



CITRUS JANUARY FORECAST MATURITY TEST RESULTS AND FRUIT SIZE

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January 10, 2025

Florida All Orange Production Unchanged from December Forecast
Florida Non-Valencia Orange Production Unchanged
Florida Valencia Orange Production Unchanged
Florida All Grapefruit Production Unchanged
Florida All Tangerine and Mandarin Production Down 14 Percent

FORECAST DATES - 2024-2025 SEASON			
February 11, 2025	May 12, 2025	March 11, 2025	June 12, 2025
April 10, 2025	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)	December (1,000 boxes)	January (1,000 boxes)
Non-Valencia Oranges ²				
Florida	6,150	6,760	5,000	5,000
California.....	36,000	38,200	39,000	39,000
Texas.....	570	690	400	600
United States.....	42,720	45,650	44,400	44,600
Valencia Oranges				
Florida	9,670	11,200	7,000	7,000
California.....	8,600	9,300	8,700	8,400
Texas.....	560	490	450	300
United States.....	18,830	20,990	16,150	15,700
All Oranges				
Florida	15,820	17,960	12,000	12,000
California.....	44,600	47,500	47,700	47,400
Texas.....	1,130	1,180	850	900
United States.....	61,550	66,640	60,550	60,300
Grapefruit				
Florida-All	1,810	1,790	1,200	1,200
Red	1,560	1,550	1,050	1,050
White	250	240	150	150
California ³	4,500	4,300	4,200	3,700
Texas.....	2,250	2,400	1,900	2,500
United States.....	8,560	8,490	7,300	7,400
Lemons				
Florida ⁴	(NA)	(NA)	500	600
Arizona.....	1,400	950	900	900
California.....	25,800	24,600	26,000	26,000
United States.....	27,200	25,550	27,400	27,500
Tangerines and Mandarins ⁵				
Florida	480	450	350	300
California.....	23,500	27,400	25,000	25,000
United States.....	23,980	27,850	25,350	25,300

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

³ Includes pummelos in California.

⁴ Estimates began with the 2024-2025 crop year.

⁵ Includes tangelos.

All Oranges 12.0 Million Boxes

The 2024-2025 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 12.0 million boxes, unchanged from the December forecast. If realized, this will be 33 percent less than last season's final production. The forecast consists of 5.00 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 5.00 Million Boxes

The forecast of non-Valencia production is 5.00 million boxes. Final fruit size is smaller than the average, requiring 327 pieces to fill a 90-pound box. Final droppage of non-Valencia oranges (excluding Navels) at 56 percent is above to the maximum. The Navel forecast, included in the non-Valencia forecast, is 150,000 boxes, and is 3 percent of the non-Valencia total.

Valencia Oranges 7.00 Million Boxes

The forecast of Valencia production is unchanged from the December forecast. Current fruit size is average and is projected to be average at harvest. Current droppage is above the maximum and projected to be above the maximum at harvest.

All Grapefruit 1.20 Million Boxes

The forecast of all grapefruit production is unchanged from the December forecast. If realized, this will be 33 percent less than last season's final production. The red grapefruit forecast is unchanged at 1.05 million boxes. Fruit size of red grapefruit at harvest is projected to be above the maximum, and droppage is projected to be above the maximum. The white grapefruit forecast is unchanged at 150,000 boxes. Projected fruit size of white grapefruit at harvest is above average. White grapefruit droppage is projected to be above the maximum.

Lemons 600,000 Boxes

The forecast of lemons is 600,000 boxes, up 100,000 boxes from the October forecast.

Tangerines and Mandarins 300,000 Boxes

The forecast for tangerines and mandarins is 300,000 boxes, down 14 percent from December, and 33 percent less than last season's utilization of 450,000 boxes. This forecast number includes all certified tangerine and tangelo varieties.

Reliability

To assist users in evaluating the reliability of the January 1 Florida production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the January 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 January 1 Florida all orange production forecast is 7.8 percent. If you exclude the four abnormal production seasons (four hurricane seasons) chances are 7.6 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 7.8 percent, including abnormal seasons, and 7.6 percent excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 13.5 percent including abnormal seasons, or 13.2 percent excluding abnormal seasons.

Changes between the January 1 Florida all orange forecast and the final estimates during the past 20 years have averaged 4.98 million boxes (4.63 million boxes, excluding abnormal seasons), ranging from 0.30 million boxes to 12.7 million boxes (including and excluding abnormal seasons). The January 1 forecast for all oranges has been below the final estimate 4 times, above 16 times, (below 4 times, above 12 times, excluding abnormal seasons). The difference does not imply that the January 1 forecast this year is likely to understate or overstate final production.

Forecast Components, by Type – Florida: January 2025

[Survey data is considered final in December for Navels, January for early-midseason (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-midseason (Non-Valencia) ¹ ..	9,725	392	56	327
Navel.....	480	123	65	146
Valencia	20,124	244	60	253
GRAPEFRUIT				
Red	1,357	271	43	116
White.....	161	369	41	106

¹ Excludes Navels.

Maturity

Regular bloom fruit samples were collected on December 26-27, 2024 from groves on established routes across Florida's citrus producing region, and tested by the USDA, NASS, Florida Field Office on December 30-31, 2024.

Unadjusted Maturity Tests — Florida: January 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
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
ORANGES										
Early N-V (37-37)										
Sep 1	1.07	1.19	9.67	8.91	9.16	7.57	45.11	42.26	4.36	3.77
Oct 1	0.84	0.86	8.99	8.86	10.87	10.48	46.05	49.01	4.14	4.34
Nov 1	0.68	0.70	9.14	9.06	13.58	13.07	47.79	50.35	4.37	4.55
Dec 1	0.61	0.60	9.39	9.03	15.41	15.35	50.69	53.42	4.76	4.82
Jan 1	0.60	0.58	9.63	8.91	16.29	15.56	49.70	50.10	4.79	4.47
Midseason N-V (20-9)										
Sep 1	1.22	1.47	9.02	8.79	7.47	6.03	42.62	42.69	3.84	3.76
Oct 1	0.96	1.09	9.23	8.57	9.81	8.00	47.45	49.03	4.38	4.20
Nov 1	0.77	0.85	8.96	8.56	11.68	10.24	48.92	49.92	4.37	4.27
Dec 1	0.71	0.71	9.31	8.53	13.21	12.33	50.77	53.89	4.73	4.61
Jan 1	0.64	0.67	9.04	8.72	14.19	13.28	51.03	53.58	4.60	4.68
Valencia (149-148)										
Sep 1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oct 1	1.76	1.79	9.14	8.65	5.31	4.88	45.58	47.23	4.17	4.09
Nov 1	1.46	1.46	9.20	8.69	6.41	6.02	49.08	50.74	4.52	4.41
Dec 1	1.22	1.17	9.53	8.99	7.92	7.77	51.41	54.52	4.90	4.90
Jan 1	1.08	1.01	9.72	9.11	9.13	9.11	53.42	53.83	5.19	4.91

(N-V) Non-Valencia

(NA) Not available.

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

[Size frequency distributions from the December 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]

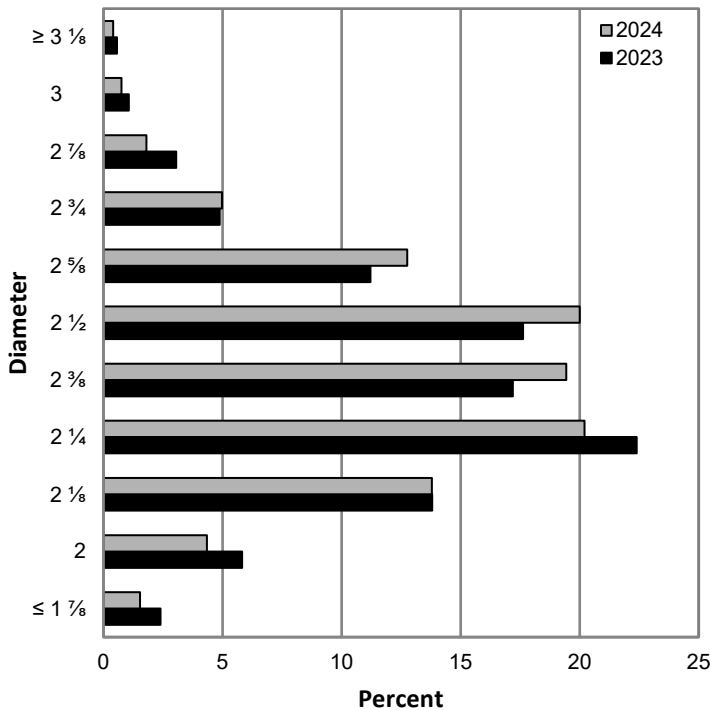
Type and number of fruit per 4/5 – bushel containers	2022	2023	2024	Type and number of fruit per 4/5 – bushel containers	2022	2023	2024
	(percent)	(percent)	(percent)		(percent)	(percent)	(percent)
NON-VALENCIA ORANGES ¹				RED GRAPEFRUIT ²			
64 or less	0.1	0.3	0.3	32 or less	0.5	1.3	3.5
80	1.3	2.5	1.5	36	3.1	5.5	4.4
100	8.9	10.5	10.3	40	7.0	9.9	9.7
125	28.0	25.1	28.6	48	10.5	14.4	14.8
163 or more	61.7	61.6	59.3	56	13.2	14.4	16.9
				63 or more	65.7	54.5	50.7
VALENCIA ORANGES				WHITE GRAPEFRUIT ²			
64 or less	0.2	0.7	0.8	32 or less	0.6	1.2	3.7
80	2.5	4.7	6.4	36	6.1	7.0	15.0
100	14.0	18.5	25.3	40	14.8	12.2	14.4
125	34.1	34.9	35.4	48	17.6	17.6	18.8
163 or more	49.2	41.2	32.1	56	22.6	21.2	14.4
				63 or more	38.3	40.8	33.7

¹ Excludes Navels.

² Excludes seedy.

The charts below show the distribution of fruit sizes in 2023 compared to 2024. The diameter measurements shown are the minimum values of each eighth inch range, except for the smallest values.

Fruit Size Frequency Measurements, Non-Valencia Oranges ¹, by Diameter - Florida: December Survey



¹ Excludes Navels.

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

