



CITRUS NOVEMBER FORECAST MATURITY TEST RESULTS AND FRUIT SIZE

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November 9, 2023

Florida All Orange Production 20.5 Million Boxes
Florida Non-Valencia Orange Production 7.50 Million Boxes
Florida Valencia Orange Production 13.0 Million Boxes
Florida All Grapefruit Production 1.90 Million Boxes
Florida All Tangerine and Tangelo Production 500,000 Boxes

FORECAST DATES – 2022-2023 SEASON	
December 8, 2023	April 11, 2024
January 12, 2024	May 10, 2024
February 8, 2024	June 12, 2024
March 8, 2024	July 12, 2024

Citrus Production by Type – States and United States

Crop and State	Production ¹			Forecasted Production ^{1 2}
	2020-2021 (1,000 boxes)	2021-2022 (1,000 boxes)	2022-2023 (1,000 boxes)	2023-2024 (1,000 boxes)
Non-Valencia Oranges ³				
Florida	22,700	18,250	6,150	7,500
California	41,300	31,500	36,500	37,000
Texas	1,000	170	570	450
United States	65,000	49,920	43,220	44,950
Valencia Oranges				
Florida	30,250	22,950	9,650	13,000
California	7,700	7,600	6,700	7,500
Texas	50	30	560	350
United States	38,000	30,580	16,910	20,850
All Oranges				
Florida	52,950	41,200	15,800	20,500
California	49,000	39,100	43,200	44,500
Texas	1,050	200	1,130	800
United States	103,000	80,500	60,130	65,800
Grapefruit				
Florida-All	4,100	3,330	1,810	1,900
Red	3,480	2,830	1,560	1,650
White	620	500	250	250
California ⁴	4,200	4,100	4,000	3,500
Texas	2,400	1,700	2,250	2,200
United States	10,700	9,130	8,060	7,600
Lemons				
Arizona	750	1,250	1,400	1,500
California	21,400	25,200	26,500	23,000
United States	22,150	26,450	27,900	24,500
Tangerines and Mandarins ⁵				
Florida	890	750	480	500
California	28,800	17,500	23,700	23,000
United States	29,690	18,250	24,180	23,500

¹ Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California and Texas-80, Florida-85; lemons-80; tangerines and mandarins in California-80, Florida-95.

² Estimates carried forward from October.

³ 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.

⁴ Includes pummelos in California.

⁵ Includes tangelos.

All Oranges 20.5 Million Boxes

The 2023-2024 Florida all orange forecast released today by the USDA Agricultural Statistics Board is carried forward from October at 20.5 million boxes, up 30 percent from last season's final production. The total includes 7.50 million boxes of non-Valencia-oranges (early, midseason, and Navel varieties) and 13.0 million boxes of Valencia oranges. The Navel orange forecast, at 300,000 boxes, accounts for 4 percent of the non-Valencia total.

All Grapefruit 1.90 Million Boxes

The forecast of all grapefruit production is carried forward at 1.90 million boxes, 5 percent more than last season's utilization of 1.81 million boxes. The total is comprised of 1.65 million boxes of red grapefruit and 250,000 boxes of white grapefruit.

Tangerines and Tangelos Total 500,000 Boxes

The forecast for tangerine and tangelos is carried forward at 500,000 boxes, 4 percent more than last season's utilization of 480,000 boxes. This forecast number includes all certified tangerine and tangelo varieties.

Weather and Field Conditions

Daily temperatures during October were about average for this time of year, with highs mostly in the mid-80s. The first half of the month saw the citrus producing region experience widespread light to moderate rainfall, while the arrival of a drier airmass curtailed any significant rain for the remainder of the month. According to the October 26, 2023, U.S. Drought Monitor, various levels of drought and abnormal dryness were firmly entrenched in the citrus counties along the Gulf coast. Grove activities included spraying pesticides and nutritionals, fertilizing, herbiciding, mowing, hedging, topping, skirting tree canopies, removal of dead trees, replanting young trees, bactericide trunk injection, construction of screenhouses, and general grove maintenance.

Crop Progress

The crop season began with harvesting of Navel and Hamlin oranges, red grapefruit, and Fallglo and Early Pride tangerines, primarily for the fresh market. According to the Citrus Administrative Committee Fresh and Cannery Report, dated October 29, 2023, 2 percent of oranges, 5 percent of grapefruit, and 5 percent of tangerines and tangelos have been certified.

Maturity

Regular bloom fruit samples (320 orange and 97 grapefruit) were collected from groves on established routes across Florida's citrus region and tested by the Florida Agricultural Statistics Service (FASS) on November 1-3, 2023.

Unadjusted Maturity Tests – Florida: 2022-2023 and 2023-2024

[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 with a 1-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	
	2022-2023	2023-2024	2022-2023	2023-2024	2022-2023	2023-2024	2022-2023	2023-2024	2022-2023	2023-2024
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
ORANGES										
Early N-V (120-117)										
Sep 1	1.25	1.06	9.13	9.65	7.37	9.18	43.31	45.62	3.95	4.40
Oct 1	0.91	0.82	9.15	9.05	10.25	11.18	46.80	45.89	4.28	4.15
Nov 1	0.76	0.67	9.16	9.09	12.20	13.67	49.70	48.95	4.55	4.45
Midseason N-V (55-54)										
Sep 1	1.36	1.20	8.88	9.18	6.57	7.73	43.36	43.61	3.85	4.00
Oct 1	0.99	0.98	8.94	9.26	9.15	9.56	47.63	46.74	4.26	4.33
Nov 1	0.82	0.78	8.86	9.02	10.87	11.70	50.07	49.49	4.44	4.47
Valencia (150-149)										
Sep 1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oct 1	1.94	1.76	8.95	9.14	4.66	5.31	46.80	45.58	4.19	4.17
Nov 1	1.62	1.46	8.90	9.20	5.58	6.41	49.66	49.08	4.42	4.52
GRAPEFRUIT										
Red Seedless (48-47)										
Sep 1	1.54	1.49	10.46	10.88	6.84	7.34	39.12	40.22	4.09	4.37
Oct 1	1.38	1.26	10.01	10.24	7.31	8.13	46.01	43.75	4.61	4.48
Nov 1	1.27	1.22	9.86	10.04	7.83	8.22	49.68	48.85	4.90	4.91
White Seedless (50-50)										
Sep 1	1.64	1.65	10.57	10.93	6.49	6.67	40.41	39.25	4.27	4.28
Oct 1	1.50	1.41	10.19	10.50	6.83	7.47	46.82	42.98	4.76	4.51
Nov 1	1.32	1.34	9.95	10.20	7.59	7.65	50.78	48.72	5.05	4.97

NA Not available.

Size Frequency Measurement Distributions, by Type – Florida: October

[Size frequency distributions from the October 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.]

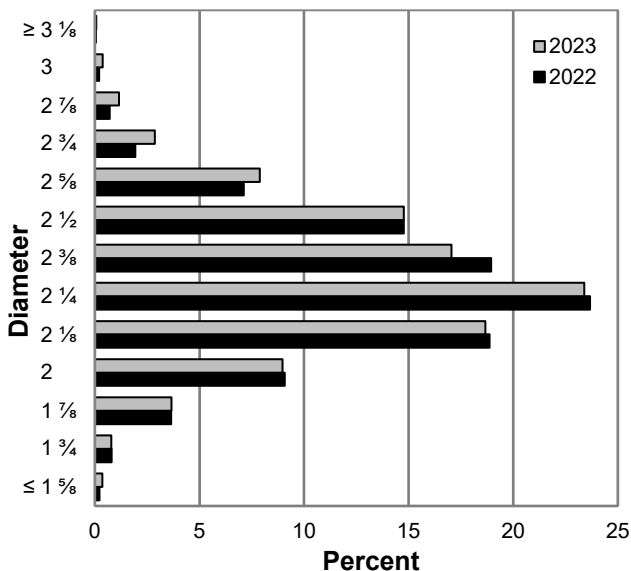
Type and number of fruit per 4/5-bushel containers	2021	2022	2023	Type and number of fruit per 4/5-bushel containers	2021	2022	2023
	(percent)	(percent)	(percent)		(percent)	(percent)	(percent)
NON-VALENCIA ORANGES ¹				RED GRAPEFRUIT ²			
64 or less	0.0	0.1	0.1	32 or less.....	0.4	0.2	1.1
80.....	0.4	0.4	0.8	36.....	3.1	1.5	3.3
100.....	6.0	4.5	6.0	40.....	7.5	4.6	8.6
125.....	22.7	19.8	20.2	48.....	14.5	10.0	13.7
163 or more.....	70.9	75.2	72.9	56.....	17.0	15.6	17.8
				63 or more.....	57.5	68.1	55.5
NAVEL ORANGES				WHITE GRAPEFRUIT ²			
64 or less	34.1	44.1	39.3	32 or less.....	0.9	0.0	1.0
80.....	32.5	30.4	31.9	36.....	6.5	2.0	3.2
100.....	23.7	17.3	18.9	40.....	14.1	8.5	11.7
125.....	7.6	6.7	7.1	48.....	20.7	14.2	16.5
163 or more.....	2.1	1.5	2.8	56.....	19.8	21.5	21.0
				63 or more.....	38.0	53.8	46.6
VALENCIA ORANGES							
64 or less	0.1	0.1	0.2				
80.....	1.2	0.5	1.6				
100.....	9.2	6.1	10.0				
125.....	24.9	25.1	27.1				
163 or more.....	64.6	68.2	61.1				

¹ Excludes Navels.

² Excludes seedy.

The charts below show the distribution of fruit sizes in 2022 compared to 2023. 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: October



¹ Excludes Navels.

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

