

# CITRUS november forecast maturity test results and fruit size

## **ORANGES 240.0 MILLION BOXES**

The October 1 forecasts for all states are repeated in this report since no November forecasts are made. The Florida all orange forecast is 3 percent more than the 233.0 million boxes recorded last season. During the past 10 seasons, the October forecast has deviated from final recorded utilization by an average of 3.7 percent; three of the seasons were above and the remaining seven were below the final estimates of utilization.

## FCOJ YIELD 1.55 GALLONS PER BOX

Since there are no November forecasts or projections, the forecast for FCOJ remains at 1.55 gallons per box at 42.0 degrees Brix equivalent. Maturity test results on fruit collected October 30 and 31 are presented on page 3. All averages are unadjusted as in prior seasons and provide a measure of changes occurring in fruit still on the trees. The tests do not reflect the same levels of maturity as those being reported by processors from plant tests or plant recovery rates because the latter relate to fruit that has been harvested.

The final 1999-00 all orange season average FCOJ yield as reported by the Florida Citrus Processors Association was 1.55 gallons per box. The next FCOJ projection will be released with the box forecasts on December 12.

Citrus production, October 1, 2000 forecasts by varieties and states, with comparisons							
Crop and State		Production		Forecast			
	1997-98	1998-99	1999-00	2000-01			
Early, Midseason, and Navel Oranges:		1,000	) boxes				
FLORIDA	140,000	112,000	134,000	135,000			
California	44,000	21,000	40,000	34,000			
Texas	1,350	1,250	1,540	1,800			
Arizona	350	550	600	550			
Total Above Varieties	185,700	134,800	176,140	171,350			
Valencias:							
FLORIDA	104,000	74,000	99,000	105,000			
California	25,000	15,000	27,000	25,000			
Texas	175	180	200	200			
Arizona	650	600	500	500			
Total Valencias	129,825	89,780	126,700	130,700			
All Oranges:							
FLORIDA	244,000	186,000	233,000	240,000			
California	69,000	36,000	67,000	59,000			
Texas	1,525	1,430	1,740	2,000			
Arizona	1,000	1,150	1,100	1,050			
Total All Oranges	315,525	224,580	302,840	302,050			

FLORIDA AGRICULTURE

November 9, 2000

# FORECAST DATES 2000-01 SEASON

December 12, 2000
January 10, 2001
February 8, 2001
March 8, 2001
April 10, 2001
May 10, 2001
June 12, 2001
July 11, 2001

#### **CROP PROGRESS**

October was a very dry month in virtually all of Florida's citrus belt. There were a few good rains the first of the month, however in most areas, the weather for the final three weeks turned warm and dry. Growers and caretakers used all types of irrigation to maintain good tree condition and to help promote better fruit sizes. Due to the dry conditions, there was very little new growth during the month.

Most of the early types of fruit are currently showing very good on-tree color break. Many fresh fruit packing houses are now active packing and shipping Navels, Hamlins and Ambersweet oranges, white and colored grapefruit, K-Early Citrus Fruit and early tangerines. There are a few processing plants open to receive packing house eliminations. There is very little grove run fruit being processed at this time as growers wait for better maturity tests.

Caretakers have been busy cutting cover crops and applying fall herbicides and sprays. Dead tree removal and burning of the general grove debris continues in all areas. Hedging and topping have been reported in some of the southern groves.

U.S. Department of Agriculture National Agricultural Statistics Service Florida Department of Agriculture and Consumer Services Division of Marketing and Development

	Indian	Indian River		Gulf		Florida Sun Ridge		State total	
Fruit type	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01	
ORANGES:			-	1,000 bo	xes	-	-	-	
Early & Midseason									
(Including Navels)	10,100	9,300	24,400	32,000	99,500	93,700	134,000	135,000	
Valencia	12,100	12,600	26,400	31,400	60,500	61,000	99,000	105,000	
All	22,200	21,900	50,800	63,400	160,000	154,700	233,000	240,000	
GRAPEFRUIT:									
White	14,400	14,100	2,100	2,700	5,000	3,200	21,500	20,000	
Colored	20,400	19,800	5,700	6,600	5,800	3,600	31,900	30,000	
All	34,800	33,900	7,800	9,300	10,800	6,800	53,400	50,000	

FLORIDA CITRUS: Distribution of 1999-00 production and 2000-01
forecast by marketing districts and fruit types

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

Production Forecast						
Crop and State		Forecast				
	1997-98	1998-99	1999-00	2000-01		
		1,000	boxes			
Grapefruit:						
FLORIDA-All	<sup>1/</sup> 49,550	47,050	53,400	50,000		
White <sup>2/</sup>	18,950	18,350	21,500	20,000		
Colored	30,600	28,700	31,900	30,000		
Texas	4,800	6,100	5,930	6,500		
Arizona	800	750	500	600		
California	8,000	7,300	7,000	7,200		
Total Grapefruit	63,150	61,200	66,830	64,300		
Lemons:						
California	21,000	16,200	19,600	21,000		
Arizona	2,600	3,450	3,100	3,600		
Total Lemons	23,600	19,650	22,700	24,600		
Limes: Florida	440	500	600	250		
Temples: Florida	2,250	1,800	1,950	1,800		
Tangelos: Florida	2,850	2,550	2,200	2,100		
K-Early: Florida	40	80	110	60		
Tangerines:						
FLORIDA-All	5,200	4,950	7,000	6,300		
Early 3/	3,200	3,050	4,350	3,700		
Honey	2,000	1,900	2,650	2,600		
California 4/	2,400	1,500	2,300	2,000		
Arizona 4/	600	950	850	850		
Total Tangerines	8,200	7,400	10,150	9,150		

 $^{\prime\prime}$  Excludes six million boxes of economic abandonment: five million white seedless and one

million colored. <sup>2/</sup> Includes seedy. <sup>3/</sup> Robinson, Fallglo, Sunburst, and Dancy. <sup>4/</sup> Includes tangelos.

## ESTIMATE OF PRODUCTION BY MARKETING DISTRICTS

The production forecasts made in October for Florida oranges and updated for grapefruit have been divided between marketing districts for this report. These are shown in the table above with the 1998-99 production for comparison.

# MATURITY AND WEATHER

The maturity test results reported on page 3 are from fruit collected October 30-31 and tested November 1-3. These samples were collected from the same trees as the September and October surveys and reflect maturity levels for unharvested fruit.

The next maturity tests and FCOJ yield projection will be released with the crop forecast December  $12^{th}$  at 8:30 a.m.

This was one of the driest Octobers in recent history. Growers and caretakers irrigated most of the month with all types of equipment to maintain good tree condition and to help increase fruit sizes. Fruit sizes are generally smaller than average for all types of fruit due in part to the below normal rainfall during the summer months and higher fruit set.

The pounds solids for all types of fruit tested are higher than last year at this time. The percent Brix and the pounds of juice per box also top last year at the same time. This year's bloom period was prolonged through late April due to the cool dry weather. There was constant irrigation in all areas during April and May to help set the current crop. The summer rains started around the first of June and continued through August. The general rainfall patterns started alternating and becoming less frequent during September. More rain is currently needed in all areas.

Unadjusted Maturity Tests:	Average of regular bloom fruit from sample
aroves 199	9-00 and 2000-01 seasons

groves, 1999-00 and 2000-01 seasons										
Fruit type	Acid		Soli	ds	Rat	io	Unfinishe	ed juice	Soli	ds
(No. groves)	70	lu	(Bri	x)	Nat		per	box	per l	xoc
test date	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01	1999-00	2000-01
	Perc		Perc				Pour		Pou	nds
		Juice a	and solids p	er box are u	inadjusted a	and not com	parable to p	plant test re	sults.	
ORANGES:										
Early (118-117)										
Sep 1	1.73	1.64	9.35	9.77	5.52	6.07	41.03	42.40	3.82	4.14
Oct 1	1.20	1.10	9.36	9.84	7.94	9.07	46.41	48.65	4.34	4.78
Nov 1	0.94	0.96	9.69	10.73	10.53	11.49	49.98	51.01	4.84	5.47
Mid (54-55)										
Sep 1	1.99	1.77	9.13	9.32	4.68	5.35	39.46	44.22	3.60	4.13
Oct 1	1.41	1.22	9.10	9.47	6.55	7.94	46.88	49.78	4.27	4.71
Nov 1	1.10	1.05	9.54	10.45	8.55	10.27	51.06	53.42	4.88	5.59
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
GRAPEFRUIT:										
White Seedless (49-4	8)									
Sep 1	1.84	1.83	10.28	10.18	5.61	5.57	29.07	32.50	2.98	3.31
Oct 1	1.62	1.59	9.81	10.26	6.11	6.49	34.56	36.56	3.38	3.74
Nov 1	1.44	1.50	9.59	10.41	6.71	6.96	38.04	40.45	3.65	4.20
Colored Seedless (44	-47)									
Sep 1	1.76	1.76	10.12	10.41	5.77	5.92	28.64	33.55	2.90	3.49
Oct 1	1.55	1.52	9.75	10.47	6.34	6.94	35.28	37.11	3.44	3.88
Nov 1	1.38	1.42	9.67	10.69	7.05	7.56	38.08	40.58	3.68	4.34

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,	November 1, 2000
----------------------------------	------------------

Fruit type	Groves	Acid	Solids	Ratio	Unfinished	Solids
	sampled	Aciu	(Brix)	Rallo	juice per box	per box
	Number	Percent	Percent		Pounds	Pounds
ORANGES:						
Early						
Indian River Dist.	11	0.96	11.00	11.74	51.57	5.67
Other Areas	106	0.96	10.71	11.47	50.95	5.45
Midseason						
Indian River Dist.	11	0.99	10.45	10.94	54.46	5.69
Other Areas	44	1.06	10.46	10.10	53.17	5.56
Late						
Indian River Dist.	25	2.07	9.76	4.80	51.72	5.05
Other Areas	125	1.99	9.41	4.80	50.62	4.76
GRAPEFRUIT:						
White Seedless						
Indian River Dist.	35	1.52	10.50	6.95	40.01	4.19
Other Areas	13	1.47	10.15	6.98	41.65	4.22
Colored Seedless						
Indian River Dist.	39	1.42	10.84	7.66	40.65	4.40
Other Areas	8	1.43	9.97	7.05	40.25	4.02

Florida	Citrus:	Size frequency d	listributions
	from Oc	ctober measurem	ents

Type of fruit and size in 4/5-bushel containers         1998         1999         2000           Early and midseason oranges: (excluding Navels)         Percent           64 and larger         0.5         1.3         0.2           80         3.9         9.5         2.9           100         21.1         29.8         17.2           125         42.9         36.4         38.4           163 and smaller         31.6         23.0         41.3           Navel oranges:           80           64 and larger         36.3         60.6         41.6           80         35.6         25.9         35.0           100         21.1         10.4         19.4           125         5.4         2.7         3.3           163 and smaller         16.0         0.4         0.7           White seedless grapefruit:         32 and larger         5.7         7.2         5.1           36         11.7         12.7         10.8         0.40         18.0         16.6           40         18.0         16.6         17.2         22.0         56         14.6         13.9         16.3           201 <th colspan="6">from October measurements</th>	from October measurements					
Early and midseason oranges: (excluding Navels) 64 and larger 0.5 1.3 0.2 80 		1998	1999	2000		
(excluding Navels) $64$ and larger $0.5$ $1.3$ $0.2$ $80$ $3.9$ $9.5$ $2.9$ $100$ $21.1$ $29.8$ $17.2$ $125$ $42.9$ $36.4$ $38.4$ $163$ and smaller $31.6$ $23.0$ $41.3$ Navel oranges: $44$ and larger $36.3$ $60.6$ $41.6$ $80$ $35.6$ $25.9$ $35.0$ $100$ $21.1$ $10.4$ $19.4$ $125$ $5.4$ $2.7$ $3.3$ $163$ and smaller $1.6$ $0.4$ $0.7$ White seedless grapefruit: $36.6$ $11.7$ $12.7$ $36$ $11.7$ $12.7$ $10.8$ $40$ $18.0$ $16.6$ $17.2$ $48$ $20.9$ $17.2$ $22.0$ $56$ $14.6$ $13.9$ $16.3$ $63$ and smaller $29.1$ $32.4$ $28.6$ Colored seedless grapefruit: $32$ and larger $3.7$ $4.8$ $3.2$ $36$ $9.6$ $9.6$ $7.6$ $40$ $18.5$ $14.0$ $14.6$ $48$ $22.8$ $19.3$ $20.4$ $56$ $15.8$ $15.0$ $17.9$ $63$ and smaller $29.6$ $37.3$ $36.3$ Fallglo tangerines: $15.0$ $17.9$ $39$ $2.3$ $2.0$ $246$ $$ $5.1$ $3.0$ $29.4$ $39.6$ $210$ $3.9$ $2.3$ $2.0$ $246$ $$ $5.1$ $3.0$ $210$ $3.9$ $2.3$ $2.0$ <td< td=""><td></td><td></td><td>Percent -</td><td></td></td<>			Percent -			
64 and larger         0.5         1.3         0.2           80         3.9         9.5         2.9           100         21.1         29.8         17.2           125         42.9         36.4         38.4           163 and smaller         31.6         23.0         41.3           Navel oranges:         64 and larger         36.3         60.6         41.6           80         35.6         25.9         35.0         100         21.1         10.4         19.4           125         5.4         2.7         3.3         163 and smaller         1.6         0.4         0.7           White seedless grapefruit:         32 and larger         5.7         7.2         5.1         36           40         18.0         16.6         17.2         48         20.9         17.2         22.0           56         14.6         13.9         16.3         36         36         36.3         36           Colored seedless grapefruit:         32 and larger         3.7         4.8         3.2         36         36         36.3         32.4         28.6         36.3         36.3         36.3         36.3         36.3         36.3         36.3 </td <td>Early and midseason oranges:</td> <td></td> <td></td> <td></td>	Early and midseason oranges:					
80         3.9         9.5         2.9           100         21.1         29.8         17.2           125         42.9         36.4         38.4           163 and smaller         31.6         23.0         41.3           Navel oranges:         64 and larger         36.3         60.6         41.6           80         35.6         25.9         35.0           100         21.1         10.4         19.4           125         5.4         2.7         3.3           163 and smaller         1.6         0.4         0.7           White seedless grapefruit:         32 and larger         5.7         7.2         5.1           36         11.7         12.7         10.8         40         18.0         16.6           40         18.0         16.6         17.2         22.0         56         14.6         13.9         16.3           63 and smaller         29.1         32.4         28.6         Colored seedless grapefruit:         32 and larger         3.7         4.8         3.2           32 and smaller         29.6         37.3         36.3         27.0           56         15.8         15.0         17.9	(excluding Navels)					
10021.129.817.212542.936.438.4163 and smaller31.623.041.3Navel oranges: $\end{targer}$ 36.360.641.68035.625.935.010021.110.419.41255.42.73.3163 and smaller1.60.40.7White seedless grapefruit: $\end{targer}$ 5.77.25.13611.712.710.84018.016.617.24820.917.222.05614.613.916.363 and smaller29.132.428.6Colored seedless grapefruit: $\end{targer}$ 3.74.83.2369.69.67.6404018.514.014.64822.819.320.45615.815.017.963 and smaller29.637.336.3Fallglot tangerines: $\end{targer}$ 90.981.287.01765.29.78.02.0246 $\end{targer}$ 1.7 $\end{targer}$ 150 and larger38.850.255.717619.015.518.221017.613.613.124614.111.48.124614.111.48.124614.111.48.124614.114.813.6	64 and larger		1.3	0.2		
125         42.9         36.4         38.4           163 and smaller         31.6         23.0         41.3           Navel oranges:	80		9.5			
163 and smaller         31.6         23.0         41.3           Navel oranges:         64 and larger         36.3         60.6         41.6           80         35.6         25.9         35.0           100         21.1         10.4         19.4           125         5.4         2.7         3.3           163 and smaller         1.6         0.4         0.7           White seedless grapefruit:         32 and larger         5.7         7.2         5.1           36         11.7         12.7         10.8         40         18.0         16.6         17.2           48         20.9         17.2         22.0         56         14.6         13.9         16.3           63 and smaller         29.1         32.4         28.6         28.6         22.6         20.6           Colored seedless grapefruit:         32 and larger         3.7         4.8         3.2         36         9.6         9.6         7.6           40         18.5         14.0         14.6         48         32.8         19.3         20.4           56         15.8         15.0         17.9         63 and smaller         29.6         37.3         36.3			29.8	17.2		
Navel oranges:64 and larger $36.3$ $60.6$ $41.6$ 80 $35.6$ $25.9$ $35.0$ 100 $21.1$ $10.4$ $19.4$ $125$ $5.4$ $2.7$ $3.3$ $163$ and smaller $1.6$ $0.4$ $0.7$ White seedless grapefruit: $32$ and larger $5.7$ $7.2$ $5.1$ $36$ $11.7$ $12.7$ $10.8$ $40$ $18.0$ $16.6$ $17.2$ $48$ $20.9$ $17.2$ $22.0$ $56$ $14.6$ $13.9$ $16.3$ $63$ and smaller $29.1$ $32.4$ $28.6$ Colored seedless grapefruit: $32$ and larger $3.7$ $4.8$ $3.2$ $36$ $9.6$ $9.6$ $7.6$ $40$ $18.5$ $14.0$ $14.6$ $48$ $22.8$ $19.3$ $20.4$ $56$ $15.8$ $15.0$ $17.9$ $63$ and smaller $29.6$ $37.3$ $36.3$ Fallglo tangerines: $150$ and larger $90.9$ $81.2$ $87.0$ $210$ $3.9$ $2.3$ $2.0$ $246$ $$ $5.1$ $3.0$ $294$ and smaller $$ $1.7$ $$ Sunburst tangerines: $150$ and larger $38.8$ $50.2$ $55.7$ $176$ $19.0$ $15.5$ $18.2$ $210$ $17.6$ $13.6$ $13.1$ $246$ $14.1$ $11.4$ $81.3$ $294$ and smaller $10.5$ $9.3$ $4.9$ Tangelos: $ 15.$		-				
64 and larger         36.3         60.6         41.6           80         35.6         25.9         35.0           100         21.1         10.4         19.4           125         5.4         2.7         3.3           163 and smaller         1.6         0.4         0.7           White seedless grapefruit:         32 and larger         5.7         7.2         5.1           36         11.7         12.7         10.8         40         18.0         16.6         17.2           40         18.0         16.6         17.2         22.0         56         14.6         13.9         16.3           40         18.0         16.6         17.2         22.0         56         14.6         13.9         16.3           63 and smaller         29.1         32.4         28.6         Colored seedless grapefruit:         32         32         32.0         45.6         15.6         15.6         16.3         32.0         45.6         15.6         15.6         15.0         17.9         63 and smaller         29.6         37.3         36.3         20.0         24.6         27.0         17.6         3.0         20.1         34.5         18.0         16.1<		31.6	23.0	41.3		
80         35.6         25.9         35.0           100         21.1         10.4         19.4           125         5.4         2.7         3.3           163 and smaller         1.6         0.4         0.7           White seedless grapefruit:         32 and larger         5.7         7.2         5.1           36         11.7         12.7         10.8         40           40         18.0         16.6         17.2           48         20.9         17.2         22.0           56         14.6         13.9         16.3           63 and smaller         29.1         32.4         28.6           Colored seedless grapefruit:         32 and larger         3.7         4.8         3.2           36         9.6         9.6         7.6         40         18.5         14.0         14.6           48         22.8         19.3         20.4         56         15.8         15.0         17.9           63 and smaller         29.6         37.3         36.3         36.3         36.3           Fallglo tangerines:         150 and larger         90.9         81.2         87.0           176         5.2 <td></td> <td></td> <td></td> <td></td>						
10021.110.419.41255.42.73.3163 and smaller1.60.40.7White seedless grapefruit:32 and larger5.77.25.13611.712.710.84018.016.617.24820.917.222.05614.613.916.363 and smaller29.132.428.6Colored seedless grapefruit:32 and larger3.74.83.2369.69.67.64018.514.014.64822.819.320.45615.815.017.963 and smaller29.637.336.3Fallglo tangerines:150 and larger90.981.287.01765.29.78.02103.92.32.02465.13.0294 and smaller5.717619.015.518.221017.613.613.124614.111.48.1294 and smaller5.717619.015.518.221017.613.613.124614.111.48.1294 and smaller10.59.34.9Tangelos:5.77.110017.327.122.112036.129.134.3156 and smaller40.428.136.557.77.112036.1 <td>-</td> <td></td> <td></td> <td>-</td>	-			-		
125       5.4       2.7       3.3         163 and smaller       1.6       0.4       0.7         White seedless grapefruit:       32 and larger       5.7       7.2       5.1         36       11.7       12.7       10.8         40       18.0       16.6       17.2         48       20.9       17.2       22.0         56       14.6       13.9       16.3         63 and smaller       29.1       32.4       28.6         Colored seedless grapefruit:       32 and larger       3.7       4.8       3.2         36       9.6       9.6       7.6       40       18.5       14.0       14.6         48       22.8       19.3       20.4       56       15.8       15.0       17.9         63 and smaller       29.6       37.3       36.3       36.3         Fallglo tangerines:       150 and larger       90.9       81.2       87.0         176       5.2       9.7       8.0       210       2.0         246        5.1       3.0       29       34.3       36.3         210       38.8       50.2       55.7       176       13.0       <						
163 and smaller         1.6         0.4         0.7           White seedless grapefruit:         32 and larger         5.7         7.2         5.1           36         11.7         12.7         10.8           40         18.0         16.6         17.2           48         20.9         17.2         22.0           56         14.6         13.9         16.3           63 and smaller         29.1         32.4         28.6           Colored seedless grapefruit:         32         36         9.6         9.6           336         9.6         9.6         7.6         40         18.5         14.0         14.6           48         22.8         19.3         20.4         56         15.8         15.0         17.9           63 and smaller         29.6         37.3         36.3         36         36.3         36.3           Fallglo tangerines:         150 and larger         90.9         81.2         87.0           176         5.2         9.7         8.0         22.0         246          51.3.0           294 and smaller          1.7          28.0         34.5         32.1			10.4			
White seedless grapefruit: $32$ and larger $5.7$ $7.2$ $5.1$ $36$ $11.7$ $12.7$ $10.8$ $40$ $18.0$ $16.6$ $17.2$ $48$ $20.9$ $17.2$ $22.0$ $56$ $14.6$ $13.9$ $16.3$ $63$ and smaller $29.1$ $32.4$ $28.6$ Colored seedless grapefruit: $32$ and larger $3.7$ $4.8$ $3.2$ $36$ $9.6$ $9.6$ $7.6$ $40$ $18.5$ $14.0$ $14.6$ $48$ $22.8$ $19.3$ $20.4$ $56$ $15.8$ $15.0$ $17.9$ $63$ and smaller $29.6$ $37.3$ $36.3$ Fallglo tangerines: $150$ and larger $90.9$ $81.2$ $87.0$ $176$ $5.2$ $9.7$ $8.0$ $210$ $3.9$ $2.3$ $2.0$ $246$ $$ $5.1$ $3.0$ $294$ and smaller $$ $5.7$ $1.7$ $150$ and larger $38.8$ $50.2$ $55.7$ $176$ $19.0$ $15.5$ $18.2$ $210$ $17.6$ $13.6$ $13.1$ $294$ and smaller $10.5$ $9.3$ $4.9$ Tangelos: $80$ and larger $6.2$ $15.7$ $7.1$ $100$ $17.3$ $27.1$ $22.1$ $120$ $36.1$ $29.1$ $34.3$ $36.5$ Temples: $80$ and larger $3.4$ $5.3$ $2.7$ $100$ $22.5$ $21.7$ $21.7$ $21.7$ <td></td> <td>-</td> <td></td> <td></td>		-				
32 and larger         5.7         7.2         5.1           36         11.7         12.7         10.8           40         18.0         16.6         17.2           48         20.9         17.2         22.0           56         14.6         13.9         16.3           63 and smaller         29.1         32.4         28.6           Colored seedless grapefruit:         32 and larger         3.7         4.8         3.2           36         9.6         9.6         7.6         40         18.5         14.0         14.6           48         22.8         19.3         20.4         56         15.8         15.0         17.9           63 and smaller         29.6         37.3         36.3         36         36         36.3           Fallglo tangerines:         150 and larger         90.9         81.2         87.0         17.6         13.0         246          5.1         3.0         246          5.1         3.0         29.4         34.9         13.1         246         14.1         11.4         81.1         29.4         31.1         14.1         11.4         81.1         29.4         31.1         24		1.6	0.4	0.7		
36       11.7       12.7       10.8         40       18.0       16.6       17.2         48       20.9       17.2       22.0         56       14.6       13.9       16.3         63 and smaller       29.1       32.4       28.6         Colored seedless grapefruit:       32 and larger       3.7       4.8       3.2         36       9.6       9.6       7.6         40       18.5       14.0       14.6         48       22.8       19.3       20.4         56       15.8       15.0       17.9         63 and smaller       29.6       37.3       36.3         Fallglo tangerines:       150 and larger       90.9       81.2       87.0         176       5.2       9.7       8.0       210       23       2.0         246        5.1       3.0       294 and smaller        5.7       176       13.6       13.1         246       14.1       11.4       8.1       294 and smaller       10.5       9.3       4.9         Tangelos:       30 and larger       6.2       15.7       7.1       100       17.3       27.1       22						
40       18.0       16.6       17.2         48       20.9       17.2       22.0         56       14.6       13.9       16.3         63 and smaller       29.1       32.4       28.6         Colored seedless grapefruit:       32 and larger       3.7       4.8       3.2         36       9.6       9.6       7.6         40       18.5       14.0       14.6         48       22.8       19.3       20.4         56       15.8       15.0       17.9         63 and smaller       29.6       37.3       36.3         Fallglo tangerines:       150 and larger       90.9       81.2       87.0         176       5.2       9.7       8.0       2.0         246        5.1       3.0       2.0         246        5.1       3.0       2.0         246        5.1       3.0       2.0         246        5.1       3.0       2.0         246       14.1       11.4       8.1       2.0         210       17.6       13.6       13.1       2.4         240 and smaller <t< td=""><td>32 and larger</td><td>5.7</td><td>7.2</td><td>5.1</td></t<>	32 and larger	5.7	7.2	5.1		
48       20.9       17.2       22.0         56       14.6       13.9       16.3         63 and smaller       29.1       32.4       28.6         Colored seedless grapefruit:       32 and larger       3.7       4.8       3.2         36       9.6       9.6       7.6         40       18.5       14.0       14.6         48       22.8       19.3       20.4         56       15.8       15.0       17.9         63 and smaller       29.6       37.3       36.3         Fallglo tangerines:       150 and larger       90.9       81.2       87.0         176       5.2       9.7       8.0       210       23.0         246        5.1       3.0       294 and smaller        1.7         Sunburst tangerines:       150 and larger       38.8       50.2       55.7         176       19.0       15.5       18.2       210         210       17.6       13.6       13.1         246       14.1       11.4       8.1         294 and smaller       10.5       9.3       4.9         Tangelos:       80 and larger       6.2	36	11.7	12.7	10.8		
5614.613.916.3 $63$ and smaller $29.1$ $32.4$ $28.6$ Colored seedless grapefruit: $32$ and larger $3.7$ $4.8$ $3.2$ $36$ $9.6$ $9.6$ $7.6$ $40$ $18.5$ $14.0$ $14.6$ $48$ $22.8$ $19.3$ $20.4$ $56$ $15.8$ $15.0$ $17.9$ $63$ and smaller $29.6$ $37.3$ $36.3$ Fallglo tangerines: $150$ and larger $90.9$ $81.2$ $87.0$ $176$ $5.2$ $9.7$ $8.0$ $210$ $3.9$ $2.3$ $2.0$ $246$ $$ $5.1$ $3.0$ $294$ and smaller $$ $5.1$ $3.0$ $294$ and smaller $$ $5.1$ $3.0$ $294$ and smaller $$ $5.5$ $18.2$ $210$ $17.6$ $13.6$ $13.1$ $246$ $-1$ $11.4$ $8.1$ $294$ and smaller $-5$ $9.3$ $4.9$ Tangelos: $80$ and larger $6.2$ $15.7$ $7.1$ $100$ $17.3$ $27.1$ $22.1$ $12.0$ $36.1$ $29.1$ $34.3$ $156$ and smaller $40.4$ $28.1$ $36.5$ $7.7$ $100$ $22.5$ $21.7$ $21.7$ $21.7$ $120$ $40.3$ $33.4$ $39.8$		18.0	16.6	17.2		
63 and smaller         29.1         32.4         28.6           Colored seedless grapefruit:         32 and larger         3.7         4.8         3.2           36         9.6         9.6         7.6           40         18.5         14.0         14.6           48         22.8         19.3         20.4           56         15.8         15.0         17.9           63 and smaller         29.6         37.3         36.3           Fallglo tangerines:         150 and larger         90.9         81.2         87.0           176         5.2         9.7         8.0         210         3.9         2.3         2.0           246          5.1         3.0         294 and smaller          5.1         3.0           294 and smaller          5.1         3.0         294 and smaller          5.1         3.0           294 and smaller         10.5         9.3         4.9         11.1         14.4         8.1           294 and smaller         10.5         9.3         4.9         13.1         246         14.1         11.4         8.1           294 and smaller         10.5         9.3 <td>48</td> <td>20.9</td> <td>17.2</td> <td>22.0</td>	48	20.9	17.2	22.0		
Colored seedless grapefruit:       3.7       4.8       3.2         36       9.6       9.6       7.6         40       18.5       14.0       14.6         48       22.8       19.3       20.4         56       15.8       15.0       17.9         63 and smaller       29.6       37.3       36.3         Fallglo tangerines:       150 and larger       90.9       81.2       87.0         176       5.2       9.7       8.0         210       3.9       2.3       2.0         246        5.1       3.0         294 and smaller        5.1       3.0         294 and smaller        1.7          Sunburst tangerines:       1       150 and larger       38.8       50.2       55.7         176       19.0       15.5       18.2       210       17.6       13.6       13.1         246       14.1       11.4       8.1       294 and smaller       10.5       9.3       4.9         Tangelos:       80 and larger       6.2       15.7       7.1       10.0       17.3       27.1       22.1       12.0       36.1       29.1<	56	14.6	13.9	16.3		
32 and larger       3.7       4.8       3.2         36       9.6       9.6       7.6         40       18.5       14.0       14.6         48       22.8       19.3       20.4         56       15.8       15.0       17.9         63 and smaller       29.6       37.3       36.3         Fallglo tangerines:       150 and larger       90.9       81.2       87.0         176       5.2       9.7       8.0         210       3.9       2.3       2.0         246        5.1       3.0         294 and smaller        5.1       3.0         294 and smaller        5.7       176         150 and larger       38.8       50.2       55.7         176       19.0       15.5       18.2         210       17.6       13.6       13.1         246       14.1       11.4       8.1         294 and smaller       10.5       9.3       4.9         Tangelos:       80 and larger       6.2       15.7       7.1         100       17.3       27.1       22.1       13.3       156 and smaller       40.4<	63 and smaller	29.1	32.4	28.6		
36       9.6       9.6       7.6         40       18.5       14.0       14.6         48       22.8       19.3       20.4         56       15.8       15.0       17.9         63 and smaller       29.6       37.3       36.3         Fallglo tangerines:       90.9       81.2       87.0         176       5.2       9.7       8.0         210       3.9       2.3       2.0         246        5.1       3.0         294 and smaller        5.1       3.0         294 and smaller        1.7          Sunburst tangerines:       150 and larger       38.8       50.2       55.7         176       19.0       15.5       18.2       210       17.6       13.6       13.1         246       14.1       11.4       8.1       294       30.3       4.9       31.1         246       14.1       11.4       8.1       294       31.3       4.9       31.1         246       14.1       11.4       8.1       29.4       31.3       36.1       29.1       34.3         100       17.3       27.1	Colored seedless grapefruit:					
40 $18.5$ $14.0$ $14.6$ $48$ $22.8$ $19.3$ $20.4$ $56$ $15.8$ $15.0$ $17.9$ $63$ and smaller $29.6$ $37.3$ $36.3$ Fallglo tangerines: $29.6$ $37.3$ $36.3$ Fallglo tangerines: $150$ and larger $90.9$ $81.2$ $87.0$ $176$ $5.2$ $9.7$ $8.0$ $210$ $3.9$ $2.3$ $2.0$ $246$ $$ $5.1$ $3.0$ $294$ and smaller $$ $5.1$ $3.0$ $294$ and smaller $$ $5.1$ $3.0$ $294$ and smaller $$ $5.7$ $1.7$ $150$ and larger $38.8$ $50.2$ $55.7$ $176$ $19.0$ $15.5$ $18.2$ $210$ $17.6$ $13.6$ $13.1$ $246$ $14.1$ $11.4$ $8.1$ $294$ and smaller $10.5$ $9.3$ $4.9$ Tangelos: $ 5.7$ $7.1$ $100$ $17.3$ $27.1$ $22.1$ $120$ $36.1$ $29.1$ $34.3$ $156$ and smaller $40.4$ $28.1$ $36.5$ Temples: $ 3.4$ $5.3$ $2.7$ $100$ $22.5$ $21.7$ $21.7$ $120$ $40.3$ $33.4$ $39.8$	32 and larger	3.7	4.8	3.2		
4822.819.320.45615.815.017.963 and smaller29.637.336.3Fallglo tangerines:29.637.336.3Fallglo tangerines:90.981.287.01765.29.78.02103.92.32.02465.13.0294 and smaller5.13.0294 and smaller1.7Sunburst tangerines:150 and larger38.850.255.717619.015.518.221017.613.613.124614.111.48.1294 and smaller10.59.34.9Tangelos:7.110017.327.122.112036.129.134.3156 and smaller40.428.136.5Temples:120 <td>36</td> <td>9.6</td> <td>9.6</td> <td>7.6</td>	36	9.6	9.6	7.6		
56 $15.8$ $15.0$ $17.9$ $63$ and smaller $29.6$ $37.3$ $36.3$ Fallglo tangerines: $29.6$ $37.3$ $36.3$ Fallglo tangerines: $90.9$ $81.2$ $87.0$ $176$ $5.2$ $9.7$ $8.0$ $210$ $3.9$ $2.3$ $2.0$ $246$ $5.1$ $3.0$ $294$ and smaller $1.7$ $$ Sunburst tangerines: $$ $1.7$ $$ $150$ and larger $38.8$ $50.2$ $55.7$ $176$ $19.0$ $15.5$ $18.2$ $210$ $17.6$ $13.6$ $13.1$ $246$ $14.1$ $11.4$ $8.1$ $294$ and smaller $10.5$ $9.3$ $4.9$ Tangelos: $$ $51.7$ $7.1$ $100$ $17.3$ $27.1$ $22.1$ $120$ $36.1$ $29.1$ $34.3$ $156$ and smaller $40.4$ $28.1$ $36.5$ Temples: $$ $3.4$ $5.3$ $2.7$ $100$ $22.5$ $21.7$ $21.7$ $120$ $40.3$ $33.4$ $39.8$	40	18.5	14.0	14.6		
63 and smaller       29.6       37.3       36.3         Fallglo tangerines:       90.9       81.2       87.0         150 and larger       90.9       81.2       87.0         176       5.2       9.7       8.0         210       3.9       2.3       2.0         246        5.1       3.0         294 and smaller        1.7          Sunburst tangerines:       150 and larger       38.8       50.2       55.7         176       19.0       15.5       18.2       210       17.6       13.6       13.1         246       14.1       11.4       8.1       294 and smaller       10.5       9.3       4.9         Tangelos:       80 and larger       6.2       15.7       7.1       100       17.3       27.1       22.1         120       36.1       29.1       34.3       34.3       36.5       55         Temples:       80 and larger       3.4       5.3       2.7       100       22.5       21.7       21.7         120       40.3       33.4       39.8       39.8       39.8       39.8	48	22.8	19.3	20.4		
Fallglo tangerines:90.981.287.0150 and larger90.981.287.01765.29.78.02103.92.32.02465.13.0294 and smaller1.7Sunburst tangerines:1.71.7150 and larger38.850.255.717619.015.518.221017.613.613.124614.111.48.1294 and smaller10.59.34.9Tangelos:	56	15.8	15.0	17.9		
150 and larger90.981.287.01765.29.78.02103.92.32.02465.13.0294 and smaller1.7Sunburst tangerines:38.850.255.717619.015.518.221017.613.613.124614.111.48.1294 and smaller10.59.34.921017.613.613.124614.111.48.1294 and smaller10.59.34.9Tangelos:	63 and smaller	29.6	37.3	36.3		
1765.29.78.02103.92.32.02465.13.0294 and smaller5.13.0294 and smaller1.7Sunburst tangerines:150 and larger38.850.255.717619.015.518.221017.613.613.124614.111.48.1294 and smaller10.59.34.9Tangelos:						
210       3.9       2.3       2.0         246        5.1       3.0         294 and smaller        5.1       3.0         294 and smaller        1.7          Sunburst tangerines:        1.7          150 and larger       38.8       50.2       55.7         176       19.0       15.5       18.2         210       17.6       13.6       13.1         246       14.1       11.4       8.1         294 and smaller       10.5       9.3       4.9         Tangelos:         36.1       29.1       34.3         100       17.3       27.1       22.1       120       36.1       29.1       34.3         156 and smaller       40.4       28.1       36.5       5       5       7         120       36.1       29.1       34.3       36.5       5       7       1         100       22.5       21.7       21.7       1.7       100       22.5       21.7       21.7         120       40.3       33.4       39.8       39.8       3       39.8 <td>150 and larger</td> <td>90.9</td> <td>81.2</td> <td>87.0</td>	150 and larger	90.9	81.2	87.0		
246        5.1       3.0         294 and smaller        1.7          Sunburst tangerines:        1.7          150 and larger       38.8       50.2       55.7         176       19.0       15.5       18.2         210       17.6       13.6       13.1         246       14.1       11.4       8.1         294 and smaller       10.5       9.3       4.9         Tangelos:         7.1         100       17.3       27.1       22.1         120       36.1       29.1       34.3         156 and smaller       40.4       28.1       36.5         Temples:       80 and larger       3.4       5.3       2.7         100       22.5       21.7       21.7         120       40.3       33.4       39.8	176	5.2	9.7	8.0		
294 and smaller        1.7          Sunburst tangerines:       38.8       50.2       55.7         176       19.0       15.5       18.2         210       17.6       13.6       13.1         246       14.1       11.4       8.1         294 and smaller       10.5       9.3       4.9         Tangelos:         17.3       27.1       22.1         100       17.3       27.1       22.1       120       36.1       29.1       34.3         156 and smaller       40.4       28.1       36.5       5       5       5         80 and larger       3.4       5.3       2.7       100       22.5       21.7       21.7         120       40.3       33.4       39.8       39.8       39.8		3.9				
Sunburst tangerines:       38.8       50.2       55.7         176       19.0       15.5       18.2         210       17.6       13.6       13.1         246       14.1       11.4       8.1         294 and smaller       10.5       9.3       4.9         Tangelos:       7.1       100       17.3       27.1       22.1         100       17.3       27.1       22.1       36.1       29.1       34.3         156 and smaller       40.4       28.1       36.5       36.5         Temples:       80 and larger       3.4       5.3       2.7         100       22.5       21.7       21.7         120       40.3       33.4       39.8			-	3.0		
150 and larger38.850.255.717619.015.518.221017.613.613.124614.111.48.1294 and smaller10.59.34.9Tangelos:			1.7			
17619.015.518.221017.613.613.124614.111.48.1294 and smaller10.59.34.9Tangelos:7.110.57.110017.327.122.112036.129.134.3156 and smaller40.428.136.5Temples:80 and larger3.45.32.710022.521.721.712040.333.439.8	-					
210       17.6       13.6       13.1         246       14.1       11.4       8.1         294 and smaller       10.5       9.3       4.9         Tangelos:       7.1       10.5       7.1         100       17.3       27.1       22.1         120       36.1       29.1       34.3         156 and smaller       40.4       28.1       36.5         Temples:       80 and larger       3.4       5.3       2.7         100       22.5       21.7       21.7         120       40.3       33.4       39.8	150 and larger					
24614.111.48.1294 and smaller10.59.34.9Tangelos:	-					
294 and smaller10.59.34.9Tangelos:		17.6				
Tangelos:80 and larger6.215.77.110017.327.122.112036.129.134.3156 and smaller40.428.136.5Temples:80 and larger3.45.32.710022.521.721.712040.333.439.8						
80 and larger       6.2       15.7       7.1         100       17.3       27.1       22.1         120       36.1       29.1       34.3         156 and smaller       40.4       28.1       36.5         Temples:       34.3       5.3       2.7         100       22.5       21.7       21.7         120       40.3       33.4       39.8		10.5	9.3	4.9		
10017.327.122.112036.129.134.3156 and smaller40.428.136.5Temples:80 and larger3.45.32.710022.521.721.712040.333.439.8	•					
12036.129.134.3156 and smaller40.428.136.5Temples:34.336.536.580 and larger3.45.32.710022.521.721.712040.333.439.8	-					
156 and smaller40.428.136.5Temples:30 and larger3.45.32.710022.521.721.712040.333.439.8		-				
Temples:80 and larger3.45.32.710022.521.721.712040.333.439.8						
80 and larger3.45.32.710022.521.721.712040.333.439.8		40.4	28.1	36.5		
10022.521.721.712040.333.439.8	Temples:					
120 40.3 33.4 39.8	80 and larger	3.4	5.3	2.7		
	100	22.5	21.7	21.7		
156 and smaller 33.8 39.6 35.8	120	40.3	33.4	39.8		
	156 and smaller	33.8	39.6	35.8		

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 October measurements.



(Inches)

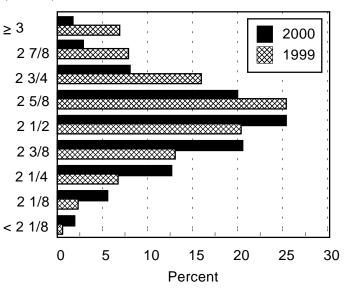


CHART 2: White seedless grapefruit size frequency by diameter from October measurements.

### Diameter

(Inches)

