



CITRUS MATURITY TEST RESULTS AND FRUIT SIZE

JUNE FORECAST

Cooperating with the Florida Department of Agriculture and Consumer Services
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June 11, 2019

Florida All Orange Production Down 1 Percent from May
Florida Non-Valencia Orange Production Unchanged
Florida Valencia Orange Production Down 2 Percent
Florida All Grapefruit Production Down 2 Percent
Florida All Tangerine and Tangelo Production Down 1 Percent

FORECAST DATES - 2018-2019 SEASON

July 11, 2019

Citrus Production by Type – States and United States

Crop and State	Production ¹		2018-2019 Forecasted Production ¹	
	2016-2017 (1,000 boxes)	2017-2018 (1,000 boxes)	May (1,000 boxes)	June (1,000 boxes)
Non-Valencia Oranges ²				
Florida	33,000	18,950	30,400	30,400
California ³	39,300	35,900	40,000	40,000
Texas ³	1,090	1,530	1,300	1,300
United States.....	73,390	56,380	71,700	71,700
Valencia Oranges				
Florida	35,850	26,100	42,000	41,000
California ³	9,000	9,500	9,000	9,000
Texas ³	280	350	575	575
United States.....	45,130	35,950	51,575	50,575
All Oranges				
Florida	68,850	45,050	72,400	71,400
California ³	48,300	45,400	49,000	49,000
Texas ³	1,370	1,880	1,875	1,875
United States.....	118,520	92,330	123,275	122,275
Grapefruit				
Florida-All	7,760	3,880	4,580	4,510
Red	6,280	3,180	3,800	3,740
White	1,480	700	780	770
California ³	4,400	4,000	4,000	4,000
Texas ³	4,800	4,800	6,300	6,300
United States.....	16,960	12,680	14,880	14,810
Lemons ³				
Arizona.....	1,550	1,000	1,300	1,300
California.....	20,500	21,200	20,000	20,000
United States.....	22,050	22,200	21,300	21,300
Tangerines and Tangelos				
Florida-All ⁴	1,620	750	1,000	990
Early ⁵	600	(NA)	(NA)	(NA)
Royal	210	(NA)	(NA)	(NA)
Honey	530	(NA)	(NA)	(NA)
Tangelos	280	(NA)	(NA)	(NA)
California ^{3 6}	23,800	19,200	22,000	22,000
United States.....	25,420	19,950	23,000	22,990

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; and tangerines and mandarins in California-80, Florida-95.

² Navel and miscellaneous varieties in California. Early and midseason non-Valencia (including Navel) varieties in Florida and Texas.

³ Estimates carried forward from May forecast.

⁴ 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 Includes tangelos and tangors in California.

All Oranges 71.4 Million Boxes

The 2018-2019 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 71.4 million boxes, down 1.00 million boxes from the May forecast. The total includes 30.4 million boxes of non-Valencia oranges (early, midseason, and Navel varieties) and 41.0 million boxes of Valencia oranges.

Non-Valencia Oranges 30.4 Million Boxes

The forecast of non-Valencia production is unchanged at 30.4 million boxes. Harvest is complete for the included varieties. The Navel forecast, included in the non-Valencia portion of the forecast, is 750,000 boxes, 2 percent of the non-Valencia total.

Valencia Oranges 41.0 Million Boxes

The forecast of Valencia production is down 1.00 million boxes to 41.0 million boxes. The Row Count survey conducted May 29-30, 2019 showed 96 percent of the Valencia rows are harvested. Estimated utilization to June 1, including an allocation for other use, is 39.3 million boxes.

All Grapefruit 4.51 Million Boxes

The forecast of all grapefruit production is lowered 70,000 boxes to 4.51 million boxes. The white grapefruit forecast is reduced 10,000 boxes to 770,000 boxes. The red grapefruit forecast is lowered 60,000 boxes and is now 3.74 million boxes. Estimated utilization to June 1, with an allocation for non-certified use, of white grapefruit is 770,000 boxes and of red grapefruit is 3.74 million boxes. The Row Count survey conducted May 29-30, 2019 indicated harvest is complete for these varieties.

Tangerines and Tangelos 990,000 Boxes

The forecast for the tangerine and tangelo production is lowered 10,000 boxes to 990,000 boxes. This production level is 32 percent more than last season's hurricane-affected production of 750,000 boxes. This forecast number includes all certified tangerine and tangelo varieties. Estimated utilization to June 1, with an allocation for non-certified use is 990,000 boxes. Harvest is complete for these varieties.

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 1.1 percent. If you exclude the three abnormal production seasons (three 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 1.1 percent, 0.9 percent excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.0 percent, 1.5 percent when excluding abnormal seasons.

Changes between the June 1 Florida all orange forecast and the final estimates during the past 20 years have averaged 1.42 million boxes (1.26 million, excluding abnormal seasons), ranging from 0.10 million boxes to 5.3 million boxes including abnormal seasons, (0.10 to 3.0 million boxes excluding abnormal seasons). The June 1 forecast for all oranges has been below the final estimate 13 times and above 7 times (below 12 times and above 5 times, excluding abnormal seasons). The difference does not imply that the June 1 forecasts this year are likely to understate or overstate final production.

Maturity

Regular bloom fruit samples were collected from groves on established routes May 29-30, 2019 in Florida's five major citrus producing areas and tested May 31, 2019.

Unadjusted Maturity Tests – Florida: June 1, 2017-2018 and 2018-2019

[Averages of regular bloom fruit from sample groves. Juice and solids per box are unadjusted and not comparable to juice processing plant test results. Samples were run through an FMC 091B machine using pneumatic pressure. This machine utilizes a 0.025 short strainer and a 1.00 inch orifice tube for the 3 inch cup and a 1.25 inch orifice tube for the 4 inch and 5 inch cups]

Fruit type (number of groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2017-2018	2018-2019	2017-2018	2018-2019	2017-2018	2018-2019	2017-2018	2018-2019	2017-2018	2018-2019
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
Valencia Oranges ((NA) - 10)										
Oct 1	(NA)	1.91	(NA)	8.72	(NA)	4.60	(NA)	47.24	(NA)	4.12
Nov 1	(NA)	1.56	(NA)	9.20	(NA)	5.93	(NA)	48.39	(NA)	4.44
Dec 1	(NA)	1.27	(NA)	9.78	(NA)	7.79	(NA)	53.45	(NA)	5.22
Jan 1	(NA)	1.07	(NA)	10.80	(NA)	10.23	(NA)	53.06	(NA)	5.72
Feb 1	(NA)	1.04	(NA)	11.23	(NA)	10.86	(NA)	52.82	(NA)	5.93
Mar 1	(NA)	0.88	(NA)	11.96	(NA)	13.67	(NA)	52.87	(NA)	6.32
Apr 1	(NA)	0.82	(NA)	12.21	(NA)	15.06	(NA)	53.57	(NA)	6.53
May 1	(NA)	0.68	(NA)	12.37	(NA)	18.25	(NA)	53.97	(NA)	6.66
June 1	(NA)	0.58	(NA)	12.31	(NA)	21.46	(NA)	53.65	(NA)	6.62

NA Not available

Unadjusted Maturity Test Averages, by Areas – Florida: May 1, 2017-2018 and 2018-2019

Fruit type (number of groves)	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2017-2018	2018-2019	2017-2018	2018-2019	2017-2018	2018-2019	2017-2018	2018-2019	2017-2018	2018-2019
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
Valencia Oranges										
Indian River ((NA) - 4)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Other Areas ((NA) - 6)	(NA)	0.59	(NA)	12.03	(NA)	20.42	(NA)	53.44	(NA)	6.45

D Withheld to avoid disclosing data for individual operations.

NA Not available.