have averaged 1.61 million boxes (1.42 million, excluding abnormal seasons), ranging from 0.10 million boxes to 5.30 including abnormal seasons, (0.10 to 4.00 million boxes excluding abnormal seasons). The June 1 forecast for all oranges has been below the final estimate 12 times, above 8 times, (below 12 times, above 6 times, excluding abnormal seasons). The difference does not imply that the June 1 forecasts this year are likely to understate or overstate final production.