United States Department of Agriculture
National Agricultural Statistics Service

CITRUS

NOVEMBER FORECAST
MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture & Consumer Services
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November 9, 2010

- **All Oranges 146.0 Million Boxes**
- **Non-Valencia Oranges 69.0 Million Boxes**
- **Valencia Oranges 77.0 Million Boxes**
- **All Grapefruit 20.0 Million Boxes**
- **All Tangerines 4.5 Million Boxes**
- **Tangelos 1.1 Million Boxes**

FORECAST DATES – 2010-2011 SEASON	
December 10, 2010	April 8, 2011
January 12, 2011	May 11, 2011
February 9, 2011	June 9, 2011
March 10, 2011	July 12, 2011

Citrus Production by Type and State – United States

Crop and State	Production			Forecasted Production
	2007-2008	2008-2009	2009-2010	2010-2011
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Non-Valencia Oranges [1]				
Florida	**83,500**	**84,600**	**68,600**	**69,000**
California	45,000	34,500	42,500	46,500
Texas	1,600	1,300	1,360	1,400
Arizona [2]	230	150		
United States	130,330	120,550	112,460	116,900
Valencia Oranges				
Florida	**86,700**	**77,900**	**65,000**	**77,000**
California	17,000	12,000	14,000	14,000
Texas	196	159	275	290
Arizona [2]	150	100		
United States	104,046	90,159	79,275	91,290
All Oranges				
Florida	**170,200**	**162,500**	**133,600**	**146,000**
California	62,000	46,500	56,500	60,500
Texas	1,796	1,459	1,635	1,690
Arizona [2]	380	250		
United States	234,376	210,709	191,735	208,190
Grapefruit				
Florida-All	**26,600**	**21,700**	**20,300**	**20,000**
White	**9,000**	**6,600**	**6,000**	**6,000**
Colored	**17,600**	**15,100**	**14,300**	**14,000**
California	5,200	4,800	4,200	3,800
Texas	6,000	5,500	5,600	5,500
Arizona [2]	100	25		
United States	37,900	32,025	30,100	29,300
Lemons				
California	14,800	21,000	20,500	21,000
Arizona	1,500	3,000	2,200	2,700
United States	16,300	24,000	22,700	23,700
Tangelos				
Florida	**1,500**	**1,150**	**900**	**1,100**
Tangerines				
Florida-All	**5,500**	**3,850**	**4,450**	**4,500**
Early [3]	**2,600**	**2,550**	**2,250**	**2,700**
Honey	**2,900**	**1,300**	**2,200**	**1,800**
California [4]	6,700	6,700	9,900	10,000
Arizona [4]	400	250	350	300
United States	12,600	10,800	14,700	14,800

[1] Early, midseason, Navel, and Temple varieties.
[2] Estimates discontinued beginning with the 2009-2010 crop year.
[3] Fallglo and Sunburst varieties.
[4] Includes tangelos and tangors.

All Citrus 171.6 Million Boxes

The Florida all citrus forecast remains at 171.6 million boxes and typically is carried forward from the October forecast. It consists of 69.0 million boxes of non-Valencia oranges (early, midseason, Navel, and Temple varieties), 77.0 million boxes of Valencia oranges, 20.0 million boxes of grapefruit (white and colored), 1.1 million boxes of tangelos, and 4.5 million boxes of tangerines (Fallglo, Sunburst, and Honey). The forecasts are higher than last season's production for oranges, tangelos, and early tangerines. The forecast of white grapefruit equals the 2009-2010 production. Only the forecasts for colored grapefruit and Honey tangerines are lower than last season's production. When compared to last season, the estimated fruit per tree increased for all citrus varieties except the Honey tangerine.

The forecast of grapefruit production is 1 percent less than last season's production. The total is comprised of 6.0 million boxes of white grapefruit and 14.0 million boxes of colored grapefruit. All grapefruit bearing trees are estimated to be 4.8 million, down 7 percent from last season.

The forecast of all tangerines is 1 percent more than last season's production. The total is comprised of 2.7 million boxes of the early varieties (Fallglo and Sunburst) and 1.8 million boxes of the late maturing Honey variety. All tangerine bearing trees are estimated to be 1.8 million, down 8 percent from last season. The tangelo forecast is 22 percent higher than last season's final production. Tangelo projected fruit droppage and sizes are below average, while the estimated fruit per tree showed an increase of 48 percent from last season.

Weather and Field Conditions

The natural start of the 2010-2011 citrus season began during March with a heavy and widespread citrus bloom across most production areas. Ideal weather conditions during the bloom period resulted in a heavy fruit set. During late spring and into the summer months, growers and caretakers used drip-irrigation equipment to supplement the lack of rainfall. Early into the harvest season many citrus producing areas were abnormally dry with drought conditions reported in Indian River County. Although some abandoned citrus acreage has been destroyed, newly abandoned acreage was identified during the latest commercial citrus inventory. Overall, abandoned citrus acreage increased by 3 percent compared to last season. Growers continue to remove unproductive trees infected with the canker and greening diseases.

Crop Progress

The harvest season began in October with the picking of non-Valencia oranges, white and colored grapefruit, and the early Fallgo tangerines. At the beginning of November, seven processing plants were open and 38 packinghouses were shipping fruit. According to the Citrus Administrative Committee's Utilization report no. 4, less than 1 percent of all round oranges, 3 percent of all grapefruit, and 17 percent of early tangerines have been harvested.

FCOJ Yield 1.61 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) is 1.61 gallons per box of 42° Brix concentrate. Last season's final yield for all oranges was 1.559667 gallons per box, as reported by the Florida Department of Citrus. Projections for the components will be published in January. Record yields are 1.597195 gallons per box for the early-midseason variety in 2008-2009, and 1.790343 gallons per box for Valencias.

Estimates of Production by Marketing Districts

Production forecasts for Florida oranges and grapefruit have been divided among marketing districts for this report. Comparisons (in the table below) are shown to the 2009-2010 production. Marketing District II is the legally defined Indian River District along the East Coast. Marketing District III (Gulf) includes the counties of Charlotte, Collier, Glades, Hendry, and Lee. Marketing District I (Florida SunRidge) includes all other citrus-producing counties.

Citrus Production and Prorated Forecast, by Marketing District – 2009-2010 and 2010-2011

[Based on tree populations. The possible differences between growing areas, concerning average fruit size, loss from droppage, and harvest patterns, can alter the prorated estimates]

Marketing District	Oranges				Seedless Grapefruit			
	Non-Valencia		Valencia		White		Colored	
	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Indian River	2,500	2,400	4,300	4,400	4,500	4,400	10,000	9,600
Gulf	12,500	15,500	15,600	21,200	300	200	1,700	1,700
Florida SunRidge	53,600	51,100	45,100	51,400	1,200	1,400	2,600	2,700
Florida Total	68,600	69,000	65,000	77,000	6,000	6,000	14,300	14,000

Maturity

Regular bloom fruit samples were collected from groves on established routes in Florida's five major citrus producing areas and tested October 27-29. Acid levels and Brix are higher for all fruit types resulting in lower ratios when compared to November of last season. Unfinished juice per box and solids per box increased for early and late oranges but were lower for midseason oranges and both white and colored grapefruit varieties when compared to November 2009. Indian River acid and Brix levels are higher for white and colored grapefruit while ratios, unfinished juice per box, and solids per box were all lower when compared to last season.

Citrus Unadjusted Maturity Tests — Florida: 2009-2010 and 2010-2011

[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) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
ORANGES										
Early (120-120)										
Sep 1	1.54	1.67	9.25	9.19	6.11	5.55	42.04	41.62	3.89	3.82
Oct 1	1.14	1.25	9.31	9.51	8.34	7.70	46.11	46.02	4.29	4.37
Nov 1	0.85	0.94	10.29	10.43	12.34	11.26	49.61	49.82	5.10	5.19
Midseason (55-54)										
Sep 1	1.72	2.01	9.23	9.33	5.45	4.82	42.79	40.88	3.95	3.81
Oct 1	1.31	1.56	9.24	9.41	7.23	6.14	47.16	45.77	4.36	4.31
Nov 1	0.98	1.13	10.28	10.36	10.76	9.36	51.14	49.13	5.26	5.09
Late (150-149)										
Sep 1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oct 1	2.41	2.56	8.86	8.95	3.73	3.52	43.46	43.91	3.85	3.93
Nov 1	1.86	2.01	9.32	9.68	5.07	4.86	48.08	48.82	4.48	4.72
GRAPEFRUIT										
White Seedless (48-50)										
Sep 1	1.75	1.88	9.81	10.19	5.60	5.45	31.50	31.82	3.09	3.24
Oct 1	1.54	1.72	9.77	10.38	6.39	6.05	36.52	35.51	3.57	3.68
Nov 1	1.41	1.58	10.46	10.64	7.46	6.78	41.17	39.81	4.31	4.23
Colored Seedless (49-50)										
Sep 1	1.75	1.82	10.07	10.33	5.79	5.80	31.48	31.99	3.17	3.30
Oct 1	1.54	1.68	10.23	10.54	6.69	6.32	36.57	36.31	3.74	3.83
Nov 1	1.36	1.58	10.69	10.98	7.90	7.01	41.72	39.97	4.46	4.38

(NA) Not available.

Citrus Maturity Test Averages, by Areas — Florida: November 1, 2009-2010 and 2010-2011

Fruit type (number of groves) test date	Acid		Solids (Brix)		Ratio		Unfinished juice per box		Solids per box	
	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011	2009-2010	2010-2011
	(percent)	(percent)	(percent)	(percent)			(pounds)	(pounds)	(pounds)	(pounds)
ORANGES										
Early										
Indian River (9-9)	0.95	1.03	10.78	10.89	11.78	10.85	46.52	48.23	5.00	5.25
Other Areas (111-111)	0.84	0.94	10.25	10.40	12.38	11.29	49.86	49.95	5.11	5.19
Midseason										
Indian River (11-11)	1.12	1.27	10.50	10.50	9.46	8.45	52.57	46.44	5.52	4.87
Other Areas (44-43)	0.95	1.10	10.23	10.32	11.08	9.59	50.78	49.82	5.19	5.14
Late										
Indian River (27-27)	1.98	2.15	9.57	9.94	4.90	4.67	48.49	47.54	4.64	4.72
Other Areas (123-122)	1.84	1.98	9.27	9.62	5.10	4.90	47.98	49.11	4.45	4.72
GRAPEFRUIT										
White Seedless										
Indian River (38-38)	1.44	1.63	10.64	10.79	7.42	6.65	41.10	39.12	4.37	4.22
Other Areas (10-12)	1.29	1.43	9.79	10.19	7.64	7.20	41.44	41.99	4.05	4.27
Colored Seedless										
Indian River (39-40)	1.38	1.60	10.80	11.06	7.86	6.95	41.92	39.82	4.53	4.40
Other Areas (10-10)	1.28	1.49	10.25	10.70	8.03	7.24	40.95	40.57	4.18	4.34

Citrus Size Frequency Measurement Distributions, by Type — Florida: October

Type and number of fruit per 4/5 – bushel containers	2008	2009	2010	Type and number of fruit per 4/5 – bushel containers	2008	2009	2010
	(percent)	(percent)	(percent)		(percent)	(percent)	(percent)
EARLY AND MIDSEASON ORANGES [1]				**WHITE GRAPEFRUIT [2]**			
64 or less	0.9	0.5	0.2	32 or less	10.1	2.9	3.3
80	4.7	3.9	2.2	36	19.4	9.1	10.1
100	22.2	23.2	13.4	40	18.7	14.5	14.4
125	39.0	38.5	35.0	48	21.6	19.1	20.5
163 or more	33.2	33.9	49.2	56	10.8	15.9	17.0
				63 or more	19.4	38.5	34.7
NAVEL ORANGES				**COLORED GRAPEFRUIT**			
64 or less	34.5	36.4	21.5	32 or less	6.0	1.3	1.5
80	37.0	38.8	39.4	36	12.9	4.4	7.5
100	22.5	18.1	29.3	40	15.8	8.6	10.7
125	4.8	5.1	7.5	48	20.8	15.3	16.9
163 or more	1.2	1.6	2.3	56	15.1	14.8	15.6
				63 or more	29.4	55.6	47.8
VALENCIA ORANGES				**FALLGLO TANGERINES**			
64 or less	0.4	0.2	0.3	80 or less	37.5	46.7	12.5
80	5.5	3.2	3.2	100	45.0	25.0	20.0
100	29.5	23.2	16.5	120	15.0	21.6	42.5
125	39.0	37.0	35.8	176	2.5	5.0	10.0
163 or more	25.6	36.4	44.2	210 or more	-	1.7	15.0
TANGELOS				**SUNBURST TANGERINES**			
80 or less	17.4	9.6	5.6	100 or less	16.2	9.8	1.6
100	30.4	27.6	14.6	120	24.7	22.7	5.0
120	29.1	29.6	27.4	176	17.9	18.6	12.8
156 or more	23.1	33.2	52.4	210 or more	41.2	48.9	80.6

- Represents zero.
[1] Excludes Navels and Temples.
[2] Excludes seedy.