



# CITRUS MATURITY TEST RESULTS

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

September 12, 2023

Results of the first orange and grapefruit maturity tests for the 2023-2024 season, using only regular bloom fruit, are listed below. Sample groves and trees remain relatively constant from season to season. Fruit was picked from trees throughout the citrus growing region on August 28-29, 2023. Each sample was weighed, juiced, and tested by the Florida Agricultural Statistics Service (FASS) on September 5-6, 2023. The next monthly maturity and yield test results will be published in the October 12, 2023 forecast release, and will include late (Valencia) oranges.

Results on this table are averages for the state.

## Citrus Unadjusted Maturity Tests by Type – Florida: September 1, For Crop Years 2019-2020 through 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, 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 and Crop Year	Groves sampled	Acid	Solids (Brix)	Solids/Acid	Unfinished juice per box	Solids per box
	(number)	(percent)	(percent)	(ratio)	(pounds)	(pounds)
<b>Early Non-Valencia Oranges</b>						
2019-2020.....	120	1.21	9.06	7.58	45.11	4.09
2020-2021.....	120	1.21	9.82	7.42	44.44	3.91
2021-2022.....	120	1.16	9.10	7.92	43.73	3.98
2022-2023.....	120	1.25	9.13	7.37	43.31	3.95
2023-2024.....	120	1.07	9.64	9.15	45.60	4.40
<b>Midseason Non-Valencia Oranges</b>						
2019-2020.....	55	1.37	9.04	6.71	45.55	4.12
2020-2021.....	55	1.26	8.57	6.91	45.27	3.88
2021-2022.....	54	1.32	8.74	6.78	44.96	3.93
2022-2023.....	55	1.36	8.88	6.57	43.36	3.85
2023-2024.....	54	1.20	9.18	7.73	43.61	4.00
<b>Red Seedless Grapefruit</b>						
2019-2020.....	50	1.53	10.10	6.63	39.41	3.98
2020-2021.....	50	1.46	9.89	6.80	38.64	3.82
2021-2022.....	50	1.42	9.70	6.86	38.88	3.77
2022-2023.....	50	1.53	10.44	6.86	39.09	4.08
2023-2024.....	50	1.49	10.86	7.33	40.08	4.35
<b>White Seedless Grapefruit</b>						
2019-2020.....	50	1.63	10.32	6.36	38.92	4.02
2020-2021.....	49	1.46	9.99	6.88	39.06	3.90
2021-2022.....	50	1.55	9.98	6.44	39.04	3.89
2022-2023.....	50	1.64	10.57	6.49	40.41	4.27
2023-2024.....	50	1.65	10.93	6.67	39.25	4.28