



# CITRUS MAY FORECAST MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture & Consumer Services  
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May 11, 2011

**All Orange Production down 1 Percent**  
**Non-Valencia Orange Production unchanged**  
**Valencia Orange Production down 3 Percent**  
**All Grapefruit Production unchanged**  
**All Tangerine Production up 2 percent**  
**Tangelo Production unchanged**  
**FCOJ Yield 1.58 gallons per box**

**FORECAST DATES – 2010-2011 SEASON**  
June 9, 2011 July 12, 2011

## Citrus Production by type and State – United States

Crop and State	Production <sup>1</sup>			2010-2011 Forecast	
	2007-2008 (1,000 boxes)	2008-2009 (1,000 boxes)	2009-2010 (1,000 boxes)	April (1,000 boxes)	May (1,000 boxes)
<b>Non-Valencia Oranges<sup>2</sup></b>					
Florida.....	83,500	84,600	68,600	70,000	70,000
California <sup>3</sup> .....	45,000	34,500	42,500	48,000	48,000
Texas <sup>3</sup> .....	1,600	1,300	1,360	1,480	1,480
Arizona.....	230	150	(NA)	(NA)	(NA)
United States.....	130,330	120,550	112,460	119,480	119,480
<b>Valencia Oranges</b>					
Florida.....	86,700	77,900	65,100	72,000	70,000
California <sup>3</sup> .....	17,000	12,000	15,000	13,000	13,000
Texas <sup>3</sup> .....	196	159	275	285	285
Arizona.....	150	100	(NA)	(NA)	(NA)
United States.....	104,046	90,159	80,375	85,285	83,285
<b>All Oranges</b>					
Florida.....	170,200	162,500	133,700	142,000	140,000
California <sup>3</sup> .....	62,000	46,500	57,500	61,000	61,000
Texas <sup>3</sup> .....	1,796	1,459	1,635	1,765	1,765
Arizona.....	380	250	(NA)	(NA)	(NA)
United States.....	234,376	210,709	192,835	204,765	202,765
<b>Grapefruit</b>					
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 <sup>3</sup> .....	5,200	4,800	4,500	3,500	3,500
Texas <sup>3</sup> .....	6,000	5,500	5,600	5,900	5,900
Arizona.....	100	25	(NA)	(NA)	(NA)
United States.....	37,900	32,025	30,400	29,000	29,000
<b>Lemons<sup>3</sup></b>					
California.....	14,800	21,000	21,000	21,000	21,000
Arizona.....	1,500	3,000	2,200	2,500	2,500
United States.....	16,300	24,000	23,200	23,500	23,500
<b>Tangelos</b>					
Florida.....	1,500	1,150	900	1,150	1,150
<b>Tangerines</b>					
Florida-All.....	5,500	3,850	4,450	4,500	4,600
Early <sup>4</sup> .....	2,600	2,550	2,250	2,600	2,600
Honey.....	2,900	1,300	2,200	1,900	2,000
California <sup>3,5</sup> .....	6,700	6,700	9,900	9,600	9,600
Arizona <sup>3,5</sup> .....	400	250	350	300	300
United States.....	12,600	10,800	14,700	14,400	14,500

(NA) Not available.

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> Estimates for current year carried forward from previous forecast.

<sup>4</sup> Fallglo and Sunburst varieties.

<sup>5</sup> Includes tangelos and tangors.

## **All Oranges 140.0 Million Boxes**

The 2010-2011 Florida all orange forecast released today by the USDA Agricultural Statistics Board is lowered from last month to 140.0 million boxes. The total is comprised of 70.0 million boxes of non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 70.0 million boxes of Valencia oranges. 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 May forecast has deviated from final production by an average of 2 percent with 3 seasons above and 5 below, with differences ranging from 1 percent above to 3 percent below. 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 unchanged at 70.0 million boxes. The Navel portion of the forecast remains unchanged at 2.6 million boxes and represents 4 percent of the non-Valencia total. Harvest of the early, midseason, Navel and Temple varieties is complete. The route survey (Row Count) conducted May 2-3 showed over 99 percent of the rows are harvested.

## **Valencia Oranges 70.0 Million Boxes**

The forecast of Valencia production is lowered to 70.0 million boxes. Weekly utilization of Valencias was just over 5 million boxes the last three weeks of April. The route survey (Row Count) conducted May 2-3 showed 50 percent of the rows have been harvested. An objective survey conducted during April shows fruit size is below the minimum of the 8 previous seasons, and fruit droppage increased at a higher than average rate.

## **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. The route survey conducted May 2-3 shows that 96 percent of the white rows and 99 percent of the colored rows have been harvested. Estimated utilization through the end of April for all grapefruit is 19.2 million boxes.

## **All Tangerines 4.6 Million Boxes**

The forecast of all tangerine production is raised 100,000 boxes to 4.6 million. The change is in the later maturing Honey tangerine forecast. The total is comprised of the early varieties (Fallglo and Sunburst) at 2.6 million boxes and Honey tangerines now forecast at 2.0 million boxes. Row Count Survey indications show that over 99 percent of the Honey tangerines have been harvested.

## **Tangelos 1.15 Million Boxes**

The forecast of tangelo production is unchanged from the previous forecast. No certifications were recorded the final three weeks of April. The Row Count survey shows over 98 percent of the tangelo rows are harvested. This forecast is 28 percent more than last season's final utilization of 900,000 boxes.

## **FCOJ Yield 1.58 Gallons per Box**

The projection for frozen concentrated orange juice (FCOJ) is continued at 1.58 gallons per box of 42° Brix concentrate for all oranges. The late (Valencia) projection is 1.66 gallons per box, up from 1.65 gallons per box last month. The early-midseason component is final at 1.522625 gallons per box, as reported by the Florida Department of Citrus (FDOC). Last season's final yields as reported by the FDOC are: all oranges, 1.559667 gallons per box; non-Valencia, 1.511083; Valencia, 1.625245.

## **Weather**

Low temperatures during the month of April were mostly in the 50s, with afternoon highs in the 80s and 90s. Heavy rains in the first week of the month brought some relief to the drought conditions in the western area of the citrus-growing region. Widespread heavy rainfall occurred during March contributing to a healthy fruit set for next season's crop. Extreme dry conditions in the east and southeast areas persisted throughout most of the month of April.

## Maturity – Florida May 1, 2011

Regular bloom fruit samples were collected from groves on established routes on May 2-3, 2011 in Florida's five major citrus producing areas and tested May 4, 2011 at the laboratory of the National Agricultural Statistics Service (NASS), Florida Field Office. Acid level is slightly higher and soluble solids (Brix) is significantly higher than last season, resulting in a higher ratio. Unfinished juice per box and solids per box are higher than last season. Acid level and soluble solids in fruit from the Indian River District are higher than in other areas, but the ratio is lower. Unfinished juice per box is lower and solids per box are higher in fruit from the Indian River than in fruit from other areas.

### 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)
<b>LATE ORANGES (88-71)</b>										
Oct 1.....	2.43	2.63	8.92	9.06	3.71	3.48	43.30	43.64	3.85	3.95
Nov 1.....	1.90	2.09	9.39	9.76	5.01	4.71	47.99	48.90	4.51	4.77
Dec 1.....	1.53	1.67	10.24	10.47	6.81	6.31	50.76	50.98	5.20	5.34
Jan 1.....	1.32	1.54	10.94	11.15	8.41	7.30	53.03	51.03	5.81	5.68
Jan 15.....	(NA)	1.47	(NA)	11.49	(NA)	7.93	(NA)	52.21	(NA)	6.00
Feb 1.....	1.25	1.35	11.68	12.09	9.49	9.07	52.41	51.43	6.12	6.22
Mar 1.....	1.12	1.17	12.29	12.40	11.10	10.66	52.08	51.65	6.40	6.40
Apr 1.....	1.02	1.06	12.84	12.83	12.75	12.26	51.50	51.97	6.61	6.67
May 1.....	0.88	0.89	12.93	13.14	14.92	15.00	51.96	53.28	6.72	7.00

(NA) Not available.

### Citrus Maturity Test Averages, by Areas — Florida: May 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)
<b>Late Oranges</b>										
Indian River (18-14).....	0.93	0.99	13.49	13.92	14.61	14.10	52.83	51.54	7.13	7.18
Other Areas (70-57).....	0.86	0.87	12.78	12.95	15.00	15.23	51.74	53.70	6.62	6.96

### Fruit Size Comparisons by Types to Previous Seasons

Size frequency distributions from the April 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: April

Type and number of fruit per 4/5 – bushel containers	2009	2010	2011
	(percent)	(percent)	(percent)
<b>VALENCIA ORANGES</b>			
64 or less.....	5.2	8.2	5.3
80.....	23.0	24.2	19.2
100.....	40.5	38.1	35.6
125.....	22.2	21.0	25.6
163 or more.....	9.1	8.5	14.3

### Fruit Size Frequency Measurements, Valencia Oranges, by Diameter – Florida: April

