United States Department of Agriculture
National Agricultural Statistics Service

CITRUS MATURITY TEST RESULTS

Cooperating with the Florida Department of Agriculture & Consumer Services
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Results of the first orange and grapefruit maturity tests for the 2013-2014 season, using only regular bloom fruit, are listed below. Over three-fourths of the grapefruit sample groves are located in the Indian River District while nearly 90 percent of the orange sample groves are in the other four areas. Sample groves and trees remain relatively constant from season to season. Fruit was picked from trees throughout the five areas of the citrus growing region on September 3-4, 2013. Each sample was weighed, juiced, and tested in the Florida Agricultural Statistics Service (FASS) laboratory on September 5-6, 2013. The next monthly maturity and yield test results will be published in the forecast release on October 11, 2013, and will include late oranges.

The percent of solids (Brix) is below the level of 2012-2013 for both orange and the colored seedless grapefruit types. Only the white seedless grapefruit type showed an increased level of Brix. Compared to last season, acid levels are higher; while ratios, unfinished juice per box, and solids per box are lower for all fruit types.

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. The percent of acid and Brix in the Indian River District is lower for early oranges but higher for midseason oranges and both types of grapefruit. Compared to fruit in the Indian River District, ratios, unfinished juice per box and solids per box in the other areas are all lower for early oranges but higher for midseason oranges and both grapefruit types.

Citrus Unadjusted Maturity Tests by Type – Florida: September 1, For Crop Years 2009-2010 through 2013-2014

[Averages of regular bloom fruit from sample groves. Juice and solids per box are unadjusted and not comparable to juice processing plant test results. 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. The beam settings are also identical to past tests and no restrictors are used]

Fruit Type and Crop Year	Groves sampled	Acid	Solids (Brix)	Ratio	Unfinished juice per box	Solids per box
	(number)	(percent)	(percent)		(pounds)	(pounds)
Early Oranges						
2009-2010	120	1.54	9.25	6.11	42.04	3.89
2010-2011	120	1.67	9.19	5.55	41.62	3.82
2011-2012	120	1.38	9.58	7.02	44.96	4.31
2012-2013	120	1.24	9.38	7.70	46.39	4.35
2013-2014	120	1.47	9.24	6.42	42.34	3.91
Midseason Oranges						
2009-2010	55	1.72	9.23	5.45	42.79	3.95
2010-2011	55	1.99	9.34	4.91	40.86	3.81
2011-2012	55	1.54	9.38	6.21	45.85	4.30
2012-2013	55	1.41	9.35	6.77	45.84	4.28
2013-2014	55	1.69	9.26	5.59	43.30	4.01
White Seedless Grapefruit						
2009-2010	50	1.75	9.79	5.60	31.48	3.08
2010-2011	50	1.88	10.19	5.45	31.82	3.24
2011-2012	50	1.64	10.17	6.27	33.91	3.45
2012-2013	50	1.52	9.91	6.52	35.04	3.47
2013-2014	50	1.78	10.08	5.70	31.55	3.17
Colored Seedless Grapefruit						
2009-2010	50	1.75	10.06	5.78	31.49	3.17
2010-2011	50	1.82	10.33	5.80	31.99	3.30
2011-2012	50	1.62	10.17	6.29	35.68	3.63
2012-2013	50	1.52	10.15	6.70	35.51	3.61
2013-2014	50	1.70	9.99	5.91	33.05	3.30

Citrus Fruit Maturity Test Averages, by Area – Florida: September 1, 2013

Fruit type and Area	Groves sampled	Acid	Solids (Brix)	Ratio	Unfinished juice per box	Solids per box
	(number)	(percent)	(percent)		(pounds)	(pounds)
ORANGES:						
Early						
Indian River	9	1.43	9.14	6.52	44.27	4.03
Other Areas	111	1.47	9.25	6.41	42.18	3.90
Midseason						
Indian River	11	1.78	9.34	5.35	41.18	3.85
Other Areas	44	1.66	9.24	5.66	43.84	4.05
GRAPEFRUIT:						
White Seedless						
Indian River	38	1.81	10.23	5.68	30.86	3.16
Other Areas	12	1.67	9.59	5.76	33.75	3.23
Colored Seedless						
Indian River	40	1.73	10.17	5.88	32.26	3.28
Other Areas	10	1.55	9.27	6.03	36.20	3.36