



CITRUS JUNE FORECAST

Cooperating with the Florida Department of Agriculture and Consumer Services
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June 9, 2023

Florida All Orange Production up 1 Percent
Florida Non-Valencia Orange Production Unchanged
Florida Valencia Orange Production up 1 Percent
Florida All Grapefruit Production Up 1 Percent
Florida All Tangerine and Tangelo down 2 Percent

FORECAST DATES - 2022-2023 SEASON
July 12, 2023

Citrus Production by Type – States and United States

Crop and State	Production ¹		2022-2023 Forecasted Production ¹	
	2020-2021 (1,000 boxes)	2021-2022 (1,000 boxes)	May (1,000 boxes)	June (1,000 boxes)
Non-Valencia Oranges ²				
Florida	22,700	18,250	6,150	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	43,850	43,850
Valencia Oranges				
Florida	30,250	22,950	9,500	9,600
California ³	7,700	7,600	8,100	8,100
Texas ³	50	30	350	350
United States	38,000	30,580	17,950	18,050
All Oranges				
Florida	52,950	41,200	15,650	15,750
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	61,800	61,900
Grapefruit				
Florida-All	4,100	3,330	1,800	1,820
Red	3,480	2,830	1,560	1,570
White	620	500	240	250
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	8,400	8,420
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	490
California ³	28,800	17,500	21,000	21,000
United States	29,690	18,250	21,500	21,490

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 15.8 Million Boxes

The 2022-2023 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 15.8 million boxes. The total includes 6.15 million boxes of non-Valencia oranges (early, mid-season, and Navel varieties) and 9.60 million boxes of Valencia oranges.

Non-Valencia Oranges 6.15 Million Boxes

The forecast of non-Valencia orange production is 6.15 million boxes. The Navel forecast, included in the non-Valencia portion of the forecast is 240,000 boxes, 4 percent of the non-Valencia total. Harvest is over for the season.

Valencia Oranges 9.60 Million Boxes

The forecast of Valencia orange production is 9.60 million boxes. The Row Count survey conducted May 31, 2023, showed Valencia harvest is virtually complete.

All Grapefruit 1.82 Million Boxes

The forecast of all grapefruit production is 1.82 million boxes. The white grapefruit forecast is increased 10,000 boxes to 250,000 boxes. The red grapefruit forecast is increased 10,000 boxes to 1.57 million boxes. The Row Count survey conducted May 31, 2023, indicated that harvest is virtually complete for these varieties.

Tangerines and Tangelos 490,000 Boxes

The forecast for tangerines and tangelos is 490,000 boxes down 10,000 boxes from the previous forecast. This production level is 35 percent less than last season's final production of 750,000 boxes. This forecast number includes all certified tangerine and tangelo 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 0.8 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, including abnormal seasons, or 0.8 percent, excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.0 percent including abnormal season and or 1.4 percent excluding abnormal seasons.

Changes between the June 1 Florida all orange forecast and the final estimates during the past 20 years have averaged 1.13 million boxes (0.93 million boxes, excluding abnormal seasons), ranging from 0.10 million boxes to 5.30 million boxes including abnormal seasons, (0.10 to 3.00 million boxes excluding abnormal seasons). The June 1 forecast for all oranges has been below the final estimate 14 times, above 6 times, (below 13 times, above 4 times, excluding abnormal seasons). The difference does not imply that the June 1 forecasts this year are likely to understate or overstate final production.