

United States Department of Agriculture National Agricultural Statistics Service

CITRUS

DECEMBER FORECAST MATURITY TEST RESULTS AND FRUIT SIZE



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December 11, 2007

ALL ORANGES REMAIN 168.0 MILLION BOXES

The Florida all orange forecast released today by the USDA Agricultural Statistics Board is 168.0 million boxes, unchanged from the initial forecast in October. This is 30 percent more than the 129.0 million boxes produced last season and 31 percent below the record high utilization of 244.0 million (Temples not included) in the 1997-98 season. The division remains as in October, 81.0 million boxes of early-midseason-Navel (including Temples) and 87.0 million boxes of late season Valencia oranges.

Excluding the 2004-05 and 2005-06 hurricane affected seasons, the December forecast has differed from final utilization by an average of 3.6 percent. Seasonal differences range from 8.2 percent below in 1999-00 to 8.5 percent above in 2006-07. Seven of the 10 seasons have been above and three below the final utilization.

EARLY-MIDSEASON-NAVEL REMAIN 81.0 MILLION BOXES

The early-midseason-Navel (including Temples) portion of the orange forecast remains at 81.0 million boxes. An estimated 3.1 million boxes of this amount are **Navels**, unchanged from October. Navel harvest is underway with fresh fruit packing houses packing for gift fruit and fundraiser programs for the holidays.

CITRUS PRODUCTION: December 1, 2007 Forecasts by varieties and states, with comparisons

Crop and State	Produ	uction	Forecast					
Orop and State	2005-06	2006-07	Oct 12, 2007	Dec 11, 2007				
		1,0	00 boxes					
EARLY, MIDSEASON, AND	NAVEL ORAN	GES:						
FLORIDA ^{1/}	75,000	65,600	81,000	81,000				
California	47,000	34,000	43,000	43,000				
Texas	1,400	1,600	1,450	1,450				
Arizona	250	200	200	200				
Total Above Varieties	123,650	101,400	125,650	125,650				
VALENCIAS:								
FLORIDA	72,700	63,400	87,000	87,000				
California	14,000	11,000	15,000	15,000				
Texas	200	380	350	350				
Arizona	200	100	100	100				
Total Valencias	87,100	74,880	102,450	102,450				
ALL ORANGES:								
FLORIDA	147,700	129,000	168,000	168,000				
California	61,000	45,000	58,000	58,000				
Texas	1,600	1,980	1,800	1,800				
Arizona	450	300	300	300				
Total All Oranges	210,750	176,280	228,100	228,100				

^{1/} Includes Temples beginning in 2006-07. Historic Temple production listed on page 2.

Average fruit sizes of early-midseason oranges were the smallest ever measured in the month of November and are projected to be record small at harvest for a disaster-free season. Although low in October, the droppage rate increased over the last two months but is projected to be below the previous ten season non-hurricane average at harvest. Volume harvest for processing has just started.

VALENCIA ORANGES 87.0 MILLION BOXES

The Valencia portion of the forecast is 87.0 million boxes, also unchanged from October. Average fruit sizes are small, although not record for this time of year and excluding the 2004-05 hurricane season, are projected to be the smallest since the 1992-93 season. Droppage is below the previous 10 non-hurricane season average and is projected to be below this average at harvest.

COMPONENTS USED IN THE DECEMBER FORECAST

FURECAST								
Туре	Bearing trees	Fruit per tree	Percent droppage	Fruit per box				
	(1,000)							
ORANGES:								
Early-Mid	24,473	1,052	8	271				
Navel	1,284	440	10	138				
Valencia	33,835	679	13	219				

FCOJ YIELD 1.60 GALLONS PER BOX

The initial projection of FCOJ yield of all oranges remains at 1.60 gallons per box. The average final yield over the last 10 seasons is 1.59 gallons per box. A separate projection of early-midseason and Valencia yield will be made next month.

GRAPEFRUIT CONTINUES 25.0 MILLION BOXES

The Florida grapefruit forecast continues at 25.0 million boxes. However, there is a shift in the allocation between white and colored varieties. The white grapefruit forecast is lowered 1.0 million boxes to 8.0 million and the colored varieties forecast is increased 1.0 million to 17.0 million. With the exception of the hurricane-reduced 2004-05 and 2005-06 seasons, this grapefruit crop is forecast to be the lowest since the 24.2 million boxes harvested in the 1949-50 season.

The rate of fruit growth of **white** grapefruit has slowed since October. Droppage has increased and the combination indicates the reduced forecast. Average fruit size is projected to be the smallest on record in the series dating back to the 1968-69 season. It is now expected to take 103 pieces of fruit to fill an 85 pound field box. Although droppage is higher than average, it is expected to match last season's near 12 percent average.

The rate of fruit growth of **colored** grapefruit continues near the projected value in October and would result in the smallest sizes on record. Although still near the projected amount, droppage has slowed and now indicates slightly below the previous 10 season average at harvest. The combination indicates the increase in the forecast.

CITRUS PRODUCTION: December 1, 2007 forecasts by varieties and states, with comparisons

10100000	l anono	arra otatoo,	I	,0110		
Crop and State	Produ	uction	Forecast			
Crop and Clate	2005-06	2006-07	Oct 12, 2007	Dec 11, 2007		
	1,000 boxes					
GRAPEFRUIT:						
FLORIDA-AII	19,300	27,200	25,000	25,000		
White	6,500	9,300	9,000	8,000		
Colored	12,800	17,900	16,000	17,000		
California	6,000	4,000	4,500	4,500		
Texas	5,200	7,100	6,800	6,800		
Arizona	100	100	200	200		
Total Grapefruit	30,600	38,400	36,500	36,500		
LEMONS:						
California	22,000	16,000	16,500	16,500		
Arizona	3,800	2,500	1,500	1,500		
Total Lemons	25,800	18,500	18,000	18,000		
Temples: Florida	700	1/	1/	1/		
Tangelos: Florida	1,400	1,250	1,300	1,300		
TANGERINES:						
FLORIDA-All	5,500	4,600	5,100	4,800		
Early ^{2/}	2,850	2,400	2,600	2,600		
Honey	2,650	2,200	2,500	2,200		
California 3/	3,600	2,900	4,700	4,700		
Arizona ^{3/}	550	300	400	400		
Total Tangerines	9,650	7,800	10,200	9,900		

^{1/} Included in early-midseason-Navel oranges.

COMPONENTS USED IN THE DECEMBER FORECAST

TORECAST							
Туре	Bearing trees	Fruit per tree	Percent droppage	Fruit per box			
	(1,000)						
GRAPEFRUI	т:						
White 1/	1,862	557	12	103			
Colored	4,155	499	12	110			

^{1/} Seedless variety only.

Combining the white and colored indicators continues to show the 25.0 million total box forecast.

Harvest of grapefruit is less than normal at this time because of later maturity and small sizes. Utilization to the first of December is estimated at 2.5 million boxes compared to 3.4 million last season to the same time. Most of the white grapefruit is being exported and colored varieties are being shipped to domestic and export markets.

All TANGERINES REDUCED TO 4.8 MILLION BOXES

The forecast of all tangerines is reduced 300,000 boxes to 4.8 million. All of the reduction is in the later maturing Honey variety. The forecast of early varieties remains at 2.6 million boxes, but the Honey variety is reduced from 2.5 million boxes to 2.2 million.

The early variety forecast, consisting of **Fallglo** and **Sunburst** tangerines, is continued at 2.6 million boxes. Harvest of Fallglo is near complete with an estimated 650,000 boxes utilized. Harvest of the Sunburst variety has begun and will continue strong through the holiday period. Sunburst fruit sizes measured in November indicate the smallest on record.

The **Honey** tangerine forecast is reduced 300,000 boxes to 2.2 million. The rate of fruit growth has slowed since October and is now projected to average the smallest since the 1989-90 freeze season. Fruit droppage has increased and the combination indicates the reduction in the forecast. Start of harvest may be delayed because of lagging maturity and small sizes.

TANGELOS REMAIN 1.3 MILLION BOXES

The tangelo forecast is continued at 1.3 million boxes. Fruit sizes remain small with droppage low. Harvest of the Orlando variety for the holidays has started. Estimated utilization to the first of the month however is only 145,000 boxes.

^{2/} Fallglo and Sunburst varieties.

^{3/} Includes tangelos and tangors.

UNADJUSTED MATURITY TESTS: Average of regular bloom fruit from sample groves, 2006-07 and 2007-08 seasons

Fruit type (No. groves)	Ad	cid		lids rix)	Ra	ntio		ed juice box		lids box
test date	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08	2006-07	2007-08
	Per	cent	Per	cent			Pou	ınds	Pou	ınds
	-	Juice a	nd solids p	er box are	unadjusted	and not co.	mparable to	plant test	results.	
ORANGES:			•				•	•		
Early (111-115)										
Sep 1	1.71	1.76	9.44	9.45	5.61	5.50	42.68	41.07	4.02	3.88
Oct 1	1.16	1.26	9.57	10.27	8.44	8.36	48.86	45.92	4.68	4.71
Nov 1	0.92	0.88	10.33	10.21	11.42	11.91	49.83	50.87	5.15	5.19
Dec 1	0.83	0.82	10.81	10.90	13.18	13.62	52.09	51.74	5.62	5.63
Mid (50-54)										
Sep 1	1.81	2.00	9.28	9.63	5.24	4.91	42.79	41.56	3.97	4.00
Oct 1	1.29	1.50	9.52	9.63	7.52	6.57	50.09	46.23	4.77	4.45
Nov 1	1.04	1.01	10.30	10.30	10.15	10.47	50.87	50.74	5.24	5.23
Dec 1	0.88	0.97	10.85	11.23	12.49	11.77	52.49	50.30	5.69	5.64
Late (150-149)										
Sep 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oct 1	2.50	2.62	8.91	9.47	3.59	3.66	45.75	43.86	4.08	4.15
Nov 1	2.02	1.95	9.82	9.27	4.94	4.82	48.78	48.85	4.79	4.53
Dec 1	1.70	1.70	9.88	10.11	5.89	6.02	51.66	52.22	5.10	5.28
GRAPEFRUIT:										
White Seedless (47-	-45)									
Sep 1	1.87	1.94	10.55	10.18	5.64	5.31	32.16	30.29	3.38	3.08
Oct 1	1.60	1.64	10.51	10.09	6.59	6.17	37.28	35.63	3.91	3.59
Nov 1	1.58	1.40	10.78	9.96	6.85	7.17	41.47	41.40	4.46	4.12
Dec 1	1.56	1.37	10.87	10.08	7.01	7.40	42.90	44.15	4.67	4.45
Colored Seedless (4	16-48)									
Sep 1	1.86	1.96	10.46	10.52	5.65	5.40	31.91	30.61	3.33	3.21
Oct 1	1.55	1.67	10.49	10.56	6.79	6.36	38.76	35.34	4.06	3.73

1.37 7.79 7.57 NOTICE: 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.

10.43

10.64

7.37

7.50

42.75

43.94

41.69

44.79

4.35

4.76

4.81

4.81

11.26

10.94

1.40

MATURITY TEST AVERAGES BY AREAS, DECEMBER 1, 2007

Fruit type	Groves sampled	Acid	Solids (Brix)	Ratio	Unfinished juice per box	Solids per box
	Number	Percent	Percent		Pounds	Pounds
ORANGES:						
EARLY						
Indian River	9	0.84	10.79	13.16	51.47	5.55
Other Areas	106	0.82	10.91	13.66	51.76	5.64
MIDSEASON						
Indian River	11	1.00	11.10	11.13	52.44	5.81
Other Areas	43	0.96	11.26	11.94	49.75	5.60
LATE						
Indian River	25	1.83	10.03	5.54	53.24	5.17
Other Areas	124	1.68	10.12	6.12	52.02	5.26
GRAPEFRUIT:						
WHITE SEEDLESS						
Indian River	35	1.39	10.11	7.31	43.88	4.44
Other Areas	10	1.31	9.96	7.68	45.12	4.49
COLORED SEEDLESS						
Indian River	38	1.39	10.62	7.69	45.01	4.78
Other Areas	10	1.31	10.69	8.20	43.94	4.69

Nov 1

Dec 1

1.54

1.45

FRUIT SIZE COMPARISONS BY TYPES TO PREVIOUS SEASONS

Size frequency distributions developed from the November 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 relate to fruit from regular bloom and exclude summer bloom in all years.

FLORIDA CITRUS: Size frequency distributions from November measurements

Type of fruit and size in 4/5-bushel containers	2005	2006	2007
		Percent -	
EARLY AND MIDSEASON ORANGES:			
(excluding Navels)			
64 and larger	0.4	3.9	0.8
80	3.3	13.9	6.1
100	17.2	32.8	22.0
125	37.3	31.3	35.9
163 and smaller	41.8	18.1	35.2
Navel oranges:			
64 and larger	49.9	75.4	52.8
80	33.5	20.4	32.3
100	13.1	3.7	9.9
125	2.7	0.5	3.8
163 and smaller	8.0	0.0	1.2
VALENCIA ORANGES:			
64 and larger	0.6	2.7	1.1
80	6.0	16.4	7.8
100	27.8	37.1	28.7
125	39.1	29.5	35.1
163 and smaller	26.5	14.3	27.3
WHITE SEEDLESS GRAPEFRUIT:			
32 and larger	16.7	11.1	3.7
36	19.3	19.7	10.0
40	26.3	25.0	15.0
48	15.5	17.7	22.3
56	9.7	11.0	17.2
63 and smaller	12.5	15.5	31.8
COLORED SEEDLESS GRAPEFRUIT:			
32 and larger	14.1	4.3	2.7
36	14.1	12.1	7.3
40	23.3	22.5	13.7
48	17.4	21.1	21.7
56	12.9	16.1	14.3
63 and smaller	18.2	23.9	40.3
SUNBURST TANGERINES:			
80 and larger	9.3	10.3	7.3
100 and larger	21.5	27.8	18.6
120	25.2	27.8	32.1
176	15.3	18.1	13.4
210 and smaller	28.7	16.0	28.6
Honey tangerines			
80 and larger	2.6	7.5	2.6
100	18.5	25.0	14.7
120	40.2	34.1	27.0
176	18.7	12.5	18.8
210 and smaller	20.0	20.9	36.9
TANGELOS:			
80 and larger	18.9	40.8	22.7
100	33.3	34.2	25.6
120	25.6	17.3	25.6
156 and smaller	22.2	7.7	26.1

The charts below describe the relationships of the fruit size measurements with those taken in the previous year. The diameter measurements shown are the minimum values of each eight inch range, except for the smallest values.

CHART 1: Early and midseason oranges (excluding Navels) size frequency by diameter from November measurements

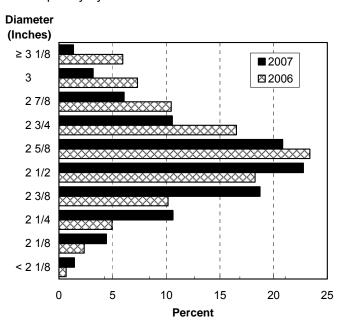


CHART 2: White seedless grapefruit size frequency by diameter from November measurements

