United States Department of Agriculture
National Agricultural Statistics Service

CITRUS

MARCH FORECAST
MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture & Consumer Services
2290 Lucien Way, Suite 300, Maitland, FL 32751
(407) 648-6013 · (407) 648-6029 FAX · www.nass.usda.gov/fl

March 10, 2011

All Orange Production up 3 percent from February
Non-Valencia Orange Production up 6 percent
Valencia Orange Production unchanged
All Grapefruit Production unchanged
All Tangerine Production unchanged
Tangelo Production up 10 percent
FCOJ Yield 1.57 gallons per box, components adjusted

FORECAST DATES – 2010-2011 SEASON	
April 8, 2011	May 11, 2011
June 9, 2011	July 12, 2011

Citrus Production by type and State – United States

Crop and State	Production [1]			2010-2011 Forecast	
	2007-2008	2008-2009	2009-2010	February	March
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Non-Valencia Oranges [2]					
Florida	**83,500**	**84,600**	**68,600**	**66,000**	**70,000**
California [3]	45,000	34,500	42,500	46,500	46,500
Texas [3]	1,600	1,300	1,360	1,360	1,360
Arizona	230	150	(NA)	(NA)	(NA)
United States	130,330	120,550	112,460	113,860	117,860
Valencia Oranges					
Florida	**86,700**	**77,900**	**65,000**	**72,000**	**72,000**
California	17,000	12,000	14,000	14,000	13,000
Texas [3]	196	159	275	280	280
Arizona	150	100	(NA)	(NA)	(NA)
United States	104,046	90,159	79,275	86,280	85,280
All Oranges					
Florida	**170,200**	**162,500**	**133,600**	**138,000**	**142,000**
California	62,000	46,500	56,500	60,500	59,500
Texas [3]	1,796	1,459	1,635	1,640	1,640
Arizona	380	250	(NA)	(NA)	(NA)
United States	234,376	210,709	191,735	200,140	203,140
Grapefruit					
Florida-All	**26,600**	**21,700**	**20,300**	**19,600**	**19,600**
White	**9,000**	**6,600**	**6,000**	**5,600**	**5,600**
Colored	**17,600**	**15,100**	**14,300**	**14,000**	**14,000**
California [3]	5,200	4,800	4,200	3,500	3,500
Texas [3]	6,000	5,500	5,600	5,700	5,700
Arizona	100	25	(NA)	(NA)	(NA)
United States	37,900	32,025	30,100	28,800	28,800
Lemons [3]					
California	14,800	21,000	20,500	21,000	21,000
Arizona	1,500	3,000	2,200	2,500	2,500
United States	16,300	24,000	22,700	23,500	23,500
Tangelos					
Florida	**1,500**	**1,150**	**900**	**1,000**	**1,100**
Tangerines					
Florida-All	**5,500**	**3,850**	**4,450**	**4,400**	**4,400**
Early [4]	**2,600**	**2,550**	**2,250**	**2,600**	**2,600**
Honey	**2,900**	**1,300**	**2,200**	**1,800**	**1,800**
California [3] [5]	6,700	6,700	9,900	9,600	9,600
Arizona [3] [5]	400	250	350	300	300
United States	12,600	10,800	14,700	14,300	14,300

NA Not available.

[1] Net pounds per box: oranges in California-80 (75 prior to the 2010-2011 crop year), Florida-90, Texas-85; grapefruit in California-80 (67 prior to the 2010-2011 crop year), Florida-85, Texas-80; lemons-80 (76 prior to the 2010-2011 crop year), tangelos-90; tangerines and mandarins in Arizona and California-80 (75 prior to the 2010-2011 crop year), Florida-95.

[2] Navel and miscellaneous varieties in California. Early (including navel) and midseason varieties in Florida and Texas. Small quantities of tangerines in Texas and Temples in Florida.

[3] Estimates for current year carried forward from previous forecast.

[4] Fallglo and Sunburst varieties.

[5] Includes tangelos and tangors.

All Oranges 142.0 Million Boxes

The 2010-2011 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 142.0 million boxes, up 4.0 million boxes from February or 6 percent more than last season's production. The total is comprised of 70.0 million boxes of non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 72.0 million boxes of Valencia oranges. The Navel forecast is 2.6 million boxes, 4 percent of the non-Valencia total. The hurricane seasons of 2004-2005 and 2005-2006 have been excluded from the usual 10-year regression analysis and from comparisons of the current season to previous seasons. For those previous 8 seasons, the March forecast has deviated from final production by an average of 2 percent with 6 seasons below and 2 above, with differences ranging from 3 percent below to 2 percent above. All references to "average" or "minimum" refer to the previous 8 non-hurricane seasons unless noted.

Non-Valencia Oranges 70.0 Million Boxes

The forecast of non-Valencia orange production is increased to 70.0 million boxes or 6 percent more than last month's forecast due to utilization to date. The route survey (Row Count) conducted March 1-2 showed nearly 98 percent of the rows have been harvested. The Navel forecast, included in the non-Valencia forecast remains unchanged at 2.6 million boxes.

Valencia Oranges 72.0 Million Boxes

The forecast of Valencia production is unchanged at 72.0 million boxes. According to the Citrus Administrative Committee's report, less than 1 percent of the Valencia variety has been harvested this season. Fruit size is projected to be below the minimum; fruit droppage, projected to be 16 percent at harvest, is above average.

All Grapefruit 19.6 Million Boxes

The forecast of all grapefruit production remains at 19.6 million boxes, including an allocation of 700,000 boxes for non-certified gift fruit and local sales. Of the total grapefruit forecast, 5.6 million boxes are white and 14.0 million boxes are the colored varieties. A Size and Drop survey conducted in February shows droppage for white grapefruit to be about average and average fruit size to be close to the minimum. The Size and Drop survey for colored grapefruit confirmed droppage less than average with fruit smaller than the minimum of the seasons used in the regressions. The route survey conducted March 1-2 shows that 43 percent of the white rows and 57 percent of the colored rows have been harvested.

All Tangerines 4.4 Million Boxes

The forecast of all tangerine production is unchanged, consisting of the early varieties (Fallglo and Sunburst) at 2.6 million boxes and Honey tangerines forecast at 1.8 million boxes. A Size and Drop survey conducted in February shows the Honey tangerine size is just above the minimum and droppage has remained below average. Row Count Survey indications show that 64 percent of the later maturing Honey tangerines are harvested, while the early variety harvest is virtually complete.

Tangelos increased to 1.1 Million Boxes

The forecast of tangelo production is increased 100,000 boxes from the previous forecast. The change is based on total utilization, with certifications surpassing 1.0 million boxes and an allocation for non-certified use.

FCOJ Yield 1.57 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) is unchanged at 1.57 gallons per box of 42° Brix concentrate. However, component projections have been adjusted. The projected yield for the non-Valencia oranges is raised to 1.52 gallons per box and lowered to 1.62 for the Valencias. Last season's final yields as reported by the Florida Department of Citrus are: all oranges, 1.559667 gallons per box; non-Valencia, 1.511083; and Valencia, 1.625245.

Forecast Components, by Variety — Florida: March 2011

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

Type	Bearing trees	Fruit per tree	Droppage	Fruit per box
	(1,000 trees)	(number)	(percent)	(number)
ORANGES				
Early-midseason	24,093	934	7	280
Navel	1,057	491	7	143
Valencia	33,122	598	16	229
GRAPEFRUIT				
White	1,316	479	11	101
Colored	3,517	449	9	111

Maturity

Regular bloom fruit samples were collected from groves on established routes March 1-2, 2011 in Florida's five major citrus producing areas and tested March 3, 2011 at the laboratory of the National Agricultural Statistics Service (NASS), Florida Field office. Acid levels and solids are higher than last season, bringing the ratios to a lower level. Unfinished juice per box and solids per box are slightly higher than last season. Unfinished juice per box is the highest recorded this season. Acid levels and solids are higher in fruit from the Indian River District, but unfinished juice per box and solids per box are lower.

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)
LATE ORANGES (146-144)										
Oct 1	2.41	2.56	8.87	8.95	3.74	3.52	43.47	43.81	3.85	3.91
Nov 1	1.86	2.01	9.33	9.68	5.07	4.85	48.09	48.84	4.48	4.72
Dec 1	1.52	1.62	10.22	10.41	6.85	6.50	51.01	51.48	5.21	5.36
Jan 1	1.29	1.50	10.89	11.05	8.52	7.46	53.02	51.02	5.78	5.63
Jan 15	(NA)	1.42	(NA)	11.37	(NA)	8.12	(NA)	51.35	(NA)	5.84
Feb 1	1.23	1.30	11.67	11.97	9.57	9.34	52.16	50.87	6.08	6.09
Mar 1	1.11	1.14	12.27	12.35	11.19	10.93	51.54	51.57	6.33	6.37

NA Not available.

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

Fruit type (number of groves)	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)
Late Oranges										
Indian River (25-27)	1.17	1.25	12.59	12.68	10.79	10.16	53.64	48.91	6.75	6.22
Other Areas (121-117)	1.10	1.12	12.21	12.28	11.27	11.11	51.10	52.18	6.24	6.41

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**.**

The charts below show the distribution of fruit sizes in 2011 compared to 2010. The diameter measurements shown are the minimum values of fruit measured, except for the smallest values.

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

Type and number of fruit per 4/5 – bushel containers	2009	2010	2011
	(percent)	(percent)	(percent)
VALENCIA ORANGES			
64 or less	4.1	5.1	3.6
80	20.6	21.4	14.8
100	42.1	38.7	37.1
125	24.8	23.5	29.6
163 or more	8.4	11.3	14.9
HONEY TANGERINES			
80 or less	26.9	28.7	20.9
100	30.0	26.0	35.8
120	22.2	20.0	25.9
176	11.5	8.7	6.5
210 or more	9.4	16.6	10.9

Type and number of fruit per 4/5 – bushel containers	2009	2010	2011
	(percent)	(percent)	(percent)
WHITE GRAPEFRUIT [1]			
32 or less	25.2	15.9	12.1
36	27.5	27.0	21.7
40	16.5	18.3	18.7
48	14.5	15.8	16.7
56	7.1	8.5	11.3
63 or more	8.9	14.5	19.5
COLORED GRAPEFRUIT			
32 or less	13.8	4.3	7.2
36	19.8	12.2	14.3
40	19.4	17.6	13.8
48	19.9	23.5	18.4
56	10.3	16.1	13.5
63 or more	16.8	26.3	32.8

[1] Excludes seedy