United States Department of Agriculture
National Agricultural Statistics Service

CITRUS

MAY FORECAST
MATURITY TEST RESULTS

Cooperating with the Florida Department of Agriculture and Consumer Services
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May 12, 2023

Florida All Orange Production is Down 3 Percent from April
Florida Non-Valencia Orange Production Up 1 percent
Florida Valencia Orange Production Down 5 Percent
Florida All Grapefruit Production Up 6 Percent
Florida All Tangerine and Tangelo Unchanged

FORECAST DATES - 2022-2023 SEASON	
June 9, 2023	July 12, 2023

Citrus Production by Type – States and United States

Crop and State	Production [1]		2022-2023 Forecasted Production [1]	
	2020-2021	2021-2022	April	May
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Non-Valencia Oranges [2]				
Florida	**22,700**	**18,250**	**6,100**	**6,150**
California [3]	41,300	31,500	37,000	37,000
Texas [3]	1,000	170	700	700
United States	65,000	49,920	43,800	43,850
Valencia Oranges				
Florida	**30,250**	**22,950**	**10,000**	**9,500**
California [3]	7,700	7.600	8,100	8,100
Texas [3]	50	30	350	350
United States	38,000	30,580	18,450	17,950
All Oranges				
Florida	**52,950**	**41,200**	**16,100**	**15,650**
California [3]	49,000	39,100	45,100	45,100
Texas [3]	1,050	200	1,050	1,050
United States	103,000	80,500	62,250	61,800
Grapefruit				
Florida-All	**4,100**	**3,330**	**1,700**	**1,800**
Red	**3,480**	**2,830**	**1,520**	**1,560**
White	**620**	**500**	**180**	**240**
California [3 4]	4,200	4,100	4,200	4,200
Texas [3]	2,400	1,700	2,400	2,400
United States	10,700	9,130	8,300	8,400
Lemons [3]				
Arizona	750	1,250	1,700	1,700
California	20,100	25,200	23,000	23,000
United States	20,850	26,450	24,700	24,700
Tangerines and Tangelos				
Florida	**890**	**750**	**500**	**500**
California [3]	28,800	17,500	21,000	21,000
United States	29,690	18,250	21,500	21,500

[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] Early non-Valencia (including Navel) and mid-season non-Valencia varieties in Florida; Navel and miscellaneous varieties in California; Early and mid-season varieties in Texas.
[3] Estimates carried forward from previous forecast.
[4] Includes pummelos in California.

All Oranges 15.7 Million Boxes

The 2022-2023 Florida all orange forecast released today by the USDA Agricultural Statistics Board is lowered 450,000 boxes to 15.7 million boxes. If realized, this will be 62 percent less than last season's revised final production. The forecast consists of 6.15 million boxes of non-Valencia oranges (early, mid-season, and Navel varieties) and 9.50 million boxes of Valencia oranges.

Non-Valencia Oranges 6.15 Million Boxes

The forecast of non-Valencia orange production is raised to 6.15 million boxes.. The Navel forecast, included in the non-Valencia portion of the forecast at 240,000 boxes is 4 percent of the non-Valencia total.

Valencia Oranges 9.50 Million Boxes

The forecast of Valencia orange production is lowered 500,000 boxes to 9.50 million boxes. The Row Count survey conducted April 26-27, 2023, indicated 98 percent of the Valencia rows are harvested. 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 estimated utilization to the first of the month and results of the processors report support decreasing the Valencia orange forecast.

All Grapefruit 1.80 Million Boxes

The forecast of all grapefruit production is 1.80 million boxes. The white grapefruit forecast is now 240,000 boxes. The red grapefruit forecast is 1.56 million boxes.

Tangerines and Tangelos 500,000 Boxes

The forecast for tangerines and tangelos is unchanged at 500,000 boxes. This forecast number includes all certified tangerine and tangelo varieties.

Maturity Tests

There were no maturity test samples for this forecast.

Reliability

To assist users in evaluating the reliability of the May 1 Florida production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the May 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 May 1 Florida all orange production forecast is 2.2 percent. If you exclude the three abnormal production seasons (three hurricane seasons), the "Root Mean Square Error" is 2.2 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 2.2 percent, including or excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 3.8 percent including abnormal seasons, or 3.9 percent excluding abnormal seasons.

Changes between the May 1 Florida all orange forecast and the final estimates during the past 20 years have averaged 2.11 million boxes (2.08 million, excluding abnormal seasons), ranging from 0.10 million boxes to 5.60 million boxes including abnormal seasons, (0.50 to 5.60 million boxes excluding abnormal seasons). The May 1 forecast for all oranges has been below the final estimate 12 times, above 8 times, (below 11 times, above 6 times, excluding abnormal seasons). The difference does not imply that the May 1 forecasts this year are likely to understate or overstate final production.