# **CITRUS**

# DECEMBER FORECAST MATURITY TEST RESULTS AND FRUIT SIZE



December 12, 2000

# **ALL ORANGES 229.0 MILLION BOXES**

The December forecast of Florida all oranges (excluding Temples) for the 2000-01 season is 229.0 million boxes, 11 million boxes or five percent less than the October forecast. If realized, this crop will now be two percent below the 233.0 million boxes of last season. The decrease from October affects both the early-midseason and Valencia crops. In the past 10 seasons, the December forecast has deviated from final utilization by an average of 3.5 percent. Four seasons were above and six below the final recorded utilization.

The weather since the initial forecast can only be characterized as much drier than normal. All areas of Florida's citrus belt are dry and need rain. Caretakers are irrigating around the clock to maintain good tree condition. Water reservoirs of all kinds are at very low levels. On-tree fruit color is good but fruit sizes are small.

# EARLY-MIDSEASONS DECREASED TO 127.0 MILLION BOXES

The early-midseason orange forecast is 127.0 million boxes, eight million boxes or six percent below the October forecast and five percent less than last season's crop. Objective surveys conducted since the initial forecast in October indicate that fruit sizes will be considerably lower than originally projected. Fruit size may end up as the smallest

Citrus production, December 1, 2000 forecasts by varieties and states, with comparisons

Crop and State	Prod	uction	Forecast					
Crop and State	1998-99	1999-00	Nov 9, 2000	Dec 12, 2000				
Early, Midseason, and Navel Oranges:		1,000 boxes						
FLORIDA California Texas Arizona	<b>112,000</b> 21,000 1,250 550	<b>134,000</b> 40,000 1,540 600	<b>135,000</b> 34,000 1,800 550	<b>127,000</b> 34,000 1,800 550				
Total Above Varieties	134,800	176,140	171,350	163,350				
Valencias:								
FLORIDA California Texas Arizona	<b>74,000</b> 15,000 180 600	<b>99,000</b> 27,000 200 500	<b>105,000</b> 25,000 200 500	<b>102,000</b> 25,000 200 500				
Total Valencias	89,780	126,700	130,700	127,700				
All Oranges: FLORIDA California Texas Arizona	<b>186,000</b> 36,000 1,430 1,150	<b>233,000</b> 67,000 1,740 1,100	<b>240,000</b> 59,000 2,000 1,050	<b>229,000</b> 59,000 2,000 1,050				
Total All Oranges	224,580	302,840	302,050	291,050				

# FORECAST DATES 2000-01 SEASON

January 10, 2001	April 10, 2001				
February 8, 2001	May 10, 2001				
March 8, 2001	June 12, 2001				
July 11, 2001					

in the last ten years. The current survey is also suggesting a near record low drop. This lower than expected drop partially offsets the smaller fruit sizes as far as fruit available for harvest. The **Navel** forecast is unchanged at 5.5 million boxes. Navel sizes, unlike other early-midseason oranges, are only slightly below average.

Early and midseason fruit have good on-tree color and harvest is moving at a good pace. Fresh fruit packinghouses are all very busy trying to meet the Christmas holiday shipping demands. Most processing plants are open and taking field run fruit and packinghouse eliminations.

### **VALENCIAS NOW 102.0 MILLION BOXES**

The Valencia forecast is decreased 3.0 million to 102.0 million boxes. This forecast is three percent below October but three percent above the 1999-2000 crop. The current survey indicates smaller fruit sizes than projected in October. Drop, while low, remains unchanged from October. If realized, the crop will be the second largest on record, two million boxes less than the record 1997-98 crop of 104.0 million boxes.

#### FCOJ REMAINS AT 1.55 GALLONS

The all orange FCOJ yield projection is unchanged at 1.55 gallons per box of 42.0 degrees Brix concentrate. The final all orange yield for the 1999-2000 season as reported by the Florida Citrus Processors Association was 1.547702 gallons per box. Separate projections for early-midseason and Valencia categories will be made in the January crop report. All projections of yield assume that the processing relationships this year will be similar to those of the past several years. The results of orange and grapefruit maturity testing are found on page 3 of this report.

The weather during this fall has been unseasonably dry. Temperatures during November were generally below average. Pounds of juice per box and pounds solids are both ahead of last year at this time.

#### TOTAL GRAPEFRUIT REMAINS AT 50.0 MILLION BOXES

The all grapefruit forecast is maintained at 50.0 million boxes. The varietal breakdown of all white grapefruit at 20.0 million boxes and 30.0 million boxes of the colored varieties is also continued. The total forecast continues to be six percent less than the recorded use of 53.4 million boxes last season and 10.4 percent below the record 55.8 million boxes utilized in the 1996-97 season.

Even though the weather during the last two months has been exceptionally dry, below average temperatures and the extensive use of irrigation appear to have produced offsetting effects. Although sizes are smaller than anticipated, droppage is lower. Average fruit size for both white and colored grapefruit was small through the September survey and was projected to be well below the 10 season average at harvest date. Through November, the average white size is above three of the seasons and colored above two. Only slightly smaller sizes are now anticipated.

The most interesting factor to date is the lack of loss from droppage, which for both categories is the lowest of the series. The small fruit, irrigation and low temperatures may have all contributed to this. A reduction in expected loss to harvest was made in both varieties.

Estimated utilization through December 3, 2000 for white grapefruit is 0.9 million boxes, as compared with 1.3 last season and 1.5 in 1998-99. Colored is 3.7 million boxes as compared with 4.5 last season and 5.6 in 1998-99.

The forecasts are based on objective fruit count and measurement surveys, conducted by the Florida Agricultural Statistics Service. The indicators are viewed in

Citrus production, December 1, 2000 forecasts by varieties and states, with comparisons

Crop and State	Produ	uction	Forecast			
	1998-99 1999-00 Nov 9, 2000		Dec 12, 2000			
	1,000 boxes					
Grapefruit:						
FLORIDA-All	47,050	53,400	50,000	50,000		
White 1/	18,350	21,500	20,000	20,000		
Colored	28,700	31,900	30,000	30,000		
Texas	6,100	5,930	6,500	6,500		
Arizona	750	500	600	600		
California	7,300	7,000	7,200	7,200		
Total Grapefruit	61,200	66,830	64,300	64,300		
Lemons:				_		
California	16,200	19,600	21,000	21,000		
Arizona	3,450	3,100	3,600	3,600		
Total Lemons	19,650	22,700	24,600	24,600		
Limes: Florida	500	600	250	250		
Temples: Florida	1,800	1,950	1,800	1,800		
Tangelos: Florida	2,550	2,200	2,100	2,100		
K-Early: Florida	80	110	60	60		
Tangerines:						
FLORIDA-AII	4,950	7,000	6,300	6,300		
Early <sup>2/</sup>	3,050	4,350	3,700	3,700		
Honey	1,900	2,650	2,600	2,600		
California 3/	1,500	2,300	2,000	2,000		
Arizona 3/	950	850	850	850		
Total Tangerines	7,400	10,150	9,150	9,150		

<sup>1/</sup> Includes seedy. <sup>2/</sup> Robinson, Fallglo, Sunburst, and Dancy. <sup>3/</sup> Includes tangelos.

relationship with their performance to the recorded utilization of the past 10 seasons. All citrus forecasts project the final certification of commercial fresh and processed use, including less than two percent for unrecorded use.

# ALL TANGERINES STAY AT 6.3 MILLION BOXES

The forecast for all varieties of tangerines is continued at 6.3 million boxes, down 10 percent from the record use of 7.0 million boxes last season. **Early** varieties, consisting of **Fallglo, Robinson, Sunburst** and **Dancy,** total 3.7 million boxes. The harvest of **Fallglo** and **Robinson** are almost complete while harvest of **Sunburst,** the predominate variety, is well underway. **Dancy** harvest has not started. Estimated certifications through December 3, 2000 are 1.9 million boxes, compared with 2.2 million boxes last season.

The late tangerine variety( **Honey**) forecast is held at 2.6 million boxes. Harvest has not started. The monthly surveys indicate that average fruit size is well above average and advanced over the past two seasons. However, the loss from droppage is projected to be closer to the 10 season average that ranges between 21 and 62 percent. Last season the loss was less than 22 percent by late January.

#### TEMPLES REMAIN AT 1.8 MILLION BOXES

The Temple forecast is continued at 1.8 million boxes. If realized, this crop would be down eight percent from last season and would equal the production of 1998-99. The two monthly surveys confirm that average fruit size continues to be at the smallest level in the past 10 seasons. Loss from droppage is increased. However, the combined effect is insufficient to change the forecast.

#### TANGELOS HELD AT 2.1 MILLION BOXES

The 2.1 million box forecast for all varieties of tangelos is maintained at 2.1 million boxes. This is the lowest indication of crop size since the recorded 1.8 million boxes in the 1968-69 season. Slight reductions in both average fruit size, which is well below the mean of the past 10 seasons, and loss from droppage are incorporated. These factors offset each other and no change is indicated in the expected utilization. Only about 17 percent of the forecast had been utilized through December 3, 2000

# K-EARLY CITRUS STAYS AT 60,000 BOXES

The K-Early Citrus Fruit forecast at 60,000 boxes is continued. Through December 3, 2000, half of this amount had already been certified. If realized, this crop will be only about 55 percent of the amount recorded last season.

#### LIMES 400,000 BUSHELS

The 2000-01 lime crop, first forecast in April 2000, is continued at 400,000 bushels (250,000 boxes). Bearing acreage is now estimated at 1,200, down from 2,700 last season. Loss of trees exposed to citrus canker has caused this reduction in acres and anticipated production.

# **Unadjusted Maturity Tests**: Average of regular bloom fruit from sample groves, 1999-00 and 2000-01 seasons

	1				2000-01 Se	200110				
Fruit type	Acid		Solids		Ratio		Unfinished juice		Solids	
(No. groves)			(Bri	_ /			per box		per box	
test date	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01
	Perce		Perc				Pour		Pour	nds
		Juice a	and solids p	er box are ι	ınadjusted a	and not com	parable to p	lant test res	sults.	
ORANGES:										
Early (102-101)										
Sep 1	1.75	1.66	9.35	9.79	5.45	6.01	40.81	42.62	3.81	4.17
Oct 1	1.22	1.12	9.33	9.84	7.80	8.96	46.18	49.00	4.30	4.82
Nov 1	0.95	0.97	9.69	10.72	10.41	11.30	49.85	51.16	4.83	5.47
Dec 1	0.81	0.89	10.80	11.45	13.42	13.14	50.78	51.08	5.48	5.85
Mid (51-51)										
Sep 1	2.01	1.79	9.13	9.32	4.63	5.26	39.35	44.43	3.59	4.14
Oct 1	1.42	1.23	9.08	9.48	6.51	7.84	46.89	49.99	4.26	4.73
Nov 1	1.11	1.06	9.53	10.44	8.75	10.12	51.14	53.53	4.88	5.59
Dec 1	0.93	0.95	10.91	11.37	11.91	12.17	52.15	53.29	5.69	6.06
Late (150-150)										
Sep 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oct 1	2.51	2.45	8.55	8.80	3.45	3.65	43.36	46.50	3.71	4.09
Nov 1	2.06	2.00	8.72	9.46	4.30	4.80	47.53	50.80	4.15	4.81
Dec1	1.70	1.74	9.81	10.37	5.85	6.03	51.38	52.17	5.04	5.41
GRAPEFRUIT:										
White Seedless (48-4	16)									
Sep 1	1.85	1.83	10.29	10.15	5.60	5.47	28.77	32.70	2.96	3.32
Oct 1	1.63	1.58	9.82	10.22	6.07	6.52	34.37	36.84	3.37	3.76
Nov 1	1.45	1.50	9.60	10.38	6.67	6.98	37.92	40.56	3.64	4.20
Dec 1	1.42	1.47	10.07	10.78	7.16	7.36	42.31	41.79	4.25	4.50
Colored Seedless (41	I-44)									
Sep 1	1.77	1.76	10.17	10.37	5.77	5.91	28.29	33.37	2.88	3.46
Oct 1	1.57	1.51	9.78	10.44	6.29	6.96	35.08	37.15	3.43	3.87
Nov 1	1.38	1.43	9.72	10.68	7.06	7.53	37.58	40.53	3.65	4.33
Dec 1	1.36	1.39	10.20	10.88	7.60	7.87	45.34	43.32	4.63	4.71

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.

Maturity test averages by areas, December 1, 2000

Fruit type	Groves sampled	Acid	Solids (Brix)	Ratio	Unfinished juice per box	Solids per box
	Number	Percent	Percent		Pounds	Pounds
ORANGES:						
Early						
Indian River Dist.	11	0.92	12.06	13.29	50.68	6.11
Other Areas	90	0.88	11.38	13.12	51.13	5.81
Midseason						
Indian River Dist.	11	0.90	11.32	12.79	53.69	6.08
Other Areas	40	0.96	11.39	12.00	53.18	6.06
Late						
Indian River Dist.	25	1.81	10.68	5.97	53.20	5.69
Other Areas	125	1.73	10.30	6.04	51.96	5.35
GRAPEFRUIT:						
White Seedless						
Indian River Dist.	33	1.49	10.91	7.35	41.58	4.54
Other Areas	13	1.43	10.44	7.37	42.32	4.42
Colored Seedless						
Indian River Dist.	36	1.41	11.07	7.89	43.18	4.78
Other Areas	8	1.33	10.11	7.63	43.55	4.41

# FRUIT SIZE COMPARISONS BY TYPES TO PREVIOUS SEASONS

Size frequency distributions are from the November size survey conducted in sample groves during the period of November 1 through 22, 2000. The distributions are by percent from fruit within the size range of each 4/5 bushel container. These percents relate only to fruit from spring bloom and exclude summer bloom fruit in all seasons.

Florida Citrus: Size frequency distributions from November measurements

Type of rult and size in 4/5-bushel containers   1998   1999   2000	Toward for it and sine	1		
Early and midseason oranges: (excluding Navels)     64 and larger     80     7.2     13.0     5.0     100     30.8     36.9     24.2     125     40.9     32.4     39.1     163 and smaller     20.3     15.4     31.2 Navel oranges:     64 and larger     47.8     72.2     56.7     80     34.2     19.8     28.9     100     14.5     6.5     12.1     125     3.2     1.4     2.1     163 and smaller     0.3     0.1     0.2 White seedless grapefruit:     32 and larger     10.6     17.5     17.3     15.9     40     21.9     19.9     21.6     48     21.0     18.3     21.8     56     11.8     11.5     12.2     63 and smaller     7.1     5.0     4.7     36     16.3     11.3     11.0     40     20.9     19.9     20.0     48     22.3     21.2     21.9     56     3 and smaller     20.3     28.3     25.9 Sunburst tangerines:     150 and larger     67.4     71.7     72.4     176     16.0     13.9     16.2     294 and smaller     10.0     39.2     33.7     37.4     120     33.0     29.3     38.0     100     39.2     33.7     37.4     120     33.0     29.3     38.0     100     33.0     30.3     38.3     38.3     40     40     4.0     4.2     2.4     294 and smaller     1.7     1.0     0.2 Temples:     80 and larger     73.2     63.4     74.9     176     15.7     15.8     11.8     11.9     12.3 Honey tangerines:     150 and larger     73.2     63.4     74.9     176     15.7     15.8     11.8     11.9     12.9     33.0     29.3     33.0     39.3     38.0     120     33.0     31.3     38.3	Type of fruit and size	1998	1999	2000
Early and midseason oranges: (excluding Navels)     64 and larger     80     7.2     13.0     5.0     100     30.8     36.9     24.2     125     40.9     32.4     39.1     163 and smaller     20.3     15.4     31.2 Navel oranges:     64 and larger     47.8     72.2     56.7     80     34.2     19.8     28.9     100     14.5     6.5     12.1     125     3.2     1.4     2.1     163 and smaller     0.3     0.1     0.2 White seedless grapefruit:     32 and larger     36     17.5     17.3     15.9     40     21.9     19.9     21.6     48     21.0     18.3     21.8     56     11.8     11.5     12.2     63 and smaller     7.1     36     36.3     17.2 Colored seedless grapefruit:     32 and larger     7.1     5.0     4.7     36     16.3     11.3     11.0     40     20.9     19.9     20.0     48     22.3     21.2     21.9     56     63 and smaller     20.3     28.3     25.9 Sunburst tangerines:     150 and larger     76.4     71.7     72.4     176     16.0     13.9     16.2     210     10.9     9.2     8.8     246     4.0     4.2     244     294 and smaller     1.7     10.0     22.1 Temples:     80 and larger     16.8     14.9     12.3     100     39.2     33.7     37.4     120     33.0     29.3     38.0     15.7     15.8     11.8 Honey tangerines:     150 and larger     73.2     63.4     74.9 176     15.7 15.8 11.8 11.9 11.9 11.1 11.1 11.1 12.1 12.1 12.2 12.3 13.3 13	in 4/5-bushel containers		_	
(excluding Navels)     64 and larger     80     7.2     13.0     5.0     100     30.8     36.9     24.2     125     40.9     32.4     39.1     163 and smaller     20.3     15.4     31.2  Navel oranges:     64 and larger     47.8     72.2     56.7     80     34.2     19.8     28.9     100     14.5     6.5     12.1     125     3.2     1.4     2.1     163 and smaller     0.3     0.1     0.2  White seedless grapefruit:     32 and larger     36     17.5     17.3     15.9     40     21.9     19.9     21.6     48     21.0     18.3     21.8     56     11.8     11.5     12.2     63 and smaller  Colored seedless grapefruit:     32 and larger     32 and larger     7.1     36     16.3     11.3     11.0     40     20.9     19.9     20.0     48     22.3     21.2     21.3     19.0  Colored seedless grapefruit:     32 and larger     7.1     36     16.3     11.3     11.0     40     20.9     19.9     20.0     48     22.3     21.2     21.9     56     13.1     14.3     16.5     63 and smaller     20.3     28.3     25.9  Sunburst tangerines:     150 and larger     67.4     71.7     72.4     176     16.0     13.9     16.2     210     10.9     9.2     8.8     246     4.0     4.2     244     294 and smaller     1.7     1.0     0.2  Temples:     80 and larger     16.8     14.9     12.3     150 and smaller     11.0     22.1     123  Honey tangerines:     150 and smaller     150 and smaller     10.7     11.1     9.1     246     3.0     29.3     38.0     156 and smaller     150 and smaller     1.0     20.1     33.0     29.3     38.0     150 and smaller     150 and smaller     10.0     39.2     33.7     37.4     120     33.0     33.0     33.0     33.0     34.0     34.0     38.0     34.0     38.0			Percent	
64 and larger				
80       7.2       13.0       5.0         100       30.8       36.9       24.2         125       40.9       32.4       39.1         163 and smaller       20.3       15.4       31.2         Navel oranges:       64 and larger       47.8       72.2       56.7         80       34.2       19.8       28.9         100       14.5       6.5       12.1         125       3.2       1.4       2.1         163 and smaller       0.3       0.1       0.2         White seedless grapefruit:       32 and larger       10.6       11.7       9.5         36       17.5       17.3       15.9         40       21.9       19.9       21.6         48       21.0       18.3       21.8         40       21.9       19.9       21.6         48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2				
100       30.8       36.9       24.2         125       40.9       32.4       39.1         163 and smaller       20.3       15.4       31.2         Navel oranges:       64 and larger       47.8       72.2       56.7         80       34.2       19.8       28.9         100       14.5       6.5       12.1         125       3.2       1.4       2.1         163 and smaller       0.3       0.1       0.2         White seedless grapefruit:         32 and larger       10.6       11.7       9.5         36       17.5       17.3       15.9         40       21.9       19.9       21.6         48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         46       16.3       11.3       11.0         40       20.9       19.9       20.0         48 <t< td=""><td>64 and larger</td><td></td><td>2.3</td><td>0.5</td></t<>	64 and larger		2.3	0.5
125	80	7.2	13.0	5.0
163 and smaller       20.3       15.4       31.2         Navel oranges:       64 and larger       47.8       72.2       56.7         80       34.2       19.8       28.9         100       14.5       6.5       12.1         125       3.2       1.4       2.1         163 and smaller       0.3       0.1       0.2         White seedless grapefruit:         32 and larger       10.6       11.7       9.5         36       17.5       17.3       15.9         40       21.9       19.9       21.6         48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       17.2       21.3       19.0         Colored seedless grapefruit:         32 and larger       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       11.0         40       20.9       19.9       20.0         48       22.3	100	30.8	36.9	24.2
Navel oranges: 64 and larger 80 34.2 19.8 28.9 100 14.5 6.5 12.1 125 3.2 1.4 2.1 163 and smaller 0.3 0.1 0.2 White seedless grapefruit: 32 and larger 47.8 36 17.5 17.3 15.9 40 21.9 48 21.0 18.3 21.8 56 11.8 11.5 12.2 63 and smaller 17.2 Colored seedless grapefruit: 32 and larger 7.1 36 16.3 11.3 11.0 40 20.9 19.9 20.0 48 22.3 21.2 21.9 56 13.1 14.3 16.5 63 and smaller 20.3 28.3 25.9 Sunburst tangerines: 150 and larger 67.4 176 16.0 13.9 16.2 210 10.9 246 294 and smaller 10.0 39.2 33.7 37.4 120 33.0 29.3 38.0 17.5 17.6 210 17.6 16.8 14.9 12.3 100 13.9 16.2 100 10.9 10.9 10.9 10.9 10.9 10.9 10.9	125	40.9	32.4	39.1
64 and larger 80 34.2 19.8 28.9 100 14.5 6.5 12.1 125 3.2 1.4 2.1 163 and smaller 0.3 0.1 0.2 White seedless grapefruit: 32 and larger 10.6 11.7 9.5 36 17.5 17.3 15.9 40 21.9 19.9 21.6 48 21.0 18.3 21.8 56 11.8 11.5 12.2 63 and smaller 7.2 21.3 19.0 Colored seedless grapefruit: 32 and larger 7.1 5.0 4.7 36 16.3 11.3 11.0 40 20.9 19.9 20.0 48 22.3 21.2 21.9 56 13.1 14.3 16.5 63 and smaller 20.3 28.3 25.9 Sunburst tangerines: 150 and larger 67.4 71.7 72.4 176 16.0 13.9 16.2 210 246 4.0 4.2 2.4 294 and smaller 11.0 22.1 12.3 Honey tangerines: 150 and larger 16.8 14.9 12.3 100 156 and smaller 11.0 22.1 12.3 Honey tangerines: 150 and larger 16.8 14.9 12.3 100 156 and smaller 11.0 22.1 12.3 Honey tangerines: 150 and larger 16.8 14.9 12.3 100 156 and smaller 11.0 22.1 12.3 Honey tangerines: 150 and larger 73.2 63.4 74.9 176 170 170 170 170 170 170 170 170 170 170	163 and smaller	20.3	15.4	31.2
64 and larger 80 34.2 19.8 28.9 100 14.5 6.5 12.1 12.5 3.2 1.4 2.1 163 and smaller 0.3 0.1 0.2 White seedless grapefruit: 32 and larger 10.6 11.7 9.5 3.6 17.5 17.3 15.9 40 21.9 19.9 21.6 48 21.0 18.3 21.8 56 11.8 11.5 12.2 63 and smaller 17.2 21.3 19.0 Colored seedless grapefruit: 32 and larger 7.1 5.0 4.7 36 16.3 11.3 11.0 40 20.9 19.9 20.0 48 22.3 21.2 21.9 56 13.1 14.3 16.5 63 and smaller 20.3 28.3 25.9 Sunburst tangerines: 150 and larger 67.4 71.7 72.4 176 16.0 13.9 16.2 210 246 294 and smaller 11.0 22.1 12.3 Honey tangerines: 150 and larger 16.8 14.9 12.3 100 120 33.0 29.3 38.0 120 156 and smaller 11.0 22.1 12.3 Honey tangerines: 150 and larger 16.8 14.9 12.3 100 12.0 12.0 12.0 12.0 12.0 12.0 12.0	Navel oranges:			
80       34.2       19.8       28.9         100       14.5       6.5       12.1         125       3.2       1.4       2.1         163 and smaller       0.3       0.1       0.2         White seedless grapefruit:         32 and larger       10.6       11.7       9.5         36       17.5       17.3       15.9         40       21.9       19.9       21.6         48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       17.2       21.3       19.0         Colored seedless grapefruit:         32 and larger       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:         150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2		47.8	72.2	56.7
100       14.5       6.5       12.1         125       3.2       1.4       2.1         163 and smaller       0.3       0.1       0.2         White seedless grapefruit:         32 and larger       10.6       11.7       9.5         36       17.5       17.3       15.9         40       21.9       19.9       21.6         48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       17.2       21.3       19.0         Colored seedless grapefruit:         32 and larger       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:         150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8				
125		-		
163 and smaller       0.3       0.1       0.2         White seedless grapefruit:       32 and larger       10.6       11.7       9.5         36       17.5       17.3       15.9         40       21.9       19.9       21.6         48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       17.2       21.3       19.0         Colored seedless grapefruit:       32 and larger       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:       150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger				
White seedless grapefruit:  32 and larger  36				
32 and larger       10.6       11.7       9.5         36       17.5       17.3       15.9         40       21.9       19.9       21.6         48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       17.2       21.3       19.0         Colored seedless grapefruit:         32 and larger       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:         150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3 <td< td=""><td></td><td>0.0</td><td>0.1</td><td>0.2</td></td<>		0.0	0.1	0.2
36       17.5       17.3       15.9         40       21.9       19.9       21.6         48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       17.2       21.3       19.0         Colored seedless grapefruit:         32 and larger       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:         150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120		10.6	11 7	9.5
40 21.9 19.9 21.6 48 21.0 18.3 21.8 56 11.8 11.5 12.2 63 and smaller 17.2 21.3 19.0  Colored seedless grapefruit:				
48       21.0       18.3       21.8         56       11.8       11.5       12.2         63 and smaller       17.2       21.3       19.0         Colored seedless grapefruit:       32 and larger       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:       20.3       28.3       25.9         Sunburst tangerines:       80 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2       210       10.9       9.2       8.8         246       4.0       4.2       2.4       294 and smaller       1.7       1.0       0.2         Temples:       80 and larger       16.8       14.9       12.3       14.0       14.0       12.3       12.3         Honey tangerines:       150 and larger       73.2       63.4       74.9       17.6       15.7       15.8       11.8       21.0       7.1		_	-	
56       11.8       11.5       12.2         63 and smaller       17.2       21.3       19.0         Colored seedless grapefruit:       32 and larger       7.1       5.0       4.7         36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:       150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:       80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       15.7       15.8       11.8         210       7.1       11.1       9.1     <		-		
Colored seedless grapefruit:  32 and larger  7.1 5.0 4.7  36 16.3 11.3 11.0  40 20.9 19.9 20.0  48 22.3 21.2 21.9  56 13.1 14.3 16.5  63 and smaller  Sunburst tangerines:  150 and larger  767.4 71.7 72.4  176 16.0 13.9 16.2  210 10.9 9.2 8.8  246 4.0 4.2 2.4  294 and smaller  1.7 1.0 0.2  Temples:  80 and larger  16.8 14.9 12.3  100 39.2 33.7 37.4  120 33.0 29.3 38.0  156 and smaller  11.0 22.1 12.3  Honey tangerines:  150 and larger  73.2 63.4 74.9  176 15.7 15.8 11.8  210 7.1 11.1 9.1  246 3.2 6.3 3.4  294 and smaller  Tangelos:  80 and larger  26.1 40.4 22.4  100 33.0 31.3 38.3  120 33.0 31.3 38.3		-		
Colored seedless grapefruit:  32 and larger  36				
32 and larger 7.1 5.0 4.7 36 16.3 11.3 11.0 40 20.9 19.9 20.0 48 22.3 21.2 21.9 56 13.1 14.3 16.5 63 and smaller 20.3 28.3 25.9  Sunburst tangerines: 150 and larger 67.4 71.7 72.4 176 16.0 13.9 16.2 210 10.9 9.2 8.8 246 4.0 4.2 2.4 294 and smaller 1.7 1.0 0.2  Temples: 80 and larger 16.8 14.9 12.3 100 39.2 33.7 37.4 120 33.0 29.3 38.0 156 and smaller 11.0 22.1 12.3  Honey tangerines: 150 and larger 73.2 63.4 74.9 176 15.7 15.8 11.8 210 7.1 11.1 9.1 246 3.2 6.3 3.4 294 and smaller 0.8 3.4 0.8  Tangelos:  80 and larger 0.8 3.4 0.8  Tangelos: 80 and larger 26.1 40.4 22.4 100 33.0 31.3 38.3 120 25.7 18.4 28.2		17.2	21.3	19.0
36       16.3       11.3       11.0         40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:         150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       150 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8		7.4	<b>5</b> 0	4.7
40       20.9       19.9       20.0         48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:         150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       150 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:				
48       22.3       21.2       21.9         56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:         150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       15.0       and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:         80 and larger       26.1       40.4			_	
56       13.1       14.3       16.5         63 and smaller       20.3       28.3       25.9         Sunburst tangerines:         150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:         150 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:         80 and larger       26.1       40.4       22.4         100       33.0				
63 and smaller       20.3       28.3       25.9         Sunburst tangerines:       150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       15.0 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:       80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2				
Sunburst tangerines:       150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       15.0 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:       80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2				
150 and larger       67.4       71.7       72.4         176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       150 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:       80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2		20.3	28.3	25.9
176       16.0       13.9       16.2         210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       150 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:         80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2				
210       10.9       9.2       8.8         246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       150 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:         80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2				
246       4.0       4.2       2.4         294 and smaller       1.7       1.0       0.2         Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:         150 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:         80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2				-
294 and smaller       1.7       1.0       0.2         Temples:       80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:         80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2	210	10.9	-	
Temples:         80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       150 and larger       73.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:         80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2	246	4.0	4.2	2.4
80 and larger       16.8       14.9       12.3         100       39.2       33.7       37.4         120       33.0       29.3       38.0         156 and smaller       11.0       22.1       12.3         Honey tangerines:       3.2       63.4       74.9         176       15.7       15.8       11.8         210       7.1       11.1       9.1         246       3.2       6.3       3.4         294 and smaller       0.8       3.4       0.8         Tangelos:         80 and larger       26.1       40.4       22.4         100       33.0       31.3       38.3         120       25.7       18.4       28.2	294 and smaller	1.7	1.0	0.2
100     39.2     33.7     37.4       120     33.0     29.3     38.0       156 and smaller     11.0     22.1     12.3       Honey tangerines:     150 and larger     73.2     63.4     74.9       176     15.7     15.8     11.8       210     7.1     11.1     9.1       246     3.2     6.3     3.4       294 and smaller     0.8     3.4     0.8       Tangelos:       80 and larger     26.1     40.4     22.4       100     33.0     31.3     38.3       120     25.7     18.4     28.2	Temples:			
120     33.0     29.3     38.0       156 and smaller     11.0     22.1     12.3       Honey tangerines:       150 and larger     73.2     63.4     74.9       176     15.7     15.8     11.8       210     7.1     11.1     9.1       246     3.2     6.3     3.4       294 and smaller     0.8     3.4     0.8       Tangelos:       80 and larger     26.1     40.4     22.4       100     33.0     31.3     38.3       120     25.7     18.4     28.2	80 and larger	16.8	14.9	12.3
156 and smaller     11.0     22.1     12.3       Honey tangerines:     73.2     63.4     74.9       176     15.7     15.8     11.8       210     7.1     11.1     9.1       246     3.2     6.3     3.4       294 and smaller     0.8     3.4     0.8       Tangelos:       80 and larger     26.1     40.4     22.4       100     33.0     31.3     38.3       120     25.7     18.4     28.2	100	39.2	33.7	37.4
Honey tangerines:  150 and larger 73.2 63.4 74.9 176 15.7 15.8 11.8 210 7.1 11.1 9.1 246 3.2 6.3 3.4 294 and smaller 0.8 3.4 0.8  Tangelos:  80 and larger 26.1 100 33.0 31.3 38.3 120 25.7 18.4 28.2	120	33.0	29.3	38.0
150 and larger 73.2 63.4 74.9 176 15.7 15.8 11.8 210 7.1 11.1 9.1 246 3.2 6.3 3.4 294 and smaller 0.8 3.4 0.8 Tangelos: 80 and larger 26.1 40.4 22.4 100 33.0 31.3 38.3 120 25.7 18.4 28.2	156 and smaller	11.0	22.1	12.3
150 and larger 73.2 63.4 74.9 176 15.7 15.8 11.8 210 7.1 11.1 9.1 246 3.2 6.3 3.4 294 and smaller 0.8 3.4 0.8 Tangelos: 80 and larger 26.1 40.4 22.4 100 33.0 31.3 38.3 120 25.7 18.4 28.2	Honey tangerines:			
176 15.7 15.8 11.8 210 7.1 11.1 9.1 246 3.2 6.3 3.4 294 and smaller 0.8 3.4 0.8 Tangelos:  80 and larger 26.1 40.4 22.4 100 33.0 31.3 38.3 120 25.7 18.4 28.2		73.2	63.4	74.9
210     7.1     11.1     9.1       246     3.2     6.3     3.4       294 and smaller     0.8     3.4     0.8       Tangelos:       80 and larger     26.1     40.4     22.4       100     33.0     31.3     38.3       120     25.7     18.4     28.2				
246     3.2     6.3     3.4       294 and smaller     0.8     3.4     0.8       Tangelos:       80 and larger     26.1     40.4     22.4       100     33.0     31.3     38.3       120     25.7     18.4     28.2		-		_
294 and smaller     0.8     3.4     0.8       Tangelos:     80 and larger     26.1     40.4     22.4       100     33.0     31.3     38.3       120     25.7     18.4     28.2				
Tangelos:  80 and larger 26.1 40.4 22.4 100 33.0 31.3 38.3 120 25.7 18.4 28.2				
80 and larger 26.1 40.4 22.4 100 33.0 31.3 38.3 120 25.7 18.4 28.2		0.0	5.∓	5.0
100 33.0 31.3 38.3 120 25.7 18.4 28.2		26.1	40 4	22 4
120 25.7 18.4 28.2				
100 and smaller 10.2 3.3 11.1				
	130 and smaller	10.2	J.J	11.1

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 eighth inch range, except for the smallest values.

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

# Diameter (Inches)

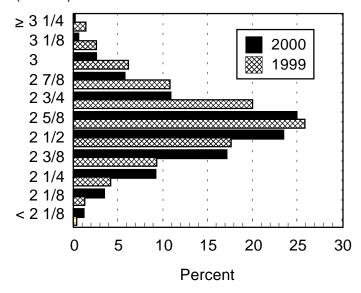


CHART 2: White seedless grapefruit size frequency by diameter from November measurements.

# Diameter (Inches)

