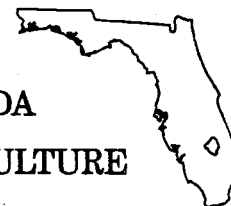




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FLORIDA  
AGRICULTURE

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# CITRUS 1996-97 SUMMARY

## PRODUCTION, PRICE, AND VALUE

### PRODUCTION BY COUNTIES AND PER TREE

September 23, 1997

FLORIDA CITRUS: Production, utilization, season average on-tree price and value for the 1995-96 and 1996-97 seasons

Fruit type	Crop year	Production	Crop utilization		On-tree	
			Fresh use	Processing	Price per box	Value of production
			1,000 1-3/5 bushel boxes		Dollars	1,000 dol.
Early-Midseason Oranges	1995-96	121,200	6,597	114,603	3.91	474,380
	1996-97	134,200	7,181	127,019	3.61	483,950
Valencia Oranges	1995-96	82,100	3,372	78,728	5.81	477,303
	1996-97	92,000	3,592	88,408	4.26	392,092
All Oranges	1995-96	203,300	9,969	193,331	4.68	951,683
	1996-97	226,200	10,773	215,427	3.87	876,042
Seedy Grapefruit	1995-96	1,050	--	1,050	1.83	1,922
	1996-97	900	--	900	0.33	297
White Seedless Grapefruit	1995-96	23,200	5,862	17,338	2.39	55,436
	1996-97	23,500 <sup>1</sup>	5,667	17,833	0.99	23,231
Colored Seedless Grapefruit	1995-96	28,100 <sup>1</sup>	16,981	11,119	1.95	54,778
	1996-97	31,400 <sup>1</sup>	17,554	13,846	1.43	44,908
All Grapefruit	1995-96	52,350 <sup>1</sup>	22,843	29,507	2.14	112,136
	1996-97	55,800 <sup>2</sup>	23,221	32,579	1.23	68,436
Templets	1995-96	2,150	693	1,457	4.42	9,501
	1996-97	2,400	558	1,842	3.06	7,349
Tangelos	1995-96	2,450	1,018	1,432	4.01	9,831
	1996-97	3,950	1,032	2,918	2.54	10,044
K-Early Citrus	1995-96	160	62	98	2.66	425
	1996-97	150	57	93	2.21	331
Early Tangerines <sup>3</sup>	1995-96	2,900	2,025	875	10.89	31,587
	1996-97	4,500	2,713	1,787	6.25	28,123
Honey Tangerines	1995-96	1,600	1,119	481	16.00	25,595
	1996-97	1,800	1,044	756	12.03	21,657
All Tangerines	1995-96	4,500	3,144	1,356	12.72	57,246
	1996-97	6,300	3,757	2,543	7.92	49,923
Limes	1995-96	300	240	60	8.05	2,414
	1996-97	320	255	65	5.01	1,604
Lemons	1995-96	165	--	--	8.25	1,361
	1996-97	195	--	--	10.10	1,974
All Citrus	1995-96	265,375	--	--	--	1,144,597
	1996-97	295,315	--	--	--	1,015,703

<sup>1</sup> Excludes 3.0 million boxes of economic abandonment. <sup>2</sup> Excludes 6.0 million boxes of economic abandonment. <sup>3</sup> Robinson, Fallglo, Sunburst, and Dancy varieties.

## PRODUCTION AND VALUE

Preliminary on-tree value of the 1996-97 citrus crop at \$1.0 billion reflects a decline from the revised \$1.1 billion in the 1995-96 season. Production increased for all fruit types except seedy grapefruit and K-Early Citrus, with orange varieties and colored seedless grapefruit reaching record levels. Average prices received declined, some to the lowest levels in many years, for all except the honey tangerines and lemons. Revised prices received for the 1994-95 and 1995-96 seasons include returns from participation and pool plans and revised estimates for packing and pick and haul charges.

Orange production attained a record high 226.2 million boxes, 11 percent more than the revised 203.3 million boxes in the previous season and nine percent more than the previous record of 206.7 million boxes in the 1979-80 season. The preliminary price of \$3.87 per box is 17 percent lower than the revised \$4.68 for 1995-96. Navel production attained a record 6.4 million boxes, 23 percent more than last season's 5.2 million boxes.

Grapefruit production also set a record at 55.8 million boxes, surpassing the 1994-95 season's 55.7 million boxes and seven percent more than last season's 52.35 million boxes. Preliminary prices were the lowest since the late 1960's. Fresh utilization of the crop was the third highest on record at 23.2 million boxes or 42 percent of total grapefruit production.

Production of specialty citrus was up with tangerines producing the largest crop since 1979-80. Lime production increased for the third consecutive season.

Prices for the 1996-97 season are preliminary and will be revised next September when the results of all participation plans and pool become final. Revised prices are shown for 1995-96.

The table on page 6 shows a breakdown of citrus prices for all fruit types by fresh and processed usage for 1996-97 and the two previous seasons.

Florida Citrus: Production by counties, areas, and types, 1996-9

County and area	All Citrus <sup>1</sup>	Round Oranges			Grapefruit			
		Early and midseason	Late (Valencia)	All	White Seedless	Colored Seedless	Seedy	All
1,000 BOXES								
Brevard	2,769	1,144	768	1,912	243	489	12	744
Charlotte	6,177	2,441	2,575	5,016	193	654	4	851
Collier	12,402	5,805	5,012	10,817	377	929	16	1,322
DeSoto	27,541	15,487	11,014	26,501	233	225	68	526
Glades	3,616	2,257	1,146	3,403	26	112	-	138
Hardee	22,324	16,698	4,588	21,286	136	281	18	435
Hendry	34,931	15,403	14,669	30,072	1,686	2,266	37	3,989
Highlands	27,137	10,357	13,205	23,562	1,166	476	169	1,811
Hillsborough	11,073	8,594	1,770	10,364	147	189	28	364
Indian River	21,768	4,046	3,188	7,234	6,183	7,813	25	14,021
Lake	4,961	2,963	588	3,551	64	303	10	377
Lee	3,743	1,691	1,625	3,316	115	233	5	353
Manatee	9,097	5,800	2,360	8,160	286	282	83	651
Martin	15,180	5,486	7,077	12,563	1,730	553	-	2,283
Okeechobee	3,758	2,092	1,011	3,103	383	203	3	589
Orange	2,357	1,321	650	1,971	7	55	6	68
Osceola	6,151	3,656	1,364	5,020	424	349	8	781
Palm Beach	4,366	1,802	968	2,770	559	627	-	1,186
Pasco	2,818	2,154	452	2,606	31	69	3	103
Polk	36,250	17,912	11,257	29,169	1,980	1,736	336	4,052
St. Lucie	34,234	5,876	6,314	12,190	7,433	13,327	61	20,821
Sarasota	861	357	242	599	66	138	2	206
Seminole	288	177	59	236	-	6	-	6
Volusia	342	199	54	253	27	48	2	77
Other <sup>2</sup>	656	482	44	526	5	37	4	46
Total	294,800	134,200	92,000	226,200	23,500	31,400	900	55,800
Indian River	62,563	11,700	11,700	23,400	14,800	22,300	100	37,200
Northern	11,124	7,178	1,767	8,945	104	466	19	589
Central	69,050	31,583	25,768	57,351	3,529	2,545	513	6,587
Western	70,954	46,957	19,992	66,949	872	1,120	203	2,195
Southern	81,109	36,782	32,773	69,555	4,195	4,969	65	9,229
Total	294,800	134,200	92,000	226,200	23,500	31,400	900	55,800

<sup>1</sup> Excludes limes and lemons.

<sup>2</sup> Broward, Citrus, Flagler, Hernando, Marion, Pinellas, and Sumter.

# PRODUCTION BY COUNTIES

Tangerines			Temples	Tangelos	K-Early Citrus
Early <sup>3</sup>	Honey	All			
42	3	45	29	37	2
195	47	242	27	41	-
89	91	180	56	27	-
175	112	287	47	165	15
42	28	70	-	5	-
289	103	392	34	176	1
307	248	555	191	124	-
527	197	724	601	439	-
105	74	179	51	109	6
148	69	217	109	187	-
389	16	405	21	510	97
37	16	53	7	14	-
37	40	77	64	145	-
44	28	72	162	100	-
23	10	33	19	14	-
108	34	142	30	146	-
111	26	137	111	94	8
64	117	181	167	62	-
40	14	54	14	41	-
1,381	343	1,724	262	1,026	17
281	171	452	381	390	-
6	9	15	13	28	-
5	1	6	-	39	1
3	-	3	-	9	-
52	3	55	4	22	3
4,500	1,800	6,300	2,400	3,950	150
471	243	714	582	665	2
596	68	664	65	760	101
2,009	556	2,565	971	1,551	25
612	338	950	212	626	22
812	595	1,407	570	348	-
4,500	1,800	6,300	2,400	3,950	150

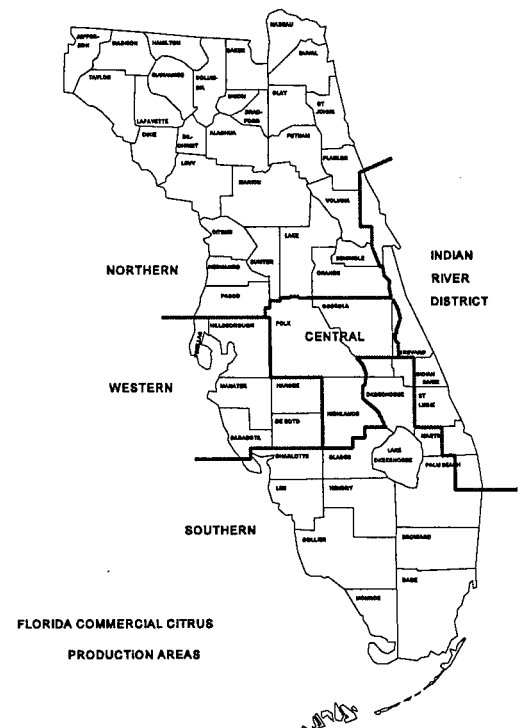
<sup>3</sup> Fallglo, Sunburst, Robinson, and Dancy varieties.

Polk County retained its lead as the top citrus producing county but Hendry and St. Lucie were very close with only 1.3 million and 2 million boxes fewer than Polk. These three counties accounted for over 35 percent of the State's total production. The "Gulf Citrus" area counties of Charlotte, Collier, Glades, Hendry, and Lee produced over 60 million boxes or 21 percent of the total crop.

Hendry County attained the lead in orange production with 30,072 million boxes, 15 percent more than the previous season. Polk, DeSoto, Highlands, and Hardee counties each produced over 20 million boxes of oranges.

Grapefruit production is centered in St. Lucie and Indian River counties and both recorded increases in crop size. Together they account for over 62 percent of the State total. Polk and Hendry counties each produced about four million boxes.

Estimates of county production are prepared from objective survey data used in forecasting citrus crop production. The apportionment of final harvest to the counties is based on bearing trees from the biennial Commercial Census Inventory; the limb count survey, which provides an estimate of the average fruit per tree; and the drop and size surveys, which provide estimates of the amount of fruit on the tree available at harvest, and the size of the fruit at that time. The size of the samples used in these surveys and the distribution of the sample groves around the state are chosen to minimize the error in the state level forecast of production. For this reason, county estimates of production are not to be considered as accurate as state or area level estimates.



# BOXES OF FRUIT PER TREE

The Florida Agricultural Statistics Service conducts objective surveys to determine fruit per tree, average sizes, and droppage between August and maturity. These data are used to estimate production per tree for each of four types of citrus fruit, as shown in the following tables.

The estimates of production per tree are based on official end-of-season production estimates and the number of bearing trees indicated by the citrus tree inventory surveys. The averages of

boxes per tree for age groups shown are calculated from estimates of fruit per tree in August, size at maturity, and drop between August and maturity.

Additionally, the boxes are subdivided by the Indian River Marketing District versus the remainder of the State. The estimated boxes by types and age groups are weighted averages of the indicated seasons.

**FLORIDA ORANGES:** Estimated boxes of fruit per tree by age groups and types, 1992-93 through 1996-97

Fruit type and season	Area	Age of trees					Average, weighted by bearing trees
		3 - 5 years	6 - 8 years	9 - 13 years	14 - 23 years	24 years and older	

--- Boxes per tree ---

## EARLY AND MIDSEASON: (Includes Navels)

1992-93	State	1.8	3.4	4.6	5.0	6.0	3.76
	Indian River	1.7	2.8	3.5	3.0	3.5	3.04
	Other areas	1.8	3.4	4.8	5.4	6.7	3.88
1993-94	State	1.4	3.2	3.8	4.5	5.2	3.32
	Indian River	1.4	2.3	2.3	2.5	2.6	2.26
	Other areas	1.4	3.3	4.1	4.8	5.9	3.48
1994-95	State	1.2	3.1	4.1	4.6	5.2	3.26
	Indian River	0.6	2.3	2.3	2.4	3.6	2.41
	Other areas	1.3	3.2	4.4	5.1	5.7	3.38
1995-96	State	1.3	2.9	3.8	4.1	4.9	3.11
	Indian River	0.5	2.3	2.7	2.4	2.7	2.09
	Other areas	1.4	3.0	3.9	4.5	5.5	3.25
1996-97	State	1.3	2.8	3.7	5.1	5.3	3.33
	Indian River	1.0	1.6	3.0	3.2	3.1	2.45
	Other areas	1.3	2.9	3.8	5.5	5.9	3.45
Average	State	1.41	3.04	3.94	4.65	5.33	3.34
	Indian River	0.97	2.25	2.76	2.71	3.10	2.44
	Other areas	1.45	3.11	4.11	5.06	5.92	3.47

## VALENCIA:

1992-93	State	1.4	2.4	3.3	3.9	4.2	2.75
	Indian River	1.0	1.9	2.8	2.8	2.6	2.15
	Other areas	1.5	2.5	3.4	4.1	4.8	2.89
1993-94	State	1.0	2.0	2.7	3.5	4.0	2.28
	Indian River	0.6	1.0	2.5	2.1	2.2	1.61
	Other areas	1.0	2.1	2.8	3.8	4.7	2.42
1994-95	State	1.4	2.7	2.5	3.5	4.2	2.56
	Indian River	0.9	1.6	2.2	2.1	3.0	1.98
	Other areas	1.4	2.8	2.5	3.9	4.6	2.68
1995-96	State	1.2	2.0	2.5	3.2	4.0	2.25
	Indian River	0.8	1.0	1.8	1.8	2.1	1.47
	Other areas	1.2	2.1	2.6	3.5	4.7	2.40
1996-97	State	1.1	2.3	2.5	3.3	4.2	2.41
	Indian River	0.5	1.4	2.7	2.6	2.9	2.00
	Other areas	1.2	2.4	2.5	3.5	4.6	2.48
Average	State	1.20	2.24	2.64	3.46	4.12	2.44
	Indian River	0.78	1.36	2.40	2.21	2.57	1.84
	Other areas	1.26	2.38	2.68	3.75	4.68	2.56

**FLORIDA SEEDLESS GRAPEFRUIT:** Estimated boxes of fruit per tree by age groups, types,  
and production areas, 1992-93 through 1996-97

Fruit type and season	Area	Age of trees					Average, weighted by bearing trees
		3 - 5 years	6 - 8 years	9 - 13 years	14 - 23 years	24 years and older	
--- Boxes per tree ---							
WHITE SEEDLESS:							
1992-93	State	2.3	3.9	7.5	7.1	7.0	6.13
	Indian River	2.3	3.4	8.3	4.7	6.6	5.51
	Other areas	2.3	4.5	6.3	10.8	8.2	7.41
1993-94	State	2.2	3.6	4.4	6.6	6.7	5.38
	Indian River	2.1	2.7	3.3	4.9	6.0	4.68
	Other areas	2.5	4.4	5.9	9.3	8.8	6.92
1994-95	State	3.2	2.5	5.2	7.1	6.4	5.32
	Indian River	3.0	2.1	5.0	7.3	6.1	5.20
	Other areas	3.8	2.9	5.5	6.8	6.9	5.57
1995-96	State	2.0	4.3	3.5	6.4	5.7	4.60
	Indian River	2.1	4.5	3.7	4.6	4.8	4.08
	Other areas	1.8	4.0	3.3	9.6	8.0	5.68
1996-97	State	2.0	4.3	2.9	5.9	5.6	4.55
	Indian River	1.2	4.3	2.8	4.7	5.4	4.32
	Other areas	3.1	4.3	3.1	8.2	6.1	4.99
Average	State	2.37	4.02	4.63	6.67	6.27	5.16
	Indian River	2.20	4.06	4.66	5.25	5.77	4.73
	Other areas	2.69	3.96	4.58	9.07	7.58	6.04
COLORED SEEDLESS:							
1992-93	State	2.5	4.9	5.6	5.7	6.4	4.65
	Indian River	2.0	4.9	5.1	5.4	5.5	4.39
	Other areas	3.2	5.0	7.4	7.3	9.3	5.34
1993-94	State	2.3	3.7	4.6	4.6	5.4	3.88
	Indian River	1.8	2.5	3.7	4.3	4.5	3.36
	Other areas	3.1	5.4	8.7	6.1	8.2	5.21
1994-95	State	2.0	3.5	4.9	5.3	5.1	3.81
	Indian River	2.3	3.4	5.0	5.1	4.9	4.05
	Other areas	1.7	3.7	4.3	6.5	5.6	3.31
1995-96	State	2.4	3.2	4.6	3.6	4.9	3.42
	Indian River	2.9	3.0	4.2	3.5	4.5	3.51
	Other areas	1.8	3.6	6.0	4.2	6.3	3.24
1996-97	State	1.5	3.5	4.4	5.2	5.1	3.63
	Indian River	1.6	3.6	4.4	5.4	4.8	3.95
	Other areas	1.4	3.4	4.6	4.7	6.3	3.03
Average	State	2.10	3.58	4.79	4.88	5.37	3.83
	Indian River	2.12	3.37	4.47	4.72	4.86	3.84
	Other areas	2.08	3.92	5.90	5.70	7.12	3.80

**Florida Citrus Prices:** Season average on-tree prices and equivalent returns per box received by growers,  
by varieties and utilization from crop years 1994-95, 1995-96, and 1996-97 <sup>1</sup>

Type-of fruit by seasons	Methods of sale			Type of fruit by seasons	Methods of sale		
	Fresh	Processing	All		Fresh	Processing	All
Dollars per box				Dollars per box			
<b>ORANGES:</b>				<b>GRAPEFRUIT:</b>			
Navels				Seedy			
1994-95	5.00	1.54	3.78	1994-95	2	2.03	2.03
1995-96	6.40	1.98	4.88	1995-96	2	1.83	1.83
1996-97	5.20	1.24	3.90	1996-97	2	0.33	0.33
Early and Midseason (excluding Navels)				White Seedless			
1994-95	2.70	3.25	3.24	1994-95	6.75	1.39	2.58
1995-96	3.80	3.86	3.86	1995-96	6.44	1.02	2.39
1996-97	3.70	3.58	3.58	1996-97	5.83	-0.55	0.99
Early and Midseason				Colored Seedless			
1994-95	4.00	3.21	3.25	1994-95	3.05	-0.23	1.66
1995-96	5.20	3.84	3.91	1995-96	3.18	0.07	1.95
1996-97	4.60	3.55	3.61	1996-97	3.56	-1.27	1.43
Valencias				All Grapefruit			
1994-95	4.20	4.42	4.41	1994-95	4.00	0.83	2.09
1995-96	6.60	5.78	5.81	1995-96	4.02	0.69	2.14
1996-97	4.80	4.24	4.26	1996-97	4.11	-0.83	1.23
All Oranges				<b>TANGELOS</b>			
1994-95	4.07	3.72	3.74	1994-95	4.60	1.58	2.64
1995-96	5.67	4.63	4.68	1995-96	6.00	2.60	4.01
1996-97	4.67	3.83	3.87	1996-97	4.70	1.78	2.54
<b>TANGERINES:</b>				<b>K-EARLY CITRUS FRUIT</b>			
Early <sup>3</sup>				1994-95	3.40	1.00	2.30
1994-95	10.40	0.06	7.95	1995-96	5.90	0.60	2.66
1995-96	15.30	0.69	10.89	1996-97	4.50	0.80	2.21
1996-97	10.30	0.10	6.25	<b>LEMONS</b>			
Honey				1994-95	--	--	7.60
1994-95	26.50	2.15	19.76	1995-96	--	--	8.25
1995-96	21.70	2.73	16.00	1996-97	--	--	10.10
1996-97	20.60	0.20	12.03	<b>LIMES</b>			
All Tangerines				1994-95	11.10	-3.00	8.65
1994-95	15.70	0.84	11.98	1995-96	10.60	-2.17	8.05
1995-96	17.60	1.41	12.72	1996-97	7.10	-3.19	5.01
1996-97	13.20	0.13	7.92	<b>LIMES</b>			
<b>TEMPLES</b>				Dollars per bushel			
1994-95	4.30	3.10	3.47	1994-95	6.94	-1.88	5.41
1995-96	5.70	3.81	4.42	1995-96	6.63	-1.36	5.03
1996-97	6.80	1.93	3.06	1996-97	4.44	-1.99	3.13

<sup>1</sup> 1994-95 and 1995-96 revised to reflect final payments in cooperative and participation plans. 1996-97 preliminary price based on cash sales only. <sup>2</sup> Fresh sales negligible. <sup>3</sup> Robinson, Fallglo, Sunburst, and Dancy varieties.

### BEARING TREES

Tree numbers shown below are forecast trees of bearing age for the 1996-97 season. Total bearing trees increased from the previous season for each of the fruit types listed. Unidentified

trees of bearing age are prorated to identified types by year which set. Most of these are first year bearing trees which will be identified in the field during the next tree census.

### FLORIDA ORANGES AND GRAPEFRUIT: Estimated trees of bearing age by age groups and types, for the 1996-97 season

Fruit type	Year set					Total bearing trees
	1991-93	1988-90	1983-87	1973-82	1972 and earlier	
--- 1,000 trees ---						
Early-Mid Oranges (Includes Navels)	9,866	9,151	9,950	4,354	6,970	40,292
Valencia	10,230	10,758	7,531	3,272	6,442	38,233
White Seedless Grapefruit	957	1,108	245	580	2,279	5,169
Colored Seedless Grapefruit	2,463	1,968	1,383	1,704	1,138	8,656