



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 10, 2021

Results of the first orange and grapefruit maturity tests for the 2021-2022 season, using only regular bloom fruit, are listed below. 89 percent of the grapefruit sample groves are located in the Indian River District, while over 90 percent of the orange sample groves are in the other four production areas. Sample groves and trees remain relatively constant from season to season. Fruit was picked from trees throughout the five production areas of the citrus growing region on August 30-31, 2021. Each sample was weighed, juiced, and tested by the Florida Agricultural Statistics Service (FASS) on September 1-2, 2021. The next monthly maturity and yield test results will be published in the October 12, 2021 forecast release, and will include late (Valencia) oranges.

Results on this page are averages for the state. The table on page two reports averages for the Indian River District separately from the other areas. Compared to the other areas, fruit sampled from the Indian River District had lower solids to acid ratios for early oranges but was higher for red grapefruit. The unfinished juice per box was lower on early oranges and red grapefruit in samples from the Indian River District. Solids per box in fruit from the Indian River District was higher on early oranges and lower on red grapefruit.

Citrus Unadjusted Maturity Tests by Type – Florida: September 1, For Crop Years 2017-2018 through 2021-2022

[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)
Early N-V Oranges						
2017-2018	117	1.17	9.10	7.96	43.84	3.99
2018-2019	120	1.19	8.84	7.51	43.68	3.86
2019-2020	120	1.21	9.06	7.58	45.11	4.09
2020-2021	120	1.21	8.82	7.42	44.44	3.91
2021-2022	120	1.16	9.10	7.92	43.73	3.98
Midseason N-V Oranges						
2017-2018	55	1.27	8.97	7.22	44.70	4.01
2018-2019	55	1.32	8.93	6.84	44.64	3.99
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
Red Seedless Grapefruit						
2017-2018	49	1.43	9.83	6.89	37.09	3.65
2018-2019	50	1.44	9.72	6.79	36.75	3.58
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
White Seedless Grapefruit						
2017-2018	48	1.53	9.75	6.39	37.19	3.63
2018-2019	50	1.53	9.84	6.45	36.37	3.58
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

Citrus Fruit Maturity Test Averages, by Area – Florida: September 1, 2021

Fruit type and Area	Groves sampled	Acid	Solids (Brix)	Solids/Acid	Unfinished juice per box	Solids per box
	(number)	(percent)	(percent)	(ratio)	(pounds)	(pounds)
ORANGES:						
Early N-V						
Indian River	9	1.31	9.61	7.40	43.17	4.14
Other areas ¹	111	1.15	9.06	7.97	43.77	3.97
Midseason N-V						
Indian River	2	(D)	(D)	(D)	(D)	(D)
Other areas ¹	52	1.32	8.74	6.79	45.04	3.94
GRAPEFRUIT:						
Red Seedless						
Indian River	43	1.43	9.78	6.88	38.42	3.75
Other areas ¹	7	1.36	9.26	6.80	41.67	3.87
White Seedless						
Indian River	46	1.56	10.01	6.43	38.84	3.88
Other areas ¹	4	(D)	(D)	(D)	(D)	(D)

N-V Non-Valencia

¹ Includes Central, Northern, Southern, and Western areas.

D Withheld to avoid disclosing data for individual operations.

