# Citrus Reference Book



# Florida Department of Citrus Economic and Market Research Department May 2009

## CITRUS REFERENCE BOOK

## Florida Department of Citrus

**Economic and Market Research Department** 

May 2009

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## Florida Department of Citrus

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**Bearing Acreage: Oranges** 

Season	Florida	Texas	Calif.	Arizona	U.S.ª	Florida Temples	
1,000 acres							
1983-84	474.2	24.3	177.1	12.6	688.2	13.5	
1984-85	420.1	11.4	175.3	10.9	617.7	12.2	
1985-86	367.6	8.3	174.6	11.0	561.5	10.0	
1986-87	375.4	10.3	172.9	10.9	569.5	9.4	
1987-88	380.2	11.1	172.6	10.6	574.5	9.3	
1988-89	388.7	12.0	177.6	10.4	588.7	9.3	
1989-90	399.5	13.0	175.1	10.2	597.8	8.0	
1990-91	420.9	3.5	178.4	9.9	612.7	7.7	
1991-92	444.4	3.5	181.8	10.4	640.1	7.1	
1992-93	489.2	4.4	184.0	10.6	688.2	7.3	
1993-94	510.8	5.5	185.0	10.6	711.9	6.7	
1994-95	562.8	7.0	191.0	10.4	771.2	6.8	
1995-96	594.8	7.9	196.0	9.4	808.1	6.6	
1996-97	624.9	8.7	200.0	10.0	843.6	6.7	
1997-98	609.2	9.5	200.2	9.1	828.0	6.2	
1998-99	612.6	9.1	201.5	6.9	830.1	6.0	
1999-00	602.1	9.1	195.5	6.2	812.9	5.8	
2000-01	605.0	9.1	194.5	6.4	815.0	5.5	
2001-02	586.9	9.3	195.0	6.4	797.6	4.7	
2002-03	587.6	8.8	189.5	5.8	791.7	4.2	
2003-04	564.8	8.8	184.0	5.5	763.1	3.4	
2004-05	541.8	8.8	182.0	5.0	737.6	2.9	
2005-06	491.0	8.8	181.0	4.3	685.1	2.5	
2006-07	475.9	8.8	179.0	4.3	668.0	С	
2007-08 <sup>b</sup>	463.9	8.8	180.0	4.3	657.0	С	
2008-09							

<sup>&</sup>lt;sup>a</sup>May not add up due to rounding.

<sup>&</sup>lt;sup>b</sup>Preliminary.

<sup>&</sup>lt;sup>c</sup>Temples included with Florida oranges.

**Bearing Acreage: Grapefruit** 

Season	Florida	Texas	Calif.	Arizona	U.S.
			1,000 acre	es	
1983-84	119.6	43.3	21.9	6.8	191.6
1984-85	115.5	19.1	21.1	7.1	162.8
1985-86	105.1	13.5	20.9	5.7	145.2
1986-87	106.0	15.2	20.8	5.9	147.9
1987-88	106.0	16.0	20.7	6.0	148.7
1988-89	106.9	16.9	19.9	6.5	150.2
1989-90	103.0	18.7	19.2	6.4	147.3
1990-91	104.2	4.5	18.3	6.2	133.2
1991-92	104.7	7.5	18.5	5.9	136.6
1992-93	111.9	10.1	17.8	5.9	145.7
1993-94	118.3	12.8	18.0	5.9	155.0
1994-95	127.3	15.0	18.4	5.7	166.4
1995-96	132.8	17.7	18.8	5.1	174.4
1996-97	139.2	20.4	18.0	4.4	182.0
1997-98	127.8	23.1	16.8	4.0	171.7
1998-99	116.6	20.0	16.6	3.3	156.5
1999-00	114.1	20.0	16.6	2.8	153.5
2000-01	107.8	20.0	15.4	2.0	145.2
2001-02	101.3	19.0	14.0	2.0	136.3
2002-03	95.5	18.5	13.0	1.5	128.5
2003-04	82.3	18.5	12.5	1.5	114.8
2004-05	71.0	18.5	12.0	1.5	103.0
2005-06	59.8	18.5	11.5	1.2	91.0
2006-07	57.4	18.5	11.5	1.2	88.6
2007-08 <sup>a</sup>	54.8	18.5	11.0	1.0	85.3
2008-09					

<sup>&</sup>lt;sup>a</sup>Preliminary.

Florida Commercial Citrus Acreage

Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total	
	acres				
1970	715,806	124,050	101,615	941,471	
1972	659,418	124,142	94,459	878,019	
1974	642,431	130,326	91,341	864,098	
1976	628,567	137,909	85,893	852,369	
1978	616,020	136,342	78,873	831,235	
1980	627,174	139,944	78,165	845,283	
1982	636,864	139,939	71,053	847,856	
1984	573,991	134,680	52,694	761,365	
1986	466,252	117,845	40,395	624,492	
1988	536,737	119,606	41,586	697,929	
1990	564,809	125,300	42,658	732,767	
1992	608,636	135,166	47,488	791,290	
1994	653,370	146,915	53,457	853,742	
1996	656,598	144,416	56,673	857,687	
1998	658,390	132,817	54,053	845,260	
1999	_	121,258	_	_	
2000	665,529	118,145	48,601	832,275	
2002	648,806	105,488	43,009	797,303	
2004	622,821	89,048	36,686	748,555	
2006	529,241	63,419	28,713	621,373	
2008	496,518	56,881	23,178	576,577	
2010					

<sup>&</sup>lt;sup>a</sup>Includes lemons, limes and other citrus.

Florida Commercial Citrus Bearing Acreage

Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
1970	636,128	98,702	82,308	817,138
1972	624,209	112,554	87,485	824,248
1974	614,608	115,767	86,961	817,336
1976	596,432	117,856	81,871	796,159
1978	578,968	120,310	75,191	774,469
1980	576,615	126,395	72,757	775,767
1982	560,203	127,826	66,028	754,057
1984	474,269	119,630	48,983	642,882
1986	367,581	105,134	37,996	510,711
1988	380,163	105,962	35,677	521,802
1990	399,505	102,959	33,854	536,318
1992	444,421	104,719	36,511	585,651
1994	510,819	118,298	38,404	667,521
1996	594,775	132,838	47,742	775,355
1998	609,194	127,839	50,599	787,632
1999	_	116,599	_	_
2000	602,136	114,089	46,174	762,399
2002	586,859	101,338	41,334	729,531
2004	564,844	82,318	34,833	681,995
2006	490,971	59,776	27,839	578,586
2008	463,994	54,837	22,545	541,376
2010				

<sup>&</sup>lt;sup>a</sup>Includes lemons, limes and other citrus.

**Florida Commercial Citrus Trees** 

Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
1970	57,801.5	8,925.4	9,935.7	76,662.6
1972	53,731.1	9,012.7	9,345.8	72,089.6
1974	52,521.7	9,647.2	9,140.2	71,309.1
1976	51,595.3	10,398.1	8,553.6	70,547.0
1978	50,843.2	10,412.5	7,881.1	69,136.8
1980	51,977.8	10,768.7	7,905.9	70,652.4
1982	53,504.5	10,833.1	7,232.3	71,569.9
1984	49,884.7	10,582.9	5,507.9	65,975.5
1986	43,461.4	9,624.0	4,443.4	57,528.8
1988	54,536.6	10,081.2	4,690.4	69,308.2
1990	62,613.4	11,193.2	5,074.7	78,881.3
1992	72,826.3	13,119.2	6,070.2	92,015.7
1994	81,614.4	15,004.0	7,114.0	103,732.4
1996	84,155.4	15,116.9	7,824.5	107,096.8
1998	85,430.6	14,079.1	7,600.5	107,110.2
1999	_	12,961.2	-	_
2000	87,200.1	12,668.6	6,810.0	106,678.7
2002	85,751.1	11,329.2	6,091.7	103,172.0
2004	82,978.5	9,748.3	5,218.2	97,945.0
2006	70,849.4	6,971.4	4,088.2	81,909.0
2008	65,775.3	6,241.0	3,359.8	75,376.1
2010				

<sup>&</sup>lt;sup>a</sup>Includes lemons, limes and other citrus.

Florida Commercial Citrus Bearing Trees

Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
1970	49,404.2	6,746.6	7,603.8	63,754.6
1972	49,786.5	8,032.1	8,373.4	66,192.0
1974	49,466.9	8,362.6	8,559.6	66,389.1
1976	48,373.8	8,598.9	8,075.0	65,047.7
1978	47,454.5	8,969.7	7,416.8	63,841.0
1980	47,366.3	9,586.2	7,196.5	64,149.0
1982	46,078.5	9,753.9	6,555.4	62,387.8
1984	39,777.7	9,192.8	5,044.9	54,015.4
1986	32,708.0	8,367.7	4,154.6	45,230.3
1988	35,537.3	8,654.7	3,928.7	48,120.7
1990	40,666.0	8,748.5	3,882.1	53,296.6
1992	49,577.1	9,556.9	4,427.3	63,561.3
1994	61,707.7	11,514.1	4,825.8	78,047.6
1996	75,286.6	13,632.8	6,340.1	95,259.5
1998	78,586.5	13,469.6	7,034.1	99,090.2
1999	_	12,431.4	-	-
2000	78,721.0	12,204.1	6,461.4	97,386.5
2002	77,595.9	10,869.7	5,854.3	94,319.9
2004	75,391.7	8,967.9	4,972.2	89,331.8
2006	65,954.4	6,543.2	3,973.7	76,471.3
2008	61,740.6	5,989.7	3,270.3	71,000.6
2010				

<sup>&</sup>lt;sup>a</sup>Includes lemons, limes and other citrus.

## **Production: Oranges**

Season	Florida	Texas	Calif.	Arizona	U.S.ª	Florida Temples
			- million 90-	pound boxes	<b>;</b>	
1983-84	116.7	2.4	40.4	1.5	161.0	2.9
1984-85	103.9	.0	43.7	2.0	149.6	3.3
1985-86	119.2	.3	44.9	1.7	166.1	3.0
1986-87	119.7	.8	48.3	2.3	171.0	3.4
1987-88	138.0	1.4	49.2	1.5	190.0	3.6
1988-89	146.6	1.7	49.1	1.4	198.8	3.8
1989-90	110.2	1.1	59.5	1.3	172.2	1.4
1990-91	151.6		21.3	1.5	174.4	2.5
1991-92	139.8	b	56.2	2.0	198.0	2.4
1992-93	186.6	.5	55.7	1.5	244.3	2.5
1993-94	174.4	.5	53.0	1.6	229.5	2.3
1994-95	205.5	1.0	46.7	.9	254.0	2.6
1995-96	203.3	.9	48.3	1.4	253.9	2.2
1996-97	226.2	1.3	53.3	1.2	282.0	2.4
1997-98	244.0	1.4	57.5	.8	303.8	2.3
1998-99	186.0	1.4	30.0	1.0	218.3	1.8
1999-00	233.0	1.6	53.3	.9	288.8	2.0
2000-01	223.3	2.1	45.4	.8	271.6	1.3
2001-02	230.0	1.6	42.9	.4	275.0	1.6
2002-03	203.0	1.5	51.7	.4	256.5	1.3
2003-04	242.0	1.6	42.1	.4	286.0	1.4
2004-05	149.8	1.7	53.8	.4	205.6	.7
2005-06	147.7	1.5	50.8	.4	200.4	.7
2006-07	129.0	1.9	38.3	.3	169.5	d
2007-08 <sup>c</sup>	170.2	1.6	53.8	.3	225.9	d
2008-09						d

<sup>&</sup>lt;sup>a</sup>May not add up due to rounding. <sup>b</sup>Less than 50,000 boxes.

<sup>&</sup>lt;sup>c</sup>Preliminary.

<sup>&</sup>lt;sup>d</sup>Temples included in Oranges beginning 2006-07.

## **Production: Grapefruit**

Season	Florida	Texas	Calif.	Arizona	U.S.
		millio	on 85-pound	boxes	
			-		
1983-84	40.9	3.0	5.5	1.7	51.2
1984-85	44.0	.0	6.7	2.3	53.0
1985-86	46.8	.2	6.2	2.1	55.3
1986-87	49.8	1.8	7.1	2.1	60.8
1987-88	53.9	3.6	7.0	1.5	65.9
1988-89	54.8	4.5	6.1	1.5	66.9
1989-90	35.7	1.9	7.2	1.7	46.4
1990-91	45.1		6.1	1.8	53.0
1991-92	42.4	.1	7.6	2.1	52.2
1992-93	55.2	1.8	7.0	1.6	65.6
1993-94	51.1	2.8	7.3	1.4	62.6
1994-95	55.7	4.4	7.3	1.1	68.5
1995-96	52.4 <sup>a</sup>	4.3	6.4	.9	64.0
1996-97	55.8 <sup>b</sup>	5.0	6.5	.6	67.9
1997-98	49.6 <sup>b</sup>	4.5	6.3	.6	61.0
1998-99	47.1	5.7	5.8	.6	59.1
1999-00	53.4	5.6	5.7	.4	65.0
2000-01	46.0°	6.8	5.0	.2	57.9
2001-02	46.7	5.6	4.7	.1	57.0
2002-03	38.7	5.3	4.4	.1	48.5
2003-04	40.9	5.4	4.6	.1	50.9
2004-05	12.8	6.2	4.8	.1	23.9
2005-06	19.3	4.9	4.7	.1	29.0
2006-07	27.2	6.7	4.3	.1	38.3
2007-08 <sup>d</sup>	26.6	5.7	4.5	.1	36.9
2008-09					

<sup>&</sup>lt;sup>a</sup>Excludes 3 million boxes of economic abandonment. <sup>b</sup>Excludes 6 million boxes of economic abandonment. <sup>c</sup>Excludes 2 million boxes of economic abandonment. <sup>d</sup>Preliminary. SOURCE: FASS.

## **Production: Specialty Fruit**

Season	Tar	ngerin	es	F	lorida		Lemo	ons
Season	Florida	Calif.	Arizona	Tangelos	K-Early	Limes	Calif.	Arizona
				1,000 be	oxes			
1983-84	2,975	1,850	1,150	3,600	520	1,440	17,250	4,000
1984-85	1,840	1,680	1,100	3,600	125	1,640	19,800	5,650
1985-86	1,950	1,800	950	2,950	160	1,725	15,100	3,100
1986-87	2,340	2,230	900	4,000	220	1,450	21,500	7,100
1987-88	2,450	2,090	600	4,200	240	1,300	17,000	3,650
1988-89	2,900	2,040	650	3,800	320	1,250	16,200	3,800
1989-90	1,700	1,650	600	2,950	210	1,650	15,800	2,800
1990-91	1,950	1,350	600	2,650	160	1,450	14,800	4,100
1991-92	2,600	2,440	1,200	2,600	165	1,600	15,100	5,100
1992-93	2,800	2,100	950	3,050	185	1,000	20,400	4,400
1993-94	4,100	2,300	1,000	3,350	210	200	20,700	5,200
1994-95	3,550	2,500	650	3,150	120	230	20,000	3,600
1995-96	4,500	2,600	1,000	2,450	160	300	21,000	5,100
1996-97	6,300	2,600	750	3,950	150	320	22,600	2,700
1997-98	5,200	2,400	600	2,850	40	440	21,000	2,600
1998-99	4,950	1,500	950	2,550	80	500	16,200	3,450
1999-00	7,000	2,500	850	2,200	110	600	19,000	3,100
2000-01	5,600	2,200	650	2,100	40	250	22,600	3,600
2001-02	6,600	2,200	620	2,150	30	150	18,300	2,800
2002-03	5,500	2,800	430	2,350	а	а	24,000	3,000
2003-04	6,500	2,200	690	1,000	а	а	18,000	3,000
2004-05	4,450	2,900	400	1,550	а	а	20,500	2,400
2005-06	5,500	3,600	550	1,400	а	а	22,000	3,800
2006-07	4,600	3,500	300	1,250	а	а	18,500	2,500
2007-08 <sup>b</sup>	5,500	5,700	400	1,500	а	а	17,000	1,500
2008-09								
<sup>a</sup> No longer	reported	. <sup>□</sup> Pr	eliminar	y.	SOUR	CE: FASS	S, Citrus S	ummary.

## **USDA Orange Crop Estimates Versus Actual Production**

<u> </u>	אטט	Orani	ge Ci	<u>op 1</u>	_31111	iates	VC	<u> 13u3</u>	ACI	uai i	riou	ucti	711
Season		Florida		(	Californi	а		Texas			Arizona	1	Total
Season	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.
						millio	n box	es <sup>b</sup>					
1993-94	172.0	174.4	+2.4	65.0	63.6	-1.4	.5	.6	+.1	2.0	1.9	1	239.5
1994-95	196.0	205.5	+9.5	65.0	56.0	-9.0	1.0	1.1	+.1	1.7	1.1	6	263.7
1995-96	202.0	203.3	+1.3	66.0	58.0	-8.0	1.2	.9	3	1.1	1.7	+.6	270.3
1996-97	220.0	226.2	+6.2	63.0	64.0	+1.0	1.5	1.4	1	1.5	1.4	1	286.0
1997-98	254.0	244.0	-10.0	74.0	69.0	-5.0	1.6	1.5	1	1.0	1.0	_	330.6
1998-99	190.0	186.0	-4.0	62.0	36.0	-26.0	1.4	1.4	-	1.0	1.2	+.2	254.4
1999-00	211.0	233.0	+22.0	67.0	64.0	-3.0	1.6	1.7	+.1	.9	1.1	+.2	280.5
2000-01	240.0	223.3	-16.7	59.0	54.5	-4.5	2.0	2.2	+.2	1.1	.9	2	302.1
2001-02	231.0	230.0	-1.0	54.0	51.5	-2.5	2.2	1.7	5	.8	.5	3	288.0
2002-03	197.0	203.0	+6.0	63.0	62.0	-1.0	1.6	1.6	-	.5	.5	_	262.0
2003-04	252.0	242.0	-10.0	59.0	50.5	-8.5	1.6	1.7	+.1	.5	.5	_	313.0
2004-05	176.0	149.8	-26.2	62.0	64.5	+2.5	1.9	1.8	1	.4	.4	_	240.3
2005-06	190.0	147.7	-42.3	55.0	61.0	+6.0	1.5	1.6	+.1	.5	.5	_	247.0
2006-07	135.0°	129.0	-6.0	46.0	46.0	-	1.8	2.0	+.2	.4	.3	1	183.′
2007-08	168.0°	170.2	+2.2	58.0	64.5	+6.5	1.8	1.7	1	.3	.4	+.1	228.
2008-09	166.0°			44.0			1.5			.3			211.8

<sup>&</sup>lt;sup>a</sup>May not add up due to rounding.

USDA Florida Temple Crop Estimates Versus Actual Production

V	<u>'ersus Actua</u>	<u> Il Productio</u>	<u>n</u>
Season	October	Actual	+/-
	millio	on 90-pound boxes	;
1984-85	3.7	3.3	4
1985-86	3.5	3.0	5
1986-87	3.6	3.4	2
1987-88	3.4	3.6	+.2
1988-89	3.8	3.8	_
1989-90	3.0	1.4	-1.6
1990-91	3.1	2.5	6
1991-92	2.6	2.4	2
1992-93	2.7	2.5	2
1993-94	2.3	2.3	_
1994-95	2.6	2.6	_
1995-96	2.2	2.2	_
1996-97	2.5	2.4	1
1997-98	2.3	2.3	_
1998-99	2.0	1.8	2
1999-00	2.1	2.0	1
2000-01	1.8	1.3	5
2001-02	1.4	1.6	+.2
2002-03	1.4	1.3	1
2003-04	1.4	1.4	_
2004-05	.8	.7	1
2005-06	.9	.7	2

NOTE: 2006-07 forward Temples included in round oranges.

## **USDA Grapefruit Crop Estimates Versus Actual Production**

Sacan		Florida		(	California	a <sup>a</sup>		Texas			Arizona	1	Totala
Season	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.
						- millio	n boxe	s <sup>b</sup>					
1993-94	49.0	51.1	+2.1	8.8	9.3	+.5	2.7	3.0	+.3	2.2	1.8	4	62.7
1994-95	55.5	55.7	+.2	9.4	9.3	1	3.6	4.7	+1.1	1.7	1.4	3	70.2
1995-96	54.0	<b>52.4</b> °	-1.6	8.5	8.1	4	5.0	4.6	4	1.2	1.2	-	68.7
1996-97	59.0	<b>55.8</b> <sup>d</sup>	-3.2	8.0	8.2	+.2	5.7	5.3	4	1.1	.8	3	73.8
1997-98	54.0	49.6 <sup>d</sup>	-4.4	9.0	8.0	-1.0	5.0	4.8	2	.8	.8	-	68.8
1998-99	50.0	47.1	-2.9	8.4	7.3	-1.1	5.0	6.1	+1.1	.7	.8	+.1	64.1
1999-00	50.0	53.4	+3.4	8.0	7.2	8	5.5	5.9	+.4	.7	.5	2	64.2
2000-01	50.0	46.0°	-4.0	7.2	6.3	9	6.5	7.2	+.7	.6	.3	3	64.3
2001-02	48.0	46.7	-1.3	6.0	5.9	1	7.8	5.9	-1.9	.2	.2	-	62.0
2002-03	42.0	38.7	-3.3	6.2	5.6	6	5.6	5.7	+.1	.1	.1	-	53.9
2003-04	42.0	40.9	-1.1	5.5	5.8	+.3	5.3	5.7	+.4	.1	.1	-	52.9
2004-05	15.0	12.8	-2.2	5.2	6.1	+.9	5.9	6.6	+.7	.2	.1	1	26.3
2005-06	24.0	19.3	-4.7	5.8	6.0	+.2	5.4	5.2	2	.1	.1	-	35.3
2006-07	26.0	27.2	+1.2	5.7	5.5	2	6.7	7.1	+.4	.1	.1	-	38.5
2007-08	25.0	26.6	+1.6	4.5	5.7	+1.2	6.8	6.1	7	.2	.1	1	36.5
2008-09	23.0			5.5			5.3			.2			34.0

<sup>&</sup>lt;sup>a</sup>Includes April forecast for California.

<sup>&</sup>lt;sup>b</sup>Box sizes: FL, 85#; CA & AZ, 67#; TX 80#.

<sup>&</sup>lt;sup>c</sup>Excludes 3 million boxes of economic abandonment.

<sup>&</sup>lt;sup>d</sup>Excludes 6 million boxes of economic abandonment.

<sup>&</sup>lt;sup>e</sup>Excludes 2 million boxes of economic abandonment.

## **USDA Crop Estimates (Current)**

Time		Oran	ges		Grapefruit				
Period <sup>a</sup>	FL⁵	TX	CA	AZ	FL	тх	CA	AZ	
			n	nillion k	ooxes <sup>c</sup> - ·				
<u>2008-09</u>									
ОСТ	166.0	1.5	44.0	.3	23.0	5.3	5.5	.2	
DEC	165.0	1.5	44.0	.3	23.0	5.3	5.5	.2	
JAN	162.0	1.7	46.5	.3	23.0	5.7	4.5	.2	
FEB	158.0	1.7	46.5	.3	23.0	5.7	4.5	.2	
MAR	158.0	1.7	49.5	.3	23.0	5.7	4.5	.2	
APR	157.6	1.7	53.0	.3	23.0	6.2	4.4	.2	
MAY									
JUN									
JUL									

<sup>&</sup>lt;sup>a</sup>No November crop estimate is made.

blncludes Temples.

<sup>°</sup>FL oranges and Temples 90# box, grapefruit 85# box. CA and AZ oranges 75# box, grapefruit 67# box. TX oranges 85# box, grapefruit 80# box.

**USDA Florida FCOJ Gallons-per-Box Yield Estimates** 

Season	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
					42° Bri	x gallon	s			
1993-94	1.55	1.55	1.55	1.56	1.57	1.57	1.57	1.57	1.57	1.57
1994-95	1.54	1.54	1.52	1.51	1.51	1.51	1.50	1.50	1.50	1.50
1995-96	1.54	1.54	1.50	1.47	1.47	1.48	1.48	1.52	1.52	1.52
1996-97	1.53	1.53	1.53	1.53	1.54	1.54	1.57	1.58	1.58	1.58
1997-98	1.55	1.55	1.55	1.55	1.56	1.56	1.56	1.58	1.58	1.58
1998-99	1.57	1.57	1.57	1.57	1.60	1.62	1.63	1.64	1.63	1.63
1999-00	1.60	1.60	1.60	1.57	1.54	1.54	1.54	1.54	1.55	1.55
2000-01	1.55	1.55	1.55	1.55	1.54	1.58	1.58	1.58	1.58	1.58
2001-02	1.55	1.55	1.55	1.58	1.58	1.58	1.58	1.58	1.58	1.58
2002-03	1.57	1.57	1.57	1.57	1.57	1.55	1.55	1.53	1.52	1.54
2003-04	1.55	1.55	1.55	1.53	1.53	1.53	1.54	1.55	1.56	1.56
2004-05	1.56	1.56	1.56	1.56	1.58	1.58	1.58	1.60	1.60	1.58
2005-06	1.58	1.58	1.55	1.55	1.58	1.58	1.61	1.62	1.63	1.63
2006-07	1.58	1.58	1.58	1.58	1.61	1.62	1.65	1.65	1.65	1.65
2007-08	1.60	1.60	1.60	1.60	1.62	1.63	1.63	1.65	1.67	1.67
2008-09	1.59	1.59	1.58	1.62	1.61	1.64	1.64			

## **USDA Specialty Crop Estimates Versus Actual Production**

					<b>T</b>				Calif	- we ! - /		
		rida			ı ang	erines				ornia/ :ona		rida
Season	Tanç	gelos	Flo	rida	Calif	ornia	Ariz	zona		ions	Limes	
	Oct.	Actual	Oct.	Actual	Oct.	Actual	Oct.	Actual	Oct.	Actual	Oct.	Actual
	mil. 90-l	b. boxes	mil. 95-l	b. boxes		- mil. 75-lb	. boxes -		mil. 76-l	b. boxes	mil. 88-l	b. boxes
1993-94	3.1	3.4	3.8	4.1	2.5	2.3	1.1	1.0	24.3	25.9	.2	.2
1994-95	3.2	3.2	4.0	3.6	2.2	2.5	.8	.7	25.2	23.6	.3	.2
1995-96	2.5	2.5	4.1	4.5	2.3	2.6	1.0	1.0	27.5	26.1	.3	.3
1996-97	3.8	4.0	6.0	6.3	2.6	2.6	.9	.8	26.7	25.3	.4	.3
1997-98	3.3	2.9	5.5	5.2	2.4	2.4	.5	.6	24.6	23.6	.4	.4
1998-99	2.5	2.6	4.2	5.0	2.5	1.5	.7	1.0	23.7	19.7	.6	.5
1999-00	2.6	2.2	6.4	7.0	2.3	2.5	.7	.9	24.4	22.1	.6	.6
2000-01	2.1	2.1	6.3	5.6	2.0	2.2	.9	.7	24.6	26.2	.3	.3
2001-02	2.3	2.2	7.0	6.6	2.5	2.2	.6	.6	26.1	21.1	.2	.2
2002-03	2.4	2.4	5.2	5.5	2.3	2.8	.5	.4	23.8	27.0	а	а
2003-04	1.3	1.0	6.6	6.5	2.5	2.2	.6	.7	26.0	21.0	а	а
2004-05	1.4	1.6	4.7	4.5	2.9	2.9	.5	.4	21.9	22.9	а	а
2005-06	1.4	1.4	6.0	5.5	3.2	3.6	.5	.6	22.8	25.8	а	а
2006-07	1.1	1.3	4.6	4.6	3.8	3.5	.4	.3	22.5	21.0	а	а
2007-08	1.3	1.5	5.1	5.5	4.7	5.7	.4	.4	18.0	18.5	а	а
2008-09	1.5		4.9		6.3		.3		21.5		а	а

<sup>&</sup>lt;sup>a</sup>No longer forecast or reported.

**SOURCE: FASS, Citrus Summary.** 

**Utilization of Florida Oranges** 

Season	Fresh	Frozen Concen- trate	Chilled Juice	Non- Certified	Other	Total <sup>a</sup>
		m	illion 90-po	ound boxes		
1993-94	8.6	111.7	51.0	1.3	1.8	174.4
1994-95	8.9	140.8	53.4	1.5	.9	205.5
1995-96	8.5	129.3	62.1	1.5	1.9	203.3
1996-97	9.3	147.9	65.7	1.4	1.9	226.2
1997-98	8.7	156.4	74.8	2.5	1.6	244.0
1998-99	8.6	93.7	80.1	2.2	1.4	186.0
1999-00	6.9	129.5	90.1	2.5	4.0	233.0
2000-01	6.7	120.5	89.6	3.0	3.5	223.3
2001-02	6.9	132.2	85.9	2.5	2.5	230.0
2002-03	6.3	98.7	92.5	3.4	2.1	203.0
2003-04	6.2	137.0	93.4	3.7	1.7	242.0
2004-05	4.9	52.2	88.5	2.5	1.7	149.8
2005-06	4.5	49.1	90.2	2.8	1.1	147.7
2006-07	4.8	45.9	75.2	1.6	1.4	129.0
2007-08	4.4	78.0	84.7	1.4	1.7	170.2

<sup>&</sup>lt;sup>a</sup> May not add up due to rounding.

**Utilization of Florida Grapefruit** 

Season	Fresh	Frozen Concen- trate	Chilled Juice	Non- Certified	Other	Total					
	million 85-pound boxes										
1993-94	21.5	22.3	5.7	1.0	.6	51.1					
1994-95	21.2	27.3	5.6	1.1	.5	55.7					
1995-96	21.8	23.0	6.1	1.0	.5	<b>52.4</b> <sup>a</sup>					
1996-97	22.1	25.0	7.1	1.1	.5	55.8 <sup>b</sup>					
1997-98	20.0	20.6	7.2	1.2	.6	49.6 <sup>b</sup>					
1998-99	18.7	19.0	7.5	1.2	.7	47.1					
1999-00	17.0	24.1	10.4	1.3	.6	53.4					
2000-01	15.9	21.2	6.4	1.6	.9	46.0°					
2001-02	15.9	21.7	6.4	1.5	1.2	46.7					
2002-03	14.1	16.0	6.2	1.5	.9	38.7					
2003-04	15.2	17.2	6.6	1.5	.4	40.9					
2004-05	6.7	2.5	2.8	.7	.2	12.8					
2005-06	6.2	8.0	4.1	.7	.3	19.3					
2006-07	10.3	11.6	4.4	.7	.3	27.2					
2007-08	9.9	10.4	5.2	.3	.7	26.6					

<sup>&</sup>lt;sup>a</sup> Excludes 3 million boxes of economic abandonment.

<sup>&</sup>lt;sup>b</sup> Excludes 6 million boxes of economic abandonment.

<sup>&</sup>lt;sup>c</sup> Excludes 2 million boxes of economic abandonment.

## **Total Shipments of Florida Fresh Citrus**<sup>a</sup>

Aug-July Season	Grapefruit	Oranges	Temples	Tangelos	Honey Tangerines	Tangerines	Total
			thousa	nd 4/5-bushe	l cartons		
1993-94	43,027	17,480	1,391	1,838	2,385	3,352	69,473
1994-95	42,405	18,002	1,378	1,804	1,595	3,387	68,570
1995-96	43,535	16,985	1,204	1,614	2,114	3,875	69,326
1996-97	44,224	18,690	879	1,584	1,958	5,163	72,498
1997-98	39,922	17,411	851	1,339	2,610	3,837	65,968
1998-99	37,399	17,303	956	1,199	2,651	4,102	63,610
1999-00	33,925	13,906	694	1,076	3,427	4,972	58,002
2000-01	31,850	13,397	585	1,096	2,368	4,517	53,813
2001-02	31,783	13,860	592	967	2,627	5,162	54,992
2002-03	28,270	12,552	471	837	3,380	3,883	49,392
2003-04	30,350	12,310	552	646	3,968	4,284	52,111
2004-05	13,409	9,810	313	628	2,771	3,336	30,267
2005-06	12,473	9,065	284	658	3,252	3,435	29,167
2006-07	20,623	9,939	b	691	2,639	2,928	36,821
2007-08	19,829	8,847	b	717	2,874	3,210	35,477

<sup>&</sup>lt;sup>a</sup>Columns may not add up due to rounding.

<sup>&</sup>lt;sup>b</sup>Temples included with oranges.

## Florida Fresh Grapefruit Shipments

Aug-July Season	Domestic	Canada	Europe	Japan	Other Pacific Rim	Other	Total
			thousar	nd 42.5-poun	d cartons		
1993-94	19,472	3,206	7,499	11,541	1,287	22	43,027
1994-95	19,561	3,133	8,118	10,428	1,138	27	42,405
1995-96	18,230	2,960	9,512	11,324	1,482	27	43,535
1996-97	18,638	3,042	9,536	11,045	1,922	41	44,224
1997-98	18,062	2,833	8,846	9,309	843	29	39,922
1998-99	15,273	2,617	8,298	9,967	1,224	20	37,399
1999-00	13,197	2,254	6,700	10,912	846	16	33,925
2000-01	11,602	2,236	6,637	10,719	635	21	31,850
2001-02	11,103	2,183	6,549	11,227	696	25	31,783
2002-03	9,936	1,619	6,227	10,150	325	13	28,270
2003-04	8,995	1,780	6,912	12,123	529	11	30,350
2004-05	4,888	768	2,786	4,833	119	15	13,409
2005-06	4,787	773	2,115	4,559	232	7	12,473
2006-07	6,751	1,282	4,395	7,860	332	3	20,623
2007-08	6,183	1,163	5,015	7,018	443	7	19,829

## Florida Fresh Orange and Temple Shipments

Aug-July Season	Domestic	Canada	Europe	Japan	Other Pacific Rim	Other	Total
			thousa	and 45-pound	cartons		
1993-94	17,245	1,280	12	55	257	22	18,871
1994-95	17,250	1,376	130		602	21	19,379
1995-96	16,340	1,201	100	27	479	42	18,189
1996-97	17,788	1,334	57	22	345	23	19,569
1997-98	16,778	1,149	27	22	271	15	18,262
1998-99	16,162	1,051	9	149	863	25	18,259
1999-00	13,341	873	7	20	355	5	14,601
2000-01	12,465	870	24	11	594	18	13,982
2001-02	13,264	1,033	43	4	95	13	14,452
2002-03	11,977	797	24	3	215	7	13,023
2003-04	11,417	867	178	2	330	68	12,862
2004-05	9,119	580	194	1	204	25	10,123
2005-06	8,661	540	6	0	119	23	9,349
2006-07	9,259	564	0	0	113	3	9,939
2007-08	8,068	498	97	2	180	2	8,847

**World Orange Production** 

			Average			
Country	1961- 1969	1970- 1979	1980- 1989	1990- 1999	2000- 2006	2007
			1,000 me	tric tons		
United States	5,235	8,491	7,808	9,513	10,402	7,357
% of U.S. to World	26.8%	27.4%	18.5%	16.6%	16.7%	11.5%
Florida <sup>a</sup>	4,097	6,841	5,821	7,551	7,994	6,948
% of Florida to World	20.9%	22.1%	13.8%	13.1%	12.8%	10.9%
Brazil	2,281	5,785	13,335	20,009	18,280	18,279
Mexico	1,262	1,672	1,954	3,159	3,994	4,160
India	864	1,214	1,386	2,001	2,865	3,900
China	67	162	631	1,707	2,027	2,865
Spain	1,748	1,878	1,976	2,622	2,719	2,691
Indonesia	96	166	454	508	1,514	2,600
Iran	92	266	730	1,604	2,025	2,300
Italy	1,079	1,552	1,860	1,785	1,967	2,293
Egypt	398	775	1,183	1,558	1,760	1,800
Pakistan	307	437	946	1,294	1,405	1,721
Turkey	306	541	694	869	1,300	1,472
South Africa	450	543	581	867	1,280	1,400
Greece	362	493	729	930	993	1,000
Argentina	582	781	645	749	797	766
Morocco	548	679	763	907	781	740
Viet Nam	54	85	102	294	504	601
Australia	210	326	431	504	511	585
Cuba	100	137	400	417	419	420
All Others	3,525	5,014	5,608	6,154	6,853	6,954
WORLD TOTAL	19,568	30,996	42,215	57,450	62,396	63,906

<sup>&</sup>lt;sup>a</sup>Temples included.

**SOURCE: FAO-FAOSTAT-Agricultural Data.** 

**World Grapefruit Production** 

			Average			
Country	1961- 1969	1970- 1979	1980- 1989	1990- 1999	2000- 2006	2007
			1,000 me	tric tons		
United States	1,631	2,433	2,370	2,316	1,831	1,580
% of U.S. to World	68.7%	64.1%	55.6%	48.3%	38.0%	31.2%
Florida	1,310	1,802	1,861	1,889	1,374	1,026
% of Florida to World	55.2%	47.5%	43.6%	39.4%	28.5%	20.3%
China	18	21	53	217	394	547
South Africa	60	101	90	137	328	430
Mexico	13	55	105	157	337	390
Syrian Arab Rep.	_	-	-	-	41	290
Israel	165	410	422	384	264	245
Turkey	4	13	25	65	141	182
India	22	26	40	94	141	178
Argentina	70	159	161	200	204	176
Cuba	12	31	210	295	234	175
Brazil	25	33	46	60	68	72
Tunisia	2	10	30	49	68	72
Sudan	40	49	56	62	68	68
Belize	8	12	22	40	51	57
Iran	2	7	21	52	44	54
Jamaica	45	32	26	42	43	44
Philippines	24	25	36	34	43	41
Paraguay	16	38	75	66	43	39
Swaziland	15	34	39	41	39	37
All Others	203	307	439	484	433	385
WORLD TOTAL	2,374	3,796	4,264	4,796	4,814	5,061

SOURCE: FAO-FAOSTAT-Agricultural Data.

**World Tangerine Production** 

			Average			
Country	1961- 1969	1970- 1979	1980- 1989	1990- 1999	2000- 2006	2007
			1,000 me	tric tons		
United States	302	572	539	474	429	328
% of U.S. to World	7.7%	7.6%	5.3%	3.0%	1.9%	1.2%
Florida	173	202	141	162	246	237
% of Florida to World	4.4%	2.7%	1.4%	1.0%	1.1%	.9%
China	251	453	1,575	5,481	10,044	14,152
Spain	181	623	1,083	1,684	2,106	2,081
Brazil	282	420	620	731	1,180	1,271
Japan	1,450	3,232	2,463	1,438	1,105	853
Turkey	45	110	246	421	637	739
Italy	183	316	409	462	593	703
Iran	21	62	176	611	712	702
Thailand	261	318	464	634	663	670
Egypt	66	88	115	355	608	660
Pakistan	108	156	350	481	522	640
Korea	2	55	355	585	618	615
Argentina	165	238	423	556	570	520
Morocco	75	174	293	335	429	480
Mexico	86	101	129	223	371	355
Peru	8	18	27	78	153	172
Israel	42	71	120	125	107	160
Algeria	109	147	93	93	129	138
South Africa	13	19	28	64	123	135
All Others	249	384	616	932	1,160	1,141
WORLD TOTAL	3,899	7,554	10,122	15,761	22,257	26,514

SOURCE: FAO-FAOSTAT-Agricultural Data.

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Brazil: Bearing Trees, Production and Utilization of Oranges in the State of São Paulo

Production	Bearing	Oranges	Oranges	<b>Utilized for</b>	Frozen Concentrate Production		
Season <sup>a</sup>	ason <sup>a</sup> Trees Produced Frozen C			oncentrate	65° Brix	SSE	
	- million -	million l	ooxes	- % of total -	- thousand MT -	- million gallons -	
1975-76	56	85	53	62	189	263	
1980-81	66	170	138	81	492	685	
1985-86	87	239	220	92	860	1,198	
1990-91	109	242	202	83	838	1,167	
1995-96	163	357	263	74	1,062	1,479	
2000-01	162	355	270	76	1,140	1,588	
2001-02	161	280	220	79	953	1,327	
2002-03	160	365	305	84	1,309	1,823	
2003-04	159	290	230	79	1,040	1,448	
2004-05	160	380	318	84	1,335	1,859	
2005-06	162	320	261	82	1,150	1,601	
2006-07	164	350	286	82	1,260	1,755	
2007-08	165	360	280	78	1,240	1,727	
2008-09 <sup>b</sup>	166	305	225	74	940	1,309	
2009-10°	165	315	230	73	1,000	1,393	

<sup>a</sup>July-June.

<sup>b</sup>Estimate.

<sup>c</sup>Projected.

## **Brazil FCOJ Exports and Prices**

Year	Exports	U.S. \$ per MT <sup>a</sup>	Season	Exports	U.S. \$ per MT <sup>a</sup>
	MT 65° Brix	dollars	July- June	MT 65° Brix	dollars
1974	108,460	546	1996-97	1,153,799	1,024
1975	180,897	454	1997-98	1,280,921	877
1976	209,841	481	1998-99	1,140,606	1,112
1977	213,524	829	1999-00	1,295,725	969
1978	335,629	991	2000-01	1,235,679	691
1979	308,328	965	2001-02	1,033,628	767
1980	401,144	845	2002-03	998,851	875
1981	639,143	1,032	2003-04	1,071,045	831
1982	502,034	1,101	2004-05	1,076,942	755
1983	552,373	1,104	2005-06	1,001,714	839
1984	905,231	1,563	2006-07	1,018,699	1,408
1985	484,782	1,544	2007-08	893,353	1,523
1986	808,262	844			
1987	754,968	1,100			
1988	663,600	1,716			
1989	710,114	1,381			
1990	899,801	1,527			
1991	913,747	985			
1992	968,627	1,087			
1993	1,165,241	709			
1994	1,146,758	859			
1995	960,905	1,150			
1996	1,202,427	1,156			
1997	1,179,572	850			

<sup>&</sup>lt;sup>a</sup>FOB value of product, Brazil.

## **Estimated U.S. Orange-Juice Availability**

					1						
		Flor	rida				U.S. In	nports		Tota	al
Oct-Sept Season	FCOJ 11.8° Brix	CSSOJ	COJ	Total	Texasª		Florida	Total	U.S. Exports	Domestic Availability	
					- million :	SSE gallon	ıs				1,000 MT 65° Brix
1993-94	736.0	1.4	320.9	1,058.2	.3	68.8	215.0	424.9	110.3	1,441.9	1,035
1994-95	874.4	1.7	330.3	1,206.5	2.0	44.7	98.8	240.4	141.5	1,352.1	971
1995-96	817.3	1.4	394.6	1,213.3	.9	52.2	130.6	221.0	128.1	1,359.3	976
1996-97	976.6	1.1	410.6	1,388.3	2.7	48.4	177.5	294.9	149.0	1,585.3	1,138
1997-98	1,024.8	NA	462.0	1,486.8	2.3	56.7	127.7	280.8	146.3	1,680.2	1,207
1998-99	641.7	NA	512.9	1,154.6	1.8	69.6	188.5	350.2	146.6	1,429.7	1,027
1999-00	838.9	NA	583.5	1,422.4	2.2	86.6	139.4	339.4	145.2	1,705.4	1,225
2000-01	791.8	NA	565.2	1,357.1	5.6	36.0	125.2	257.7	122.9	1,533.5	1,101
2001-02	868.6	NA	546.5	1,415.0	2.0	30.4	96.6	188.8	181.2	1,455.1	1,045
2002-03	633.5	NA	574.6	1,208.1	2.6	50.6	155.2	290.9	104.8	1,447.4	1,039
2003-04	881.7	NA	566.3	1,448.0	2.8	24.7	84.8	222.3	123.0	1,574.9	1,131
2004-05	347.3	NA	564.0	911.3	3.2	63.4	129.9	357.5	119.1	1,216.3	873
2005-06	341.7	NA	582.1	923.8	1.9	69.8	97.8	298.8	137.7	1,156.7	831
2006-07	319.3	NA	497.1	816.4	3.0	77.5	169.0	399.2	122.6	1,173.4	843
2007-08	546.0	NA	563.0	1,109.1	2.2	62.2	180.3	405.5	138.7	1,440.2	1,034

<sup>&</sup>lt;sup>a</sup>Based on assumed yields.

SOURCES: Processor Reports, FASS Citrus Summary, FAS, NASS, U.S. Department of Commerce, FDOC-EMRD.

# Estimated U.S. Orange-Juice Supply and Demand

Oct-Sep Season	Total Domestic	Net Carry-	Total Presumed Consump-	Sa	Sales		Per Capita Consump-
	Availability	over <sup>a</sup>	tion	Retail <sup>b</sup>	Other <sup>c</sup>	tion	tion
		millions	SSE gal.				
1993-94	1,442	+61	1,381	NA	NA	262	5.3
1994-95	1,352	-30	1,382	NA	NA	266	5.2
1995-96	1,359	-15	1,374	807	567	269	5.1
1996-97	1,585	+151	1,434	832	602	272	5.3
1997-98	1,680	+84	1,596	865	732	275	5.8
1998-99	1,430	-117	1,547	853	694	278	5.6
1999-00	1,705	+107	1,599	873	726	281	5.7
2000-01	1,534	+52	1,482	889	593	284	5.2
2001-02	1,455	-5	1,460	861	598	287	5.1
2002-03	1,447	+15	1,433	836	596	290	4.9
2003-04	1,575	+110	1,465	807	658	292	5.0
2004-05	1,216	-178	1,394	796	599	295	4.7
2005-06	1,157	-183	1,340	745	595	298	4.5
2006-07	1,173	-86	1,259	650	609	301	4.2
2007-08	1,440	+272	1,169	623	545	303	3.9

<sup>&</sup>lt;sup>a</sup>2004-05 forward based on FCOJ inventories for the United States (NASS, Cold Storage Reports) plus Florida COJ inventories (Processor Reports); in 2003-04 and prior years, based on Florida FCOJ and COJ inventories.

SOURCES: Processor Reports, FASS Citrus Summary, U.S. Census Bureau, Nielsen.

<sup>&</sup>lt;sup>b</sup>All outlets.

<sup>&</sup>lt;sup>c</sup>Includes unidentified inventory.

**Estimated U.S. Grapefruit-Juice Availability** 

Oct-Sept		Florida				Calif./a	U.S.	Total	U.S.	Total		
Season	FCGJ	CSSGJ	CGJ	Total	Texasª	Arizona	Imports	Supply	Exports	Domestic Availability		
	million SSE gallons											
1993-94	105.9	1.4	30.5	137.8	4.1	10.8	1.0	153.7	22.5	131.2		
1994-95	125.4	1.5	30.7	157.5	7.0	9.8	.8	175.1	28.4	146.7		
1995-96	107.7	.7	33.1	141.5	7.3	7.2	.6	156.6	27.6	129.0		
1996-97	121.3	.8	37.2	159.3	7.6	7.1	.2	174.4	23.4	151.0		
1997-98	96.9	NA	39.2	136.1	6.3	7.8	.2	150.4	18.6	131.8		
1998-99	98.0	NA	42.3	140.4	9.7	2.5	.3	152.8	24.3	128.5		
1999-00	114.6	NA	55.3	169.9	9.9	3.6	5.0	188.4	32.9	155.5		
2000-01	108.8	NA	37.8	146.6	15.1	2.7	.9	165.3	39.0	126.3		
2001-02	109.2	NA	39.9	149.1	9.6	2.3	.3	161.3	36.3	125.1		
2002-03	77.5	NA	37.3	114.8	11.2	2.0	.4	128.4	39.5	89.0		
2003-04	83.6	NA	36.7	120.3	11.0	2.0	.5	133.8	55.5	78.3		
2004-05	12.2	NA	16.9	29.1	16.7	2.0	11.4	59.2	23.9	35.3		
2005-06	38.9	NA	23.4	62.2	9.6	2.0	5.6	79.4	18.7	60.8		
2006-07	63.1	NA	28.0	91.1	17.5	2.0	.9	111.5	37.2	74.3		
2007-08	54.7	NA	33.0	87.7	12.8	2.0	.3	102.8	36.4	66.4		

<sup>&</sup>lt;sup>a</sup>Based on assumed yields.

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SOURCES: Processor Reports, FASS Citrus Summary, NASS, U.S. Department of Commerce.

Estimated U.S. Grapefruit-Juice Supply and Demand

Oct-Sep Season	Total Domestic Availability	Net Florida Carry- over	Total Presumed Consump- tion			Popula- tion	Per Capita Consump- tion
		million	SSE gallons	;		millions	SSE gal.
1993-94	131	+5	126	NA	NA	262	.48
1994-95	147	+16	131	NA	NA	266	.49
1995-96	129	-2	131	48	83	269	.49
1996-97	151	+20	131	50	81	272	.48
1997-98	132	-17	149	57	91	275	.54
1998-99	129	-32	160	60	101	278	.58
1999-00	156	+24	132	52	80	281	.47
2000-01	126	+1	126	46	79	284	.44
2001-02	125	+12	114	40	74	287	.40
2002-03	89	-14	103	37	66	290	.35
2003-04	78	-10	88	34	54	292	.30
2004-05	35	-32	67	25	42	295	.23
2005-06	61	+8	53	20	33	298	.18
2006-07	74	+16	58	20	39	301	.19
2007-08	66	+2	64	22	42	303	.21

<sup>&</sup>lt;sup>a</sup>All outlets.

SOURCES: Processor Reports, FASS Citrus Summary, U.S. Census Bureau, Nielsen.

<sup>&</sup>lt;sup>b</sup>Includes unidentified inventory.

# **General Economic Indicators**

Year	Consumer P (1982-84		Population	Disposable Personal
	All Food	All Items	•	Income
			- millions -	- billion \$ -
1985	105.6	107.6	237.9	3,109.3
1986	109.0	109.6	240.1	3,285.1
1987	113.5	113.6	242.3	3,458.3
1988	118.2	118.3	244.5	3,748.7
1989	125.1	124.0	246.8	4,021.7
1990	132.4	130.7	249.6	4,285.8
1991	136.3	136.2	253.0	4,464.3
1992	137.9	140.3	256.5	4,751.4
1993	140.9	144.5	259.9	4,911.9
1994	144.3	148.2	263.1	5,151.8
1995	148.4	152.4	266.3	5,408.2
1996	153.3	156.9	269.4	5,688.5
1997	157.3	160.5	272.6	5,988.8
1998	160.7	163.0	275.9	6,395.9
1999	164.1	166.6	279.0	6,695.0
2000	167.8	172.2	282.2	7,194.0
2001	173.1	177.1	285.0	7,486.8
2002	176.2	179.9	287.7	7,830.1
2003	180.0	184.0	290.2	8,162.5
2004	186.2	188.9	292.9	8,680.9
2005	190.7	195.3	295.6	9,062.0
2006	195.2	201.6	298.4	9,640.7
2007	202.9	207.3	301.3	10,170.5
2008	214.1	215.3	304.1	10,642.1 <sup>a</sup>

<sup>&</sup>lt;sup>a</sup>Preliminary.

SOURCES: U.S. Dept. of Commerce, Bureau of Labor Statistics, and Bureau of the Census.

# Estimated FOB Value of the Florida Citrus Industry, 2007-08

Item	Estimated FOB Value
	real million \$ <sup>a</sup>
FRESH <sup>a</sup>	
Oranges	85.4
Grapefruit	207.4
<u>Specialty</u>	<u>86.2</u>
TOTAL FRESH	379.0
PROCESSED <sup>b,c</sup>	
Oranges <sup>d</sup>	3,303.6
<u>Grapefruit</u>	<b>144.2</b>
TOTAL PROCESSED	3,447.8
TOTAL VALUE	3,826.8

<sup>&</sup>lt;sup>a</sup>CAC. <sup>b</sup>FCM preliminary estimates. <sup>c</sup>Frozen concentrated and chilled product; excludes canned juice. <sup>d</sup>Includes specialty.

# Estimated Economic Impact<sup>a</sup> of the Citrus Industry on Florida's Economy, 2003-04

Item	Value Added <sup>b</sup>	Output/Sales	Employment
	full-time equivalent jobs		
Fresh	806.8	1,282.7	15,029
Processed	4,066.3	8,006.1	61,307
TOTAL	4,873.2	9,288.8	76,336

<sup>&</sup>lt;sup>a</sup>Total effect (direct, indirect and induced).

SOURCE: T.H. Spreen, et al., *An Economic Assessment of the Future Prospects for the Florida Citrus Industry*, Special Report, UF-IFAS-FRED, Gainesville, FL, March 16, 2006.

<sup>&</sup>lt;sup>b</sup>Wages earned by industry employees, income to business owners, and business taxes paid.

### Florida Delivered-In Costs

Region/	95-96	00-01	05-06	07	-08
Market/ Variety	Hist	Typical/ torical Co	WITHOUT Canker/ Greening	Canker/	
			\$/PS -		
CENTRAL					
<u>Processed</u> Valencia Orange	.83	.76	1.00	.97	1.28
SOUTHWEST					
Processed Hamlin Orange	.84	.77	1.49	1.01	1.25
			- \$/carto	n	
SOUTHWEST  Fresh  Grapefruit	2.53	2.50	3.29	3.14	4.28
INDIAN RIVER					
<u>Fresh</u> Grapefruit	2.98	3.14	4.27	3.65	4.89

SOURCE: Ron Muraro, Extension Economist, University of Florida, IFAS, CREC, Lake Alfred, FL, et al (F.M. Roka, R.E. Rouse, R.M. Turley, J.W. Hebb, E.W. Stover, T.W. Oswalt and M. Still). Website: www.crec.ifas.ufl.edu/Extension/Economics.

Florida Land Value Survey
Estimated Value Per Acre by Geographic Area
and Land Use (Weighted Estimates)

			ted Estimates)							
	So	outh Flori	da	Cen	Central Florida					
Date	Oranges	Grape- fruit	5-7 Year Citrus	Oranges	Grape- fruit	5-7 Year Citrus				
5/1984	9,166	6,992		9,314	6,925					
5/1985	10,071	7,889		9,254	6,365					
5/1986	8,685	8,289		8,798	6,918					
5/1987	9,661	8,833		8,792	7,701					
5/1988	10,911	10,012		10,550	8,835					
5/1989	11,873	10,420		11,800	10,265					
5/1990	13,351	12,169		12,863	10,058					
5/1991	11,274	10,890	8,888	10,771	9,215	6,823				
5/1992	10,756	10,804	9,136	10,250	8,695	7,193				
5/1993	9,046	9,478	7,432	8,796	7,119	6,526				
5/1994	8,097	8,188	6,677	7,822	6,749	6,342				
5/1995	7,477	6,182	6,121	7,253	5,836	5,231				
5/1996	7,457	4,986	6,159	6,774	4,980	5,053				
5/1997	7,290	4,053	6,096	6,776	4,216	4,981				
5/1998	6,882	3,035	5,691	6,763	3,322	4,875				
5/1999	6,956	3,759	5,799	6,780	3,543	4,871				
5/2000	7,073	4,824	5,909	6,899	4,431	4,941				
5/2001	6,410	4,344	5,802	6,139	4,241	4,783				
5/2002	5,687	3,658	5,211	5,438	3,614	4,668				
5/2003	5,932	3,929	5,440	5,721	3,914	4,889				
5/2004	6,540	5,264	5,920	6,409	4,518	5,340				
5/2005	9,956	9,897	8,944	9,805	8,192	8,461				
5/2007	16,123	11,183	11,900	NA	NA	NA				
5/2008	13,500	10,640	10,461	NA	NA	NA				

SOURCE: "Florida Land Value Survey," FRED-IFAS-UF, various surveys.

**U.S. Orange-Juice Imports** 

Oct-Sep	Florida Port		ts	Total U.S.		
Season	Volu	ıme	Value	Volu	ıme	Value
	mil. SSE gal.	thou. MT 65°	mil. \$	mil. SSE gal.	thou. MT 65°	mil. \$
1987-88	194.5	139.7	227.6	447.8	321.6	<b>522.8</b>
1988-89	154.3	110.8	197.1	379.5	272.5	493.4
1989-90	292.7	210.2	383.5	527.6	378.9	683.9
1990-91	185.8	133.4	167.8	319.8	229.6	287.0
1991-92	190.1	136.5	209.2	285.4	205.0	310.2
1992-93	165.4	118.8	116.5	298.3	214.2	195.2
1993-94	215.0	154.4	159.5	424.9	305.1	320.1
1994-95	98.8	70.9	74.7	240.4	172.6	191.0
1995-96	130.6	93.8	125.8	221.0	158.7	223.8
1996-97	177.5	127.5	133.9	294.9	211.8	240.1
1997-98	127.7	91.7	86.6	280.8	201.6	211.4
1998-99	188.5	135.3	146.4	350.2	251.5	285.9
1999-00	139.4	100.1	85.1	339.4	243.7	243.4
2000-01	125.2	89.9	77.8	257.7	185.0	185.0
2001-02	96.6	69.3	64.8	188.8	135.6	159.0
2002-03	155.2	111.5	123.5	290.9	208.9	239.8
2003-04	84.8	60.9	60.7	222.3	159.7	147.4
2004-05	129.9	93.3	99.3	357.5	256.7	257.0
2005-06	97.8	70.2	97.1	298.8	214.6	279.0
2006-07	169.0	121.4	239.9	399.2	286.7	580.6
2007-08	180.3	129.5	208.3	405.5	291.2	498.8
2008-09						

**U.S. Citrus-Juice Exports** 

Season         Volume         Volume           mil. SSE gal.         mil. \$ mil. SSE gal.           1987-88         65.3         114.9         23.4           1988-89         71.4         133.4         17.8           1989-90         87.9         166.7         15.5           1990-91         93.9         171.6         15.7           1991-92         107.2         206.0         23.1	wil. \$ 42.5 37.6 40.0 37.9 56.1 55.3 50.9	Volume mil. SSE gal. 15.5 7.9 8.5 9.2 12.1 9.6	Value mil. \$ 20.5 12.6 13.7 14.8 18.3
gal. gal. gal.  1987-88 65.3 114.9 23.4  1988-89 71.4 133.4 17.8  1989-90 87.9 166.7 15.5  1990-91 93.9 171.6 15.7	42.5 37.6 40.0 37.9 56.1 55.3	gal. 15.5 7.9 8.5 9.2 12.1	20.5 12.6 13.7 14.8 18.3
1988-89       71.4       133.4       17.8         1989-90       87.9       166.7       15.5         1990-91       93.9       171.6       15.7	37.6 40.0 37.9 56.1 55.3	7.9 8.5 9.2 12.1	12.6 13.7 14.8 18.3
1989-90     87.9     166.7     15.5       1990-91     93.9     171.6     15.7	40.0 37.9 56.1 55.3	8.5 9.2 12.1	13.7 14.8 18.3
1990-91 93.9 171.6 15.7	37.9 56.1 55.3	9.2 12.1	14.8 18.3
	56.1 55.3	12.1	18.3
1991-92 107.2 206.0 23.1	55.3		
		9.6	400
1992-93 116.8 209.5 23.1	50.9		16.0
1993-94 104.8 233.9 16.2		12.9	18.9
1994-95 117.2 272.7 22.5	62.4	12.3	21.4
1995-96 116.7 273.8 23.3	60.4	13.2	25.2
1996-97 149.0 305.3 21.2	55.5	12.8	28.2
1997-98 146.3 295.7 18.6	47.2	19.2	32.2
1998-99 146.6 307.4 24.3	<b>52.4</b>	39.1	57.2
1999-00 145.2 289.9 32.9	72.4	22.7	43.6
2000-01 122.9 251.7 39.0	75.3	20.0	36.5
2001-02 181.2 290.5 36.3	72.0	9.3	22.9
2002-03 104.8 257.0 38.3	71.6	3.7	11.5
2003-04 123.0 260.1 42.3	67.4	2.6	8.6
2004-05 119.1 265.3 23.9	<b>52.3</b>	3.5	11.6
2005-06 137.7 314.6 18.7	<b>52.4</b>	4.3	14.6
2006-07 122.6 359.7 20.2	63.9	4.7	17.3
2007-08 138.7 408.4 16.1	59.6	5.5	20.4
2008-09	_		

<sup>&</sup>lt;sup>a</sup>Includes lemon juice.

**U.S. Imports of Fresh Citrus** 

Season	Oranges		Grap	efruit	Mandar Tange	
	Volume	Value	Volume	Value	Volume	Value
	mil. lbs.	mil. \$	mil. lbs.	mil. \$	mil. lbs.	mil. \$
1987-88	49.67	9.88	11.25	.54	32.98	4.97
1988-89	17.92	4.07	8.48	.75	38.18	6.75
1989-90	25.63	4.74	9.95	.87	36.92	7.54
1990-91	134.81	40.64	16.51	1.00	46.15	12.15
1991-92	30.62	6.62	23.35	1.24	42.63	16.20
1992-93	18.90	3.22	27.33	1.30	43.21	16.98
1993-94	30.15	11.71	32.41	1.43	39.22	17.57
1994-95	42.21	12.65	29.44	1.21	47.43	19.17
1995-96	48.37	17.43	33.01	1.59	42.49	19.05
1996-97	53.70	20.95	28.23	1.24	72.94	35.25
1997-98	84.42	36.90	11.40	.50	88.82	45.45
1998-99	229.01	82.46	34.19	1.30	122.58	65.74
1999-00	97.03	40.93	12.62	.91	207.52	97.16
2000-01	117.11	38.70	41.62	2.02	202.03	113.07
2001-02	118.87	37.99	61.55	2.77	142.42	77.60
2002-03	119.10	50.45	37.96	1.54	185.53	123.92
2003-04	121.22	49.12	40.61	1.76	198.63	126.04
2004-05	140.56	57.63	33.01	1.67	199.24	113.72
2005-06	152.15	73.37	36.62	1.79	225.04	153.45
2006-07	262.64	123.31	47.20	2.93	266.30	178.62
2007-08	158.53	73.37	31.60	2.12	202.16	128.05
2008-09						

<sup>&</sup>lt;sup>a</sup>August 1 through July 31.

**U.S. Exports of Fresh Citrus** 

Season	Orar	iges	Grap	efruit	Tangerines	
Season	Volume	Value	Volume	Value	Volume	Value
	mil. lbs.	mil. \$	mil. lbs.	mil. \$	mil. lbs.	mil. \$
1987-88	736.8	189.6	1,000.0	220.0	32.7	9.0
1988-89	801.2	210.1	1,059.9	233.8	42.0	10.4
1989-90	1,042.1	256.8	636.0	161.1	31.0	10.6
1990-91	647.1	203.5	1,022.2	270.7	27.9	11.9
1991-92	995.7	254.8	1,011.7	252.2	43.4	17.4
1992-93	1,211.8	266.8	980.3	222.2	33.8	12.6
1993-94	1,183.9	291.4	999.8	224.8	49.3	16.4
1994-95	1,326.0	331.1	1,081.4	242.7	41.3	16.1
1995-96	1,158.0	293.9	1,105.2	261.0	48.5	18.6
1996-97	1,288.3	320.7	1,062.0	240.1	50.6	19.1
1997-98	1,394.8	358.4	865.5	191.5	55.4	19.8
1998-99	659.4	188.7	946.5	222.5	31.9	12.5
1999-00	1,049.4	265.3	855.8	206.3	61.4	19.6
2000-01	1,292.4	332.0	862.2	200.9	32.4	11.4
2001-02	1,114.0	302.3	875.8	201.8	33.6	13.0
2002-03	1,385.4	339.1	784.9	189.8	37.9	15.3
2003-04	1,419.3	379.6	868.7	241.4	44.1	16.1
2004-05	1,234.8	374.8	503.8	152.2	42.7	19.3
2005-06	1,241.7	372.1	553.4	199.3	45.5	22.7
2006-07	714.9	255.8	864.5	273.2	36.2	19.2
2007-08	1,329.1	449.4	593.8	198.8	70.3	40.8
2008-09						_

<sup>&</sup>lt;sup>a</sup>August 1 through July 31.

# Florida and Imported FCOJ Prices<sup>a</sup>

Oct-Sept	Flor	ida <sup>b</sup>	Braz	zil	Mex	cico	Oth	ner	Impo Ave	orted rage
Season	MT <sup>c</sup>	PS <sup>d</sup>	MT <sup>c</sup>	PS <sup>d</sup>	MT <sup>c</sup>	PS <sup>d</sup>	MT <sup>c</sup>	PS <sup>d</sup>	MT <sup>c</sup>	PS <sup>d</sup>
					dolla	ars				
1993-94	1,863	1.30	1,001	.70	1,249	.87	1,206	.84	1,034	.72
1994-95	1,705	1.19	988	.69	1,260	.88	1,229	.86	1,087	.76
1995-96	2,035	1.42	1,316	.92	1,533	1.07	1,573	1.10	1,390	.97
1996-97	1,634	1.14	1,074	.75	1,211	.85	1,197	.84	1,117	.78
1997-98	1,605	1.12	884	.62	1,265	.88	1,299	.91	1,029	.72
1998-99	1,877	1.31	1,015	.71	1,382	.96	1,424	.99	1,110	.77
1999-00	1,519	1.06	782	.55	1,295	.90	1,404	.98	954	.67
2000-01	1,290	.90	681	.48	1,044	.73	1,759	1.23	955	.67
2001-02	1,490	1.04	719	.50	1,147	.80	2,282	1.59	1,115	.78
2002-03	1,562	1.09	907	.63	1,361	.95	1,733	1.21	1,073	.75
2003-04	1,204	.84	763	.53	970	.68	1,112	.78	866	.60
2004-05	1,533	1.07	843	.59	1,001	.70	1,193	.83	940	.66
2005-06	2,178	1.52	1,129	.79	1,363	.95	1,610	1.12	1,256	.88
2006-07	2,966	2.07	1,909	1.33	2,363	1.65	2,363	1.65	2,082	1.45
2007-08	2,092	1.46	1,499	1.05	2,089	1.46	1,819	1.27	1,702	1.19

<sup>&</sup>lt;sup>a</sup>Price is defined as "market value in the foreign country and therefore excludes U.S. import duties, freight charges from the foreign country to the U.S. and insurance" (U.S. Guide to Foreign Trade Statistics). 1988-89 data include "other orange juice."

<sup>&</sup>lt;sup>b</sup>Florida Price = Bulk Price Equivalent. 
<sup>c</sup>Metric ton 65° Brix. 
<sup>d</sup>Based on 1.029 PS per gallon of 11.8° Brix. 
SOURCES: Processor Reports, FCM and U.S. Department of Commerce.

History of the U.S. Orange-Juice Tariff

		FCOJ	NFC						
Year 	\$/SSE gal.	\$/ liter	\$/ PS	\$/SSE gal.	\$/ liter				
TARIFF ACT OF 1930									
1930-1947	70.00		68.03	70.00					
GATT – GENE	VA SWI	TZERLA	AND	 					
1948-1971	35.00		34.01	35.00					
GATT – KENN	EDY RO	UND .		 					
1972-1988	35.00		34.01	20.00					
1989-1994*	35.02	9.25	34.04	20.07	5.3				
GATT – URUG	i BUAY RO	OUND .		i 					
1995	34.15	9.02	33.19	19.69	5.2				
1996	33.24	8.78	32.31	18.93	5.0				
1997	32.37	8.55	31.46	18.55	4.9				
1998	31.50	8.32	30.62	18.17	4.8				
1999	30.59	8.08	29.73	17.42	4.6				
2000-2011	29.72	7.85	28.89	17.04	4.5				

<sup>\*</sup> Beginning 1989, Harmonized Tariff System based on metric units.

# **NOTES**

# Single-Strength & Chilled Juice Factors to convert cases of single-strength or chilled juice to equivalent cases of 24 No. 2's.

Cans per Case	Container Size	Equivalent Cases of 24/2's	Cans per Case	Container Size	Equivalent Cases of 24/2's
24	4 - ounces	.222	1	1 - gallon	.2963
24	4.25 - "	.236	24	7 - ounces	.389
24	6 - "	.333	48	4.25 - "	.472
24	8 - "	.444	12	24 - "	.667
48	4 - "	.444	12	26 - "	.722
48	5.5 - "	.611	12	32 - "	.889
48	6 - "	.667	64	6 - "	.889
24	12 - "	.667	6	64 - "	.889
48	8 - "	.889	12	1 - quart	.889
24	18 - "	1.000	12	1 - liter	.939
12	46 - "	1.278	72	6 - ounces	1.000
6	No.10	1.333	4	1 - gallon	1.185
			20	1 - quart	1.482

### **Canned & Chilled Sections**

Factors to convert cases of canned and chilled sections to equivalent cases of 24 No. 2's.

Cans per Case	Container Size	Equivalent Cases of 24/2's
12	303	.444
12	1 - pound	.444
4	½ - gallon	.592
6	3 - pounds	.667
2	10 - "	.740
48	8 - ounces	.889
24	303	.889
12	32 - ounces	.889
6	4 - pounds	.889
4	8 - "	1.185
4	1 - gallon	1.185
12	No. 3 cyl. (404)	1.278
12	48 - ounces	1.333

### **Concentrate Factors (3+1)**

Factors to convert cases concentrate (retail size containers) to equivalent cases of 24 No. 2's. These factors apply to FCOJ, FCGJ, FCBJ, FCTJ, sugar-added FCOJ, FCGJ, FCBJ, lemonade, limeade, and/or other concentrated with 3+1 reconstitution.

Cans per Case	Container Size	Equivalent Cases of 24/2's	Cans per Case	Container Size	Equivalent Cases of 24/2's
24	6 - ounces	1.333	9	32 - ounces	2.666
24	8 - "	1.778	12	25.6 - "	2.844
48	4 - "	1.778	24	16 - "	3.555
6	42 - "	2.333	48	8 - "	3.555
6	46 - "	2.555	12	32 - "	3.555
48	6 - "	2.666	72	6 - "	3.999
24	12 - "	2.666	36	12 - "	3.999
			96	6 - "	5.332

# FCOJ -- 42.0° Brix Equivalent Conversion Factors -- Bulk for Manufacturing

Brix	Factor		Brix	Fac	ctors	
<b>42</b> °	Gallons	s X	1.0000	59°	Gallons X	1.5159
<b>43</b> °	"	X	1.0284	60°	" )	1.5486
<b>43.4</b> °	"	X	1.0397	61°	" )	<b>1.5818</b>
<b>44</b> °	"	X	1.0570	<b>62</b> °	" >	<b>1.6150</b>
45°	"	X	1.0857	<b>63</b> °	" >	1.6487
<b>46</b> °	"	X	1.1148	<b>64</b> °	" >	1.6826
<b>47</b> °	"	X	1.1441	<b>65</b> °	" )	1.7168
<b>48</b> °	"	X	1.1735	66°	" )	1.7512
<b>49</b> °	"	X	1.2033	<b>67</b> °	" )	1.7861
<b>50</b> °	"	X	1.2334	<b>68</b> °	" >	1.8210
<b>51</b> °	"	X	1.2637	<b>69</b> °	" >	1.8566
<b>52</b> °	"	X	1.2943	<b>70</b> °	" >	1.8922
<b>53</b> °	"	X	1.3253	<b>71</b> °	" >	<b>1.9281</b>
<b>54</b> °	"	X	1.3564	<b>72</b> °	" >	1.9644
<b>55</b> °	"	X	1.3876	<b>73</b> °	" >	2.0010
<b>56</b> °	"	X	1.4194	<b>74</b> °	" >	2.0380
<b>57</b> °	"	X	1.4512	<b>75</b> °	" >	2.0751
<b>58</b> °	"	X	1.4834			

# Canned Citrus Fruit & Single-Strength Juice

Factors to convert cases of canned citrus products in different sized cans to the equivalent number of cases packed 24 No. 2 cans per case.

	equivalent number of cases packed 24 No. 2 cans per case.							
Cans/	Name of Can	Dimensions	SSE	Equivalent				
Case	Name of Can	of Can	Gal./Case <sup>a</sup>	Cases 24/2's				
24	4 - ounces (baby juice)	202 x 214	.793	.235				
24	4 - ounces	211 x 200	.807	.239				
24	6 - "	202 x 308	.992	.294				
48	6 - "	202 x 308	1.985	.588				
24	6 - "	202 x 314	1.110	.329				
48	6 - "	202 x 314	2.221	.658				
48	8 - ounces (short)	211 x 300	2.599	.770				
24	8 - ounces (tall)	211 x 304	1.424	.422				
48	8 - ounces	211 x 304	2.849	.844				
48	No. 1 (picnic)	211 x 400	3.591	1.064				
24	No. 211 (cylinder)	211 x 414	2.228	.660				
48	No. 211	211 x 414	4.455	1.320				
24	12 - ounces	300 x 400	2.231	.661				
24	No. 300	300 x 407	2.498	.740				
36	No. 300	300 x 407	3.746	1.110				
48	No. 300	300 x 407	4.995	1.480				
48	12 - ounces	300 x 411	5.306	1.572				
48	No. 1 (tall)	301 x 411	5.468	1.620				
24	No. 303	303 x 406	2.771	.821				
48	No. 303	303 x 406	5.542	1.642				
24	No. 303	303 x 504	3.378	1.001				
24	No. 2	307 x 409	3.375	1.000				
24	No. 2	401 x 411	4.894	1.450				
12	No. 3 (32 - ounces)	404 x 414	2.886	.855				
24	No. 3 (32 - ounces)	404 x 414	5.771	1.710				
6	No. 3 (cylinder)	404 x 700	2.126	.630				
12	No. 3 (cylinder)	404 x 700	4.249	1.259				
6	No. 5	502 x 510	2.433	.721				
6	No. 10	603 x 700	4.502	1.334				
6	No. 12 (gallon)	603 x 812	5.690	1.686				
6	No. 12 (gallon)	610 x 800	5.994	1.776				

<sup>&</sup>lt;sup>a</sup>Based on a case of 24/2's being 432 ounces.

**SOURCE: National Canners Association, Washington, DC.** 

Citrus Box Weights: Approximate Net Weight In Pounds by Fruit Type & States								
State	Oranges	Grape- fruit	Tanger- ines	Lemons	Limes			
		oounds p	er 1-3/5 bu	ıshel box				
FL	90 <sup>a</sup>	85	95	90	88			
CA	CA 75 67 <sup>b</sup> 75 76 -							
TX	TX 85 80							
AZ	75	67 <sup>b</sup>	75	76	-			

<sup>a</sup> Includes	Tomples	Ω.	tangolos	at	۵n	nounde
includes	rembies	Ox.	tandelos	aτ	yu	bounds.

<sup>&</sup>lt;sup>b</sup>AZ was 64 lbs. prior to 1993-94. CA was 65 lbs. prior to 1993-94.

Florida Citrus				
Product Seasons				
Fresh:				
AUG 1 - JUL 31				
Frozen Concentrate:				
OCT 1 - SEP 30*				
Chilled & Canned:				
OCT 1 - SEP 30				

\*Historical frozen conc. season was Dec 1-Nov 30. Data in this book have been converted to reflect current Oct-Sep season.

Significant Florida Citrus Belt Freeze & Hurricane Dates					
FREEZES		HURRICANES			
DEC 12 - 13	1957	Charley	AUG 13, 2004		
DEC 11, 13 - 16	1962	Frances	SEP 5, 2004		
JAN 19 - 21	1971	Jeanne	SEP 26, 2004		
JAN 17 - 22	1977	Wilma	OCT 24, 2005		
JAN 12 - 13	1981				
JAN 11 - 14	1982				
DEC 24 - 25	1983				
JAN 21 - 22	1985				
DEC 23 - 24	1989				

CASE EQUIVALENTS							
Concentrate Chilled Canned							
48/6 oz. = 2.25 conc. gal.	12/32 oz. = 3.0 SSE gal.	24/#2's = 3.375 SSE gal.					
24/12 oz. = 2.25 " "	6/64 oz. = 3.0 ""	12/46 oz. = 4.31 ""					
24/6 oz. = 1.125 " "		48/6 oz. = 2.25 " "					
24/16 oz. = 3.0 ""		24/12 oz. = 2.25 " "					
12/32 oz. = 3.0 ""							
6/64 oz. = 3.0 ""							

### **Basic Metric Conversions**

1 metric ton=2,204.6 pounds
1 pound=.454 kilograms
1 kilogram=2.2046 pounds
1 90-lb. box=40.8 kilograms
1 85-lb. box=38.56 kilograms
1 gallon=3.785 liters
1 liter=.2641 gallons
1 kiloliter=1,000 liters
1 hectare=2.47 acres
1 acre=.405 hectare

	1 Metric Ton					
65° Brix	66° Brix					
= 1,433	= 1,455	pounds solids (PS)				
= 200.84	= 203.92	gallons 65° Brix				
= 196.89	= 199.91	gallons 66° Brix				
= 344.8	= 350.1	gallons 42° Brix				
= 1,392.6	= 1,413.9	gallons 11.8° Brix				
= 760.5	= 772.1	liters 65° Brix				
= 745.5	= 756.9	liters 66° Brix				
= 1,305.6	= 1,325.6	liters 42° Brix				
= 5,273.0	= 5,353.8	liters 11.8° Brix				

One (1) 55-gallon drum 65° Brix

= 370 pounds solids, contains about 52 gallons, & weighs about 625 pounds.

**Commonly Used Brix Equivalents** 

Degrees	PS	Weight/Gallon	Equ	ıivalent Gallo	ns
Brix	Brix   Per   In Air at	in Air at 20°C (pounds)	11.8° Brix	42° Brix	65° Brix
10.0	0.865	8.655	0.84062	0.20813	0.12123
11.8	1.029	8.717	1.00000	0.24759	0.14422
40.0	3.924	9.809	3.81341	0.94418	0.54996
42.0	4.156	9.896	4.03887	1.00000	0.58248
43.4	4.321	9.957	4.19922	1.03970	0.60561
45.0	4.512	10.027	4.38484	1.08566	0.63238
50.0	5.126	10.253	4.98154	1.23340	0.71843
58.0	6.165	10.630	5.99125	1.48340	0.86405
65.0	7.135	10.977	6.93392	1.71679	1.00000
66.0	7.278	11.028	7.07289	1.75120	1.02004
66.5	7.350	11.053	7.14286	1.76853	1.03013

SOURCE: C.S. Chen, "Brix and Pounds Solids Tables," Scientific Research Department, Florida Department of Citrus, Lake Alfred, FL, May 1983.

Pounds Solids and Weight per Gallon at Various Degrees Brix

Tariodo Dogreso Drix						
Degrees Brix	Pounds Solids/ Gallon	Weight/ Gallon in Air at 20°C (pounds)	Degrees Brix	Pounds Solids/ Gallon	Weight/ Gallon in Air at 20°C (pounds)	
8.0	0.687	8.586	12.5	1.093	8.742	
8.5	0.731	8.603	12.6	1.102	8.745	
9.0	0.776	8.621	12.7	1.111	8.749	
9.5	0.821	8.638	12.8	1.120	8.752	
9.6	0.830	8.641	12.9	1.130	8.756	
9.7	0.839	8.645	39.5	3.866	9.788	
9.8	0.848	8.648	39.6	3.878	9.792	
9.9	0.856	8.651	39.7	3.889	9.796	
10.0	0.865	8.655	39.8	3.901	9.801	
10.1	0.874	8.658	39.9	3.912	9.805	
10.2	0.883	8.662	40.0	3.924	9.809	
10.3	0.893	8.665	40.1	3.935	9.814	
10.4	0.902	8.669	40.2	3.947	9.818	
10.5	0.911	8.672	40.3	3.958	9.822	
10.6	0.920	8.676	40.4	3.970	9.827	
10.7	0.929	8.679	41.5	4.098	9.874	
10.8	0.938	8.682	41.6	4.109	9.878	
10.9	0.947	8.686	41.7	4.121	9.883	
11.0	0.956	8.689	41.8	4.133	9.887	
11.1	0.965	8.693	41.9	4.144	9.891	
11.2	0.974	8.696	42.0	4.156	9.896	
11.3	0.983	8.700	42.1	4.168	9.900	
11.4	0.992	8.703	42.2	4.180	9.904	
11.5	1.001	8.707	42.3	4.191	9.909	
11.6	1.010	8.710	42.4	4.203	9.913	
11.7	1.020	8.714	42.5	4.215	9.917	
11.8	1.029	8.717	42.6	4.227	9.922	
11.9	1.038	8.721	42.7	4.238	9.926	
12.0	1.047	8.724	42.8	4.250	9.930	
12.1	1.056	8.728	42.9	4.262	9.935	
12.2	1.065	8.731	43.0	4.274	9.939	
12.3	1.074	8.735	43.1	4.286	9.943	
12.4	1.084	8.738	43.2	4.297	9.948	

Continued...

Pounds Solids and Weight per Gallon at Various Degrees Brix (Cont.)

	1 4110	<u> </u>		<del>- (</del>	<del>- /</del>
Degrees Brix	Pounds Solids/ Gallon	Weight/ Gallon in Air at 20°C (pounds)	Degrees Brix	Pounds Solids/ Gallon	Weight/ Gallon in Air at 20°C (pounds)
43.3	4.309	9.952	57.6	6.112	10.611
43.4	4.321	9.957	57.7	6.125	10.616
43.5	4.333	9.961	57.8 57.0	6.139	10.620
43.6	4.345	9.965	57.9 50.0	6.152	10.625
43.7	4.357	9.970	58.0	6.165	10.630
43.8	4.369	9.974	58.1	6.179	10.635
43.9	4.381	9.978	58.2	6.192	10.640
44.0	4.392	9.983	58.3	6.206	10.645
44.1	4.404	9.987	58.4	6.219	10.649
44.2	4.416	9.992	59.0	6.300	10.679
44.3	4.428	9.996	64.0	6.993	10.927
44.4	4.440	10.000	64.5	7.064	10.952
44.5	4.452	10.005	64.6	7.078	10.957
44.6	4.464	10.009	64.7	7.092	10.962
44.7	4.476	10.014	64.8	7.107	10.967
44.8	4.488	10.018	64.9	7.121	10.972
44.9	4.500	10.023	65.0	7.135	10.977
45.0	4.512	10.027	65.1	7.149	10.982
45.1	4.524	10.032	65.2	7.164	10.987
45.2	4.536	10.036	65.3	7.178	10.992
45.3	4.548	10.041	65.4	7.192	10.997
45.4	4.560	10.045	65.5	7.207	11.002
49.5	5.064	10.230	65.6	7.221	11.007
49.6	5.076	10.234	65.7	7.235	11.013
49.7	5.089	10.239	65.8	7.250	11.018
49.8	5.101	10.243	65.9	7.264	11.023
49.9	5.114	10.248	66.0	7.278	11.028
50.0	5.126	10.253	66.1	7.293	11.033
50.1	5.139	10.257	66.2	7.307	11.038
50.2	5.151	10.262	66.3	7.322	11.043
50.3	5.164	10.267	66.4	7.336	11.048
50.4	5.177	10.271	66.5	7.350	11.053
57.5	6.098	10.606	66.6	7.365	11.058
	01000			11000	

SOURCE: C.S. Chen, "Brix and Pounds Solids Tables," Scientific Research Department, Florida Department of Citrus, Lake Alfred, FL, May 1983.

### **International Marketing Conversion Tables**

```
One (1) metric ton 65° Brix
                                   1,392.6 SSE gallons
 One (1) metric ton 58° Brix
                                   1,242.5
                               =
   One (1) kiloliter 65° Brix
                                   1,831.2
   One (1) kiloliter 58° Brix
                                   1,582.3
                                   3.0 a
 4/5-bushel carton oranges
                                                   "
                               =
                                   2.4 b
4/5-bushel carton grapefruit
                                                   "
```

<sup>&</sup>lt;sup>a</sup>Based on an average yield of 6.0 SSE gallons/box. <sup>b</sup>Based on an average yield of 4.8 SSE gallons/box.

40-foot Shipping Container Capacity					
55-gallon drums 65° Brix	=	84			
55-gallon drums SSE	=	103			
300-gallon bins SSE	=	21			

Concentrate						
One (1) case 24/12-ounce 58° Brix (1:5)	=	13.48	SSE	gallons		
One (1) case 24/12-ounce 65° Brix (1:6)	=	15.60	"	"		
One (1) 55-gallon drum 58° Brix (1:5)	=	311.55	"	"		
One (1) 55-gallon drum 65° Brix (1:6)	=	360.56	"	"		

Chilled					
One (1) case 6/64-ounce	=	3.00 SSE gallons			
One (1) case 8/64-ounce	=	4.00 ""			

Canned						
One (1) case 12/46-ounce	=	4.31	SSE	gallons		
One (1) case 48/6-ounce	=	2.25	"	"		

# Delivery and Carrying Costs for FCOJ Futures Contracts<sup>a</sup>

	Selected Approximate Costs				
Item	Take Delivery, Assuming Loading Product Out	Receive, Carry for 2 Months, and Redeliver			
Commission-In <sup>b</sup>	\$ 20.00	\$ 20.00			
Commission-Out <sup>b</sup>		\$ 20.00			
Handling Out <sup>c</sup>	\$ 250.00°	\$ 0.00			
Storage <sup>c,f</sup>	\$ 450.00 <sup>9</sup>	\$ 600.00 h			
Interest <sup>i</sup>	\$ 4.19	\$ 4.97			
<b>Total Per Contract</b>	\$ 724.19	\$ 644.97			
Total Points <sup>j</sup>	483	430			

<sup>&</sup>lt;sup>a</sup>Ignores USDA inspection fee.

Interest is calculated as 4.75% per annum (1.5% over prime) on commission, handling and storage costs; excluding interest on money for juice purchase – cost per pound times 15,000 pounds per contract times ((1.0475)  $^{\text{m/12}}$ -1), where m is the months contract is owned:

INTEREST ON COST OF JUICE						
Cost Per Pound	Months Contract Owned					
Cost Per Pourid	1.5	(Points)	2	(Points)		
\$ 0.70	\$ 40.68	(27)	\$ 81.53	(54)		
\$ 0.90	\$ 52.31	(35)	\$ 104.82	(70)		
\$ 1.10	\$ 63.93	(43)	\$ 128.11	(85)		

Does not include points on interest on cost of juice.

#### **SOURCE: Intercontinental Exchange (ICE).**

It is recommended that potential participants consult the delivery rules on the ICE website (www.theice.com).

<sup>&</sup>lt;sup>b</sup>Rate is negotiable.

<sup>&</sup>lt;sup>c</sup>Published rates can change over time.

<sup>&</sup>lt;sup>d</sup>Handling out only (truck loading; ½ the "In" and "Out" fee). Paid by Taker, collected by Maker.

eHandling cost paid for delivery offset by handling cost collected for redelivery.

Prompt payment of monthly storage is advised, as all warehouses are charging interest on late payments.

<sup>&</sup>lt;sup>9</sup>Assumes 1.5 months storage at \$300.00 per month.

<sup>&</sup>lt;sup>h</sup>Assumes 2 months storage at \$300.00 per month.

New York FCOJ Monthly Average Nearby Futures Settlement Price

Month	2003	2004	2005	2006	2007	2008	2009
cents per pound solids							
JAN	92.04	62.95	82.11	123.07	200.33	136.92	74.40
FEB	87.08	60.97	85.02	130.18	195.62	128.23	69.25
MAR	84.68	61.21	95.57	139.94	199.98	118.80	73.72
APR	85.49	59.45	95.29	144.84	171.73	115.73	
MAY	85.74	56.11	93.71	155.09	165.03	112.30	
JUN	85.30	57.66	96.24	158.23	138.36	112.00	
JUL	81.31	66.74	98.26	163.04	133.06	121.63	
AUG	78.66	67.27	91.59	177.49	129.60	103.60	
SEP	77.17	79.99	95.72	174.78	125.06	94.76	
ОСТ	70.77	82.49	108.03	184.62	142.53	81.41	
NOV	70.11	74.99	119.95	197.72	136.33	79.81	
DEC	67.01	83.46	125.06	201.23	144.36	73.82	

SOURCES: New York Board of Trade and Intercontinental Exchange (ICE).

Florida FCOJ Movement by Product Type							
Oct-Sep Season	Retail	Institutional	Bulk	Total <sup>a</sup>			
		million gallons	42° Brix				
1987-88	80.5	21.0	123.9	225.4			
1988-89	74.6	21.1	123.2	218.8			
1989-90	65.7	20.9	100.6	187.2			
1990-91	72.1	21.5	116.0	209.7			
1991-92	68.3	22.8	120.6	211.7			
1992-93	69.5	20.9	153.6	244.0			
1993-94	60.7	20.5	157.0	238.2			
1994-95	54.3	22.7	188.4	265.5			
1995-96	52.3	28.4	196.2	276.9			
1996-97	53.1	24.5	189.7	267.3			
1997-98	49.5	26.2	192.1	267.8			
1998-99	41.1	27.2	170.7	239.1			
1999-00	35.7	27.5	176.5 <sup>b</sup>	239.7 <sup>b</sup>			
2000-01	34.7	27.1	164.2 <sup>b</sup>	226.0 <sup>b</sup>			
2001-02	30.8	25.5	193.7	249.9			
2002-03	25.8	25.0	149.2	200.1			
2003-04	22.8	26.9	167.3	217.0			
2004-05	20.7	23.0	131.4	175.2			
2005-06	18.3	21.4	121.2	160.8			
2006-07	15.8	19.9	113.4	149.2			
2007-08	14.7	18.4	104.6	137.7			
2008-09							

<sup>&</sup>lt;sup>a</sup>May not add to total due to rounding.

<sup>&</sup>lt;sup>b</sup>Adjusted.

Florida FCOJ Inventories, Pack and Movement

Oct Son		Pack			
Oct-Sep Season	Beginning Inventory	From Fruit	Other	Movement	Ending Inventory <sup>b</sup>
		millio	n gallons 4	2°Brix	
1987-88	59.44	169.97	74.43	240.48	63.37
1988-89	63.37	174.73	58.48	233.17	63.41
1989-90	63.41	90.28	99.81	195.87	57.64
1990-91	57.64	151.40	68.67	219.01	58.69
1991-92	58.69	145.42	68.80	222.64	50.28
1992-93	50.28	208.66	75.77	261.05	73.67
1993-94	73.67	182.23	84.27	254.03	86.14
1994-95	86.14	216.50	59.75	280.95	81.44
1995-96	81.44	202.35	73.61	286.93	70.48
1996-97	70.48	241.80	69.65	278.87	105.45°
1997-98	105.45 <sup>c</sup>	253.73	47.18	271.40	134.97
1998-99	134.97	158.88	58.02	247.64	105.20 <sup>d</sup>
1999-00	105.20 <sup>d</sup>	207.71	46.32	246.57	112.65 <sup>d</sup>
2000-01	112.65 <sup>d</sup>	196.06	49.15	229.59	128.27
2001-02	128.27	215.06	44.59 <sup>d</sup>	261.26	126.66 <sup>d</sup>
2002-03	126.66 <sup>d</sup>	156.84	47.35 <sup>d</sup>	206.85	124.03
2003-04	124.03	218.30	32.18	222.26	151.83
2004-05	151.83	86.00	45.38	175.15	107.78
2005-06	107.78	84.60	35.83	160.80	67.17
2006-07	67.17	79.05	55.10	149.20	52.14
2007-08	52.14	135.20	58.45	137.74	108.05
2008-09	108.05				

<sup>&</sup>lt;sup>a</sup>Includes futures contract.

<sup>&</sup>lt;sup>b</sup>May not calculate due to rounding deliveries.

<sup>&</sup>lt;sup>c</sup>Reporting definition change.

dAdjusted.

Florida COJ Inventories, Pack and Movement Pack Oct-Sep **Beginning Ending** From Movement From Inventory **Inventory**<sup>a</sup> Season Concen-Fruit trate ---- million SSE gallons ----1987-88 NA NA NA 308.87 NA NA NA NA NA 1988-89 333.34 NA NA NA 1989-90 NA 336.16 1990-91 NA NA NA 349.86 NA NA NΑ 1991-92 NA NA 384.73 1992-93 NA NA NA NA 408.42 1993-94<sup>b</sup> 311.12 78.42 142.20 444.20 89.00 1994-95<sup>b</sup> 326.66 126.89 89.00 463.99 78.88 1995-96<sup>b</sup> 78.88 384.12 116.30 472.60 108.27 1996-97<sup>b</sup> 108.27 400.28 86.35 477.41 119.06 1997-98<sup>b</sup> 119.06 452.07 96.08 583.61 83.69 1998-99<sup>b</sup> 83.69 505.51 85.10 588.06 86.69 1999-00<sup>b</sup> 86.69 86.71 163.42 558.82 **577.87** 2000-01<sup>b</sup> 163.42 543.28 72.90 635.17 152.32 2001-02<sup>b</sup> 152.32 531.27 **58.80** 602.61 154.36 2002-03<sup>b</sup> 154.36 561.69 53.36 603.15 179.68 2003-04<sup>b</sup> 179.68 559.08 39.49 615.81 181.54<sup>c</sup> 2004-05<sup>b</sup> 181.54<sup>c</sup> 553.27 17.34 601.39 167.47 2005-06<sup>b</sup> 167.47 575.06 20.07 610.30 174.98 2006-07<sup>b</sup> 174.98 487.81 17.72 560.95 152.49 2007-08<sup>b</sup> 15.67 152.49 552.26 562.45 187.76 187.76 2008-09<sup>b</sup>

<sup>&</sup>lt;sup>a</sup>May not calculate due to rounding.

blnventories include domestic receipts of non-Florida product and receipts of Florida product from non-members.

<sup>&</sup>lt;sup>c</sup>Adjusted to "standard" 11.8° Brix galllons.

**SOURCE: Processor Reports.** 

Florida CSSOJ Inventories, Pack and Movement Pack Beginning Oct-Sep **Ending** From Movement From **Inventory**<sup>a</sup> Inventory Season Concen-Fruit trate ----- million SSE gallons -----1978-79 7.00<sup>b</sup> 33.46 11.16 42.79 8.84 47.16 1979-80 8.84 36.49 10.32 8.48 8.48 8.42 1980-81 28.76 15.15 43.98 8.11 1981-82 8.42 20.56 18.27 39.13 1982-83 8.11 12.34 20.74 36.42 4.77 31.42 1983-84 4.77 10.94 19.72 4.01 4.01 26.06 6.07 3.00 1984-85 18.99 3.00 7.10 18.54 25.31 3.33 1985-86 3.33 5.34 22.07 27.28 3.46 1986-87 1987-88 3.46 4.80 19.69 25.06 2.89 2.89 6.39 2.67 1988-89 21.16 27.77 1989-90 2.67 3.35 19.06 23.01 2.07 2.07 1990-91 3.24 20.82 24.30 1.84 1991-92 1.84 2.65 2.62 23.17 25.05 26.79 1992-93 2.62 1.99 24.75 2.56 1993-94 2.56 1.36 21.76 23.10 2.58 1994-95 2.58 1.73 17.65 19.96 2.01 1.43 1.81 1995-96 2.01 16.18 17.80 1996-97 1.81 1.07 12.20 14.13 .95 1.01 1997-98 .95 NA NA 12.13

1998-99<sup>c</sup>

SOURCES: Processor Reports, FDOC.

1.01

<sup>&</sup>lt;sup>a</sup>May not calculate due to rounding.

<sup>&</sup>lt;sup>b</sup>Adjusted.

<sup>°</sup>CSSOJ no longer reported.

Florida FCGJ Inventories, Pack and Movement

Oct-Sep	Paginning		Movem	ent	Ending		
	Beginning Inventory	Pack <sup>a</sup>	Retail and Institutional	Bulk	Ending Inventory <sup>b</sup>		
million 40° Brix gallons							
1987-88	8.96 <sup>c</sup>	33.40	3.08	25.10	14.17		
1988-89	14.17	33.28	2.88	25.48	19.09		
1989-90	19.09	22.59	2.51	22.50	16.67		
1990-91	16.50 <sup>c</sup>	22.16	2.38	24.07	12.21		
1991-92	12.21	20.55	2.28	23.73	6.76		
1992-93	6.76	32.87	2.07	24.42	13.14		
1993-94	13.14	27.27	1.72	24.92	13.77		
1994-95	13.77	31.48	1.55	26.39	17.31		
1995-96	17.31	27.42	1.45	25.92	17.36		
1996-97	17.36	30.94	1.42	25.72	21.15		
1997-98	21.46 <sup>d</sup>	24.61	1.32	27.10	17.64		
1998-99	17.64	24.77	1.37	30.88	10.17		
1999-00	10.10 <sup>c</sup>	30.05	.97	23.57	15.60		
2000-01	13.47 <sup>c</sup>	27.50	.81	24.74	15.42		
2001-02	15.42	27.55	.70	23.92	18.36		
2002-03	18.68 <sup>c</sup>	20.41	.68	22.75	15.65		
2003-04	15.65	21.11	.60	22.92	13.25		
2004-05	13.25	4.85	.39	12.37	5.35		
2005-06	5.35	10.25	.38	8.10	7.12		
2006-07	7.12	16.27	.26	12.37	10.76		
2007-08	10.76	14.67	.24	14.72	10.46		
2008-09	10.46						

<sup>&</sup>lt;sup>a</sup>Includes non-Florida & foreign imports & Florida non-member & chilled GJ in FCGJ.

<sup>&</sup>lt;sup>b</sup>May not calculate due to rounding.

<sup>&</sup>lt;sup>c</sup>Adjusted.

<sup>&</sup>lt;sup>d</sup>Includes definitional adjustment.

Florida CGJ Inventories, Pack and Movement

		Pa				
- 1	Beginning Inventory	From Fruit	From Concen- trate	Movement	Ending Inventory <sup>a</sup>	
		ons				
1987-88	1.91	5.71	31.17	36.27	2.52	
1988-89	2.52	8.99	28.49	36.22	3.78	
1989-90 <sup>b</sup>	3.78	5.71	26.33 <sup>b</sup>	32.87	3.14	
1990-91 <sup>b</sup>	3.14	11.13	27.22 <sup>b</sup>	31.66	NA	
1991-92 <sup>b</sup>	NA	12.60	25.13 <sup>b</sup>	31.78	NA	
1992-93 <sup>b</sup>	NA	23.09	38.10 <sup>b</sup>	37.66	NA	
1993-94 <sup>b</sup>	6.77	29.31	16.93	42.99	10.02	
1994-95 <sup>b</sup>	10.02	29.31	17.56	44.66	12.25	
1995-96 <sup>b</sup>	12.25	31.90	12.02	45.29	10.93	
1996-97 <sup>b</sup>	10.93	37.21	13.60	46.90	14.84	
1997-98 <sup>b</sup>	14.84	36.30	14.75	53.04	12.89	
1998-99 <sup>b</sup>	12.89	39.38	15.50	56.39	11.38	
1999-00 <sup>b</sup>	11.38	51.78	6.27	47.53	21.91	
2000-01 <sup>b</sup>	21.91	32.88	3.93	45.75	14.86	
2001-02 <sup>b</sup>	14.86	33.61	3.81	39.00	13.44	
2002-03 <sup>b</sup>	13.44	32.43	2.52	39.62	11.74	
2003-04 <sup>b</sup>	11.74	34.28	.03	34.45	12.03 <sup>c</sup>	
2004-05 <sup>b</sup>	12.03°	16.01	.03	19.50	11.73	
2005-06 <sup>b</sup>	11.73	21.96	.01	20.67	12.51	
2006-07 <sup>b</sup>	12.51	26.60	-	23.56	13.84	
2007-08 <sup>b</sup>	13.84	30.99	.00	26.63	17.43	
2008-09 <sup>b</sup>	17.43					

<sup>&</sup>lt;sup>a</sup>May not calculate due to rounding.

<sup>&</sup>lt;sup>b</sup>Inventories include domestic receipts of non-Florida and Florida non-member product.

<sup>°</sup>Adjusted to "standard" 10.0° Brix gallons.

Florida CSSGJ Inventories, Pack and Movement

		Pa	ck		
Oct-Sep Season	Beginning Inventory	From Fruit	From Concen- trate	Movement	Ending Inventory <sup>a</sup>
		mil	lion SSE gall	ons	
1978-79	12.02	52.06	4.52	58.37	10.23
1979-80	10.23	49.62	6.42	54.75	11.52
1980-81	11.52	38.02	10.01	48.38	11.16
1981-82	11.16	37.90	15.17	49.84	14.40
1982-83	14.40	19.80	19.53	45.55	8.17
1983-84	8.17	14.00	18.10	34.53	5.75
1984-85	5.75	17.58	18.04	37.02	4.35
1985-86	4.35	15.12	18.45	32.81	5.11
1986-87	5.11	12.13	18.19	30.47	4.96
1987-88	4.96	10.51	15.55	26.57	4.46
1988-89	4.46	8.09	18.76	26.61	4.71
1989-90	4.71	4.78	15.42	22.21	2.70
1990-91	2.70	4.30	18.24	22.51	2.73
1991-92	2.73	3.14	16.51	20.35	2.02
1992-93	2.02	2.81	16.60	18.85	2.58
1993-94	2.58	1.36	16.78	18.56	2.16
1994-95	2.16	1.45	16.23	18.02	1.82
1995-96	1.82	.72	15.17	16.24	1.48
1996-97	1.48	.76	14.01	15.00	1.25
1997-98	1.25	NA	NA	16.53	1.47
1998-99 <sup>b</sup>	1.47				

<sup>&</sup>lt;sup>a</sup>May not calculate due to rounding.

<sup>&</sup>lt;sup>b</sup>CSSGJ no longer reported.

Florida Orange On-Tree Earnings Per Box

Season	Ear	ly & eason	Vale	ncia	Total		
	Fresh	Proc.	Fresh	Proc.	Fresh	Proc.	
		d	ollars per	90-lb. bc	)X		
1987-88	7.65	6.64	8.45	8.75	7.96	7.56	
1988-89	7.65	6.63	7.55	8.45	7.61	7.40	
1989-90	9.55	5.74	13.75	6.34	10.31	5.98	
1990-91	8.30	5.17	8.60	6.35	8.46	5.66	
1991-92	9.40	5.03	6.70	6.65	8.52	5.69	
1992-93	4.50	3.15	2.54	3.95	3.81	3.46	
1993-94	6.75	3.56	4.25	4.63	5.98	3.98	
1994-95	4.00	3.21	4.20	4.42	4.07	3.72	
1995-96	4.95	3.54	6.45	5.53	5.46	4.35	
1996-97	4.50	3.11	4.70	4.04	4.57	3.49	
1997-98	3.70	2.76	4.20	4.90	3.85	3.68	
1998-99	8.30	4.12	9.40	5.32	8.78	4.59	
1999-00	5.55	3.07	4.95	4.31	5.37	3.60	
2000-01	4.00	2.53	4.80	3.99	4.29	3.16	
2001-02	4.65	2.79	5.25	4.17	4.84	3.41	
2002-03	5.75	2.42	5.30	3.80	5.61	3.05	
2003-04	4.65	2.09	2.85	3.67	3.87	2.85	
2004-05	7.60	2.54	5.80	4.17	6.87	3.31	
2005-06 <sup>a</sup>	6.20	4.60	5.00	6.38	5.80	5.49	
2006-07 <sup>a</sup>	12.10	8.70	15.40	11.55	13.25	10.00	
2007-08 <sup>a</sup>	8.50	5.40	7.55	6.84	8.18	6.14	

<sup>&</sup>lt;sup>a</sup>Preliminary.

**SOURCE: FASS.** 

Florida Grapefruit On-Tree Earnings Per Box

Cocce	<u> </u>	nite	Colo	red	Total		
Season	Fresh	Proc.	Fresh	Proc.	Fresh	Proc.	
		c	lollars pe	r 85-lb. bo	OX		
1987-88	6.82	4.80	6.86	3.86	6.85	4.61	
1988-89	6.22	3.56	5.93	2.23	6.03	3.24	
1989-90	10.91	3.55	9.60	1.92	10.00	3.06	
1990-91	8.60	2.16	8.95	1.42	8.83	2.08	
1991-92	10.20	4.41	8.05	3.71	8.69	4.20	
1992-93	5.30	1.26	4.70	.56	4.86	1.06	
1993-94	7.55	1.69	4.70	1.13	5.52	1.51	
1994-95	6.75	1.39	3.05	23	4.00	.83	
1995-96	5.88	.88	2.96	06	3.71	.56	
1996-97	5.23	18	3.26	.20	3.74	01	
1997-98	5.38	65	2.85	05	3.42	33	
1998-99	6.80	.29	4.52	.28	5.04	.30	
1999-00	9.78	2.35	5.52	1.60	6.52	1.98	
2000-01	6.53	.87	4.30	.29	4.81	.59	
2001-02	6.54	.91	4.92	.17	5.25	.56	
2002-03	7.57	.36	5.13	.21	5.63	.29	
2003-04	7.50	.50	7.27	.70	7.32	.60	
2004-05	21.32	5.73	19.11	4.76	19.51	5.13	
2005-06 <sup>a</sup>	16.09	5.03	13.40	3.78	13.96	4.29	
2006-07 <sup>a</sup>	9.04	.76	9.61	1.18	9.51	.99	
2007-08 <sup>a</sup>	10.05	.33	10.85	35	10.71	05	

<sup>&</sup>lt;sup>a</sup>Preliminary.

**SOURCE: FASS.** 

# **Total On-Tree Earnings of the Florida Citrus Industry**

Season	Oranges	Temples	Grape- fruit	Tanger- ines	Tangelos	K-Early	Limes	Lemons	Total		
1993-94	713,312	6,136	167,211	40,303	7,976	377	2,540	1,998	939,853		
1994-95	767,924	8,848	116,602	42,539	8,318	276	1,989	1,677	948,173		
1995-96	895,465	9,543	101,140	56,646	8,883	365	2,414	1,361	1,075,817		
1996-97	801,344	7,723	86,583	50,343	8,645	210	2,216	2,006	959,070		
1997-98	900,815	6,898	63,000	44,126	4,723	-53	3,035	839	1,023,383		
1998-99	900,044	9,208	108,411	59,763	11,560	145	6,413	1,516	1,097,060		
1999-00	856,052	4,971	188,332	46,622	5,549	68	6,728	201	1,108,523		
2000-01	716,055	2,565	100,869	35,867	2,671	84	2,999	921	862,031		
2001-02	797,602	3,395	107,653	51,554	5,307	36	929	299	966,775		
2002-03	643,804	2,615	94,518	46,217	6,114	b	b	2,061	795,329		
2003-04	699,927	1,502	136,295	48,464	7,484	b	b	b	893,672		
2004-05	522,892	1,615	172,365	53,503	3,794	b	b	b	754,169		
2005-06	813,322	2,214	149,655	51,907	7,512	b	b	b	1,024,610		
2006-07 <sup>a</sup>	1,310,382	С	120,280	58,152	10,298	b	b	b	1,499,112		
2007-08 <sup>a</sup>	1,057,375	С	112,946	37,756	3,862	b	b	b	1,211,939		

<sup>&</sup>lt;sup>a</sup>Preliminary.

**SOURCE: FASS, Citrus Summary.** 

<sup>&</sup>lt;sup>b</sup>No longer reported.

<sup>&</sup>lt;sup>c</sup>Temples included with oranges.

# Delivered-In Prices Reported by Florida Citrus Processors Association for Oranges Purchased<sup>a</sup>

Season/ Item <sup>b</sup>	To Midseason	After Midseason	Combined Early/Midseason
	Break	Break	and Valencia
1999-00°			
Priced Boxes	33,041,166	16,102,486	49,143,652
\$/PS Average	.854363	.997951	.905359
\$/Box Average	5.196875	6.860122	5.741857
2000-01°			
Priced Boxes	24,417,244	11,550,205	35,967,449
\$/PS Average	.695792	.899491	.764827
\$/Box Average	4.357134	6.104480	4.918258
2004 026			
2001-02 <sup>c</sup> Priced Boxes	22.067.205	17 526 601	40 402 906
\$/PS Average	22,967,205 .748566	17,526,601 .942557	40,493,806 .836374
\$/Box Average	4.565481	6.229543	5.285723
Ψ/DOX Average	4.505401	0.223343	3.203723
<u>2002-03</u> °			
Priced Boxes	23,036,107	14,998,208	38,034,315
\$/PS Average	.873196	1.031572	.937849
\$/Box Average	5.128478	6.412195	5.634950
2003-04°			
Priced Boxes	30,633,873	26,910,288	57,544,161
\$/PS Average	.648933	. <b>7651</b> 50	.Ź0 <b>7</b> Ź71
\$/Box Average	3.710253	5.019599	4.322563
2004-05			
Priced Boxes	23,252,092	19,881,954	43,134,046
\$/PS Average	.798043	1.028422	.909710
\$/Box Average	4.784269	6.782594	5.705365
2005.06			
2005-06 Priced Boxes	24,427,462	29,605,351	54,032,812
\$/PS Average	1.156686	1.462930	1.334416
\$/Box Average	6.864509	9.906827	8.531439
		0.0000	
<u>2006-07</u>	05 050 000	00 575 444	50.007.400
Priced Boxes	25,652,286	30,575,114	56,227,400
\$/PS Average	1.949092 12.096146	2.225927	2.107821 13.988636
\$/Box Average	12.096146	15.576420	13.900030
2007-08			
Priced Boxes	27,072,004	29,302,110	56,374,113
\$/PS Average	1.389960	1.381078	1.385092
\$/Box Average	8.775844	9.771768	9.293505

<sup>&</sup>lt;sup>a</sup>Excludes participation and intermediate prices, and prices for oranges purchased for chilled-orange-juice production.

<sup>&</sup>lt;sup>b</sup>Total boxes and weighted average price of spot, contract and final prices combined.

<sup>&</sup>lt;sup>c</sup>Excludes chilled-orange-juice production.

**SOURCE: Processor Reports.** 

# Delivered-In Prices Reported by Florida Citrus Processors Association for Grapefruit Purchased

Season/ Item	White	Colored	Combined
1999-00			
Priced Boxes	8,981,415	4,847,195	13,828,610
\$/PS Average	1.163851	1.096553	1.139355
\$/Box Average	5.035492	5.031245	5.034004
<u>2000-01</u>			
Priced Boxes	8,251,541	3,732,761	11,984,302
\$/PS Average	.669177	.484440	.608396
\$/Box Average	3.160538	2.480057	2.948588
<u>2001-02</u>			
Priced Boxes	8,286,298	2,813,133	11,099,431
\$/PS Average	.719602	.272997	.601665
\$/Box Average	3.324959	1.333261	2.820166
2002-03			
Priced Boxes	3,901,815	1,606,522	5,508,337
\$/PS Average	.534171	.403529	.494971
\$/Box Average	2.388766	1.878852	2.240048
2003-04			
Priced Boxes	5,641,239	2,372,097	8,013,336
\$/PS Average	.493767	.490457	.492743
\$/Box Average	2.127092	2.250097	2.163504
<u>2004-05</u>	007.007	4 445 007	0.040.404
Priced Boxes	927,887	1,415,237	2,343,124
\$/PS Average	1.884147	1.817692	1.843014
\$/Box Average	8.395907	8.626136	8.534964
<u>2005-06</u>	0.450.075	0.457.440	5.040.704
Priced Boxes	2,159,375	3,157,416	5,316,791
\$/PS Average	2.343180	1.874818	2.059679
\$/Box Average	10.119715	8.492313	9.153270
<u>2006-07</u>			
Priced Boxes	2,298,216	2,841,651	5,139,867
\$/PS Average	0.694941	0.657774	0.673897
\$/Box Average	3.349633	3.346866	3.348103
<u>2007-08</u>			
Priced Boxes	3,919,432	3,876,471	7,795,903
\$/PS Average	0.576178	0.522523	0.548555
\$/Box Average	2.729923	2.656154	2.693242

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# Nielsen Retail OJ Sales, U.S.<sup>a,b</sup>

Dec- Nov	FCOJ			COJ R-T-S OJ (except canned)			Canned OJ			Total OJ		
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.
1972-73	425.0	524.1	1.23	100.3	176.1	1.76	27.1	42.7	1.58	552.4	742.9	1.34
1973-74	460.9	587.4	1.27	110.7	203.6	1.84	28.5	47.8	1.68	600.1	838.8	1.40
1974-75	498.6	687.2	1.38	132.5	250.0	1.89	28.2	53.1	1.88	659.2	990.3	1.50
1975-76	521.3	735.4	1.41	160.9	310.2	1.93	27.4	56.0	2.04	709.5	1,101.6	1.55
1976-77	497.3	849.4	1.71	188.9	411.5	2.18	28.7	65.5	2.28	714.9	1,326.4	1.86
1977-78	446.9	999.7	2.24	204.1	545.2	2.67	30.0	84.7	2.82	681.0	1,629.6	2.39
1978-79	457.1	1,097.0	2.40	223.4	655.1	2.93	28.2	90.3	3.20	708.6	1,842.3	2.60
1979-80	501.1	1,178.1	2.35	277.6	824.8	2.97	29.3	95.1	3.25	808.0	2,098.0	2.60
1980-81	491.7	1,341.9	2.73	289.0	964.8	3.34	27.2	98.4	3.62	807.9	2,405.1	2.98
1981-82	484.0	1,382.3	2.86	295.0	1,020.3	3.46	24.9	95.5	3.83	803.9	2,498.0	3.11
1982-83	493.7	1,380.7	2.80	345.8	1,156.2	3.34	23.1	90.7	3.93	862.6	2,627.6	3.05
1983-84	457.4	1,483.4	3.24	378.3	1,418.3	3.75	20.3	91.0	4.49	856.0	2,992.7	3.50
1984-85	425.9	1,502.3	3.53	373.4	1,511.8	4.05	18.0	87.8	4.89	817.2	3,102.0	3.80
1985-86	429.5	1,244.0	2.90	437.2	1,550.2	3.55	17.3	77.0	4.44	884.0	2,871.0	3.25
1986-87	393.9	1,166.3	2.96	447.6	1,626.1	3.63	16.6	73.8	4.45	858.1	2,866.2	3.34
1987-88	353.1	1,245.2	3.53	427.4	1,840.2	4.31	15.9	77.7	4.89	796.5	3,163.1	3.97

<sup>&</sup>lt;sup>a</sup>This data series is no longer available. For current data see pages 64-66. <sup>b</sup>Numbers may not calculate due to rounding.

Nielsen Retail OJ Sales in Grocery Stores > \$2 Million Annual Sales

Oct-Sept		Frozen			Refrigerated - NFC			Refrigerated - Recon			Total OJ <sup>a</sup>		
Season	Volume	Value	Priceb	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	
1988-89	321.9	1,046.3	3.25	105.4	524.8	4.98	313.4	1,164.3	3.72	755.2	2,811.8	3.72	
1989-90	286.9	1,044.3	3.64	112.6	618.7	5.50	288.1	1,201.6	4.17	701.9	2,944.6	4.20	
1990-91	305.4	944.6	3.09	125.7	652.9	5.20	309.7	1,177.8	3.80	754.2	2,848.0	3.78	
1991-92	290.1	897.9	3.10	140.6	735.5	5.23	305.7	1,170.1	3.83	749.9	2,874.4	3.83	
1992-93	287.3	777.7	2.71	175.4	833.7	4.75	332.6	1,067.4	3.21	807.9	2,742.1	3.39	
1993-94	263.6	720.3	2.73	191.6	882.3	4.60	336.2	1,071.3	3.19	803.8	2,732.6	3.40	
1994-95	243.3	660.8	2.72	207.5	965.5	4.65	345.0	1,090.3	3.16	806.7	2,768.6	3.43	
1995-96	218.8	635.9	2.91	216.4	1,031.2	4.76	344.3	1,159.6	3.37	789.9	2,877.1	3.64	
1996-97	197.1	594.2	3.01	223.8	1,098.4	4.91	365.8	1,289.2	3.52	796.4	3,030.3	3.80	
1997-98	179.4	518.8	2.89	260.9	1,240.7	4.76	369.6	1,277.0	3.46	818.9	3,082.6	3.76	
1998-99	154.7	487.8	3.15	286.4	1,488.7	5.20	344.5	1,320.4	3.83	794.4	3,344.1	4.21	
1999-00	139.6	455.9	3.26	293.8	1,602.1	5.45	366.9	1,429.8	3.90	808.5	3,532.2	4.37	

Continued on next page . . .

# Nielsen Retail OJ Sales in Grocery Stores > \$2 Million Annual Sales

Oct-Sept		Frozen		Refri	gerated - N	IFC	Refrige	rated - F	Recon	Т	Total OJ <sup>a</sup>		
Season	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	
2000-01	122.9	397.5	3.24	320.0	1,727.1	5.40	356.2	1,397.0	3.92	806.4	3,561.6	4.42	
2001-02	100.2	328.9	3.28	335.1	1,770.9	5.28	322.9	1,255.8	3.89	766.7	3,401.3	4.44	
2002-03	81.7	279.2	3.42	342.3	1,780.4	5.20	293.8	1,139.3	3.88	725.2	3,238.8	4.47	
2003-04	66.6	226.2	3.40	339.6	1,736.2	5.11	266.8	1,004.1	3.76	679.5	3,002.0	4.42	
2004-05	57.4	194.5	3.39	321.7	1,712.5	5.32	266.8	996.4	3.73	651.6	2,934.9	4.50	
2005-06	49.9	177.9	3.57	316.3	1,736.7	5.49	228.8	920.6	4.02	598.7	2,854.1	4.77	
2006-07	43.1	193.5	4.49	277.1	1,821.4	6.57	186.2	939.7	5.05	508.9	2,971.8	5.84	
2007-08	39.1	188.1	4.81	266.2	1,809.8	6.80	174.1	883.8	5.08	481.8	2,901.0	6.02	
2008-09													

<sup>&</sup>lt;sup>a</sup>Total includes shelf stable product not listed separately in this table.

<sup>&</sup>lt;sup>b</sup>Reflects actual price paid after discounts (coupons, sales, etc.).

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#### Nielsen Retail OJ Sales in All-Outlet Stores<sup>a</sup>

Oct-Sept		Frozen		Refriç	gerated - N	NFC	Refrige	rated - I	Recon	Total OJ		
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.
1996-97	204.2	615.0	3.01	220.0	1,088.4	4.95	398.2	1,415.8	3.56	832.3	3,169.3	3.81
1997-98	187.6	541.1	2.88	260.3	1,249.3	4.80	407.4	1,416.5	3.48	864.7	3,254.9	3.76
1998-99	165.0	517.2	3.13	287.0	1,508.5	5.26	391.2	1,500.6	3.84	852.6	3,576.4	4.19
1999-00	149.3	479.8	3.21	311.4	1,671.9	5.37	403.4	1,582.9	3.92	872.5	3,780.3	4.33
2000-01	135.5	429.6	3.17	346.4	1,835.4	5.30	398.8	1,578.8	3.96	888.7	3,886.6	4.37
2001-02	112.9	363.7	3.22	363.3	1,906.7	5.25	375.9	1,458.2	3.88	861.2	3,777.7	4.39
2002-03	95.3	317.3	3.33	379.8	1,960.2	5.16	352.8	1,355.0	3.84	836.4	3,677.2	4.40
2003-04	79.4	263.4	3.32	389.6	1,973.6	5.07	330.6	1,225.8	3.71	807.0	3,501.8	4.34
2004-05	69.6	229.2	3.29	373.3	1,962.8	5.26	345.6	1,277.7	3.70	795.1	3,506.0	4.41
2005-06	60.9	211.8	3.48	372.0	2,026.6	5.45	306.5	1,221.4	3.98	745.3	3,494.6	4.69
2006-07	54.5	237.9	4.37	332.5	2,159.4	6.49	257.1	1,278.3	4.97	649.9	3,711.8	5.71
2007-08	49.2	230.0	4.68	323.7	2,179.5	6.73	244.6	1,233.1	5.04	623.2	3,680.5	5.91
2008-09												

<sup>&</sup>lt;sup>a</sup>Data include supercenter sales through 11/24/01 and Wal-Mart sales estimates thereafter.

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## Nielsen Retail GJ Sales, U.S. a,b

Dec-Nov Season		FCGJ			R-T-S GJ (except canned)			Canned GJ			Total GJ		
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	
1976-77	10.9	18.7	1.72	21.4	52.6	2.46	64.1	125.0	1.95	96.4	196.3	2.04	
1977-78	12.2	23.7	1.94	25.2	69.4	2.75	68.3	142.0	2.08	105.7	235.1	2.22	
1978-79	14.1	28.6	2.03	29.0	85.7	2.96	61.2	146.7	2.40	104.3	261.1	2.50	
1979-80	13.7	32.4	2.36	29.9	101.5	3.39	53.0	151.2	2.85	96.6	285.1	2.95	
1980-81	14.0	36.5	2.61	29.8	113.6	3.81	47.7	148.9	3.12	91.5	299.1	3.27	
1981-82	13.5	35.3	2.61	27.8	113.0	4.06	49.4	142.2	2.88	90.7	290.4	3.20	
1982-83	13.9	32.0	2.30	28.3	112.8	3.99	47.4	129.4	2.73	89.6	274.1	3.06	
1983-84	13.2	32.4	2.45	28.5	117.9	4.14	39.8	128.7	3.23	81.5	278.9	3.42	
1984-85	14.0	37.6	2.69	34.2	150.4	4.40	42.4	151.8	3.58	90.6	339.8	3.75	
1985-86	12.3	35.8	2.90	36.6	163.0	4.45	36.0	134.4	3.73	85.0	333.2	3.92	
1986-87	10.9	34.1	3.13	37.0	174.3	4.71	30.2	118.7	3.93	78.1	327.1	4.19	
1987-88	9.7	33.1	3.41	35.5	175.4	4.94	26.7	109.9	4.12	71.9	318.4	4.43	

<sup>&</sup>lt;sup>a</sup>This data series is no longer available. For current data see pages 68-70. <sup>b</sup>Numbers may not calculate due to rounding.

Nielsen Retail GJ Sales in Grocery Stores >\$2 Million Annual Sales a

Oct-Sept		Frozen		Cartor	n/Plastic/	Glass	Canned/Aseptic			Total GJ		
Season	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.
1988-89	8.8	28.8	3.29	28.3	126.4	4.46	21.8	79.3	3.64	59.0	234.9	3.98
1989-90	7.8	27.2	3.49	26.4	126.5	4.80	19.3	71.4	3.70	53.6	225.6	4.21
1990-91	7.3	24.9	3.39	27.9	135.6	4.87	18.9	69.2	3.67	54.2	230.2	4.25
1991-92	6.7	23.0	3.44	26.8	135.1	5.04	17.3	63.8	3.69	50.9	222.3	4.37
1992-93	5.9	19.9	3.36	27.1	134.1	4.96	13.7	53.3	3.90	46.8	207.6	4.44
1993-94	5.4	17.6	3.23	29.3	140.6	4.80	12.9	47.9	3.72	47.7	206.2	4.32
1994-95	5.0	15.5	3.13	28.9	138.5	4.79	12.0	43.0	3.58	45.9	197.1	4.29
1995-96	4.8	14.5	3.05	28.5	140.3	4.91	12.0	41.8	3.47	45.3	196.6	4.34
1996-97	4.5	13.7	3.07	30.5	150.3	4.93	11.6	40.1	3.46	46.6	204.2	4.38
1997-98	4.2	12.9	3.05	35.2	170.3	4.84	13.5	47.2	3.49	53.0	230.4	4.35
1998-99	4.0	12.2	3.07	38.0	193.8	5.11	12.3	45.6	3.70	54.3	251.7	4.64
1999-00	2.6	9.0	3.42	35.5	192.4	5.42	8.6	36.5	4.27	46.6	237.8	5.10

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Nielsen Retail GJ Sales in Grocery Stores >\$2 Million Annual Sales a

Oct-Sept	F	rozen		Carton/Plastic/Glass			Canned/Aseptic			Total GJ		
Season	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.
2000-01	2.3	8.2	3.59	31.5	173.9	5.52	6.6	30.3	4.58	40.5	212.5	5.25
2001-02	2.1	7.4	3.45	26.9	146.8	5.45	5.7	25.9	4.54	34.8	180.1	5.18
2002-03	1.6	5.9	3.60	25.1	132.3	5.26	5.1	23.1	4.49	31.9	161.2	5.05
2003-04	1.3	4.5	3.61	22.8	117.2	5.15	4.1	18.7	4.55	28.1	140.4	4.99
2004-05	1.1	3.8	3.57	15.6	97.8	6.27	3.0	16.3	5.39	19.7	117.9	5.99
2005-06	.6	2.5	4.07	13.2	90.3	6.83	2.2	13.3	5.96	16.0	106.0	6.61
2006-07	.4	1.9	4.71	13.6	92.3	6.77	1.9	11.3	6.10	15.9	105.5	6.64
2007-08	.4	1.9	4.85	15.5	105.6	6.83	1.7	10.2	5.95	17.6	117.7	6.70
2008-09												

<sup>&</sup>lt;sup>a</sup>Numbers may not calculate due to rounding.

<sup>&</sup>lt;sup>b</sup>Reflects actual price paid after discounts (coupons, sales, etc.).

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### Nielsen Retail GJ Sales in All-Outlet Stores

Oct-Sept		Frozen		R	R-T-S - NFC			R-T-S - Recon			Total GJ		
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	
1996-97	4.6	14.0	3.02	17.8	89.3	5.03	27.3 <sup>b</sup>	112.7 <sup>b</sup>	4.13 <sup>b</sup>	49.7	216.0	4.35	
1997-98	4.5	13.4	2.99	21.2	104.3	4.93	31.8 <sup>b</sup>	128.4 <sup>b</sup>	4.04 <sup>b</sup>	57.4	246.1	4.29	
1998-99	4.3	12.9	3.01	23.0	125.8	5.48	32.3 <sup>b</sup>	132.4 <sup>b</sup>	4.10 <sup>b</sup>	59.5	271.2	4.56	
1999-00	3.0	10.0	3.29	22.2	125.0	5.64	26.6 <sup>b</sup>	119.4 <sup>b</sup>	4.50 <sup>b</sup>	51.8	254.4	4.91	
2000-01	2.5	8.8	3.51	20.4	114.7	5.63	23.4	111.2	4.76	46.3	234.8	5.08	
2001-02	2.4	8.1	3.35	18.8	104.0	5.53	18.6	86.7	4.66	39.9	198.8	4.98	
2002-03	1.8	6.4	3.48	17.9	94.1	5.26	17.1	78.8	4.60	36.8	179.4	4.87	
2003-04	1.4	4.9	3.46	17.4	88.8	5.11	14.7	65.0	4.43	33.5	158.7	4.74	
2004-05	1.4	4.7	3.28	11.4	72.7	6.36	11.0	59.5	5.43	23.8	136.9	5.75	
2005-06	1.3	4.2	3.37	9.1	64.1	7.03	10.0	59.0	5.90	20.4	127.4	6.25	
2006-07	.9	3.6	4.03	9.5	66.4	6.96	9.4	54.9	5.85	19.8	124.9	6.30	
2007-08	.9	3.7	4.14	12.6	87.0	6.92	8.3	49.2	5.92	21.8	139.9	6.42	
2008-09													

<sup>&</sup>lt;sup>a</sup>Data include supercenter sales through 03/18/00 and Wal-Mart sales estimates thereafter.

<sup>&</sup>lt;sup>b</sup>Includes unidentified GJ.

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# Nielsen Retail GJ and GJ Cocktail Sales in Grocery Stores >\$2 Million Annual Sales

Oct-Sept		T-S - NF	С	R-T-S - Recon			Total GJ			GJ Cocktail		
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price
	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.	mil. SSE gals.	mil. \$	\$/gal.
1997-98	20.6	101.8	4.94	28.1 <sup>a</sup>	115.7ª	4.11 <sup>a</sup>	53.0	230.4	4.35	21.2	107.6	5.08
1998-99	22.1	120.4	5.46	28.2ª	119.1ª	4.22 <sup>a</sup>	54.3	251.7	4.64	21.3	107.8	5.06
1999-00	20.7	118.2	5.70	23.3 <sup>a</sup>	110.7ª	4.75 <sup>a</sup>	46.6	237.8	5.10	15.8	78.5	4.97
2000-01	19.2	109.2	5.70	19.0	95.0	5.01	40.5	212.5	5.25	14.1	70.6	5.00
2001-02	18.2	101.3	5.56	14.4	71.5	4.96	34.8	180.1	5.18	12.4	63.2	5.11
2002-03	17.1	90.2	5.29	13.2	65.1	4.93	31.9	161.2	5.05	10.4	54.2	5.20
2003-04	15.7	81.0	5.16	11.2	54.9	4.90	28.1	140.4	4.99	9.6	50.3	5.26
2004-05	9.5	62.1	6.54	9.1	52.1	5.69	19.7	117.9	5.99	8.5	45.3	5.32
2005-06	7.9	57.2	7.24	7.5	46.3	6.15	16.0	106.0	6.61	7.6	41.5	5.47
2006-07	8.2	59.5	7.22	7.2	44.1	6.09	15.9	105.5	6.64	7.3	41.1	5.65
2007-08	10.7	76.1	7.13	6.5	39.8	6.10	17.6	117.7	6.70	6.8	39.3	5.78
2008-09												

<sup>&</sup>lt;sup>a</sup>Includes unidentified GJ.

#### Total OJ Market Ranking Over \$2MM Grocers - 2007-08 Season

Rank	Market	Mil Gal	Rank	Market	Mil Gal
	TOTAL U.S	479.354			
1	New York	39.743	27	Richmond/Norfolk	5.855
2	Los Angeles	24.569	28	Orlando	5.580
3	Boston	21.908	29	Salt Lake City/Boise	5.527
4	Philadelphia	18.896	30	St. Louis	5.220
5	Chicago	15.696	31	San Diego	4.891
6	Washington DC	14.173	32	Indianapolis	4.848
7	Miami	13.284	33	Milwaukee	4.654
8	Detroit	11.164	34	Sacramento	4.631
9	San Francisco	10.595	35	Grand Rapids	4.471
10	Tampa	9.606	36	Albany	4.312
11	Atlanta	9.449	37	Syracuse	4.102
12	Houston	8.755	38	Columbus	4.042
13	Phoenix	8.691	39	Charlotte	3.976
14	Seattle	7.853	40	New Orleans/Mobile	3.933
15	Cleveland	7.851	41	Nashville	3.875
16	San Antonio	7.849	42	Louisville	3.595
17	Minneapolis	7.376	43	Kansas City	3.593
18	Denver	7.130	44	Oklahoma City/Tulsa	3.286
19	Hartford/New Haven	6.973	45	Birmingham	3.096
20	Dallas/Ft. Worth	6.972	46	Jacksonville	2.758
21	Pittsburgh	6.836	47	Las Vegas	2.624
22	Raleigh/Durham	6.361	48	Memphis	2.554
23	Buffalo/Rochester	6.298	49	Omaha	2.319
24	Cincinnati	6.221	50	West Texas	1.910
25	Baltimore	6.213	51	Little Rock	1.815
26	Portland	6.089	52	Des Moines	1.746
				REMAINING U.S	83.594

#### Total GJ Market Ranking Over \$2MM Grocers - 2007-08 Season

Rank	Market	Mil Gal	Rank	Market	Mil Gal
	TOTAL U.S	17.467			
1	New York	1.483	27	Buffalo/Rochester	0.181
2	Miami	0.980	28	Pittsburgh	0.178
3	Los Angeles	0.845	29	San Diego	0.174
4	Boston	0.717	30	Cincinnati	0.169
5	Tampa	0.552	31	Sacramento	0.169
6	Philadelphia	0.552	32	Salt Lake City/Boise	0.162
7	Washington	0.501	33	Charlotte	0.159
8	Chicago	0.482	34	New Orleans/Mobile	0.156
9	Atlanta	0.469	35	Nashville	0.151
10	San Francisco	0.438	36	Indianapolis	0.142
11	Houston	0.344	37	Albany	0.137
12	Phoenix	0.339	38	St. Louis	0.133
13	Seattle	0.338	39	Birmingham	0.130
14	Detroit	0.320	40	Kansas City	0.123
15	Orlando	0.319	41	Columbus	0.122
16	San Antonio	0.310	42	Syracuse	0.122
17	Dallas/Ft. Worth	0.295	43	Oklahoma City/Tulsa	0.117
18	Portland	0.291	44	Las Vegas	0.117
19	Denver	0.288	45	Grand Rapids	0.116
20	Cleveland	0.249	46	Milwaukee	0.111
21	Raleigh/Durham	0.223	47	Louisville	0.109
22	Minneapolis	0.222	48	Memphis	0.094
23	Richmond/Norfolk	0.205	49	West Texas	0.080
24	Hartford/New Haven	0.195	50	Little Rock	0.064
25	Baltimore	0.192	51	Omaha	0.052
26	Jacksonville	0.184	52	Des Moines	0.046
				REMAINING U.S	2.820

OJ Buyer Demographics Gallons Per Buying Household

	12/31/00-	10/28/01-	10/27/02-	10/26/03-	11/21/04-	10/30/05-	10/29/06-
Demographic	12/29/01				11/19/05		
				gallons -			
<u>AGE</u>							
Under 35	7.67	7.51	7.26	7.27	7.07	6.10	5.42
35 to 44	8.86	8.69	8.41	8.21	7.44	7.03	6.06
45 to 54	9.27	8.78	8.38	8.47	7.61	7.29	6.32
55 to 64	9.43	8.93	8.62	8.45	7.76	7.33	6.70
65 and Over	9.89	9.84	9.80	9.62	8.95	8.23	7.42
HH SIZE							
1 Member	7.29	7.05	7.26	6.88	6.32	6.06	5.31
2 Members	9.14	8.88	8.34	8.30	7.66	7.07	6.64
3 to 4 Members	9.48	9.10	9.00	8.85	8.23	7.57	6.55
5 or More	10.93	10.66	10.58	10.13	9.23	8.52	6.99
INCOME							
Under \$20,000	7.19	6.87	7.18	6.94	6.36	5.80	5.09
\$20,000-29,999	8.25	7.96	7.77	8.04	7.25	6.45	5.90
\$30,000-39,999	8.87	8.83	8.08	8.41	7.94	6.80	6.05
\$40,000-49,999	9.33	9.11	8.98	8.31	7.53	7.16	6.11
\$50,000-69,999	9.55	9.20	9.21	8.97	8.08	7.44	6.55
\$70,000+	10.81	10.15	9.88	9.44	8.93	8.05	
\$70,000-99,999							6.89
\$100,000+							7.25
KIDS							
None Under 18	8.75	8.50	8.37	8.14	7.52	6.98	6.29
Under 18	9.54	9.22	8.94	8.79	8.08	7.50	6.47

OJ Buyer Demographics Household Penetration (% Buying)

<b>D</b>	12/31/00-	10/28/01-	10/27/02-	10/26/03-	11/21/04-	10/30/05-	10/29/06-
Demographic	12/29/01	10/26/02	10/25/03	10/23/04	11/19/05	10/28/06	10/27/07
				%			
<u>AGE</u>							
Under 35	83.40	83.42	84.25	82.85	79.91	78.99	76.47
35 to 44	82.66	83.43	81.62	81.94	80.05	80.13	75.17
45 to 54	82.74	81.91	81.36	78.92	76.82	77.48	71.27
55 to 64	82.54	80.68	79.66	78.59	76.60	74.63	70.29
65 and Over	83.81	81.43	81.08	79.74	79.80	76.20	72.07
HH SIZE							
1 Member	72.59	70.46	69.40	67.18	66.04	64.20	59.20
2 Members	82.36	81.33	80.79	79.58	77.40	75.80	71.65
3 to 4 Members	85.16	84.81	84.80	83.77	82.14	81.81	77.02
5 or More	85.89	87.86	86.79	85.48	84.41	82.37	79.06
<u>INCOME</u>							
Under \$20,000	73.84	72.45	71.33	70.62	69.20	68.20	61.06
\$20,000-29,999	78.85	78.66	75.30	76.54	73.88	70.61	66.34
\$30,000-39,999	79.75	78.68	80.04	77.52	77.25	74.66	69.24
\$40,000-49,999	82.57	81.50	82.04	80.75	78.30	74.60	71.53
\$50,000-69,999	86.04	84.34	84.29	81.57	79.71	77.49	73.41
\$70,000+	86.54	85.73	85.95	83.68	82.34	80.19	
\$70,000-99,999							75.38
\$100,000+							77.31
<u>KIDS</u>							
None Under 18	79.24	77.85	76.78	75.40	73.67	71.52	67.30
Under 18	84.77	85.24	85.45	83.94	82.25	82.17	77.37

GJ Buyer Demographics Gallons Per Buying Household

	12/31/00-	10/28/01-	10/27/02-	10/26/03-	11/21/04-	10/30/05-	10/29/06-
Demographic	12/29/01	10/26/02	10/25/03	10/23/04	11/19/05	10/28/06	10/27/07
				gallons -			
<u>AGE</u>							
Under 35	1.95	1.64	1.55	2.11	1.86	1.32	1.35
35 to 44	2.16	2.14	2.34	2.01	1.86	1.84	1.90
45 to 54	3.08	2.85	2.82	2.52	1.80	2.27	1.72
55 to 64	2.77	2.55	2.55	2.38	2.26	2.34	2.04
65 and Over	2.43	2.81	2.56	2.56	2.58	2.52	2.39
HH SIZE							
1 Member	2.51	2.82	2.35	2.56	2.20	2.31	2.20
2 Members	2.91	2.99	2.96	2.77	2.31	2.50	2.17
3 to 4 Members	2.76	2.43	2.24	2.29	2.11	1.92	1.85
5 or More	2.14	2.15	1.94	1.82	1.51	1.36	1.17
<u>INCOME</u>							
<b>Under \$20,000</b>	2.22	2.05	2.06	2.16	1.53	1.60	1.39
\$20,000-29,999	2.48	2.86	1.93	2.12	2.12	1.70	1.73
\$30,000-39,999	2.66	2.26	2.24	2.53	1.95	1.56	1.52
\$40,000-49,999	2.57	2.97	2.25	2.29	1.84	2.44	1.73
\$50,000-69,999	2.90	3.21	3.31	2.90	2.72	2.43	2.27
\$70,000+	3.07	2.74	2.76	2.66	2.47	2.50	
\$70,000-99,999							2.32
\$100,000+							2.30
<u>KIDS</u>							
None Under 18	2.87	3.00	2.69	2.62	2.27	2.38	2.19
Under 18	2.30	2.04	2.02	2.13	1.88	1.73	1.54

GJ Buyer Demographics Household Penetration (% Buying)

Domographic	12/31/00-	10/28/01-	10/27/02-	10/26/03-	11/21/04-	10/30/05-	10/29/06-
Demographic	12/29/01	10/26/02	10/25/03	10/23/04	11/19/05	10/28/06	10/27/07
				%			
<u>AGE</u>							
Under 35	13.40	9.95	11.58	9.41	7.36	6.41	6.78
35 to 44	15.81	13.55	12.30	11.33	8.22	8.32	7.78
45 to 54	19.41	15.78	13.41	11.79	8.94	8.61	8.72
55 to 64	19.25	14.47	12.76	12.45	8.58	8.34	8.75
65 and Over	15.46	11.47	10.30	9.56	6.96	6.66	6.13
HH SIZE							
1 Member	15.55	11.89	11.32	10.75	7.18	6.16	6.91
2 Members	17.99	14.27	12.32	11.45	8.73	8.26	8.46
3 to 4 Members	16.47	13.53	12.57	11.17	8.38	7.88	7.49
5 or More	16.19	11.71	12.85	10.20	7.66	8.28	8.22
<u>INCOME</u>							
Under \$20,000	13.26	11.74	10.51	10.27	7.25	6.54	6.62
\$20,000-29,999	15.66	12.15	11.27	9.82	7.22	7.07	6.84
\$30,000-39,999	15.85	12.13	11.42	10.03	8.38	7.80	7.46
\$40,000-49,999	16.29	13.05	12.29	11.79	8.37	7.40	7.33
\$50,000-69,999	19.05	13.86	12.26	12.14	8.25	7.29	7.78
\$70,000+	20.11	15.24	15.15	12.34	9.24	8.47	
\$70,000-99,999							8.16
\$100,000+							9.34
<u>KIDS</u>							
None Under 18	17.38	13.59	12.28	11.48	8.22	7.50	7.80
Under 18	15.41	12.32	12.02	10.18	7.89	7.76	7.61

**U.S. Per Capita Beverage Consumption** 

		Bottled	Soft		Selected Fruit Juices				
Year	Milk	Water	Drinks	OJ	GJ	Apple	Grape	TOTAL <sup>a</sup>	
				- gallo	ns				
1970	31.3	NA	NA	3.7	.6	.5	.2	5.5	
1975	29.5	NA	NA	4.7	.7	.6	.2	6.7	
1980	27.6	2.7	33.6	5.0	.6	1.1	.3	7.4	
1985	26.7	5.1	41.2	4.8	.6	1.5	.2	7.7	
1990	25.7	8.8	47.1	3.3	.9	1.7	.3	7.0	
1995	23.9	11.6	50.6	4.7	.6	1.6	.5	8.1	
1996	23.8	12.4	51.6	5.3	.6	1.7	.4	8.6	
1997	23.4	13.4	52.7	5.2	.6	1.5	.4	8.4	
1998	23.0	14.4	53.8	5.8	.6	1.8	.3	9.1	
1999	22.9	15.8	53.5	5.5	.6	1.8	.4	9.0	
2000	22.5	16.8	53.2	5.5	.5	1.8	.3	8.9	
2001	22.0	18.2	52.9	5.8	.5	1.8	.3	9.2	
2002	21.9	20.1	52.8	4.7	.5	1.8	.4	8.1	
2003	21.6	21.6	52.6	5.1	.4	1.9	.4	8.6	
2004	21.3	23.2	52.5	5.1	.4	2.1	.4	8.7	
2005	21.0	25.5	51.7	5.0	.2	1.9	.5	8.3	
2006	21.0	27.7	50.6	4.6	.2	2.2	.4	8.2	
2007	20.7	29.1	48.8	4.4	.3	2.3	.6	8.2	
2008									

<sup>a</sup>Includes lemon, lime, pineapple, cranberry & prune juice.

SOURCE: USDA-ERS.

### **Nutrition Values of Citrus**

ITEM	REFER- ENCE		JU	ICE				FRI	ESH			
I I EIVI	VALUE	ORA	NGE	GRAPI	GRAPEFRUIT		NGES	GRAPE	FRUIT	TANGERINES		
SERVING SIZE	1 cup / 8-oz.				154g / 1 med. fruit		154g / ½ med. fruit		109g / 1 med. fruit			
-				Ar	nount P	er Serv	ing (% <i>l</i>	Daily Va	lue)			
Calories	2000	110		90		70		60		50		
Calories from Fat	NA	0		0		0		0		0		
Cholesterol	<300 mg	0		0		0		0		0		
Total Fat	65 g	0		0		0		0		0		
Saturated Fat	20 g	0		0		0		0		0		
Sodium	<2400 mg	0		0		0		0		0		
Potassium	3500 mg	450	(13%)	300	(9%)	260	(7%)	230	(7%)	180	(5%)	
<b>Total Carbohydrates</b>	300 g	26	(9%)	22	(7%)	21	(7%)	16	(5%)	15	(5%)	
Sugar	NA g	22		20		14		10		8		
Protein	50 g	2		1		1		1		1		
Dietary Fiber	25 g	0	(0%)	0	(0%)	7	(28%)	6	(24%)	3	(12%)	
Folate	400 mcg	60	(15%)	24	(6%)	40	(10%)	16	(4%)	8	(2%)	
Vitamin A	5000 IU	0	(0%)	0	(0%)	100	(2%)			750	(15%)	
				600	(12%) <sup>a</sup>			750	$(15\%)^1$			
Vitamin C	60 mg	72	(120%)	60	(100%)	78	(130%)	66	(110%)	30	(50%)	
Calcium	1000 mg	20	(2%)	20	(2%)	60	(6%)	20	(2%)	40	(4%)	
Thiamin	1.5 mg	.15	(10%)	.09	(6%)	.15	(10%)	.06	(4%)	.12	(8%)	
Magnesium	400 mg	24	(6%)	24	(6%)	16	(4%)	16	(4%)	16	(4%)	

SOURCES: Daily Values are based on a 2000 calorie diet for moderately active adults. FDA National Fact (61 FR at 42761) 5/21/96; FDOC Scientific Research (04/11/05). Colored varieties.

U.S. Grade A Frozen Concentrated Juice Standards

Scoring Factors	Orange	Grapefruit
Color	Minimum 36 points, but OJ 5 color tube	Minimum 18 points
Defects	Minimum 18 points	Minimum 18 points
Flavor	Minimum 36 points	Minimum 54 points
Minimum Total Score	90 points <sup>a</sup>	90 points <sup>a</sup>
OTHER FACTORS		
Ratio	12.5:1 to 19.5:1	9.0:1 to 14.0:1
Concentrate Brix	Minimum 41.8°	Minimum 38.0°
Reconstituted Brix	Minimum 11.8°	Minimum 10.6°
Sinking Pulp	No requirement	Maximum 10%
Recoverable Oil	Maximum 0.035%	Maximum 0.020%
Gel Test	No requirement	No requirement
Washed Pulp Solids	In-line permitted	Not permitted

<sup>&</sup>lt;sup>a</sup>The lowest score of any <u>one</u> factor (color, defects or flavor) determines the grade even though the total score for the product places it in a higher grade. Florida requires that FCOJ scored Grade B must have a Grade A Flavor.

U.S. Grade A
Concentrated Juice for Manufacturing
Standards

Scoring Factors	Orange	Grapefruit
Color	Minimum 36 points, but OJ 6 color tube	Minimum 18 points
Defects	Minimum 18 points	Minimum 18 points
Flavor	Minimum 36 points	Minimum 54 points
Minimum Total Score	90 points	90 points
OTHER FACTORS		
Ratio	8:1 to 24:1	Minimum 6.0:1
Concentrate Brix	Minimum 20°	
Reconstituted Brix	Minimum 11.8°	
Sinking Pulp	No requirement	Maximum 10%
Recoverable Oil	No requirement	No requirement
Gel Test	No requirement	No requirement
Washed Pulp Solids	In-line permitted	Not permitted

U.S. Grade A

Juice from Concentrate Standards

Scoring Factors	Orange	Grapefruit
Color	Minimum 36 points, but OJ 5 color tube	Minimum 18 points
Defects	Minimum 18 points	Minimum 18 points
Flavor	Minimum 36 points	Minimum 54 points
Minimum Total Score	90 points	90 points
OTHER FACTORS		
Ratio	12:5 to 20.5:1	8.0:1 to 14.0:1
°Brix	Minimum 11.8°	Minimum 10.0°
Sinking Pulp	No requirement	Maximum 10%
Recoverable Oil	Maximum 0.035%	Maximum 0.020%
Washed Pulp Solids	In-line permitted	Not permitted

U.S. Grade A Juice Standards

Scoring Factors	Pasteurized Orange	Grapefruit
Color	Minimum 36 points	Minimum 18 points
Defects	Minimum 18 points	Minimum 18 points
Flavor	Minimum 36 points	Minimum 54 points
Minimum Total Score	90 points	90 points
OTHER FACTORS		
Ratio	12:5 to 20.5:1	8.0:1 to 14.0:1
°Brix	Minimum 11.0°	Minimum 9.0°
Sinking Pulp	No requirement	Maximum 10%
Recoverable Oil	Maximum 0.035%	Maximum 0.020%
Washed Pulp Solids	Not permitted	Not permitted

### Florida Orange Standards

Minimum Total	Solids to Acid	Minimum Total	Solids to Acid
Solids (%)	Minimum Ratio	Solids (%)	Minimum Ratio
<sup>a</sup> 8.0 to (not incl) 8.1	— 10.50 to 1	9.6 to (not incl) 9.7	— 9.70 to 1
8.1 to " 8.2	— 10.45 to 1	9.7 to " 9.8	— 9.65 to 1
8.2 to " 8.3	— 10.40 to 1	9.8 to " 9.9	— 9.60 to 1
8.3 to " 8.4	— 10.35 to 1	9.9 to " 10.0	- 9.55 to 1
8.4 to " 8.5	— 10.30 to 1	10.0 to " 10.1	- 9.50 to 1
<sup>b</sup> 8.5 to " 8.6	— 10.25 to 1	10.1 to " 10.2	- 9.45 to 1
8.6 to " 8.7	— 10.20 to 1	10.2 to " 10.3	- 9.40 to 1
°8.7 to " 8.8	- 10.15 to 1	10.3 to " 10.4	- 9.35 to 1
8.8 to " 8.9	— 10.10 to 1	10.4 to " 10.5	- 9.30 to 1
8.9 to " 9.0	— 10.05 to 1	10.5 to " 10.6	- 9.25 to 1
<sup>d</sup> 9.0 to " 9.1	— 10.00 to 1	10.6 to " 10.7	- 9.20 to 1
9.1 to " 9.2	- 9.95 to 1	10.7 to " 10.8	- 9.15 to 1
9.2 to " 9.3	- 9.90 to 1	10.8 to " 10.9	- 9.10 to 1
9.3 to " 9.4	- 9.85 to 1	10.9 to " 11.0	- 9.05 to 1
9.4 to " 9.5	- 9.80 to 1	11.0 and above	— 9.00 to 1°
9.5 to " 9.6	- 9.75 to 1	3.	

NEW VARIETIES: Ambersweet (orange), Sunburst & Falglo (tangerines) Not exempt. (Page, Osceola, Lee, Robinson, Dancy, K-Early, Ortanique and Pummelo exempt from inspection.)

NOTE 1: Until December 1 of each year, all oranges for processing must meet fresh fruit requirements unless otherwise noted. From December 1 thru July 31, no juice content, minimum acid or color break requirements for processed fruit. Apply minimum solids and ratio requirements as indicated in table.

NOTE 2: For color break requirements and individual fruit testing, see Citrus Fruit Laws.

SOURCE: FDACS.

<sup>&</sup>lt;sup>a</sup>Minimum solids for processing December 1 thru July 31.

<sup>&</sup>lt;sup>b</sup>Minimum solids for oranges fresh November 16 thru July 31, and processing November 16 thru November 30.

<sup>&</sup>lt;sup>c</sup>Minimum solids for oranges November 1 thru November 15.

<sup>&</sup>lt;sup>d</sup>Minimun solids for oranges August 1 thru October 31.

<sup>°11.00</sup> and higher solids, minimum 9.00 to 1 ratio. Juice requirements 4½ gallons per box, minimum acid 0.40.

### Florida Grapefruit Standards

	Minimum Total Solids to Acid Solids (%) Minimum Ratio					Minimum Total				Solids to Acid Minimum Ratio		
Solids (%)	, ,				แบ		30	olids (%)		IVII	IIIIIIuIII	Ratio
*6.5 b7.0 c7.5		_	7.00 7.50	to to	1 1 <sup>e</sup>		to to	(not incl)	10.5 10.6	_	6.40 6.375	to 1 to 1
d <b>8.0</b>			8.00	to	1 <sup>f</sup>	10.6 1	to	"	10.7		6.35	to 1
8.1 to (not incl)	9.1		7.00	to	1		to	"	10.8		6.325	to 1
9.1 to "	9.2		6.95	to	1	10.8 1	to	"	10.9	_	6.30	to 1
9.2 to "	9.3		6.90	to	1	10.9 1	to	"	11.0		6.275	to 1
9.3 to "	9.4	_	6.85	to	1	11.0 1	to	"	11.1		6.25	to 1
9.4 to "	9.5	_	6.80	to	1	11.1 1	to	"	11.2		6.225	to 1
9.5 to "	9.6	_	6.75	to	1	11.2 1	to	"	11.3	_	6.20	to 1
9.6 to "	9.7	_	6.70	to	1	11.3 1	to	"	11.4	_	6.175	to 1
9.7 to "	9.8	_	6.65	to	1	11.4 1	to	"	11.5	_	6.15	to 1
9.8 to "	9.9	_	6.60	to	1	11.5 1	to	"	11.6		6.125	to 1
9.9 to "	10.0	_	6.55	to	1	11.6	to	"	11.7		6.10	to 1
10.0 to "	10.1	_	6.50	to	<b>1</b> <sup>g</sup>	11.7 1	to	"	11.8	_	6.075	to 1
10.1 to "	10.2	_	6.475	to	1	11.8 1	to	"	11.9	_	6.05	to 1
10.2 to "	10.3		6.45	to	1	11.9 1	to	"	12.0	_	6.025	to 1
10.3 to "	10.4		6.425	to	1	12.0	an	d above		_	6.00	to 1 <sup>h</sup>

<sup>&</sup>lt;sup>a</sup> Minimum solids all grapefruit for processing, Jan. 1 thru July 31.

NOTE 1: Until Dec. 1 of each year, all grapefruit for processing must meet fresh fruit requirements <u>unless otherwise noted</u>. From Dec. 1 thru July 31, no juice content, minimum acid or color break requirements for processed fruit. Apply minimum solids and ratio requirements as indicated in table.

NOTE 2: For color break requirements and individual fruit testing, see Citrus Fruit Laws.

SOURCE: FDACS.

<sup>&</sup>lt;sup>b</sup> Minimum solids seedless grapefruit fresh, Jan. 1 thru July 31. Minimum solids all grapefruit for processing, Dec. 1 thru Dec. 31.

<sup>&</sup>lt;sup>c</sup> Minimum solids seedy grapefruit fresh, Jan. 1 thru July 31. Minimum solids seedless grapefruit for processing, Aug. 1 thru Nov 30. Minimum solids seedless grapefruit fresh, Aug. 1, thru Dec. 31.

<sup>&</sup>lt;sup>d</sup> Minimun solids seedy grapefruit for processing, Aug. 1 thru Nov. 30. Minimum solids seedy grapefruit fresh, Aug. 1 thru Dec. 31.

e Minimum 7.50 ratio packinghouse eliminations for processing, Aug. 1 thru Jan 31. Less than 7.50 to 1 but meeting minimum maturity, beverage base only.

<sup>&</sup>lt;sup>f</sup> Minimum 8.00 ratio field run grapefruit for processing, Aug. 1 thru Jan. 31. Sections and eliminations thereof must meet minimum maturity.

<sup>&</sup>lt;sup>9</sup> Minimum 6.50 ratio for sectionizing, Jan. 1 thru April 14. Minimum 6.50 ratio for all grapefruit for processing, Feb. 1 thru April 14.

h Minimum 6.00 ratio for all grapefruit, April 15 thru July 31.

# Florida Grapefruit-Juice Requirements

D.O.C. 20-34.006

Weight/Weight Method: 4-1/4" in diameter or less requires a minimum 52% juice content. Greater than 4-1/4" in diameter requires a minimum 49% juice content.

Size	Aug. 1 thru Nov. 15	Nov. 16 thru March 1	March 2 thru July 31	Juice Content
	- % -			
14	400	380	360	49
18	350	335	320	49
23	305	290	275	49
27	275	265	250	49
32	245	230	220	52
36	230	220	210	52
40	210	200	190	52
48	185	180	170	52
56	170	165	155	52
64	165	160	150	52

**SOURCE: FDACS.** 

# Florida Temple Orange Standards

	Min	imum Tot	S	Solids to Acid					
	S	Solids (%)			Minimum Ratio				
a <b>9.</b> (	0 to	(not incl)	9.1			9.0	to	1	
	_	(HOU HICH)							
9.	1 to		9.2			8.9	to	1	
9.	2 to	"	9.3		—	8.8	to	1	
9.	3 to	"	9.4			8.7	to	1	
9.	4 to	"	9.5			8.6	to	1	
9.	5 to	"	9.6			8.5	to	1 <sup>b</sup>	
9.	6 to	"	9.7			8.4	to	1	
9.	7 to	"	9.8			8.3	to	1	
9.	8 to	"	9.9		_	8.2	to	1	
9.	9 to	"	10.0		_	8.1	to	1	
10.	0 to	"	10.1			8.0	to	1	
10.	1 to	"	10.2			7.9	to	1	
10.	2 to	"	10.3			7.8	to	1	
10.	3 to	"	10.4			7.7	to	1	
10.	4 to	"	10.5			7.6	to	1	
10.	5 an	d above				7.5	to	1 <sup>c</sup>	

<sup>&</sup>lt;sup>a</sup>Minimum solids for all Temples.

NOTE 1: Until December 1 of each year, all Temples for processing must meet fresh fruit requirements <u>unless otherwise noted</u>. From December 1 thru July 31, no juice content, minimum acid or color break requirements for processed fruit. Apply minimum solids and ratio requirements as indicated in tables.

NOTE 2: For color break requirements and individual fruit testing, see *Citrus Fruit Laws*. SOURCE: FDACS.

<sup>&</sup>lt;sup>b</sup>8.50 to 1 minimum ratio for fresh.

<sup>°7.50</sup> to 1 minimum ratio for processing.

# Florida Tangerine Standards<sup>a</sup> (November 15 through July 31)

(11010111201 10 till odgir odly or)											
Minimum Total Solids (%)							olids to Acid nimum Ratio				
<sup>b</sup> 8.75	to	(not incl)	9.1			8.75	to	1			
9.10	to	"	9.2			8.65	to	1			
9.20	to	"	9.3			8.55	to	1			
9.30	to	"	9.4			8.45	to	1			
9.40	to	"	9.5			8.35	to	1			
9.50	to	"	9.6			8.25	to	1			
9.60	to	"	9.7			8.15	to	1			
9.70	to	"	9.8			8.05	to	1			
9.80	to	"	9.9			7.95	to	1			
9.90	to	"	10.0			7.85	to	1			
10.00	to	"	10.1			7.75	to	1			
10.10	to	"	10.2			7.65	to	1			
10.20	to	"	10.3			7.55	to	1			
10.30	to	"	10.4			7.45	to	1			
10.40	to	""	10.5			7.35	to	1			
10.50	an	d above				7.25	to	1			

<sup>&</sup>lt;sup>a</sup>Murcotts fresh: maximum 1.00 acid any ratio, 1.01 acid and up minimum 12.00 to 1 ratio. Murcotts processed: minimum 10 to 1 ratio.

NOTE 1: Until December 1 of each year, all tangerines for processing must meet fresh fruit requirements <u>unless otherwise noted</u>. From December 1 thru July 31, no juice content, minimum acid or color break requirements for processed fruit. Apply minimum solids and ratio requirements as indicated in tables.

<u>NOTE 2</u>: For color break requirements and individual fruit testing, see *Citrus Fruit Laws*. SOURCE: FDACS.

<sup>&</sup>lt;sup>b</sup>Minimum solids November 15 thru July 31.

# Florida Tangerine Standards<sup>a</sup> (August 1 through November 14)

\(\frac{1}{1} \)											
		imum Tot olids (%)			lids to Acid nimum Ratio						
<sup>b</sup> 9.0	to	(not incl)	9.1	,		9.0	to	1			
9.1	to	` "	9.2			8.9	to	1			
9.2	to	"	9.3	ı		8.8	to	1			
9.3	to	"	9.4	ļ		8.7	to	1			
9.4	to	"	9.5	ļ		8.6	to	1			
9.5	to	"	9.6	ļ		8.5	to	1			
9.6	to	"	9.7	!		8.4	to	1			
9.7	to	"	9.8	!		8.3	to	1			
9.8	to	"	9.9	!		8.2	to	1			
9.9	to	"	10.0	!		8.1	to	1			
10.0	to	"	10.1	ļ		8.0	to	1			
10.1	to	"	10.2	!		7.9	to	1			
10.2	to	"	10.3	ļ		7.8	to	1			
10.3	to	"	10.4	ļ		7.7	to	1			
10.4	to	"	10.5	ļ		7.6	to	1			
10.5	an	d above				7.5	to	1			

<sup>&</sup>lt;sup>a</sup>Murcotts fresh: maximum 1.00 acid any ratio, 1.01 acid and up minimum 12.00 to 1 ratio. Murcotts processed: minimum 10 to 1 ratio.

<sup>&</sup>lt;sup>b</sup>Minimum solids August 1 thru November 14.

NOTE 1: Until December 1 of each year, all tangerines for processing must meet fresh fruit requirements <u>unless otherwise noted</u>. From December 1 thru July 31, no juice content, minimum acid or color break requirements for processed fruit. Apply minimum solids and ratio requirements as indicated in tables.

<sup>&</sup>lt;u>NOTE 2</u>: For color break requirements and individual fruit testing, see *Citrus Fruit Laws*. SOURCE: FDACS.

Florida Tangelo Standards<sup>a</sup>

	Minimum Total Solids (%)					Solids to Acid Minimum Ratio				Minimum Total Solids (%)				Solids to Acid Minimum Ratio			
0.8 <sup>d</sup>	to	(not incl)	8.1	_	10.50	to	1	10.1	to	(not incl)	10.2	_	9.45	to	1		
8.1	to	"	8.2	_	10.45	to	1	10.2	to	"	10.3	_	9.40	to	1		
8.2	to	"	8.3	_	10.40	to	1	10.3	to	"	10.4	_	9.35	to	1		
8.3	to	"	8.4	_	10.35	to	1	10.4	to	"	10.5	_	9.30	to	1		
8.4	to	"	8.5	_	10.30	to	1	10.5	to	"	10.6	_	9.25	to	1		
°8.5	to	"	8.6	_	10.25	to	1	10.6	to	"	10.7	_	9.20	to	1		
8.6	to	"	8.7	_	10.20	to	1	10.7	to	"	10.8	_	9.15	to	1		
8.7	to	"	8.8	_	10.15	to	1	10.8	to	"	10.9	_	9.10	to	1		
8.8	to	"	8.9	_	10.10	to	1	10.9	to	"	11.0	_	9.05	to	1		
8.9	to	"	9.0	_	10.05	to	1	11.0	to	"	11.1	_	9.00	to	1		
<sup>d</sup> 9.0	to	"	9.1	_	10.00	to	1	11.1	to	"	11.2	_	8.95	to	1		
9.1	to	"	9.2	_	9.95	to	1	11.2	to	"	11.3	_	8.90	to	1		
9.2	to	"	9.3	_	9.90	to	1	11.3	to	"	11.4	_	8.85	to	1		
9.3	to	"	9.4	_	9.85	to	1	11.4	to	"	11.5	_	8.80	to	1		
9.4	to	"	9.5	_	9.80	to	1	11.5	to	"	11.6	_	8.75	to	1		
°9.5	to	"	9.6	_	9.75	to	1	11.6	to	"	11.7	_	8.70	to	1		
9.6	to	"	9.7	_	9.70	to	1	11.7	to	"	11.8	_	8.65	to	1		
9.7	to	"	9.8	_	9.65	to	1	11.8	to	"	11.9	_	8.60	to	1		
9.8	to	"	9.9	_	9.60	to	1	<sup>f</sup> 11.9 and above				_	8.55	to	1		
9.9	to	"	10.0	_	9.55	to	1	g See	Belov	W		_	8.00	to	1		
10.0	to	"	10.1	_	9.50	to	1										

<sup>&</sup>lt;sup>a</sup>Minimum acid 0.40 Tangelo.

NOTE 2: For color break requirements and individual fruit testing, see *Citrus Fruit Laws*. SOURCE: FDACS.

<sup>&</sup>lt;sup>b</sup>Minimum solids for processing November 16 thru November 30.

<sup>&</sup>lt;sup>c</sup>Minimum solids for processing November 1 thru November 15. Minimum solids for fresh November 16 thru November 30.

<sup>&</sup>lt;sup>d</sup>Minimun solids for processing August 1 thru October 31. Minimum solids for fresh November 1 thru November 15.

<sup>°</sup>Minimum solids for fresh August 1 thru October 31.

Flat 8.55 to 1 ratio for fresh December 1 thru January 31, with NO minimum solids.

<sup>&</sup>lt;sup>9</sup>Flat 8 to 1 ratio for fresh Feb. 1 thru July 31, with NO minimum solids. Flat 8 to 1 ratio for processing Dec. 1 thru July 31, with NO minimum solids. NOTE 1: Until December 1 of each year, all tangelos for processing must meet fresh fruit requirements <u>unless otherwise noted</u>. From December 1 thru July 31, no juice content, minimum acid or color break requirements for processed fruit. Apply minimum solids and ratio requirements as indicated in table.

#### **Glossary of Acronyms**

CAC: Citrus Administrative Committee CACEX: Carteira de Comercio Exterior

CGJ: Chilled Grapefruit Juice COJ: Chilled Orange Juice CPI: Consumer Price Index

CSSGJ: Canned Single-Strength Grapefruit Juice CSSOJ: Canned Single-Strength Orange Juice DECEX: Departamento de Comercio Exterior

**EMRD:** Economic and Market Research Department

**FAO: Food and Agriculture Organization of the United Nations** 

**FAS: Foreign Agricultural Service** 

FASS: Florida Agricultural Statistics Service FCBJ: Frozen Concentrated Blended Juice FCGJ: Frozen Concentrated Grapefruit Juice

**FCM: Florida Citrus Mutual** 

FCOJ: Frozen Concentrated Orange Juice

FCPA: Florida Citrus Proc. Assoc. (Replaced by Processor Reports)

**FCTJ:** Frozen Concentrated Tangerine Juice

FDACS: Florida Department of Agriculture and Consumer Services

**FDOC: Florida Department of Citrus** 

FOB: Free on Board

FRED: Food and Resource Economics Department

GJ: Grapefruit Juice

ICE: Intercontinental Exchange

IFAS: Institute of Food and Agricultural Sciences

MT: Metric Ton NA: Not Available

**NASS: National Agricultural Statistics Service** 

**NFC: Not From Concentrate** 

**NSPF: Not Specifically Provided For** 

OJ: Orange Juice PS: Pounds Solids RTS: Ready to Serve

SSE: Single Strength Equivalent

**UF:** University of Florida

**USDA: United States Department of Agriculture** 

## **NOTES**

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# Florida Department of Citrus Economic and Market Research Department

