



CITRUS FEBRUARY 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

February 11, 2025

Florida All Orange Production Down 4 Percent from January Forecast
Florida Non-Valencia Orange Production Down 10 Percent
Florida Valencia Orange Unchanged
Florida All Grapefruit Production Down 8 Percent
Florida Lemon Production Unchanged
Florida All Tangerine and Mandarin Production Up 17 Percent

FORECAST DATES - 2024-2025 SEASON			
March 11, 2025		May 12, 2025	
April 10, 2025		June 12, 2024	
		July 11, 2025	

Citrus Production by Type – States and United States

Crop and State	Production ¹		2024-2025 Forecasted Production ¹	
	2022-2023 (1,000 boxes)	2023-2024 (1,000 boxes)	January (1,000 boxes)	February (1,000 boxes)
Non-Valencia Oranges ²				
Florida	6,150	6,760	5,000	4,500
California ³	36,000	38,200	39,000	39,000
Texas ³	570	690	600	600
United States	42,720	45,650	44,600	44,100
Valencia Oranges				
Florida	9,670	11,200	7,000	7,000
California ³	8,600	9,300	8,400	8,400
Texas ³	560	490	300	300
United States	18,830	20,990	15,700	15,700
All Oranges				
Florida	15,820	17,960	12,000	11,500
California ³	44,600	47,500	47,400	47,400
Texas ³	1,130	1,180	900	900
United States	61,550	66,640	60,300	59,800
Grapefruit				
Florida-All	1,810	1,790	1,200	1,100
Red	1,560	1,550	1,050	1,000
White	250	240	150	100
California ³	4,500	4,300	3,700	3,700
Texas ³	2,250	2,400	2,500	2,500
United States	8,560	8,490	7,400	7,300
Lemons ³				
Florida ⁴	(NA)	(NA)	600	600
Arizona	1,400	950	900	900
California	25,800	24,600	26,000	26,000
United States	27,200	25,550	27,500	27,500
Tangerines and Mandarins ⁵				
Florida	480	450	300	350
California ³	23,500	27,400	25,000	25,000
United States	23,980	27,850	25,300	25,350

¹ Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California and Texas-80, Florida-85; lemons in Arizona and California-80, Florida-90; 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 carried forward from January.

⁴ Estimates began with the 2024-2025 crop year.

⁵ Includes tangelos and tangors.

All Oranges 11.5 Million Boxes

The 2024-2025 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 11.5 million boxes, down 500,000 boxes from the January forecast. If realized, this will be 36 percent less than last season's final production. The forecast consists of 4.50 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 first late bloom.

Non-Valencia Oranges 4.50 Million Boxes

The forecast of non-Valencia production is reduced 500,000 boxes to 4.50 million boxes. Size and drop components were final last month. The Row Count survey conducted January 28-29, 2025, showed 95 percent of the early and mid-season non-Valencia rows, excluding Navels, are harvested. 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 production is unchanged from the January forecast at 7.00 million boxes. Current fruit size is below average and is projected to be below average at harvest. Current droppage is above the maximum and projected to be above the maximum at harvest.

Reliability

To assist users in evaluating the reliability of the February 1 Florida production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the February 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 February 1 Florida all orange production forecast is 6.7 percent. If you exclude the four abnormal production seasons (four hurricane seasons), the "Root Mean Square Error" is 7.0 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 6.7 percent, or 7.0 percent excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 11.6 percent including abnormal seasons and 12.2 percent excluding abnormal seasons.

Changes between the February 1 Florida all orange forecast and the final estimates during the past 20 years have averaged 5.25 million boxes (5.13 million, excluding abnormal seasons), ranging from 0.05 million boxes to 12.7 million boxes including abnormal seasons, (0.70 to 12.7 million boxes excluding abnormal seasons). The February 1 forecast for all oranges has been below the final estimate 7 times, above 13 times, (below 6 times, above 10 times, excluding abnormal seasons). The difference does not imply that the February 1 forecasts this year are likely to understate or overstate final production.

Forecast Components, by Type – Florida: February 2025

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

Type	Bearing trees (1,000 trees)	Fruit per tree (number)	Droppage (percent)	Fruit per box (number)
ORANGES				
Early & mid-season (Non-Valencia) ¹	9,725	392	56	327
Navel	480	123	65	146
Valencia.....	20,124	244	60	256
GRAPEFRUIT				
Red.....	1,357	271	43	123
White.....	161	369	51	100

¹ Excludes Navels.

All Grapefruit 1.10 Million Boxes

The February forecast of all grapefruit production is down 100,000 boxes from January. The white grapefruit forecast is lowered 50,000 boxes to 100,000 boxes. The red grapefruit is lowered to 1.00 million boxes. Fruit size and drop are final in this report. White and red grapefruit final size are above average. Drop for white and red grapefruit is above the maximum. The Row Count survey conducted January 28-29, 2025 showed 62 percent of the grapefruit rows are harvested.

Lemons 600,000 Boxes

The forecast of lemons is 600,000 boxes, carried over from the January forecast.

Tangerines and Mandarins 350,000 Boxes

The forecast for tangerines and tangelos is raised 50,000 boxes from the January forecast to 350,000 boxes, now 22 percent less than last season's utilization of 450,000 boxes. This forecast number includes all certified tangerine and tangelo varieties.

Maturity

Regular bloom fruit samples were collected from groves on established routes January 28-29, 2025 in Florida's five major citrus producing areas and tested January 30, 2025. In the table below, all comparisons are made to the previous season.

Unadjusted Maturity Tests — Florida: February 1, 2023-2024 and 2024-2025

[Averages of regular bloom fruit from sample groves. Samples were run through an FMC 091B machine using pneumatic pressure. This machine utilizes a 0.025 short strainer with 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
ORANGES	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
Valencia (147-144)										
Oct 1	1.76	1.80	9.15	8.65	5.31	4.87	45.56	47.10	4.17	4.08
Nov 1.....	1.46	1.47	9.21	8.70	6.41	6.01	49.11	50.74	4.52	4.42
Dec 1.....	1.23	1.17	9.53	9.00	7.92	7.78	51.43	54.48	4.90	4.91
Jan 1	1.08	1.01	9.72	9.12	9.12	9.10	53.39	53.80	5.19	4.91
Feb 1	0.96	0.93	10.03	9.31	10.61	10.17	54.68	55.70	5.49	5.19

Size Frequency Measurement Distributions, by Type — Florida: January Survey

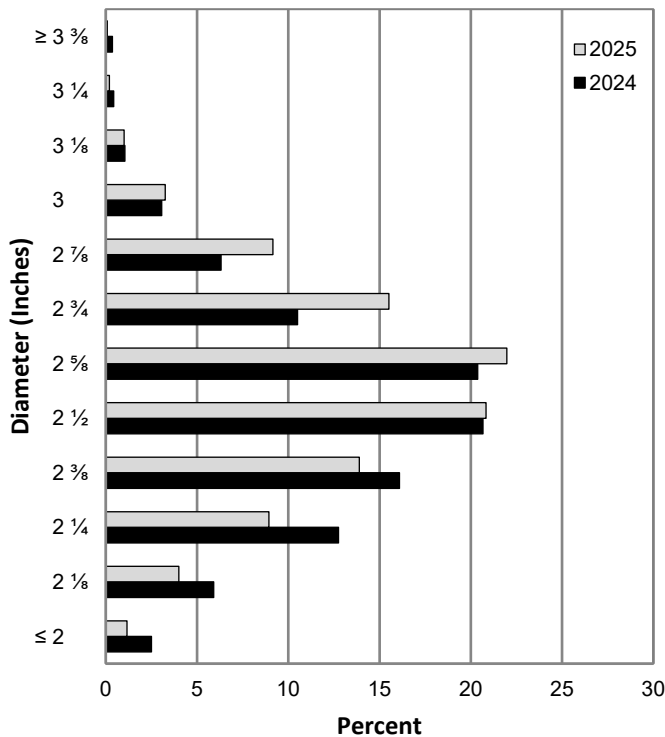
[Size frequency distributions from the January size survey are shown in the following table. The distributions are by percent of fruit falling within the size range of each 4/5-bushel container. These frequency distributions include fruit from regular bloom and exclude fruit from summer bloom]

Type and number of fruit per 4/5 – bushel containers	2023	2024	2024	Type and number of fruit per 4/5 – bushel containers	2023	2024	2024
	(percent)	(percent)	(percent)		(percent)	(percent)	(percent)
VALENCIA ORANGES				WHITE GRAPEFRUIT ¹			
64 or less	0.3	1.2	0.6	32 or less	3.9	2.0	9.2
80	2.8	6.3	7.3	36	8.5	8.3	15.8
100	15.8	21.8	30.5	40	15.2	23.0	22.5
125	36.7	33.5	33.6	48	20.3	23.0	15.0
163 or more	44.4	37.2	28.0	56	19.4	18.4	19.2
				63 or more	32.7	25.3	18.3
RED GRAPEFRUIT ¹							
32 or less	0.6	4.4	0.2				
36	2.3	6.8	3.1				
40	5.7	12.2	9.8				
48	6.5	14.9	17.1				
56	11.3	19.1	22.2				
63 or more	73.6	42.6	47.6				

¹ Excludes seedy.

The charts below show the distribution of fruit sizes in 2024 compared to 2025. The diameter measurements shown are the minimum values of each eighth inch range, except for the smallest value.

Fruit Size Frequency Measurements, Valencia Oranges, by Diameter - Florida: January Survey



Fruit Size Frequency Measurements, Red Seedless Grapefruit, by Diameter - Florida: January Survey

