United States Department of Agriculture
National Agricultural Statistics Service

# CITRUS

## APRIL FORECAST
## MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture and Consumer Services
851 Trafalgar Ct, Suite 310E, Maitland, FL 32751-4132
(407) 648-6013 · (855) 271-9801 FAX · www.nass.usda.gov/fl

April 10, 2025

**Florida All Orange Production Unchanged from March Forecast**
**Florida Non-Valencia Orange Production Unchanged**
**Florida Valencia Orange Production Unchanged**
**Florida All Grapefruit Production Up 8 Percent**
**Florida All Tangerine and Tangelo Production Up 14 Percent**

**FORECAST DATES - 2024-2025 SEASON**
May 12, 2025 June 12, 2025
July 11, 2025

## Citrus Production by Type – States and United States

| Crop and State | Production [1] | | 2024-2025 Forecasted Production [1] | |
|---|---|---|---|---|
| | 2022-2023 | 2023-2024 | March | April |
| | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) |
| **Non-Valencia Oranges** [2] | | | | |
| **Florida** | **6,150** | **6,760** | **4,600** | **4,600** |
| California | 36,000 | 38,300 | 39,000 | 40,000 |
| Texas | 570 | 690 | 600 | 530 |
| United States | 42,720 | 45,750 | 44,200 | 45,130 |
| **Valencia Oranges** | | | | |
| **Florida** | **9,670** | **11,300** | **7,000** | **7,000** |
| California | 8,600 | 7,100 | 7,500 | 7,500 |
| Texas | 560 | 490 | 300 | 350 |
| United States | 18,830 | 18,890 | 14,800 | 14,850 |
| **All Oranges** | | | | |
| **Florida** | **15,820** | **18,060** | **11,600** | **11,600** |
| California | 44,600 | 45,400 | 46,500 | 47,500 |
| Texas | 1,130 | 1,180 | 900 | 880 |
| United States | 61,550 | 64,640 | 59,000 | 59,980 |
| **Grapefruit** | | | | |
| **Florida-All** | **1,810** | **1,790** | **1,200** | **1,300** |
| **Red** | **1,560** | **1,550** | **1,070** | **1,160** |
| **White** | **250** | **240** | **130** | **140** |
| California | 4,500 | 3,900 | 3,700 | 4,300 |
| Texas | 2,250 | 2,400 | 2,500 | 2,300 |
| United States | 8,560 | 8,090 | 7,400 | 7,900 |
| **Lemons** | | | | |
| **Florida** [3] | **(NA)** | **(NA)** | **600** | **600** |
| Arizona | 1,400 | 950 | 900 | 950 |
| California | 25,800 | 24,500 | 26,000 | 27,000 |
| United States | 27,200 | 25,450 | 27,500 | 28,550 |
| **Tangerines and Mandarins** [4] | | | | |
| **Florida** | **480** | **450** | **350** | **400** |
| California | 23,500 | 27,200 | 25,000 | 26,000 |
| United States | 23,980 | 27,650 | 25,350 | 26,400 |

[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 (including Navel) and midseason varieties in Florida and Texas.
[3] Estimates began with the 2024-2025 crop year
[4] Includes tangelos and tangors.

## All Oranges 11.6 Million Boxes

The 2024-2025 Florida all orange forecast released today by the USDA Agricultural Statistics Board is unchanged at 11.6 million boxes. If realized, this will be 36 percent less than last season's revised production. The forecast consists of 4.60 million boxes of non-Valencia oranges (early, mid-season, and Navel varieties) and 7.00 million boxes of Valencia oranges. An 8-year regression was used for comparison purposes. All references to "average", "minimum", and "maximum" refer to the previous 10 seasons, excluding the 2017-2018 season, which was affected by Hurricane Irma, and the 2022-2023 season, which was affected by Hurricanes Ian and Nicole. Average fruit per tree includes both regular bloom and the first late bloom.

## Non-Valencia Oranges 4.60 Million Boxes

The forecast of non-Valencia orange production is unchanged at 4.60 million boxes. Non-Valencia harvest is over for the season. The Row Count survey conducted March 26-27, 2025 showed the complete harvest of early & mid-season non-Valencia oranges. The Navel forecast, included in the non-Valencia portion of the forecast, is 100,000 boxes.

## Valencia Oranges 7.00 Million Boxes

The forecast of Valencia orange production is unchanged from the previous forecast at 7.00 million boxes. Final fruit size is below the average, requiring 261 pieces to fill a 90-pound box. Final droppage, measured at 52 percent, is above the maximum. The Row Count survey conducted March 26-27, 2025, showed 59 percent of the Valencia orange crop is harvested.

## All Grapefruit 1.30 Million Boxes

The forecast of all grapefruit production is increased 100,000 boxes to 1.30 million boxes. The white grapefruit forecast is increased 10,000 boxes. The red grapefruit forecast is up 90,000 boxes. The Row Count survey conducted March 26-27, 2025 indicated harvested is relatively complete.

## Lemons 600,000 Boxes

The forecast of lemons is 600,000 boxes, unchanged from the previous forecast.

## Tangerines and Tangelos 400,000 Boxes

The forecast for tangerines and tangelos is raised 50,000 boxes, and is now 400,000 boxes. This forecast number includes all certified tangerine and tangelo varieties.

## Reliability

To assist users in evaluating the reliability of the April 1 Florida production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the April 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 April 1 Florida all orange production forecast is 3.8 percent. If you exclude the four abnormal production seasons (four hurricane seasons), the "Root Mean Square Error" is 4.1 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 3.8 percent including abnormal seasons, or 4.1 percent excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 6.5 percent including abnormal seasons, or 7.2 percent excluding abnormal seasons.

Changes between the April 1 Florida all orange forecast and the final estimates during the past 20 years have averaged 2.76 million boxes (3.01 million, excluding abnormal seasons), ranging from 0.05 million boxes to 5.7 million boxes including abnormal seasons, (0.74 to 5.7 million boxes excluding abnormal seasons). The April 1 forecast for all oranges has been below the final estimate 9 times, above 11 times, (below 8 times, above 8 times, excluding abnormal seasons). The difference does not imply that the April 1 forecasts this year are likely to understate or overstate final production.

## Forecast Components, by Type – Florida: April 2025

[Survey data is considered final in December for Navels, January for early & mid-season (non-Valencia) oranges, February for grapefruit, and April for Valencia oranges]

| Type | Bearing trees | Fruit per tree | Droppage | Fruit per box |
|---|---|---|---|---|
| | (1,000 trees) | (number) | (percent) | (number) |
| **ORANGES** | | | | |
| Early & mid-season (Non-Valencia) [1] | 9,725 | 392 | 56 | 327 |
| Navel | 480 | 123 | 65 | 146 |
| Valencia | 20,124 | 244 | 52 | 261 |
| **GRAPEFRUIT** | | | | |
| Red | 1,357 | 271 | 43 | 123 |
| White | 161 | 369 | 51 | 100 |

[1] Excludes Navels.

## Maturity

Regular bloom fruit samples were collected from groves on established routes March 27-27, 2025, in Florida's five major citrus producing areas and tested March 28, 2024. Only Valencia oranges were collected and tested this month.

## Unadjusted Maturity Tests – Florida: April 1, 2023-2024 and 2024-2025

[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.]

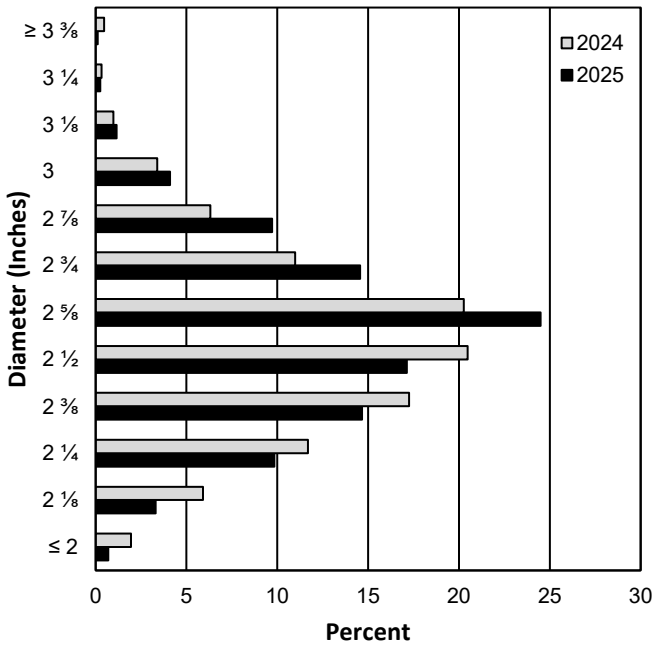
| Fruit type (number of groves) test date | Acid | | Solids (Brix) | | Ratio | | Unfinished juice per box | | Solids per box | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2023-2024 | 2024-2025 | 2023-2024 | 2024-2025 | 2023-2024 | 2024-2025 | 2023-2024 | 2024-2025 | 2023-2024 | 2024-2025 |
| | (percent) | (percent) | (percent) | (percent) | | | (pounds) | (pounds) | (pounds) | (pounds) |
| **Valencia Oranges** (75-59) | | | | | | | | | | |
| Oct 1 | 1.78 | 1.80 | 9.15 | 8.66 | 5.24 | 4.86 | 45.45 | 46.97 | 4.16 | 4.08 |
| Nov 1 | 1.46 | 1.45 | 9.24 | 8.64 | 6.45 | 6.01 | 49.19 | 51.28 | 4.55 | 4.44 |
| Dec 1 | 1.23 | 1.14 | 9.64 | 8.94 | 7.95 | 7.95 | 51.76 | 53.97 | 4.99 | 4.82 |
| Jan 1 | 1.09 | 1.01 | 9.76 | 9.11 | 9.14 | 9.12 | 53.44 | 54.82 | 5.22 | 4.99 |
| Feb 1 | 0.96 | 0.93 | 10.11 | 9.29 | 10.64 | 10.02 | 54.84 | 56.29 | 5.55 | 5.23 |
| Mar 1 | 0.89 | 0.85 | 10.07 | 9.78 | 11.46 | 11.72 | 54.86 | 55.53 | 5.53 | 5.44 |
| Apr 1 | 0.77 | 0.74 | 10.38 | 9.74 | 13.69 | 13.52 | 54.52 | 54.17 | 5.67 | 5.27 |

## Fruit Size Comparisons to Previous Seasons

Size frequency distributions from the March size survey are shown in the below table. The distributions are by percent of fruit falling within the size range of each 4/5-bushel container. These frequency distributions include fruit from regular bloom and exclude fruit from summer bloom.

The chart to the right shows the distribution of fruit sizes in 2024 compared to 2025. The diameter measurements shown are the minimum values of fruit measured, except for the smallest value.

### Fruit Size Frequency Measurements, Valencia Oranges, by Diameter – Florida: March




### Citrus Size Frequency Measurement Distributions, by Type – Florida: March

| Type and number of fruit per 4/5 – bushel containers | 2023 | 2024 | 2025 |
|---|---|---|---|
| | (percent) | (percent) | (percent) |
| **VALENCIA ORANGES** | | | |
| 64 or less | 0.6 | 1.1 | 0.9 |
| 80 | 2.9 | 6.5 | 8.6 |
| 100 | 16.1 | 23.0 | 30.4 |
| 125 | 32.2 | 32.6 | 31.6 |
| 163 or more | 48.2 | 36.8 | 28.5 |