

# Citrus Reference Book



**Florida Department of Citrus**  
Economic and Market Research Department  
August 2010

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# Florida Department of Citrus

## Economic and Market Research Department

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## Bearing Acreage: Oranges

Season	Florida	Texas	Calif.	Arizona	U.S. <sup>a</sup>	Florida Temples
----- 1,000 acres -----						
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	198.0	5.6	800.0	4.2
2003-04	564.8	8.8	193.0	4.9	771.5	3.4
2004-05	541.8	8.8	191.0	4.2	745.8	2.9
2005-06	491.0	8.8	190.0	3.3	693.1	2.5
2006-07	475.9	8.8	190.0	2.6	677.3	<sup>c</sup>
2007-08	463.9	8.8	188.0	2.4	663.1	<sup>c</sup>
2008-09 <sup>b</sup>	459.1	8.8	186.0	2.4	656.3	<sup>c</sup>
2009-10						

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

<sup>b</sup>Preliminary.

<sup>c</sup>Temples included with Florida oranges.

SOURCE: FASS.



## Bearing Acreage: Grapefruit

Season	Florida	Texas	Calif.	Arizona	U.S.
----- 1,000 acres -----					
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	1.4	128.4
2003-04	82.3	18.5	11.0	1.2	114.0
2004-05	71.0	18.5	12.0	1.0	101.5
2005-06	59.8	18.5	10.0	.8	89.1
2006-07	57.4	18.5	9.6	.6	86.1
2007-08	54.8	18.5	9.6	.5	83.4
2008-09 <sup>a</sup>	51.9	18.5	9.6	.4	80.4
2009-10					

<sup>a</sup>Preliminary.

SOURCE: FASS.

## 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
2009	492,529	53,863	22,422	568,814
2010				

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

SOURCE: FASS.

# Florida Commercial Citrus Bearing Acreage

Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
----- acres -----				
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
2009	459,228	51,934	21,993	533,155
2010				

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

SOURCE: FASS.

## Florida Commercial Citrus Trees

Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
----- 1,000 trees -----				
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
2009	64,992.7	5,861.0	3,236.8	74,090.5
2010				

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

SOURCE: FASS.

## Florida Commercial Citrus Bearing Trees

Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
----- 1,000 trees -----				
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
2009	60,752.9	5,633.8	3,179.0	69,565.7
2010				

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

SOURCE: FASS.

## Production: Oranges

Season	Florida	Texas	Calif.	Arizona	U.S. <sup>a</sup>	Florida Temples
----- million 90-pound boxes -----						
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	<sup>b</sup>	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	<sup>d</sup>
2007-08	170.2	1.7	51.7	.3	223.9	<sup>d</sup>
2008-09 <sup>c</sup>	162.4	1.4	40.4	.2	204.4	<sup>d</sup>
2009-10						<sup>d</sup>

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

<sup>b</sup>Less than 50,000 boxes.

<sup>c</sup>Preliminary.

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

SOURCE: FASS.

## Production: Grapefruit

Season	Florida	Texas	Calif.	Arizona	U.S.
----- million 85-pound boxes -----					
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 <sup>c</sup>	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	26.6	5.6	4.1	.1	36.4
2008-09 <sup>d</sup>	21.7	5.2	4.4	---	31.3
2009-10					

<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	Tangerines			Florida			Lemons	
	Florida	Calif.	Arizona	Tangelos	K-Early	Limes	Calif.	Arizona
----- 1,000 boxes -----								
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	a	a	24,000	3,000
2003-04	6,500	2,200	690	1,000	a	a	18,000	3,000
2004-05	4,450	2,900	400	1,550	a	a	20,500	2,400
2005-06	5,500	3,600	550	1,400	a	a	22,000	3,800
2006-07	4,600	3,500	300	1,250	a	a	18,500	2,500
2007-08	5,500	6,700	400	1,500	a	a	14,800	1,500
2008-09 <sup>b</sup>	3,850	6,700	250	1,150	a	a	22,000	3,000
2009-10								

<sup>a</sup>No longer reported.

<sup>b</sup>Preliminary.

SOURCE: FASS, *Citrus Summary*.



# USDA Orange Crop Estimates Versus Actual Production

Season	Florida			California			Texas			Arizona			Total <sup>a</sup>
	Oct.	Actual	+ / -	Oct.	Actual	+ / -	Oct.	Actual	+ / -	Oct.	Actual	+ / -	Oct.
----- million boxes <sup>b</sup> -----													
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 <sup>c</sup>	129.0	-6.0	46.0	46.0	-	1.8	2.0	+.2	.4	.3	-.1	183.1
2007-08	168.0 <sup>c</sup>	170.2	+2.2	58.0	62.0	+4.0	1.8	1.8	-	.3	.4	+.1	228.1
2008-09	166.0 <sup>c</sup>	162.4	-3.6	44.0	48.5	+4.5	1.5	1.5	-	.3	.3	-	211.8
2009-10	136.0 <sup>c</sup>			55.0			1.5			NF			192.5

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

<sup>b</sup>Box sizes: FL, 90#; CA & AZ, 75#; TX 85#.

<sup>c</sup>Includes Temples.

SOURCE: FASS.

## USDA Florida Temple Crop Estimates Versus Actual Production

Season	October	Actual	+ / -
- - - - - million 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.

SOURCE: FASS.

# USDA Grapefruit Crop Estimates Versus Actual Production

Season	Florida			California			Texas			Arizona			Total Oct.
	Oct.	Actual	+ / -	Oct.	Actual	+ / -	Oct.	Actual	+ / -	Oct.	Actual	+ / -	
----- million boxes <sup>a</sup> -----													
1994-95	55.5	55.7	+2	9.4 <sup>b</sup>	9.3	- .1	3.6	4.7	+1.1	1.7	1.4	- .3	70.2 <sup>b</sup>
1995-96	54.0	52.4 <sup>c</sup>	-1.6	8.5	8.1	-.4	5.0	4.6	-.4	1.2	1.2	—	68.7
1996-97	59.0	55.8 <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 <sup>e</sup>	-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	5.2	+7	6.8	6.0	-.8	.2	.1	-.1	36.5
2008-09	23.0	21.7	-1.3	5.5	5.6	+1	5.3	5.5	+2	.2	—	-.2	34.0
2009-10	19.8			4.7			5.3			NF			29.8

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

<sup>b</sup>Includes April forecast for California.

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

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

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

SOURCE: FASS.

# USDA Crop Estimates (Current)

Time Period <sup>a</sup>	Oranges			Grapefruit		
	FL <sup>b</sup>	TX	CA	FL	TX	CA

----- million boxes<sup>c</sup> -----

## 2009-10

OCT	136.0	1.5	55.0	19.8	5.3	4.7
DEC	135.0	1.5	55.0	19.8	5.3	4.7
JAN	135.0	1.6	55.0	19.5	5.5	4.2
FEB	129.0	1.6	55.0	18.8	5.5	4.2
MAR	131.0	1.6	55.0	18.8	5.5	4.2
APR	131.6	1.6	59.0	19.0	5.5	4.2
MAY	131.6	1.6	59.0	19.8	5.5	4.2
JUN	133.6	1.6	59.0	20.2	5.5	4.2
JUL	133.6	1.6	58.0	20.3	5.5	4.2

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

<sup>b</sup>Includes Temples.

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

SOURCE: FASS.

# USDA Florida FCOJ Gallons-per-Box Yield Estimates

Season	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL
----- 42° Brix gallons -----										
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	1.62	1.64	1.64	1.65	1.66	1.66
2009-10	1.63	1.63	1.63	1.60	1.56	1.53	1.56	1.55	1.55	1.56

SOURCE: FASS.

# USDA Specialty Crop Estimates Versus Actual Production

Season	Florida Tangelos		Tangerines						California/ Arizona Lemons		Florida Limes	
			Florida		California		Arizona					
	Oct.	Actual	Oct.	Actual	Oct.	Actual	Oct.	Actual	Oct.	Actual	Oct.	Actual
	mil. 90-lb. boxes		mil. 95-lb. boxes		----- mil. 75-lb. boxes -----				mil. 76-lb. boxes		mil. 88-lb. boxes	
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	a	a
2003-04	1.3	1.0	6.6	6.5	2.5	2.2	.6	.7	26.0	21.0	a	a
2004-05	1.4	1.6	4.7	4.5	2.9	2.9	.5	.4	21.9	22.9	a	a
2005-06	1.4	1.4	6.0	5.5	3.2	3.6	.5	.6	22.8	25.8	a	a
2006-07	1.1	1.3	4.6	4.6	3.8	3.5	.4	.3	22.5	21.0	a	a
2007-08	1.3	1.5	5.1	5.5	4.7	6.7	.4	.4	18.0	16.3	a	a
2008-09	1.5	1.2	4.9	3.9	6.3	6.7	.3	.3	21.5	25.0	a	a
2009-10	1.0		4.9		7.0		.4		22.5		a	a

<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>
----- million 90-pound boxes -----						
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	5.0	46.0	75.2	1.4	1.4	129.0
2007-08	4.4	78.0	85.1	1.4	1.3	170.2
2008-09	5.6	71.2	82.8	1.4	1.4	162.4

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

SOURCE: FDOC-EMRD.

## Utilization of Florida Grapefruit

Season	Fresh	Frozen Concen- trate	Chilled Juice	Non- Certified	Other	Total
----- million 85-pound boxes -----						
1994-95	21.2	27.3	5.6	1.1	.5	55.7
1995-96	21.8	23.0	6.1	1.0	.5	52.4 <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 <sup>c</sup>
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	.6	.3	27.2
2007-08	9.9	10.4	5.2	.7	.3	26.6
2008-09	8.7	8.4	3.7	.7	.2	21.7

<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.

SOURCE: FDOC-EMRD.



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

Aug-July Season	Grapefruit	Oranges	Temples	Tangelos	Honey Tangerines	Tangerines	Total
----- thousand 4/5-bushel cartons -----							
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	<sup>b</sup>	691	2,639	2,928	36,821
2007-08	19,829	8,847	<sup>b</sup>	717	2,874	3,210	35,477
2008-09	17,353	11,089	<sup>b</sup>	827	1,686	3,470	34,426

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

<sup>b</sup>Temples included with oranges.

SOURCE: FDOC-EMRD.

## Florida Fresh Grapefruit Shipments

Aug-July Season	Domestic	Canada	Europe	Japan	Other Pacific Rim	Other	Total
----- thousand 42.5-pound cartons -----							
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
2008-09	6,045	1,088	3,924	6,036	258	2	17,353

SOURCE: FDOC-EMRD.

## Florida Fresh Orange and Temple Shipments

Aug-July Season	Domestic	Canada	Europe	Japan	Other Pacific Rim	Other	Total
----- thousand 45-pound cartons -----							
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
2008-09	10,249	594	87	1	158	1	11,089

SOURCE: FDOC-EMRD.

# World Orange Production

Country	Average					2008
	1961-1969	1970-1979	1980-1989	1990-1999	2000-2007	
----- 1,000 metric tons -----						
United States	5,235	8,491	7,808	9,513	10,021	9,139
% of U.S. to World	26.8%	27.4%	18.5%	16.6%	15.9%	13.5%
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%	12.7%	10.3%
Brazil	2,281	5,785	13,335	20,009	18,331	18,390
India	864	1,214	1,386	2,001	3,040	4,397
Mexico	1,262	1,672	1,954	3,159	4,026	4,307
China	67	162	631	1,707	2,206	3,454
Spain	1,748	1,878	1,976	2,622	2,851	3,367
Italy	1,079	1,552	1,860	1,785	1,996	2,527
Indonesia	96	166	454	508	1,653	2,323
Iran, Islamic Rep. of	92	266	730	1,604	2,084	2,300
Egypt	398	775	1,183	1,558	1,837	2,138
Pakistan	307	437	946	1,294	1,444	1,721
South Africa	450	543	581	867	1,296	1,436
Turkey	306	541	694	869	1,316	1,427
Greece	362	493	729	930	942	802
Argentina	582	781	645	749	793	766
Morocco	548	679	763	907	777	750
Syrian Arab Rep.	3	17	75	281	475	603
Viet Nam	54	85	102	294	516	601
Algeria	291	338	196	245	400	491
All Others	3,541	5,123	6,167	6,569	7,044	6,757
WORLD TOTAL	19,568	30,996	42,215	57,471	63,050	67,696

<sup>a</sup>Temples included.

SOURCE: FAO-FAOSTAT-Agricultural Data.

# World Grapefruit Production

Country	Average					2008
	1961-1969	1970-1979	1980-1989	1990-1999	2000-2007	
----- 1,000 metric tons -----						
United States	1,631	2,433	2,370	2,316	1,799	1,408
% of U.S. to World	68.7%	64.1%	55.6%	48.3%	37.1%	28.5%
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%	28.3%	20.7%
China	18	21	53	217	408	568
Mexico	13	55	105	157	338	395
South Africa	60	101	90	137	336	381
Syrian Arab Rep.	—	—	—	—	73	290
Israel	165	410	422	384	264	241
India	22	26	40	94	146	187
Argentina	70	159	161	200	201	176
Turkey	4	13	25	65	144	168
Cuba	12	31	210	295	222	166
Brazil	25	33	46	60	68	72
Tunisia	2	10	30	49	69	72
Sudan	40	49	56	62	68	68
Belize	8	12	22	40	52	61
Iran, Islamic Rep. of	2	7	21	52	45	54
Bangladesh	3	3	6	11	33	51
Spain	5	6	15	25	32	50
Jamaica	45	32	26	42	43	44
Paraguay	16	38	75	66	42	39
All Others	235	357	493	526	470	454
WORLD TOTAL	2,374	3,796	4,264	4,799	4,853	4,944

SOURCE: FAO-FAOSTAT-Agricultural Data.

# World Tangerine Production

Country	Average					2008
	1961-1969	1970-1979	1980-1989	1990-1999	2000-2007	
----- 1,000 metric tons -----						
United States	302	572	539	474	416	478
% of U.S. to World	7.7%	7.6%	5.3%	3.0%	1.8%	1.7%
Florida	173	202	141	162	246	237
% of Florida to World	4.4%	2.7%	1.4%	1.0%	1.1%	.8%
China	251	453	1,575	5,481	10,664	15,623
Spain	181	623	1,083	1,684	2,073	1,974
Brazil	282	420	620	731	1,183	1,273
Japan	1,450	3,232	2,463	1,438	1,100	1,066
Italy	183	316	409	462	593	786
Egypt	66	88	115	355	633	758
Turkey	45	110	246	421	650	756
Iran, Islamic Rep. of	21	62	176	611	710	702
Thailand	261	318	464	634	664	670
Pakistan	108	156	350	481	537	640
Korea, Rep. of	2	55	355	585	638	636
Argentina	165	238	423	556	564	520
Mexico	86	101	129	223	383	469
Morocco	75	174	293	335	432	450
Peru	8	18	27	78	160	190
Algeria	109	147	93	93	132	156
South Africa	13	19	28	64	125	135
Israel	42	71	120	125	110	129
All Others	249	384	616	937	1,169	1,145
WORLD TOTAL	3,899	7,554	10,122	15,766	22,936	28,557

SOURCE: FAO-FAOSTAT-Agricultural Data.

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

Production Season <sup>a</sup>	Bearing Trees	Oranges Produced	Oranges Utilized for Frozen Concentrate <sup>b</sup>		Frozen Concentrate Production <sup>b</sup>	
					65 ° Brix	SSE
	- million -	---	million boxes ---	- % 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	336	88	1,407	1,959
2005-06	162	320	284	89	1,240	1,727
2006-07	164	350	316	90	1,380	1,922
2007-08	165	360	325	90	1,420	1,977
2008-09	166	315	276	88	1,195	1,664
2009-10 <sup>c</sup>	166	330	285	86	1,200	1,671
2010-11 <sup>d</sup>	165	335	294	88	1,247	1,737

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

<sup>b</sup> Beginning 2004-05, includes NFC for export.

<sup>c</sup> Estimate.

<sup>d</sup> Projected.

SOURCE: FAS.

## 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	2008-09	611,437	1,386
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>a</sup>FOB value of product, Brazil.

SOURCES: CACEX, DECEX, FAS.



# Estimated U.S. Orange-Juice Availability

Oct-Sept Season	Florida				Texas <sup>a</sup>	Calif./ <sup>a</sup> Arizona	U.S. Imports		U.S. Exports	Total Domestic Availability	
	FCOJ 11.8° Brix	CSSOJ	COJ	Total			Florida	Total			
----- million SSE gallons -----											1,000 MT 65° Brix
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	560.4	1,106.5	2.4	61.6	180.3	405.5	138.7	1,437.3	1,032
2008-09	487.9	NA	546.9	1,034.8	1.3	33.0	126.9	317.4	124.7	1,261.7	906

<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 Availability	Net Carry- over <sup>a</sup>	Total Presumed Consump- tion	Sales		Popula- tion	Per Capita Consump- tion
				Retail <sup>b</sup>	Other <sup>c</sup>		
----- million SSE gallons -----						millions	SSE gal.
1994-95	1,352	-30	1,382	NA	NA	265	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	795	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	1,437	+272	1,166	624	542	304	3.8
2008-09	1,262	+31	1,231	629	603	306	4.0

<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.

<sup>b</sup>All outlets.

<sup>c</sup>Includes unidentified inventory.

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

## Estimated U.S. Grapefruit-Juice Availability

Oct-Sept Season	Florida				Texas <sup>a</sup>	Calif./ <sup>a</sup> Arizona	U.S. Imports	Total Supply	U.S. Exports	Total Domestic Availability
	FCGJ	CSSGJ	CGJ	Total						
----- million SSE gallons -----										
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	32.9	87.7	13.0	.0	.3	101.0	36.4	64.6
2008-09	43.0	NA	23.2	66.2	11.1	.0	.5	77.8	33.9	43.9

<sup>a</sup>Based on assumed yields.

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	Sales		Popula- tion	Per Capita Consump- tion
				Retail <sup>a</sup>	Other <sup>b</sup>		
----- million SSE gallons -----						millions	SSE gal.
1994-95	147	+16	131	NA	NA	265	.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	.29
2004-05	35	-34	69	25	44	295	.24
2005-06	61	+8	53	20	33	298	.18
2006-07	74	+16	58	20	39	301	.19
2007-08	65	+2	62	22	40	304	.20
2008-09	44	-13	57	21	36	306	.18

<sup>a</sup>All outlets.

<sup>b</sup>Includes unidentified inventory.

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

# General Economic Indicators

Year	Consumer Price Indices (1982-84 = 100)		Population	Disposable Personal Income
	All Food	All Items		
			- millions -	- billion \$ -
1986	109.0	109.6	240.1	3,258.8
1987	113.5	113.6	242.3	3,435.3
1988	118.2	118.3	244.5	3,726.3
1989	125.1	124.0	246.8	3,991.4
1990	132.4	130.7	249.6	4,254.0
1991	136.3	136.2	253.0	4,444.9
1992	137.9	140.3	256.5	4,736.7
1993	140.9	144.5	259.9	4,921.6
1994	144.3	148.2	263.1	5,184.3
1995	148.4	152.4	266.3	5,457.0
1996	153.3	156.9	269.4	5,759.6
1997	157.3	160.5	272.6	6,074.6
1998	160.7	163.0	275.9	6,498.9
1999	164.1	166.6	279.0	6,803.3
2000	167.8	172.2	282.2	7,327.2
2001	173.1	177.1	285.1	7,648.5
2002	176.2	179.9	287.8	8,009.7
2003	180.0	184.0	290.3	8,377.8
2004	186.2	188.9	293.0	8,889.4
2005	190.7	195.3	295.8	9,277.3
2006	195.2	201.6	298.6	9,915.7
2007	202.9	207.3	301.6	10,403.1
2008	214.1	215.3	304.4	10,806.4
2009	218.0	214.5	307.0	10,923.6 <sup>a</sup>

<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> - -	
<b>FRESH<sup>a</sup></b>	
Oranges	117
Grapefruit	227
<u>Specialty</u>	<u>94</u>
<b>TOTAL FRESH</b>	<b>438</b>
<b>PROCESSED<sup>b,c</sup></b>	
Oranges <sup>d</sup>	3,304
Grapefruit	144
<u>Byproducts</u>	<u>136</u>
<b>TOTAL PROCESSED</b>	<b>3,584</b>
<b>TOTAL VALUE</b>	<b>4,022</b>

<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, 2007-08

Item	Value Added <sup>b</sup>	Output/Sales	Employment
- - - - - million \$ - - - - -			
Fresh	612	1,016	10,065
Processed	4,007	7,890	65,762
<b>TOTAL</b>	<b>4,619</b>	<b>8,906</b>	<b>75,828</b>

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

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

SOURCE: M. Rahmani & A.W. Hodges, "Economic Impacts of the Florida Citrus Industry in 2007-08," FE-802, UF-IFAS-FRED, Gainesville, FL, July 2009.

## Florida Delivered-In Costs

Region/ Market/ Variety	95-96	00-01	05-06	08-09	
	Typical/ Historical Costs			WITHOUT Canker/ Greening	WITH Canker/ Greening

----- \$/PS -----

### CENTRAL

#### Processed

Valencia Orange	.83	.76	1.00	.89	1.13
-----------------	-----	-----	------	-----	------

### SOUTHWEST

#### Processed

Hamlin Orange	.84	.77	1.49	.93	1.15
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----- \$/carton -----

### SOUTHWEST

#### Fresh

Grapefruit	2.53	2.50	3.29	3.14*	4.28*
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### INDIAN RIVER

#### Fresh

Grapefruit	2.98	3.14	4.27	3.38	4.44
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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](http://www.crec.ifas.ufl.edu/Extension/Economics).

\*2007-08 prices; 2008-09 data are not available.

# Florida Land Value Survey

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

Date	South Florida			Central Florida		
	Oranges	Grape- fruit	5-7 Year Citrus	Oranges	Grape- fruit	5-7 Year Citrus
----- \$/acre -----						
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
5/2009	12,086	7,369	7,459	NA	NA	NA

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



# U.S. Orange-Juice Imports

Oct-Sep Season	Florida Ports			Total U.S.		
	Volume		Value	Volume		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	522.8
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	126.9	91.1	130.7	317.4	227.9	330.4
2009-10						

SOURCE: U.S. Department of Commerce.

# U.S. Citrus-Juice Exports

Oct-Sep Season	Orange Juice		Grapefruit Juice		Citrus Juice, NSPF <sup>a</sup>	
	Volume	Value	Volume	Value	Volume	Value
	mil. SSE gal.	mil. \$	mil. SSE gal.	mil. \$	mil. SSE gal.	mil. \$
1987-88	65.3	114.9	23.4	42.5	15.5	20.5
1988-89	71.4	133.4	17.8	37.6	7.9	12.6
1989-90	87.9	166.7	15.5	40.0	8.5	13.7
1990-91	93.9	171.6	15.7	37.9	9.2	14.8
1991-92	107.2	206.0	23.1	56.1	12.1	18.3
1992-93	116.8	209.5	23.1	55.3	9.6	16.0
1993-94	104.8	233.9	16.2	50.9	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	52.4	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	52.3	3.5	11.6
2005-06	137.7	314.6	18.7	52.4	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	124.7	380.3	15.6	53.5	6.5	24.5
2009-10						

<sup>a</sup>Includes lemon juice.

SOURCE: U.S. Department of Commerce.

# U.S. Imports of Fresh Citrus

Season <sup>a</sup>	Oranges		Grapefruit		Mandarins and Tangerines	
	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	180.09	77.45	28.67	2.05	283.85	177.65
2009-10						

<sup>a</sup>August 1 through July 31.

SOURCE: U.S. Department of Commerce.

# U.S. Exports of Fresh Citrus

Season <sup>a</sup>	Oranges		Grapefruit		Tangerines	
	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	1,105.2	396.5	543.7	184.6	64.6	37.9
2009-10						

<sup>a</sup>August 1 through July 31.

SOURCE: U.S. Department of Commerce.

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

Oct-Sept Season	Florida <sup>b</sup>		Brazil		Mexico		Other		Imported Average	
	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>
----- dollars -----										
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
2008-09	1,361	.95	1,438	1.00	1,403	.98	1,555	1.09	1,450	1.01

<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. & insurance” (U.S. Guide to Foreign Trade Statistics). 1988-89 data include “other orange juice.”

<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

Year	FCOJ			NFC	
	¢/SSE gal.	¢/ liter	¢/ PS	¢/SSE gal.	¢/ liter
<b>TARIFF ACT OF 1930</b> . . . . .					
1930-1947	70.00		68.03	70.00	
<b>GATT – GENEVA SWITZERLAND</b> . . . . .					
1948-1971	35.00		34.01	35.00	
<b>GATT – KENNEDY ROUND</b> . . . . .					
1972-1988	35.00		34.01	20.00	
1989-1994*	35.02	9.25	34.04	20.07	5.3
<b>GATT – URUGUAY ROUND</b> . . . . .					
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

\* Beginning 1989, Harmonized Tariff System based on metric units.

# NOTES

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

Cans/ Case	Name of Can	Dimensions of Can	SSE Gal./Case <sup>a</sup>	Equivalent 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>a</sup>Based on a case of 24/2's being 432 ounces.

SOURCE: National Cannery Association, Washington, DC.

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

<sup>a</sup>Includes Temples & tangelos at 90 pounds.

<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		
	65° Brix	66° Brix	
1 metric ton=2,204.6 pounds	= 1,433	= 1,455	pounds solids (PS)
1 pound=.454 kilograms	= 200.84	= 203.92	gallons 65° Brix
1 kilogram=2.2046 pounds	= 196.89	= 199.91	gallons 66° Brix
1 90-lb. box=40.8 kilograms	= 344.8	= 350.1	gallons 42° Brix
1 85-lb. box=38.56 kilograms	= 1,392.6	= 1,413.9	gallons 11.8° Brix
1 gallon=3.785 liters	= 760.5	= 772.1	liters 65° Brix
1 liter=.2641 gallons	= 745.5	= 756.9	liters 66° Brix
1 kiloliter=1,000 liters	= 1,305.6	= 1,325.6	liters 42° Brix
1 hectare=2.47 acres	= 5,273.0	= 5,353.8	liters 11.8° Brix
1 acre=.405 hectare			

One (1) 55-gallon drum 65° Brix
= 370 pounds solids, contains about 52 gallons, & weighs about 625 pounds.

## Commonly Used Brix Equivalents

Degrees Brix	PS Per Gallon	Weight/Gallon in Air at 20°C (pounds)	Equivalent Gallons		
			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

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.)

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	6.139	10.620
43.6	4.345	9.965	57.9	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

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	“ ”
4/5-bushel carton oranges	=	3.0 <sup>a</sup>	“ ”
4/5-bushel carton grapefruit	=	2.4 <sup>b</sup>	“ ”

<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>

Item	Selected Approximate Costs	
	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 <sup>d</sup>	\$ 0.00 <sup>e</sup>
Storage <sup>c,f</sup>	\$ 450.00 <sup>g</sup>	\$ 600.00 <sup>h</sup>
Interest <sup>i</sup>	\$ 4.19	\$ 4.97
Total Per Contract	\$ 724.19	\$ 644.97
Total Points <sup>j</sup>	483	430

<sup>a</sup> Ignores USDA inspection fee.

<sup>b</sup> Rate is negotiable.

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

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

<sup>e</sup> Handling cost paid for delivery offset by handling cost collected for redelivery.

<sup>f</sup> Prompt payment of monthly storage is advised, as all warehouses are charging interest on late payments.

<sup>g</sup> Assumes 1.5 months storage at \$300.00 per month.

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

<sup>i</sup> 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  $((1.0475)^{m/12} - 1)$ , where m is the months contract is owned:

INTEREST ON COST OF JUICE				
Cost Per Pound	Months Contract Owned			
	1.5	(Points)	2	(Points)
\$ 1.10	\$ 95.99	(64)	\$ 128.11	(85)
\$ 1.30	\$113.44	(76)	\$ 151.41	(101)
\$ 1.50	\$130.90	(87)	\$ 174.70	(116)

<sup>j</sup> 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](http://www.theice.com)).



## New York FCOJ Monthly Average Nearby Futures Settlement Price

Month	2004	2005	2006	2007	2008	2009	2010
----- cents per pound solids-----							
JAN	62.95	82.11	123.07	200.33	136.92	74.40	137.47
FEB	60.97	85.02	130.18	195.62	128.23	69.25	137.38
MAR	61.21	95.57	139.94	199.98	118.80	73.72	146.30
APR	59.45	95.29	144.84	171.73	115.73	80.55	132.96
MAY	56.11	93.71	155.09	165.03	112.30	90.74	140.29
JUN	57.66	96.24	158.23	138.36	112.00	81.95	141.05
JUL	66.74	98.26	163.04	133.06	121.63	93.66	143.48
AUG	67.27	91.59	177.49	129.60	103.60	97.76	
SEP	79.99	95.72	174.78	125.06	94.76	93.61	
OCT	82.49	108.03	184.62	142.53	81.41	107.96	
NOV	74.99	119.95	197.72	136.33	79.81	113.27	
DEC	83.46	125.06	201.23	144.36	73.82	128.83	

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	105.8	138.9
2008-09	14.8	18.3	113.1	146.2
2009-10				

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

<sup>b</sup>Adjusted.

SOURCE: Processor Reports.

# Florida FCOJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement <sup>a</sup>	Ending Inventory <sup>b</sup>
		From Fruit	Other		
----- million gallons 42° 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 <sup>c</sup>
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	120.80	33.24	146.16	116.56
2009-10	116.56				

<sup>a</sup>Includes futures contract.

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

<sup>c</sup>Reporting definition change.

<sup>d</sup>Adjusted.

SOURCE: Processor Reports.

## Florida COJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement	Ending Inventory <sup>a</sup>
		From Fruit	From Concen- trate		
----- million SSE gallons -----					
1987-88	NA	NA	NA	308.87	NA
1988-89	NA	NA	NA	333.34	NA
1989-90	NA	NA	NA	336.16	NA
1990-91	NA	NA	NA	349.86	NA
1991-92	NA	NA	NA	384.73	NA
1992-93	NA	NA	NA	408.42	NA
1993-94 <sup>b</sup>	78.42	311.12	142.20	444.20	89.00
1994-95 <sup>b</sup>	89.00	326.66	126.89	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	558.82	86.71	577.87	163.42
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>	152.49	552.26	15.67	562.45	187.76
2008-09 <sup>b</sup>	187.76	536.94	15.55	562.82	202.18
2009-10 <sup>b</sup>	202.18				

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

<sup>b</sup>Inventories include domestic receipts of non-Florida product and receipts of Florida product from non-members.

<sup>c</sup>Adjusted to "standard" 11.8° Brix gallons.

SOURCE: Processor Reports.

## Florida CSSOJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement	Ending Inventory <sup>a</sup>
		From Fruit	From Concen- trate		
----- million SSE gallons -----					
1978-79	7.00 <sup>b</sup>	33.46	11.16	42.79	8.84
1979-80	8.84	36.49	10.32	47.16	8.48
1980-81	8.48	28.76	15.15	43.98	8.42
1981-82	8.42	20.56	18.27	39.13	8.11
1982-83	8.11	12.34	20.74	36.42	4.77
1983-84	4.77	10.94	19.72	31.42	4.01
1984-85	4.01	6.07	18.99	26.06	3.00
1985-86	3.00	7.10	18.54	25.31	3.33
1986-87	3.33	5.34	22.07	27.28	3.46
1987-88	3.46	4.80	19.69	25.06	2.89
1988-89	2.89	6.39	21.16	27.77	2.67
1989-90	2.67	3.35	19.06	23.01	2.07
1990-91	2.07	3.24	20.82	24.30	1.84
1991-92	1.84	2.65	23.17	25.05	2.62
1992-93	2.62	1.99	24.75	26.79	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
1995-96	2.01	1.43	16.18	17.80	1.81
1996-97	1.81	1.07	12.20	14.13	.95
1997-98	.95	NA	NA	12.13	1.01
1998-99 <sup>c</sup>	1.01				

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

<sup>b</sup>Adjusted.

<sup>c</sup>CSSOJ no longer reported.

SOURCES: Processor Reports, FDOC.

# Florida FCGJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack <sup>a</sup>	Movement		Ending Inventory <sup>b</sup>
			Retail and Institutional	Bulk	
----- 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	11.45	.22	12.85	8.85
2009-10	8.85				

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

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

<sup>c</sup>Adjusted.

<sup>d</sup>Includes definitional adjustment.

SOURCE: Processor Reports.

## Florida CGJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement	Ending Inventory <sup>a</sup>
		From Fruit	From Concen- trate		
----- million SSE gallons -----					
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 <sup>c</sup>	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	21.87	.01	29.28	10.27
2009-10 <sup>b</sup>	10.27				

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

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

<sup>c</sup>Adjusted to “standard” 10.0° Brix gallons.

SOURCE: Processor Reports.

## Florida CSSGJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement	Ending Inventory <sup>a</sup>
		From Fruit	From Concen- trate		
----- million SSE gallons -----					
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>a</sup>May not calculate due to rounding.

<sup>b</sup>CSSGJ no longer reported.

SOURCE: Processor Reports.



# Florida Orange On-Tree Earnings Per Box

Season	Early & Midseason		Valencia		Total	
	Fresh	Proc.	Fresh	Proc.	Fresh	Proc.
----- dollars per 90-lb. box-----						
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	6.20	4.60	5.00	6.38	5.80	5.49
2006-07	12.10	8.70	15.40	11.55	13.25	10.12
2007-08 <sup>a</sup>	8.15	5.79	7.20	7.30	7.83	6.57
2008-09 <sup>a</sup>	6.95	4.60	4.10	6.25	5.88	5.40

<sup>a</sup>Preliminary.

SOURCE: FASS.

# Florida Grapefruit On-Tree Earnings Per Box

Season	White		Colored		Total	
	Fresh	Proc.	Fresh	Proc.	Fresh	Proc.
----- dollars per 85-lb. box-----						
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	16.09	5.03	13.40	3.78	13.96	4.29
2006-07	9.04	.76	9.61	1.18	9.51	.99
2007-08 <sup>a</sup>	9.70	.41	10.20	.81	10.11	.63
2008-09 <sup>a</sup>	7.10	.10	9.00	.20	8.72	.16

<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
----- thousand dollars -----									
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	1,325,742	c	120,280	58,152	10,298	b	b	b	1,514,472
2007-08 <sup>a</sup>	1,125,348	c	117,507	36,830	4,309	b	b	b	1,283,994
2008-09 <sup>a</sup>	880,000	c	83,379	27,540	2,124	b	b	b	993,043

<sup>a</sup>Preliminary.

<sup>b</sup>No longer reported.

<sup>c</sup>Temples included with oranges.

SOURCE: FASS, *Citrus Summary*.

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

Season/ Item <sup>b</sup>	To Midseason Break	After Midseason Break	Combined Early/Midseason and Valencia
<u>2000-01<sup>c</sup></u>			
Priced Boxes	24,417,244	11,550,205	35,967,449
\$/PS Average	.695792	.899491	.764827
\$/Box Average	4.357134	6.104480	4.918258
<u>2001-02<sup>c</sup></u>			
Priced Boxes	22,967,205	17,526,601	40,493,806
\$/PS Average	.748566	.942557	.836374
\$/Box Average	4.565481	6.229543	5.285723
<u>2002-03<sup>c</sup></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
<u>2003-04<sup>c</sup></u>			
Priced Boxes	30,633,873	26,910,288	57,544,161
\$/PS Average	.648933	.765150	.707271
\$/Box Average	3.710253	5.019599	4.322563
<u>2004-05</u>			
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
<u>2005-06</u>			
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
<u>2006-07</u>			
Priced Boxes	25,652,286	30,575,114	56,227,400
\$/PS Average	1.949092	2.225927	2.107821
\$/Box Average	12.096146	15.576420	13.988636
<u>2007-08</u>			
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
<u>2008-09</u>			
Priced Boxes	20,854,062	14,663,518	35,517,580
\$/PS Average	1.009965	1.133625	1.064156
\$/Box Average	6.276532	7.815865	6.912050

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

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

<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
<b><u>2000-01</u></b>			
Priced Boxes	8,251,541	3,732,761	11,984,302
\$/PS Average	.669177	.484440	.608396
\$/Box Average	3.160538	2.480057	2.948588
<b><u>2001-02</u></b>			
Priced Boxes	8,286,298	2,813,133	11,099,431
\$/PS Average	.719602	.272997	.601665
\$/Box Average	3.324959	1.333261	2.820166
<b><u>2002-03</u></b>			
Priced Boxes	3,901,815	1,606,522	5,508,337
\$/PS Average	.534171	.403529	.494971
\$/Box Average	2.388766	1.878852	2.240048
<b><u>2003-04</u></b>			
Priced Boxes	5,641,239	2,372,097	8,013,336
\$/PS Average	.493767	.490457	.492743
\$/Box Average	2.127092	2.250097	2.163504
<b><u>2004-05</u></b>			
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
<b><u>2005-06</u></b>			
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
<b><u>2006-07</u></b>			
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
<b><u>2007-08</u></b>			
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
<b><u>2008-09</u></b>			
Priced Boxes	2,376,880	3,158,131	5,535,011
\$/PS Average	0.585195	0.648589	0.622421
\$/Box Average	2.682537	3.183944	2.968603

SOURCE: Processor Reports.

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

Dec- Nov Season	FCOJ			R-T-S OJ (except canned)			Canned OJ			Total OJ		
	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>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 Season	Frozen			Refrigerated - NFC			Refrigerated - Recon			Total OJ <sup>a</sup>		
	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	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 Season	Frozen			Refrigerated - NFC			Refrigerated - Recon			Total OJ <sup>a</sup>		
	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	193.6	4.49	276.7	1,818.9	6.57	186.2	939.7	5.05	509.2	2,975.0	5.84
2007-08	39.2	188.3	4.80	265.9	1,808.2	6.80	172.6	879.0	5.09	482.3	2,905.7	6.02
2008-09	36.1	172.3	4.78	253.1	1,686.1	6.66	189.2	849.9	4.49	482.5	2,736.5	5.67
2009-10												

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

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



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

Oct-Sept Season	Frozen			Refrigerated - NFC			Refrigerated - Recon			Total OJ		
	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	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	112.8	363.5	3.22	363.4	1,906.9	5.25	375.8	1,457.9	3.88	861.2	3,777.5	4.39
2002-03	95.3	317.3	3.33	379.7	1,959.8	5.16	352.9	1,355.3	3.84	836.4	3,677.2	4.40
2003-04	79.2	262.7	3.32	389.7	1,961.8	5.07	333.9	1,248.0	3.74	807.3	3,511.6	4.35
2004-05	69.3	228.5	3.30	370.8	1,955.2	5.27	348.2	1,294.0	3.72	795.0	3,514.0	4.42
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	54.6	238.1	4.36	332.0	2,156.8	6.50	258.0	1,285.3	4.98	650.4	3,716.4	5.71
2007-08	49.3	230.2	4.67	323.5	2,178.2	6.73	245.2	1,238.7	5.05	623.7	3,685.0	5.91
2008-09	45.2	210.7	4.66	317.1	2,089.2	6.59	260.8	1,191.1	4.57	628.5	3,527.0	5.61
2009-10												

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

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

Dec-Nov Season	FCGJ			R-T-S GJ (except canned)			Canned GJ			Total GJ		
	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>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 <sup>a</sup>

Oct-Sept Season	Frozen			Carton/Plastic/Glass			Canned/Aseptic			Total GJ		
	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

Continued on next page . . .

## Nielsen Retail GJ Sales in Grocery Stores >\$2 Million Annual Sales <sup>a</sup>

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Oct-Sept Season	Frozen			Carton/Plastic/Glass			Canned/Aseptic			Total GJ		
	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	105.7	6.83	1.7	10.2	5.95	17.6	117.7	6.70
2008-09	.3	1.6	4.87	15.4	101.7	6.61	1.6	9.3	5.95	17.3	112.6	6.52
2009-10												

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

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

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

Oct-Sept Season	Frozen			R-T-S - NFC			R-T-S - Recon			Total GJ		
	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	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	4.64	39.9	198.6	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	1.6	5.4	3.40	17.0	87.1	5.13	15.4	69.4	4.49	34.0	161.9	4.76
2004-05	1.6	5.2	3.25	11.2	71.0	6.35	11.6	63.5	5.49	24.3	139.7	5.74
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	66.3	6.97	9.4	54.9	5.85	19.8	124.8	6.30
2007-08	.9	3.7	4.14	12.6	87.1	6.92	8.3	49.2	5.92	21.8	140.0	6.42
2008-09	.8	3.3	4.26	12.4	84.0	6.76	7.7	45.0	5.83	20.9	132.4	6.32
2009-10												

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

<sup>b</sup>Includes unidentified GJ.

# Nielsen Retail GJ and GJ Cocktail Sales in Grocery Stores

## >\$2 Million Annual Sales

Oct-Sept Season	R-T-S - NFC			R-T-S - Recon			Total GJ			GJ Cocktail		
	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>	115.7 <sup>a</sup>	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	28.2 <sup>a</sup>	119.1 <sup>a</sup>	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>	110.7 <sup>a</sup>	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	5.76
2008-09	10.7	74.0	6.89	6.2	36.9	5.97	17.3	112.6	6.52	6.5	37.9	5.80
2009-10												

<sup>a</sup>Includes unidentified GJ.

# Nielsen Total OJ Market Ranking

## Over \$2MM Grocers - 2008-09 Season

Rank	Market	Mil Gal	Rank	Market	Mil Gal
	TOTAL U.S . . . . .	481.506			
1	New York . . . . .	38.486	27	Salt Lake City/Boise . . .	5.843
2	Los Angeles . . . . .	27.120	28	Richmond/Norfolk . . . .	5.840
3	Boston . . . . .	21.133	29	Baltimore . . . . .	5.676
4	Philadelphia . . . . .	18.398	30	San Diego . . . . .	5.111
5	Chicago . . . . .	15.298	31	St. Louis . . . . .	5.046
6	Washington DC . . . . .	13.787	32	Indianapolis . . . . .	4.772
7	Miami . . . . .	13.689	33	Columbus . . . . .	4.535
8	Detroit . . . . .	12.676	34	Grand Rapids . . . . .	4.492
9	San Francisco . . . . .	10.101	35	Sacramento . . . . .	4.416
10	Atlanta . . . . .	9.971	36	Milwaukee . . . . .	4.399
11	Tampa . . . . .	9.683	37	Albany . . . . .	4.172
12	Phoenix . . . . .	9.322	38	New Orleans/Mobile . . .	4.005
13	Houston . . . . .	8.918	39	Syracuse . . . . .	3.987
14	Seattle . . . . .	8.735	40	Nashville . . . . .	3.824
15	Cleveland . . . . .	7.785	41	Charlotte . . . . .	3.804
16	Minneapolis . . . . .	7.190	42	Louisville . . . . .	3.746
17	San Antonio . . . . .	7.158	43	Kansas City . . . . .	3.601
18	Denver . . . . .	7.005	44	Birmingham . . . . .	3.290
19	Dallas/Ft. Worth . . . . .	6.954	45	Oklahoma City/Tulsa . .	3.220
20	Hartford/New Haven . .	6.753	46	Los Vegas . . . . .	3.022
21	Pittsburgh . . . . .	6.742	47	Jacksonville . . . . .	2.916
22	Cincinnati . . . . .	6.579	48	Memphis . . . . .	2.729
23	Portland . . . . .	6.512	49	Omaha . . . . .	2.318
24	Raleigh/Durham . . . . .	6.222	50	West Texas . . . . .	1.993
25	Buffalo/Rochester . . . .	6.121	51	Little Rock . . . . .	1.894
26	Orlando . . . . .	6.053	52	Des Moines . . . . .	1.698
				REMAINING U.S. . . . .	82.768

# Nielsen Total GJ Market Ranking

## Over \$2MM Grocers - 2008-09 Season

Rank	Market	Mil Gal	Rank	Market	Mil Gal
	TOTAL U.S . . . . .	17.205			
1	New York . . . . .	1.482	27	Jacksonville . . . . .	0.181
2	Miami . . . . .	0.984	28	San Diego . . . . .	0.180
3	Los Angeles . . . . .	0.829	29	Pittsburgh . . . . .	0.165
4	Boston . . . . .	0.754	30	Sacramento . . . . .	0.165
5	Tampa . . . . .	0.562	31	Salt Lake City/Boise . . .	0.162
6	Philadelphia . . . . .	0.541	32	Cincinnati . . . . .	0.158
7	Chicago . . . . .	0.501	33	Charlotte . . . . .	0.147
8	Washington, DC . . . . .	0.486	34	Nashville . . . . .	0.143
9	Atlanta . . . . .	0.469	35	New Orleans/Mobile . . .	0.142
10	San Francisco . . . . .	0.424	36	Albany . . . . .	0.139
11	Seattle . . . . .	0.368	37	Indianapolis . . . . .	0.138
12	Phoenix . . . . .	0.350	38	St. Louis . . . . .	0.129
13	Houston . . . . .	0.342	39	Birmingham . . . . .	0.123
14	Orlando . . . . .	0.336	40	Oklahoma City/Tulsa . .	0.122
15	Detroit . . . . .	0.315	41	Grand Rapids . . . . .	0.121
16	Denver . . . . .	0.302	42	Kansas City . . . . .	0.119
17	San Antonio . . . . .	0.292	43	Syracuse . . . . .	0.118
18	Portland . . . . .	0.285	44	Las Vegas . . . . .	0.116
19	Dallas/Ft. Worth . . . . .	0.274	45	Columbus . . . . .	0.114
20	Cleveland . . . . .	0.230	46	Louisville . . . . .	0.109
21	Minneapolis . . . . .	0.219	47	Milwaukee . . . . .	0.102
22	Raleigh/Durham . . . . .	0.209	48	Memphis . . . . .	0.092
23	Hartford/New Haven . . .	0.207	49	West Texas . . . . .	0.077
24	Richmond/Norfolk . . .	0.190	50	Little Rock . . . . .	0.062
25	Baltimore . . . . .	0.188	51	Omaha . . . . .	0.047
26	Buffalo/Rochester . . . .	0.182	52	Des Moines . . . . .	0.041
				REMAINING U.S. . . . .	2.675



## OJ Buyer Demographics

### Gallons Per Buying Household

Demographic	10/28/01- 10/26/02	10/27/02- 10/25/03	10/26/03- 10/23/04	11/21/04- 11/19/05	10/30/05- 10/28/06	10/29/06- 10/27/07	01/01/09- 12/31/09
----- gallons -----							
<b><u>AGE</u></b>							
Under 35	7.51	7.26	7.27	7.07	6.10	5.42	5.61
35 to 44	8.69	8.41	8.21	7.44	7.03	6.06	6.21
45 to 54	8.78	8.38	8.47	7.61	7.29	6.32	6.21
55 to 64	8.93	8.62	8.45	7.76	7.33	6.70	6.49
65 and Over	9.84	9.80	9.62	8.95	8.23	7.42	6.91
<b><u>HH SIZE</u></b>							
1 Member	7.05	7.26	6.88	6.32	6.06	5.31	5.43
2 Members	8.88	8.34	8.30	7.66	7.07	6.64	6.27
3 to 4 Members	9.10	9.00	8.85	8.23	7.57	6.55	6.68
5 or More	10.66	10.58	10.13	9.23	8.52	6.99	7.60
<b><u>INCOME</u></b>							
Under \$20,000	6.87	7.18	6.94	6.36	5.80	5.09	5.01
\$20,000-29,999	7.96	7.77	8.04	7.25	6.45	5.90	5.70
\$30,000-39,999	8.83	8.08	8.41	7.94	6.80	6.05	6.14
\$40,000-49,999	9.11	8.98	8.31	7.53	7.16	6.11	6.05
\$50,000-69,999	9.20	9.21	8.97	8.08	7.44	6.55	6.45
\$70,000+	10.15	9.88	9.44	8.93	8.05		
\$70,000-99,999						6.89	6.94
\$100,000+						7.25	7.45
<b><u>KIDS</u></b>							
None Under 18	8.50	8.37	8.14	7.52	6.98	6.29	6.30
Under 18	9.22	8.94	8.79	8.08	7.50	6.47	6.54

Source: Nielsen.

## OJ Buyer Demographics

### Household Penetration (% Buying)

Demographic	10/28/01- 10/26/02	10/27/02- 10/25/03	10/26/03- 10/23/04	11/21/04- 11/19/05	10/30/05- 10/28/06	10/29/06- 10/27/07	01/01/09- 12/31/09
----- % -----							
<b><u>AGE</u></b>							
Under 35	83.42	84.25	82.85	79.91	78.99	76.47	76.12
35 to 44	83.43	81.62	81.94	80.05	80.13	75.17	75.51
45 to 54	81.91	81.36	78.92	76.82	77.48	71.27	71.29
55 to 64	80.68	79.66	78.59	76.60	74.63	70.29	68.97
65 and Over	81.43	81.08	79.74	79.80	76.20	72.07	69.64
<b><u>HH SIZE</u></b>							
1 Member	70.46	69.40	67.18	66.04	64.20	59.20	57.54
2 Members	81.33	80.79	79.58	77.40	75.80	71.65	70.85
3 to 4 Members	84.81	84.80	83.77	82.14	81.81	77.02	77.33
5 or More	87.86	86.79	85.48	84.41	82.37	79.06	79.93
<b><u>INCOME</u></b>							
Under \$20,000	72.45	71.33	70.62	69.20	68.20	61.06	59.77
\$20,000-29,999	78.66	75.30	76.54	73.88	70.61	66.34	64.64
\$30,000-39,999	78.68	80.04	77.52	77.25	74.66	69.24	68.15
\$40,000-49,999	81.50	82.04	80.75	78.30	74.60	71.53	72.58
\$50,000-69,999	84.34	84.29	81.57	79.71	77.49	73.41	72.95
\$70,000+	85.73	85.95	83.68	82.34	80.19		
\$70,000-99,999						75.38	75.20
\$100,000+						77.31	76.39
<b><u>KIDS</u></b>							
None Under 18	77.85	76.78	75.40	73.67	71.52	67.30	66.21
Under 18	85.24	85.45	83.94	82.25	82.17	77.37	78.28

Source: Nielsen.

## GJ Buyer Demographics

### Gallons Per Buying Household

Demographic	10/28/01- 10/26/02	10/27/02- 10/25/03	10/26/03- 10/23/04	11/21/04- 11/19/05	10/30/05- 10/28/06	10/29/06- 10/27/07	01/01/09- 12/31/09
----- gallons -----							
<b><u>AGE</u></b>							
Under 35	1.64	1.55	2.11	1.86	1.32	1.35	1.37
35 to 44	2.14	2.34	2.01	1.86	1.84	1.90	1.84
45 to 54	2.85	2.82	2.52	1.80	2.27	1.72	1.89
55 to 64	2.55	2.55	2.38	2.26	2.34	2.04	2.26
65 and Over	2.81	2.56	2.56	2.58	2.52	2.39	1.94
<b><u>HH SIZE</u></b>							
1 Member	2.82	2.35	2.56	2.20	2.31	2.20	2.24
2 Members	2.99	2.96	2.77	2.31	2.50	2.17	2.23
3 to 4 Members	2.43	2.24	2.29	2.11	1.92	1.85	1.59
5 or More	2.15	1.94	1.82	1.51	1.36	1.17	1.62
<b><u>INCOME</u></b>							
Under \$20,000	2.05	2.06	2.16	1.53	1.60	1.39	1.77
\$20,000-29,999	2.86	1.93	2.12	2.12	1.70	1.73	1.82
\$30,000-39,999	2.26	2.24	2.53	1.95	1.56	1.52	1.94
\$40,000-49,999	2.97	2.25	2.29	1.84	2.44	1.73	1.42
\$50,000-69,999	3.21	3.31	2.90	2.72	2.43	2.27	2.03
\$70,000+	2.74	2.76	2.66	2.47	2.50		
\$70,000-99,999						2.32	2.64
\$100,000+						2.30	1.90
<b><u>KIDS</u></b>							
None Under 18	3.00	2.69	2.62	2.27	2.38	2.19	2.21
Under 18	2.04	2.02	2.13	1.88	1.73	1.54	1.49

Source: Nielsen.

## GJ Buyer Demographics

### Household Penetration (% Buying)

Demographic	10/28/01- 10/26/02	10/27/02- 10/25/03	10/26/03- 10/23/04	11/21/04- 11/19/05	10/30/05- 10/28/06	10/29/06- 10/27/07	01/01/09- 12/31/09
----- % -----							
<b><u>AGE</u></b>							
Under 35	9.95	11.58	9.41	7.36	6.41	6.78	6.07
35 to 44	13.55	12.30	11.33	8.22	8.32	7.78	7.11
45 to 54	15.78	13.41	11.79	8.94	8.61	8.72	7.73
55 to 64	14.47	12.76	12.45	8.58	8.34	8.75	7.28
65 and Over	11.47	10.30	9.56	6.96	6.66	6.13	6.21
<b><u>HH SIZE</u></b>							
1 Member	11.89	11.32	10.75	7.18	6.16	6.91	6.70
2 Members	14.27	12.32	11.45	8.73	8.26	8.46	7.74
3 to 4 Members	13.53	12.57	11.17	8.38	7.88	7.49	7.34
5 or More	11.71	12.85	10.20	7.66	8.28	8.22	5.87
<b><u>INCOME</u></b>							
Under \$20,000	11.74	10.51	10.27	7.25	6.54	6.62	6.02
\$20,000-29,999	12.15	11.27	9.82	7.22	7.07	6.84	7.25
\$30,000-39,999	12.13	11.42	10.03	8.38	7.80	7.46	5.79
\$40,000-49,999	13.05	12.29	11.79	8.37	7.40	7.33	7.04
\$50,000-69,999	13.86	12.26	12.14	8.25	7.29	7.78	7.42
\$70,000+	15.24	15.15	12.34	9.24	8.47		
\$70,000-99,999						8.16	7.83
\$100,000+						9.34	8.05
<b><u>KIDS</u></b>							
None Under 18	13.59	12.28	11.48	8.22	7.50	7.80	7.30
Under 18	12.32	12.02	10.18	7.89	7.76	7.61	6.85

Source: Nielsen.

## U.S. Per Capita Beverage Consumption

Year	Milk	Bottled Water	Soft Drinks	Selected Fruit Juices				
				OJ	GJ	Apple	Grape	TOTAL <sup>a</sup>
----- gallons -----								
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	.2	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	.4	8.1
1996	23.8	12.4	51.6	5.2	.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	16.7	53.2	5.5	.5	1.8	.3	8.9
2001	22.0	18.2	52.9	5.2	.5	1.8	.3	8.5
2002	21.9	20.1	52.8	5.0	.5	1.8	.4	8.4
2003	21.6	21.6	52.6	4.9	.4	1.9	.4	8.4
2004	21.3	23.2	52.5	4.9	.4	2.1	.4	8.5
2005	21.0	25.5	51.7	4.8	.2	1.9	.5	8.1
2006	21.0	27.7	50.6	4.4	.2	2.2	.4	8.0
2007	20.6	29.1	48.8	4.1	.3	2.3	.6	7.9
2008	20.8	28.5	46.9	3.3	.3	2.1	.4	6.9
2009								

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

SOURCE: USDA-ERS.

## Nutrition Values of Citrus

ITEM	REFER- ENCE VALUE	JUICE		FRESH		
		ORANGE	GRAPEFRUIT	ORANGES	GRAPEFRUIT	TANGERINES
SERVING SIZE		1 cup / 8-oz.		154g / 1 med. fruit	154g / ½ med. fruit	109g / 1 med. fruit
		----- Amount Per Serving (% Daily Value) -----				
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%)
Total Carbohydrates	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%) 600 (12%) <sup>a</sup>	100 (2%)	750 (15%) <sup>1</sup>	750 (15%)
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).<sup>a</sup>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>a</sup>The lowest score of any one 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.  
**SOURCE: *Federal Register.***

# 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

**SOURCE:** *Federal Register.*



## 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

**SOURCE:** *Federal Register.*

## 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

**SOURCE:** *Federal Register.*

# Florida Orange Standards

Minimum Total Solids (%)				Solids to Acid Minimum Ratio				Minimum Total Solids (%)				Solids to Acid 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	
<sup>c</sup> 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 <sup>e</sup>	
9.5 to	“	9.6	—	9.75	to	1									

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

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

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

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

<sup>d</sup>Minimum solids for oranges August 1 thru October 31.

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

**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.

# Florida Grapefruit Standards

Minimum Total Solids (%)				Solids to Acid Minimum Ratio		Minimum Total Solids (%)				Solids to Acid Minimum Ratio	
<sup>a</sup> 6.5	}	— — — — — — — —		7.00	to 1	10.4 to (not incl) 10.5	—	6.40	to 1		
<sup>b</sup> 7.0											
<sup>c</sup> 7.5											
<sup>d</sup> 8.0											
8.1 to (not incl)		9.1	—	7.00	to 1	10.6 to “	—	6.35	to 1		
9.1 to “		9.2	—	6.95	to 1	10.7 to “	—	6.325	to 1		
9.2 to “		9.3	—	6.90	to 1	10.8 to “	—	6.30	to 1		
9.3 to “		9.4	—	6.85	to 1	10.9 to “	—	6.275	to 1		
9.4 to “		9.5	—	6.80	to 1	11.0 to “	—	6.25	to 1		
9.5 to “		9.6	—	6.75	to 1	11.1 to “	—	6.225	to 1		
9.6 to “		9.7	—	6.70	to 1	11.2 to “	—	6.20	to 1		
9.7 to “		9.8	—	6.65	to 1	11.3 to “	—	6.175	to 1		
9.8 to “		9.9	—	6.60	to 1	11.4 to “	—	6.15	to 1		
9.9 to “		10.0	—	6.55	to 1	11.5 to “	—	6.125	to 1		
10.0 to “		10.1	—	6.50	to 1 <sup>g</sup>	11.6 to “	—	6.10	to 1		
10.1 to “		10.2	—	6.475	to 1	11.7 to “	—	6.075	to 1		
10.2 to “		10.3	—	6.45	to 1	11.8 to “	—	6.05	to 1		
10.3 to “		10.4	—	6.425	to 1	11.9 to “	—	6.025	to 1		
						12.0 and above	—	6.00	to 1 <sup>h</sup>		

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

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

<sup>e</sup> 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>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>g</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.

<sup>h</sup> Minimum 6.00 ratio for all grapefruit, April 15 thru July 31.

**NOTE 1:** Until Dec. 1 of each year, all grapefruit for processing must meet fresh fruit requirements unless otherwise noted. 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.

# 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.**

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

**SOURCE: FDACS.**

## Florida Temple Orange Standards

Minimum Total Solids (%)				Solids to Acid Minimum Ratio			
<sup>a</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	—	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	and above			—	7.5	to	1 <sup>c</sup>

<sup>a</sup>Minimum solids for all Temples.

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

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

**NOTE 1:** Until December 1 of each year, all Temples 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 tables.

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

SOURCE: FDACS.

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

Minimum Total Solids (%)				Solids to Acid Minimum 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	and above			—	7.25 to 1

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

**NOTE 1:** Until December 1 of each year, all tangerines 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 tables.

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

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

Minimum Total Solids (%)			Solids to Acid Minimum 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	—	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
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	and above		—	7.5	to 1

<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>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 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 tables.

**NOTE 2:** 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				
<sup>b</sup> 8.0	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		
<sup>c</sup> 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		
<sup>e</sup> 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			<sup>g</sup> See Below					—	8.00	to	1	
10.0	to	“	10.1	—	9.50	to	1												

<sup>a</sup>Minimum acid 0.40 Tangelo.

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

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

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

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

<sup>f</sup>Flat 8.55 to 1 ratio for fresh December 1 thru January 31, with NO minimum solids.

<sup>g</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 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.

# **Glossary of Acronyms**

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<b>CAC:</b>	<b>Citrus Administrative Committee</b>
<b>CACEX:</b>	<b>Carteira de Comercio Exterior</b>
<b>CGJ:</b>	<b>Chilled Grapefruit Juice</b>
<b>COJ:</b>	<b>Chilled Orange Juice</b>
<b>CPI:</b>	<b>Consumer Price Index</b>
<b>CSSGJ:</b>	<b>Canned Single-Strength Grapefruit Juice</b>
<b>CSSOJ:</b>	<b>Canned Single-Strength Orange Juice</b>
<b>DECEX:</b>	<b>Departamento de Comercio Exterior</b>
<b>EMRD:</b>	<b>Economic and Market Research Department</b>
<b>FAO:</b>	<b>Food and Agriculture Organization of the United Nations</b>
<b>FAS:</b>	<b>Foreign Agricultural Service</b>
<b>FASS:</b>	<b>Florida Agricultural Statistics Service</b>
<b>FCBJ:</b>	<b>Frozen Concentrated Blended Juice</b>
<b>FCGJ:</b>	<b>Frozen Concentrated Grapefruit Juice</b>
<b>FCM:</b>	<b>Florida Citrus Mutual</b>
<b>FCOJ:</b>	<b>Frozen Concentrated Orange Juice</b>
<b>FCPA:</b>	<b>Florida Citrus Proc. Assoc. (Replaced by Processor Reports)</b>
<b>FCTJ:</b>	<b>Frozen Concentrated Tangerine Juice</b>
<b>FDACS:</b>	<b>Florida Department of Agriculture and Consumer Services</b>
<b>FDOC:</b>	<b>Florida Department of Citrus</b>
<b>FOB:</b>	<b>Free on Board</b>
<b>FRED:</b>	<b>Food and Resource Economics Department</b>
<b>GJ:</b>	<b>Grapefruit Juice</b>
<b>ICE:</b>	<b>Intercontinental Exchange</b>
<b>IFAS:</b>	<b>Institute of Food and Agricultural Sciences</b>
<b>MT:</b>	<b>Metric Ton</b>
<b>NA:</b>	<b>Not Available</b>
<b>NASS:</b>	<b>National Agricultural Statistics Service</b>
<b>NFC:</b>	<b>Not From Concentrate</b>
<b>NSPF:</b>	<b>Not Specifically Provided For</b>
<b>OJ:</b>	<b>Orange Juice</b>
<b>PS:</b>	<b>Pounds Solids</b>
<b>RTS:</b>	<b>Ready to Serve</b>
<b>SSE:</b>	<b>Single Strength Equivalent</b>
<b>UF:</b>	<b>University of Florida</b>
<b>USDA:</b>	<b>United States Department of Agriculture</b>

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# **Florida Department of Citrus**

## **Economic and Market Research Department**

