United States Department of Agriculture
National Agricultural Statistics Service

CITRUS MATURITY TEST RESULTS

Cooperating with the Florida Department of Agriculture and Consumer Services
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Results of the first orange and grapefruit maturity tests for the 2018-2019 season, using only regular bloom fruit, are listed below. Over 80 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 28-29, 2018. Each sample was weighed, juiced, and tested by the Florida Agricultural Statistics Service (FASS) on August 30-31, 2018. The next monthly maturity and yield test results will be published in the October 11, 2018 forecast release, and will include late 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 higher solids to acid ratios for early oranges and white grapefruit, and a lower ratio for red grapefruit. The unfinished juice per box and solids per box in fruit from the Indian River District was lower on all varieties.

Citrus Unadjusted Maturity Tests by Type – Florida: September 1, For Crop Years 2014-2015 through 2018-2019

[Averages of regular bloom fruit from sample groves. Juice and solids per box are unadjusted and not comparable to juice processing plant test results. For 2014-2015 through 2016-2017 all samples were run through an FMC 091 machine using mechanical pressure only. This machine utilizes a 0.040 short strainer and standard 5/8 inch orifice tube on all cups. For 2017-2018 through 2018-2019, 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 Oranges						
2014-2015	120	1.38	9.12	6.69	43.72	3.98
2015-2016	120	1.26	9.14	7.33	44.82	4.09
2016-2017	120	1.39	9.26	6.79	41.39	3.83
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
Midseason Oranges						
2014-2015	55	1.53	9.10	6.05	44.18	4.02
2015-2016	55	1.42	9.08	6.51	45.82	4.16
2016-2017	55	1.55	9.19	5.99	41.67	3.83
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
White Seedless Grapefruit						
2014-2015	50	1.64	9.97	6.11	34.69	3.46
2015-2016	50	1.65	9.74	5.91	35.06	3.41
2016-2017	50	1.78	10.24	5.77	31.92	3.26
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
Red Seedless Grapefruit						
2014-2015	50	1.63	9.92	6.10	34.79	3.45
2015-2016	50	1.58	9.77	6.20	35.37	3.45
2016-2017	50	1.70	10.17	6.02	33.17	3.37
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

Citrus Fruit Maturity Test Averages, by Area – Florida: September 1, 2018

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						
Indian River	9	1.17	8.84	7.59	42.22	3.72
Other areas	111	1.19	8.84	7.50	43.80	3.87
Midseason						
Indian River	2	(D)	(D)	(D)	(D)	(D)
Other areas	53	1.31	8.93	6.87	44.71	3.99
GRAPEFRUIT:						
White Seedless						
Indian River	42	1.54	9.90	6.43	36.00	3.56
Other areas	8	1.46	9.55	6.56	38.33	3.66
Red Seedless						
Indian River	42	1.43	9.70	6.81	36.48	3.55
Other areas	8	1.48	9.85	6.68	38.19	3.76

D Withheld to avoid disclosing data for individual operations.