

United States Department of Agriculture National Agricultural Statistics Service

CITRUS MARCH FORECAST MATURITY TEST RESULTS AND FRUIT SIZE



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March 10, 2014

Florida All Orange Production Down 1 Percent Florida Non-Valencia Orange Production Down 2 Percent Florida Valencia Orange Production Unchanged Florida All Grapefruit Production Down 6 Percent Florida All Tangerine Production Down 7 Percent Florida Tangelo Production Up 13 Percent Florida FCOJ Yield 1.61 Gallons per Box (42° Brix)

FORECAST DATES -		2013-2014 SEASON
[Release tin	ne 12:00 p.m	n. EDT]
April 9, 2014 June 11, 2014		May 9, 2014 July 11, 2014

Citrus Production by Type and State - United States

Non-Valencia Oranges Telino December Telin	Crop and State		Production ¹			2013-2014 Forecasted Production ¹			
Non-Valencia Oranges Florida 70,300 74,200 67,100 54,000 53,000 California 48,000 45,500 44,000 42,000 42,000 rexas 1,700 1,108 1,499 1,455 1,455 1,455 United States 120,000 120,808 112,599 97,455 96,455 Valencia Oranges Florida 70,200 72,500 66,500 61,000 61,000 rexas 249 311 289 370 370 370 United States 49,499 85,311 79,289 72,870 73,370 Xalifornia 62,500 58,500 56,500 53,500 54,000 Xalifornia 62,500 58,500 56,500 53,500 54,000 Xalifornia 50,200 72,500 73,370 Xalifornia 70,200 72,500 73,370 Xalifornia 70,200 72,500 73,370 Xalifornia 70,200 72,500 72,500 72,870 73,370 Xalifornia 72,500 72,870 73,370 Xalifornia 72,500 73,500 74,000 74	Crop and State	2010-2011	2011-2012	2012-2013	February	March			
Florida		(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)			
California 3 48,000 45,500 44,000 42,000 42,000 Texas 3 1,700 1,108 1,499 1,455 1,455 United States 120,000 120,808 112,599 97,455 96,455 Valencia Oranges Florida 70,200 72,500 66,500 61,000 61,000 California 14,500 12,500 12,500 11,500 12,000 Texas 3 249 311 289 370 370 United States 84,949 85,311 79,289 72,870 73,370 All Oranges Florida 140,500 146,700 133,600 115,000 114,000 Texas 3 1,949 1,419 1,788 1,825 1,825 United States 204,949 206,119 191,888 170,325 169,825 Grapefruit 19,750 18,850 18,350 17,000 16,000 White 5,850 5,350 5,250 4,500 4,000	Non-Valencia Oranges ²								
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Florida 1,150 1,150 1,000 800 900 Tangerines Florida-All 4,650 4,290 3,280 3,500 3,250 Early 4 2,600 2,330 1,910 1,800 1,750 Honey 2,050 1,960 1,370 1,700 1,500 California 35 10,600 10,800 13,000 13,200 13,200 Arizona 35 300 200 200 200 200	United States	23,000	21,250	22,800	21,785	21,785			
Tangerines 4,650 4,290 3,280 3,500 3,250 Early 4 2,600 2,330 1,910 1,800 1,750 Honey 2,050 1,960 1,370 1,700 1,500 California 35 10,600 10,800 13,000 13,200 13,200 Arizona 35 300 200 200 200 200	Tangelos								
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Early ⁴ 2,600 2,330 1,910 1,800 1,750 Honey 2,050 1,960 1,370 1,700 1,500 California ^{3.5} 10,600 10,800 13,000 13,200 13,200 Arizona ^{3.5} 300 200 200 200 200 200	Tangerines								
Honey 2,050 1,960 1,370 1,700 1,500 California 35 10,600 10,800 13,000 13,200 13,200 Arizona 35 300 200 200 200 200 200	Florida-All	4,650	4,290	3,280	3,500	3,250			
California 35 10,600 10,800 13,000 13,200 Arizona 35 300 200 200 200 200	Early ⁴	2,600	2,330	1,910	1,800	1,750			
Arizona ³⁵	Honey	2,050	1,960	1,370	1,700	1,500			
Arizona ³⁵	California 3 5			-	· ·				
	Arizona ^{3 5}	· ·	· ·	· ·					
	United States	15,550	15,290		16,900	16,650			

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

² Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas. Includes small quantities of tangerines in Texas and Temples in Florida.

³ Estimates carried forward from January forecast.

⁴ Fallglo and Sunburst varieties.

⁵ Includes tangelos and tangors.

All Oranges 114.0 Million Boxes

The 2013-2014 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 114.0 million boxes, down 1.0 million boxes from February and 15 percent less than last season's production. The total includes 53.0 million boxes of non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 61.0 million boxes of Valencia oranges. The hurricane seasons of 2004-2005 and 2005-2006 have been excluded from the usual 10-year regression, and from comparisons of the current season to previous seasons, unless otherwise noted. For those previous 8 seasons, the March forecast has deviated from final production by an average-of 2 percent with 3 seasons below and 5 above, with differences ranging from 3 percent below to 4 percent above. All references to "average", "minimum", or "maximum" refer to the previous 8 non-hurricane seasons unless noted.

Non-Valencia Oranges 53.0 Million Boxes

The forecast of non-Valencia orange production is decreased by 1.0 million boxes to 53.0 million boxes, based on utilization to the 1st of the month. The Row Count survey conducted February 25-26 showed 98 percent of the rows have been harvested. The Navel portion of the non-Valencia forecast is final at 1.95 million boxes, 4 percent of the total.

Valencia Oranges 61.0 Million Boxes

The forecast of Valencia production remains at 61.0 million boxes. Limited harvest has begun. Fruit size is projected to be below the minimum, requiring 242 pieces of fruit to fill a 90-pound box. The projection of 26 percent droppage is above the maximum.

All Grapefruit 16.0 Million Boxes

The forecast of all grapefruit production is lowered by 1.0 million boxes to 16.0 million boxes. Both the white and colored components are reduced by 500 thousand boxes, resulting in forecasts of 4.0 million boxes of white and 12.0 million boxes of colored grapefruit. Although size and drop components were final last month, a follow-up survey was conducted in February, which shows white grapefruit size continues near the minimum, and colored grapefruit size is the smallest in the series dating back to the 1968-1969 season. Results of this survey show both colored grapefruit and white grapefruit droppage is the highest of any non-hurricane season. The Row Count survey indicated 52 percent of the white grapefruit and 62 percent of the colored grapefruit rows have been harvested.

All Tangerines 3.25 Million Boxes

The forecast of all tangerine production is lowered by 250 thousand boxes to 3.25 million boxes. The early tangerine forecast (Fallglo and Sunburst) is adjusted from 1.80 to 1.75 million boxes, with the harvest season complete for those varieties. The forecast of the later maturing Honey variety is reduced 200 thousand boxes to 1.5 million boxes. The Row Count survey showed 45 percent of the Honey tangerine rows have been harvested.

Tangelos 900 Thousand Boxes

The forecast of tangelo production is raised 100,000 boxes to 900,000 boxes, including an allocation of 100,000 boxes for non-certified use. Estimated utilization for the week ending March 2, as reported by the Citrus Administrative Committee, is 12,000 boxes. The Row Count survey conducted February 25-26 showed 92 percent of the rows have been harvested.

FCOJ Yield 1.61 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) remains at 1.61 gallons per box of 42° Brix concentrate. The yield projection for the non-Valencia oranges is lowered to 1.52 gallons per box while the projection for Valencia oranges continues at 1.69 gallons per box. Last season's final yield for all oranges was 1.587680 gallons per box, as reported by the Florida Department of Citrus. Last season's final yield for the components were 1.508465 for non-Valencia oranges and 1.692050 for Valencia oranges.

Forecast Components, by Type — Florida: March 2014

[Survey data is considered final in December for Navels, January for early-midseason oranges, February for grapefruit, and April for Valencias]

Туре	Bearing trees	Fruit per tree	Droppage	Fruit per box
	(1,000 trees)	(number)	(percent)	(number)
ORANGES				
Early-midseason	23,660	918	23	286
Navel	985	429	19	144
Valencia	32,149	614	26	242
GRAPEFRUIT				
White	1,282	555	29	118
Colored	3,617	500	25	123

Maturity

Regular bloom fruit samples of Valencia oranges were collected from groves on established routes on February 25-26, 2014, in Florida's five major citrus producing areas and tested February 27, 2014. The acid level is higher than the previous season while solids (Brix) is lower, resulting in lower ratios. In comparison to last season, unfinished juice per box is up but solids per box is down.

Acids and solids (Brix) in fruit from the Indian River are lower than in other areas and ratios are higher. Unfinished juice per box and solids per box for Indian River fruit are lower compared to other areas and also lower than last season's values.

Citrus Unadjusted Maturity Tests — Florida: 2012-2013 and 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 .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 (number of groves)	Acid			Solids (Brix) Ratio		ıtio	Unfinished juice per box		Solids per box	
test date	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
LATE ORANGES										
(149-147)										
Oct 1	2.16	2.19	8.81	8.65	4.17	4.01	44.92	46.38	3.96	4.01
Nov 1	1.69	1.84	9.29	9.25	5.60	5.08	51.30	50.84	4.76	4.70
Dec 1	1.51	1.51	10.10	10.06	6.83	6.76	53.53	54.28	5.41	5.46
Jan 1	1.34	1.27	10.90	10.88	8.26	8.66	54.52	54.21	5.94	5.90
Feb 1	1.13	1.20	11.80	11.22	10.62	9.50	55.56	55.47	6.55	6.22
Mar 1	1.04	1.06	12.19	11.90	11.93	11.34	54.92	55.76	6.69	6.63

Citrus Maturity Test Averages, by Areas — Florida: March 1, 2012-2013 and 2013-2014

Fruit type (number of groves)	Ac	cid	Solids (Brix)		I Ratio I		Unfinished juice per box		Solids per box	
(namber of groves)	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014	2012-2013	2013-2014
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
LATE ORANGES										
Indian River (27-29)	1.09	1.05	12.33	11.78	11.44	11.45	55.86	55.61	6.88	6.55
Other Areas (122-118)	1.02	1.07	12.16	11.93	12.04	11.32	54.71	55.80	6.65	6.65

Fruit Size Comparisons by Types to Previous Seasons

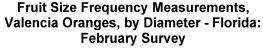
Size frequency distributions from the February size survey are shown in the following table. The distributions are by percent of fruit falling within the size range of each 4/5-bushel container. These frequency distributions include fruit from regular bloom and exclude fruit from summer bloom.

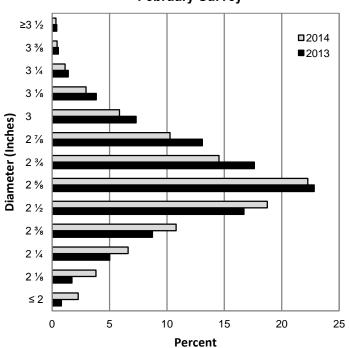
Citrus Size Frequency Measurement Distributions, by Type — Florida: February Survey

				, , , , , , , , , , , , , , , , , , , ,			
Type and number of fruit per 4/5 – bushel containers	2012	2013	2014	Type and number of fruit per 4/5 – bushel containers	2012	2013	2014
	(percent)	(percent)	(percent)		(percent)	(percent)	(percent)
VALENCIA ORANGES				WHITE GRAPEFRUIT ¹			
64 or less	6.5	4.1	3.0	32 or less	15.9	6.3	8.1
80	25.3	15.5	12.2	36	19.6	9.7	10.9
100	40.1	34.8	30.1	40	14.7	8.8	8.9
125	21.6	29.3	31.2	48	14.6	14.3	12.1
163 or more	6.5	16.3	23.5	56	9.4	10.1	9.3
				63 or more	25.8	50.8	50.7
HONEY TANGERINES				COLORED GRAPEFRUIT			
80 or less	16.4	17.2	8.1	32 or less	12.2	1.3	4.8
100	24.1	24.6	13.7	36	11.9	7.0	6.1
120	25.9	23.2	21.9	40	14.3	10.3	8.3
176	15.9	11.6	17.1	48	16.9	13.9	12.6
210 or more	17.7	23.4	39.2	56	12.9	12.0	11.2
				63 or more	31.8	55.5	57.0

Excludes seedy.

The charts below show the distribution of fruit sizes in 2014 compared to 2013. The diameter measurements shown are the minimum values of each eighth inch range, except for the smallest values.





Fruit Size Frequency Measurements, White Seedless Grapefruit, by Diameter - Florida: February Survey

