

Citrus Reference Book



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Florida Department of Citrus
Economic and Market Research Department
June 2012

CITRUS REFERENCE BOOK

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Economic and Market Research Department

June 2012

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Economic and Market Research Department

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Bearing Acreage: Oranges

Season	Florida	Texas	Calif.	Arizona	U.S. ^a	Florida Temples
----- 1,000 acres -----						
1984-85	420.1	11.4	175.3	10.9	617.7	12.2
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	c
2007-08	463.9	8.8	188.0	2.4	663.1	c
2008-09	459.1	8.8	186.0	2.4	656.3	c
2009-10	451.0	8.8	183.0	NA	642.8	c
2010-11 ^b	440.0	8.8	180.0	NA	628.8	c
2011-12						

^aMay not add up due to rounding.

^bPreliminary.

^cTemples included with Florida oranges.

SOURCE: FASS.

Bearing Acreage: Grapefruit

Season	Florida	Texas	Calif.	Arizona	U.S.
----- 1,000 acres -----					
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	113.0
2004-05	71.0	18.5	12.0	1.0	102.5
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	51.9	18.5	9.6	.4	80.4
2009-10	48.1	18.5	9.6	NA	76.2
2010-11 ^a	46.5	18.5	9.4	NA	74.4
2011-12					

^aPreliminary.

SOURCE: FASS.

Florida Commercial Citrus Acreage

Census Year	Oranges	Grapefruit	Specialty Fruit ^a	Total
----- acres -----				
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	483,418	50,189	20,430	554,037
2011	473,086	48,990	19,252	541,328
2012				

^aIncludes lemons, limes and other citrus.

SOURCE: FASS.

Florida Commercial Citrus Bearing Acreage

Census Year	Oranges	Grapefruit	Specialty Fruit ^a	Total
----- acres -----				
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	451,196	48,071	20,077	519,344
2011	440,130	46,502	18,863	505,495
2012				

^aIncludes lemons, limes and other citrus.

SOURCE: FASS.

Florida Commercial Citrus Trees

Census Year	Oranges	Grapefruit	Specialty Fruit ^a	Total
----- 1,000 trees -----				
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	63,776.7	5,445.9	2,942.2	72,164.8
2011	62,528.9	5,349.6	2,762.2	70,640.7
2012				

^aIncludes lemons, limes and other citrus.

SOURCE: FASS.

Florida Commercial Citrus Bearing Trees

Census Year	Oranges	Grapefruit	Specialty Fruit ^a	Total
----- 1,000 trees -----				
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	59,560.8	5,201.0	2,894.0	67,655.8
2011	58,160.4	5,036.4	2,711.9	65,908.7
2012				

^aIncludes lemons, limes and other citrus.

SOURCE: FASS.

Production: Oranges

Season	Florida	Texas	Calif.	Arizona	U.S. ^a	Florida Temples
----- million 90-pound boxes -----						
1986-87	119.7	.8	48.3	2.3	171.0	3.4
1987-88	138.0	1.4	49.2	1.5	190.0	3.6
1988-89	146.6	1.7	49.1	1.4	198.8	3.8
1989-90	110.2	1.1	59.5	1.3	172.2	1.4
1990-91	151.6	—	21.3	1.5	174.4	2.5
1991-92	139.8	^b	56.2	2.0	198.0	2.4
1992-93	186.6	.5	55.7	1.5	244.3	2.5
1993-94	174.4	.5	53.0	1.6	229.5	2.3
1994-95	205.5	1.0	46.7	.9	254.0	2.6
1995-96	203.3	.9	48.3	1.4	253.9	2.2
1996-97	226.2	1.3	53.3	1.2	282.0	2.4
1997-98	244.0	1.4	57.5	.8	303.8	2.3
1998-99	186.0	1.4	30.0	1.0	218.3	1.8
1999-00	233.0	1.6	53.3	.9	288.8	2.0
2000-01	223.3	2.1	45.4	.8	271.6	1.3
2001-02	230.0	1.6	42.9	.4	275.0	1.6
2002-03	203.0	1.5	51.7	.4	256.5	1.3
2003-04	242.0	1.6	42.1	.4	286.0	1.4
2004-05	149.8	1.7	53.8	.4	205.6	.7
2005-06	147.7	1.5	50.8	.4	200.4	.7
2006-07	129.0	1.9	38.3	.3	169.5	^d
2007-08	170.2	1.7	51.7	.3	223.9	^d
2008-09	162.5	1.4	38.8	.2	202.8	^d
2009-10	133.7	1.5	47.9	0	183.2	^d
2010-11 ^c	140.5	1.8	55.6	0	197.9	^d
2011-12						

^aMay not add up due to rounding.

^bLess than 50,000 boxes.

^cPreliminary.

^dTemples included in Oranges beginning 2006-07.

SOURCE: FASS.

Production: Grapefruit

Season	Florida	Texas	Calif.	Arizona	U.S.
----- million 85-pound boxes -----					
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 ^a	4.3	6.4	.9	64.0
1996-97	55.8 ^b	5.0	6.5	.6	67.9
1997-98	49.6 ^b	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 ^c	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	21.7	5.2	3.8	—	30.7
2009-10	20.3	5.3	3.5	0	29.1
2010-11 ^d	19.7	5.9	4.0	0	29.7
2011-12					

^aExcludes 3 million boxes of economic abandonment. ^bExcludes 6 million boxes of economic abandonment. ^cExcludes 2 million boxes of economic abandonment.

^dPreliminary.

SOURCE: FASS.

Production: Specialty Fruit

Season	Tangerines			Florida			Lemons	
	Florida	Calif.	Arizona	Tangelos	K-Early	Limes	Calif.	Arizona
----- 1,000 boxes -----								
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	3,850	6,700	250	1,150	a	a	21,000	3,000
2009-10	4,450	9,900	350	900	a	a	21,000	2,200
2010-11 ^b	4,650	9,900	300	1,150	a	a	20,500	2,500
2011-12								

^aNo longer reported.

^bPreliminary.

SOURCE: FASS, *Citrus Summary*.

USDA Orange Crop Estimates Versus Actual Production

Season	Florida			California			Texas			Arizona			Total ^a
	Oct.	Actual	+ / -	Oct.	Actual	+ / -	Oct.	Actual	+ / -	Oct.	Actual	+ / -	Oct.
----- million boxes ^b -----													
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 ^c	129.0	-6.0	46.0	46.0	-	1.8	2.0	+.2	.4	.3	-.1	183.1
2007-08	168.0 ^c	170.2	+2.2	58.0	62.0	+4.0	1.8	1.8	-	.3	.4	+.1	228.1
2008-09	166.0 ^c	162.5	-3.5	44.0	46.5	+2.5	1.5	1.5	-	.3	.3	-	211.8
2009-10	136.0 ^c	133.7	-2.3	55.0	57.5	+2.5	1.5	1.6	+.1	NF	-	-	192.5
2010-11	146.0 ^c	140.5	-5.5	60.5	62.5	+2.0	1.7	1.9	+.2	NF	-	-	208.2
2011-12	147.0 ^c			57.5			1.7			NF			206.2

^aMay not add up due to rounding.

^bBox sizes: FL, 90#; CA & AZ, 75#; TX 85#.

^cIncludes 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 ^a -----													
1995-96	54.0	52.4 ^c	-1.6	8.5	8.1	-.4	5.0	4.6	-.4	1.2	1.2	—	68.7
1996-97	59.0	55.8 ^d	-3.2	8.0	8.2	+.2	5.7	5.3	-.4	1.1	.8	-.3	73.8
1997-98	54.0	49.6 ^d	-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 ^e	-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	4.8	-.7	5.3	5.5	+.2	.2	—	-.2	34.0
2009-10	19.8	20.3	+.5	4.7	4.5	-.2	5.3	5.6	+.3	NF	NF	NC	29.8
2010-11	20.0	19.8	-.2	3.8	4.3	+.5	5.5	6.3	+.8	NF	NF	NC	29.3
2011-12	20.1			3.4			5.1			NF			28.6

^aBox sizes: FL, 85#; CA & AZ, 67#; TX 80#.

^bIncludes April forecast for California.

^cExcludes 3 million boxes of economic abandonment.

^dExcludes 6 million boxes of economic abandonment.

^eExcludes 2 million boxes of economic abandonment.

SOURCE: FASS.

USDA Crop Estimates (Current)

Time Period ^a	Oranges			Grapefruit		
	FL ^b	TX	CA	FL	TX	CA

----- million boxes^c -----

2011-12

OCT	147.0	1.7	57.5	20.1	5.1	3.4
DEC	150.0	1.7	57.5	19.4	5.1	3.4
JAN	147.0	1.6	57.5	19.2	5.0	3.3
FEB	146.0	1.6	57.5	18.7	5.0	3.3
MAR	147.0	1.6	58.0	18.7	5.0	3.3
APR	145.0	1.4	58.0	18.8	5.3	3.4
MAY	145.2	1.4	58.0	18.8	5.3	3.4
JUN						
JUL						

^aNo November crop estimate is made.

^bIncludes Temples.

^cFL 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 -----										
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
2010-11	1.61	1.61	1.61	1.61	1.57	1.57	1.58	1.58	1.59	1.59
2011-12	1.60	1.60	1.60	1.62	1.63	1.64	1.62	1.61		

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	
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	24.0	a	a
2009-10	1.0	.9	4.9	4.5	7.0	9.9	.4	.4	22.5	23.2	a	a
2010-11	1.1	1.2	4.5	4.7	10.0	9.9	.3	.3	23.7	23.0	a	a
2011-12	1.1		4.7		10.3		.2		20.8		a	a

^aNo longer forecast or reported.

SOURCE: FASS, *Citrus Summary*.

Utilization of Florida Oranges

Season	Fresh	Frozen Concen- trate	Chilled Juice	Non- Certified	Other	Total ^a
----- million 90-pound boxes -----						
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	93.6	80.1	2.2	1.2	185.7
1999-00	6.9	129.5	90.1	2.4	4.0	233.0
2000-01	6.7	120.5	89.6	2.9	3.6	223.3
2001-02	6.9	132.2	85.9	2.6	2.5	230.0
2002-03	6.3	98.7	92.5	3.4	2.1	203.0
2003-04	6.2	137.5	93.4	3.7	1.2	242.0
2004-05	4.9	52.2	88.5	2.5	1.7	149.8
2005-06	4.5	49.0	88.7	2.8	2.7	147.7
2006-07	5.0	45.9	74.5	1.4	2.1	129.0
2007-08	4.4	78.0	84.7	1.4	1.7	170.2
2008-09	5.5	71.2	82.6	1.4	1.8	162.5
2009-10	4.5	51.3	74.9	1.4	1.7	133.7
2010-11	4.5	50.3	82.6	1.4	1.5	140.3

^a 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 -----						
1996-97	22.1	25.0	7.1	1.1	.5	55.8 ^a
1997-98	20.0	20.6	7.2	1.2	.6	49.6 ^a
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 ^b
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
2009-10	8.7	6.0	4.6	.7	.3	20.3
2010-11	7.7	7.0	4.1	.7	.3	19.8

^a Excludes 6 million boxes of economic abandonment.

^b Excludes 2 million boxes of economic abandonment.

SOURCE: FDOC-EMRD.

Total Shipments of Florida Fresh Citrus^a

Aug-July Season	Grapefruit	Oranges	Temples	Tangelos	Honey Tangerines	Tangerines	Total
----- thousand 4/5-bushel cartons -----							
1995-96	43,535	16,985	1,204	1,614	2,114	3,875	69,326
1996-97	44,224	18,690	879	1,584	1,958	5,163	72,498
1997-98	39,922	17,411	851	1,339	2,610	3,837	65,968
1998-99	37,399	17,303	956	1,199	2,651	4,102	63,610
1999-00	33,925	13,906	694	1,076	3,427	4,972	58,002
2000-01	31,850	13,397	585	1,096	2,368	4,517	53,813
2001-02	31,783	13,860	592	967	2,627	5,162	54,992
2002-03	28,270	12,552	471	837	3,380	3,883	49,392
2003-04	30,350	12,310	552	646	3,968	4,284	52,111
2004-05	13,409	9,810	313	628	2,771	3,336	30,267
2005-06	12,473	9,065	284	658	3,252	3,435	29,167
2006-07	20,623	9,939	^b	691	2,639	2,928	36,821
2007-08	19,829	8,847	^b	717	2,874	3,210	35,477
2008-09	17,353	11,089	^b	827	1,686	3,470	34,426
2009-10	17,421	8,977	^b	638	2,750	2,710	32,496
2010-11	15,455	8,956	^b	684	2,310	3,107	30,513

^aColumns may not add up due to rounding.

^bTemples 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 -----							
61	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
	2009-10	6,109	1,151	3,455	6,277	426	3	17,421
	2010-11	5,396	1,098	3,121	5,409	426	5	15,455

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 -----							
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
2009-10	8,241	550	53	0	130	3	8,977
2010-11	8,259	554	43	1	96	3	8,956

SOURCE: FDOC-EMRD.

World Orange Production

Country	Average					2010
	1961-1969	1970-1979	1980-1989	1990-1999	2000-2009	
----- 1,000 metric tons -----						
United States	5,235	8,491	7,808	9,513	9,715	7,479
% of U.S. to World	26.8%	27.4%	18.5%	16.6%	15.1%	10.8%
Florida ^a	4,097	6,841	5,821	7,551	7,754	5,458
% of Florida to World	20.9%	22.1%	13.8%	13.1%	12.1%	7.9%
Brazil	2,281	5,785	13,335	20,009	18,280	19,112
India	864	1,214	1,386	2,001	3,438	6,268
China	67	162	631	1,707	2,722	5,003
Mexico	1,262	1,672	1,954	3,159	4,071	4,052
Spain	1,748	1,878	1,976	2,622	2,884	3,120
Egypt	398	775	1,183	1,558	1,921	2,401
Italy	1,079	1,552	1,860	1,785	2,089	2,394
Indonesia	96	166	454	508	1,782	2,033
Turkey	306	541	694	869	1,364	1,711
Pakistan	307	437	946	1,294	1,396	1,542
Iran, Islamic Rep. Of	92	266	730	1,604	2,139	1,503
South Africa	450	543	581	867	1,326	1,415
Morocco	548	679	763	907	762	849
Argentina	582	781	645	749	845	833
Greece	362	493	729	930	915	770
Algeria	291	338	196	245	433	740
Viet Nam	54	85	102	294	558	729
Syrian Arab Republic	3	17	75	281	515	669
All Others	3,541	5,123	6,173	6,580	7,018	6,793
WORLD TOTAL	19,568	30,996	42,221	57,482	64,174	69,416

^aTemples included.

SOURCE: FAO-FAOSTAT-Agricultural Data.

World Grapefruit Production

Country	Average					2010
	1961-1969	1970-1979	1980-1989	1990-1999	2000-2009	
----- 1,000 metric tons -----						
United States	1,631	2,433	2,370	2,316	1,688	1,123
% of U.S. to World	68.5%	64.1%	55.6%	48.2%	30.0%	16.1%
Florida	1,310	1,802	1,861	1,889	1,285	783
% of Florida to World	55.0%	47.5%	43.6%	38.9%	22.9%	11.3%
China	18	21	53	217	1,045	2,869
Mexico	13	55	105	157	353	401
South Africa	67	101	90	137	346	343
Thailand	9	14	14	80	264	295
India	22	26	40	94	159	260
Turkey	4	13	25	65	151	214
Israel	165	410	422	384	260	204
Argentina	70	159	161	200	220	189
Cuba	12	31	210	295	207	138
Tunisia	2	10	30	51	75	89
Brazil	25	33	46	62	67	72
Bangladesh	3	3	6	11	37	58
Sudan	40	49	56	61	67	54
Iran, Islamic Rep. of	2	7	21	52	45	47
Paraguay	16	38	75	66	43	44
Spain	5	6	15	25	33	43
Swaziland	15	34	39	41	37	37
Belize	8	12	22	40	53	36
All Others	241	330	445	492	466	443
WORLD TOTAL	2,381	3,796	4,264	4,862	5,615	6,958

SOURCE: FAO-FAOSTAT-Agricultural Data.

World Tangerine Production

Country	Average					2010
	1961-1969	1970-1979	1980-1989	1990-1999	2000-2009	
----- 1,000 metric tons -----						
United States	302	572	539	474	421	540
% of U.S. to World	7.7%	7.6%	5.3%	3.0%	1.9%	2.5%
Florida	173	202	141	162	237	192
% of Florida to World	4.4%	2.7%	1.4%	1.0%	1.1%	0.9%
China	251	453	1,575	5,481	9,663	10,121
Spain	181	623	1,083	1,684	2,086	1,708
Brazil	282	420	620	731	1,164	1,123
Turkey	45	110	246	421	680	859
Egypt	66	88	115	355	664	797
Japan	1,450	3,232	2,463	1,438	1,071	786
Korea, Rep. of	2	55	355	585	649	615
Pakistan	108	156	350	481	519	573
Morocco	75	174	293	335	405	473
Argentina	165	238	423	556	501	424
Mexico	86	101	129	223	396	409
Thailand	261	318	464	675	661	280
Iran, Islamic Rep. of	21	62	176	611	612	276
Italy	183	316	409	462	653	241
Peru	8	18	27	78	163	221
Algeria	109	147	93	93	136	186
Nepal	0	0	0	67	105	175
Israel	42	71	120	125	114	152
All Others	263	402	644	1,012	1,263	1,354
WORLD TOTAL	3,899	7,554	10,122	15,886	21,925	21,312

SOURCE: FAO-FAOSTAT-Agricultural Data.

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

Production Season ^a	Bearing Trees	Oranges Produced	Oranges Utilized for Frozen Concentrate ^b		Frozen Concentrate Production ^b		
					65 ° Brix	SSE	
	- million -	---	million boxes	---	- % of total -	- thousand MT -	- million gallons -
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	164	320	274	86	1,220	1,699	
2010-11	167	275	247	90	1,095	1,525	
2011-12 ^c	171	400	335	84	1,440	2,005	
2012-13 ^d	169	340	298	88	1,245	1,734	

^a July-June.

^b Beginning 2004-05, includes NFC for export.

^c Estimate.

^d Projected.

SOURCE: FAS.

Brazil FCOJ Exports and Prices

Year	Exports	U.S. \$ per MT ^a	Season	Exports	U.S. \$ per MT ^a
	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	2009-10	524,981	1,258
1988	663,600	1,716	2010-11	422,883	1,722
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			

^aFOB value of product, Brazil.

SOURCES: CACEX, DECEX, FAS.

Estimated U.S. Orange-Juice Availability

Oct-Sept Season	Florida				Texas ^a	Calif./ ^a 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
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	911.4	3.2	63.4	129.9	357.5	119.1	1,216.3	873
2005-06	341.7	NA	592.6	934.3	1.9	69.8	97.8	298.8	137.7	1,167.2	838
2006-07	319.3	NA	501.6	820.9	3.0	77.5	169.0	399.2	122.6	1,177.9	846
2007-08	546.0	NA	563.1	1,109.1	2.4	61.6	180.3	405.5	138.7	1,439.9	1,034
2008-09	487.9	NA	548.8	1,036.7	1.3	30.8	126.9	317.4	124.7	1,261.4	906
2009-10	332.2	NA	475.5	807.7	1.1	39.6	108.3	327.6	146.7	1,029.3	739
2010-11	331.6	NA	531.6	863.2	1.7	54.0	96.6	265.2	214.2	970.0	697

^aBased 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 ^a	Total Presumed Consump- tion	Sales		Popula- tion	Per Capita Consump- tion
				Retail ^b	Other ^c		
----- million SSE gallons -----						millions	SSE gal.
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	+106	1,599	872	726	281	5.7
2000-01	1,534	+52	1,482	889	593	284	5.2
2001-02	1,455	-5	1,460	862	598	287	5.1
2002-03	1,447	+14	1,433	836	596	290	4.9
2003-04	1,575	+135	1,440	807	633	292	4.9
2004-05	1,216	-178	1,394	795	599	295	4.7
2005-06	1,167	-183	1,350	745	605	298	4.5
2006-07	1,178	-86	1,264	650	614	301	4.2
2007-08	1,440	+274	1,166	624	542	303	3.8
2008-09	1,261	+42	1,219	629	591	306	4.0
2009-10	1,029	-126	1,155	608	546	309	3.7
2010-11	970	-165	1,135	566	569	311	3.7

^a2004-05 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.

^bAll outlets.

^cIncludes unidentified inventory.

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

Estimated U.S. Grapefruit-Juice Availability

Oct-Sept Season	Florida				Texas ^a	Calif./ ^a Arizona	U.S. Imports	Total Supply	U.S. Exports	Total Domestic Availability
	FCGJ	CSSGJ	CGJ	Total						
----- million SSE gallons -----										
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	28.1	91.3	17.5	2.0	.9	111.6	37.2	74.5
2007-08	54.7	NA	32.9	87.7	13.0	.0	.3	101.0	36.4	64.6
2008-09	43.0	NA	23.3	66.2	11.1	.0	.5	77.8	33.9	43.9
2009-10	31.6	NA	29.4	61.1	11.0	.0	.6	72.7	22.7	49.9
2010-11	37.2	NA	25.2	62.3	14.0	.0	.4	76.7	29.7	46.9

^aBased 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 ^a	Other ^b		
----- million SSE gallons -----						millions	SSE gal.
1996-97	151	+20	131	50	81	272	.48
1997-98	132	-17	149	57	91	275	.54
1998-99	129	-31	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	+11	114	40	74	287	.40
2002-03	89	-14	103	37	66	290	.35
2003-04	78	-7	85	34	51	292	.29
2004-05	35	-34	69	24	45	295	.24
2005-06	61	+8	53	20	33	298	.18
2006-07	75	+16	59	20	39	301	.19
2007-08	65	+3	62	22	40	303	.20
2008-09	44	-13	57	21	36	306	.19
2009-10	50	-3	53	20	33	309	.17
2010-11	47	-9	56	19	37	311	.18

^aAll outlets.

^bIncludes 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 \$ -
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	10,423.6
2008	214.1	215.3	304.4	11,024.5
2009	218.0	214.5	307.0	10,788.8 ^a
2010	219.6	218.1	309.3	11,179.7 ^a
2011	227.8	224.9	311.6	11,604.9 ^a

^aPreliminary.

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

Estimated FOB Value of the Florida Citrus Industry, 2006/07-2010/11

Oranges			
Season	Without HLB	With HLB	Difference
----- million \$ -----			
2006-07	2,014	1,593	421
2007-08	1,949	1,841	108
2008-09	2,271	2,053	218
2009-10	2,215	1,730	485
2010-11	2,463	1,987	476
CUMULATIVE TOTAL	10,913	9,204	1,709

SOURCE: A.W. Hodges & T.H. Spreen, "Economic Impacts of Citrus Greening (HLB) in Florida, 2006/07-2010/11," FE-903, UF-IFAS-FRED, Gainesville, FL, January 2012.

Estimated Economic Impact^a of Orange Production for Juice Processing in Florida, 2006/07-2010-11

Item	Value Added	Output/Sales	Employment
----- million \$ -----			
Without HLB	17,243	28,816	52,394
With HLB	14,526	24,275	44,137
Difference	-2,717	-4,541	-8,257

^aTotal effect (direct, indirect and induced).

SOURCE: A.W. Hodges & T.H. Spreen, "Economic Impacts of Citrus Greening (HLB) in Florida, 2006/07-2010/11," FE-903, UF-IFAS-FRED, Gainesville, FL, January 2012.

Florida Delivered-In Costs

	95-96	00-01	05-06	10-11	
Region/ Market/ Variety	Typical/ Historical Costs			WITH Canker/ Greening and NO Resetting-Tree Replacement	WITH Canker/ Greening and WITH Resetting-Tree Replacement

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

CENTRAL

Processed

Valencia Orange	.83	.76	1.00	1.07	1.15
-----------------	-----	-----	------	------	------

SOUTHWEST

Processed

Hamlin Orange	.84	.77	1.49	1.08	1.18
---------------	-----	-----	------	------	------

----- \$/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	4.19	4.53
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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.

*2007-08 prices; 2010-11 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 -----						
5/1986	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
5/2010	7,982	6,752	7,116	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. \$
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	108.3	77.8	133.4	327.6	235.2	392.6
2010-11	96.6	69.4	149.4	265.2	190.5	406.2
2011-12						

SOURCE: U.S. Department of Commerce.

U.S. Citrus-Juice Exports

Oct-Sep Season	Orange Juice		Grapefruit Juice		Citrus Juice, NSPF ^a	
	Volume	Value	Volume	Value	Volume	Value
	mil. SSE gal.	mil. \$	mil. SSE gal.	mil. \$	mil. SSE gal.	mil. \$
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	53.8	6.5	24.6
2009-10	146.7	420.5	12.8	42.6	6.8	26.1
2010-11	214.2	568.1	15.8	61.3	8.2	31.4
2011-12						

^aIncludes lemon juice.

SOURCE: U.S. Department of Commerce.

U.S. Imports of Fresh Citrus

Season ^a	Oranges		Grapefruit		Mandarins and Tangerines	
	Volume	Value	Volume	Value	Volume	Value
	mil. lbs.	mil. \$	mil. lbs.	mil. \$	mil. lbs.	mil. \$
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	211.11	96.52	25.46	2.69	265.92	160.56
2010-11	207.91	90.16	16.62	1.92	319.57	186.21
2011-12						

^aAugust 1 through July 31.

SOURCE: U.S. Department of Commerce.

U.S. Exports of Fresh Citrus

Season ^a	Oranges		Grapefruit		Tangerines	
	Volume	Value	Volume	Value	Volume	Value
	mil. lbs.	mil. \$	mil. lbs.	mil. \$	mil. lbs.	mil. \$
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	1,102.6	395.7	543.6	184.6	64.7	37.9
2009-10	1,445.1	538.8	533.8	193.9	75.9	47.9
2010-11	1,659.7	641.7	502.6	179.7	113.8	70.1
2011-12						

^aAugust 1 through July 31.

SOURCE: U.S. Department of Commerce.

Florida and Imported FCOJ Prices^a

Oct-Sept Season	Florida ^b		Brazil		Mexico		Other		Imported Average	
	MT ^c	PS ^d	MT ^c	PS ^d	MT ^c	PS ^d	MT ^c	PS ^d	MT ^c	PS ^d
----- dollars -----										
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	1,213	0.85	1,431	1.00	1,555	1.09	1,360	0.95
2009-10	2,035	1.42	1,326	0.93	1,724	1.20	1,972	1.38	1,562	1.09
2010-11	NA	NA	1,922	1.34	2,079	1.45	2,524	1.76	2,098	1.46

^aPrice 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.”

^bFlorida Price = Bulk Price Equivalent. Beginning November 2010, bulk prices are no longer reported.

^cMetric ton 65° Brix. ^dBased 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
TARIFF ACT OF 1930					
1930-1947	70.00		68.03	70.00	
GATT – GENEVA SWITZERLAND					
1948-1971	35.00		34.01	35.00	
GATT – KENNEDY ROUND					
1972-1988	35.00		34.01	20.00	
1989-1994*	35.02	9.25	34.04	20.07	5.3
GATT – URUGUAY ROUND					
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

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 ^a	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

^aBased 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 ^a	85	95	90	88
CA	75	67 ^b	75	76	—
TX	85	80	—	—	—
AZ	75	67 ^b	75	76	—

^aIncludes Temples & tangelos at 90 pounds.

^bAZ 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 ^a	“ ”
4/5-bushel carton grapefruit	=	2.4 ^b	“ ”

^aBased on an average yield of 6.0 SSE gallons/box. ^bBased 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^a

Item	Selected Approximate Costs	
	Take Delivery, Assuming Loading Product Out	Receive, Carry for 2 Months, and Redeliver
Commission-In ^b	\$ 20.00	\$ 20.00
Commission-Out ^b		\$ 20.00
Handling Out ^c	\$250.00 ^d	\$ 0.00 ^e
Storage ^{c,f}	\$450.00 ^g	\$600.00 ^h
Interest ⁱ	\$ 4.19	\$ 4.97
Total Per Contract	\$724.19	\$644.97
Total Points ^j	483	430

^a Ignores USDA inspection fee.

^b Rate is negotiable.

^c Published rates can change over time.

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

^e Handling cost paid for delivery offset by handling cost collected for redelivery.

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

^g Assumes 1.5 months storage at \$300.00 per month.

^h Assumes 2 months storage at \$300.00 per month.

ⁱ 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)
\$ 1.30	\$113.44	(76)	\$ 151.41	(101)
\$ 1.50	\$130.90	(87)	\$ 174.70	(116)
\$ 1.70	\$148.35	(99)	\$ 197.99	(132)

^j 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).

New York FCOJ Monthly Average Nearby Futures Settlement Price

Month	2006	2007	2008	2009	2010	2011	2012
----- cents per pound solids-----							
JAN	123.07	200.33	136.92	74.40	137.47	175.51	197.66
FEB	130.18	195.62	128.23	69.25	137.38	173.42	190.43
MAR	139.94	199.98	118.80	73.72	146.30	168.12	181.92
APR	144.84	171.73	115.73	80.55	132.96	168.87	149.18
MAY	155.09	165.03	112.30	90.74	140.29	180.07	114.39
JUN	158.23	138.36	112.00	81.95	141.05	187.99	
JUL	163.04	133.06	121.63	93.66	143.48	198.06	
AUG	177.49	129.60	103.60	97.76	138.88	174.65	
SEP	174.78	125.06	94.76	93.61	150.29	163.65	
OCT	184.62	142.53	81.41	107.96	150.68	170.00	
NOV	197.72	136.33	79.81	113.27	156.51	180.26	
DEC	201.23	144.36	73.82	128.83	163.16	170.23	

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

Florida FCOJ Movement by Product Type

Oct-Sep Season	Retail	Institutional	Bulk	Total ^a
----- million gallons 42° Brix -----				
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 ^b	239.7 ^b
2000-01	34.7	27.1	164.2 ^b	226.0 ^b
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	12.5	17.7	100.1	130.2
2010-11	9.4	17.4	121.7	148.5
2011-12				

^aMay not add to total due to rounding.

^bAdjusted.

SOURCE: Processor Reports.

Florida FCOJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement ^a	Ending Inventory ^b
		From Fruit	Other		
----- million gallons 42° Brix -----					
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 ^c
1997-98	105.45 ^c	253.73	47.18	271.40	134.97
1998-99	134.97	158.88	58.02	247.64	105.20 ^d
1999-00	105.20 ^d	207.71	46.32	246.57	112.65 ^d
2000-01	112.65 ^d	196.06	49.15	229.59	128.27
2001-02	128.27	215.06	44.59 ^d	261.26	126.66 ^d
2002-03	126.66 ^d	156.84	47.35 ^d	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	82.25	26.41	130.23	94.99
2010-11	94.99	82.11	23.00	148.47	51.63
2011-12	51.63				

^aIncludes futures contract.

^bMay not calculate due to rounding deliveries.

^cReporting definition change.

^dAdjusted.

SOURCE: Processor Reports.

Florida COJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement	Ending Inventory ^a
		From Fruit	From Concen- trate		
----- million SSE gallons -----					
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 ^b	78.42	311.12	142.20	444.20	89.00
1994-95 ^b	89.00	326.66	126.89	463.99	78.88
1995-96 ^b	78.88	384.12	116.30	472.60	108.27
1996-97 ^b	108.27	400.28	86.35	477.41	119.06
1997-98 ^b	119.06	452.07	96.08	583.61	83.69
1998-99 ^b	83.69	505.51	85.10	588.06	86.69
1999-00 ^b	86.69	558.82	86.71	577.87	163.42
2000-01 ^b	163.42	543.28	72.90	635.17	152.32
2001-02 ^b	152.32	531.27	58.80	602.61	154.36
2002-03 ^b	154.36	561.69	53.36	603.15	179.68
2003-04 ^b	179.68	559.08	39.49	615.81	181.54 ^c
2004-05 ^b	181.54 ^c	553.27	17.34	601.39	167.47
2005-06 ^b	167.47	575.06	20.07	610.30	174.98
2006-07 ^b	174.98	487.81	17.72	560.95	152.49
2007-08 ^b	152.49	552.26	15.67	562.45	187.76
2008-09 ^b	187.76	536.94	15.55	562.82	202.18
2009-10 ^b	202.18	465.07	16.39	536.89	164.80
2010-11 ^b	164.80	522.35	19.90	539.95	182.71
2011-12 ^b	182.71				

^aMay not calculate due to rounding.

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

^cAdjusted to "standard" 11.8° Brix gallons.

SOURCE: Processor Reports.

Florida CSSOJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement	Ending Inventory ^a
		From Fruit	From Concen- trate		
----- million SSE gallons -----					
1978-79	7.00 ^b	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 ^c	1.01				

^aMay not calculate due to rounding.

^bAdjusted.

^cCSSOJ no longer reported.

SOURCES: Processor Reports, FDOC.

Florida FCGJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack ^a	Movement		Ending Inventory ^b
			Retail and Institutional	Bulk	
----- million 40° Brix gallons -----					
1989-90	19.09	22.59	2.51	22.50	16.67
1990-91	16.50 ^c	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 ^d	24.61	1.32	27.10	17.64
1998-99	17.64	24.77	1.37	30.88	10.17
1999-00	10.10 ^c	30.05	.97	23.57	15.60
2000-01	13.47 ^c	27.50	.81	24.74	15.42
2001-02	15.42	27.55	.70	23.92	18.36
2002-03	18.68 ^c	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	14.66	.24	14.72	10.46
2008-09	10.46	11.34	.22	12.71	8.97
2009-10	8.85	7.70	.17	9.42	6.95
2010-11	6.95	8.99	.14	11.13	4.69
2011-12	4.69				

^aIncludes non-Florida & foreign imports & Florida non-member & chilled GJ in FCGJ.

^bMay not calculate due to rounding.

^cAdjusted.

^dIncludes definitional adjustment.

SOURCE: Processor Reports.

Florida CGJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement	Ending Inventory ^a
		From Fruit	From Concen- trate		
----- million SSE gallons -----					
1989-90 ^b	3.78	5.71	26.33 ^b	32.87	3.14
1990-91 ^b	3.14	11.13	27.22 ^b	31.66	NA
1991-92 ^b	NA	12.60	25.13 ^b	31.78	NA
1992-93 ^b	NA	23.09	38.10 ^b	37.66	NA
1993-94 ^b	6.77	29.31	16.93	42.99	10.02
1994-95 ^b	10.02	29.31	17.56	44.66	12.25
1995-96 ^b	12.25	31.90	12.02	45.29	10.93
1996-97 ^b	10.93	37.21	13.60	46.90	14.84
1997-98 ^b	14.84	36.30	14.75	53.04	12.89
1998-99 ^b	12.89	39.38	15.50	56.39	11.38
1999-00 ^b	11.38	51.78	6.27	47.53	21.91
2000-01 ^b	21.91	32.88	3.93	45.75	14.86
2001-02 ^b	14.86	33.61	3.81	39.00	13.44
2002-03 ^b	13.44	32.43	2.52	39.62	11.74
2003-04 ^b	11.74	34.28	.03	34.45	12.03 ^c
2004-05 ^b	12.03 ^c	16.01	.03	19.50	11.73
2005-06 ^b	11.73	21.96	.01	20.67	12.51
2006-07 ^b	12.51	26.60	—	23.56	13.84
2007-08 ^b	13.84	30.99	.00	26.63	17.43
2008-09 ^b	17.43	21.87	—	28.87	10.72
2009-10 ^b	10.27	27.54	—	23.25	14.26
2010-11 ^b	14.26	23.85	.02	24.39	14.34
2011-12 ^b	14.34				

^aMay not calculate due to rounding.

^bInventories include domestic receipts of non-Florida and Florida non-member product.

^cAdjusted to “standard” 10.0° Brix gallons.

SOURCE: Processor Reports.

Florida CSSGJ Inventories, Pack and Movement

Oct-Sep Season	Beginning Inventory	Pack		Movement	Ending Inventory ^a
		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 ^b	1.47				

^aMay not calculate due to rounding.

^bCSSGJ 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-----						
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	8.15	5.79	7.20	7.30	7.83	6.57
2008-09	6.40	5.02	3.60	6.60	5.36	5.78
2009-10	10.40	5.66	10.10	7.80	10.30	6.72
2010-11 ^a	10.35	5.71	10.60	7.60	10.43	6.67

^aPreliminary.

SOURCE: FASS.

Florida Grapefruit On-Tree Earnings Per Box

Season	White		Colored		Total	
	Fresh	Proc.	Fresh	Proc.	Fresh	Proc.
----- dollars per 85-lb. box-----						
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	9.70	.41	10.20	.81	10.11	.63
2008-09	6.30	.62	8.50	.44	8.17	.52
2009-10	14.10	2.76	13.00	2.53	13.18	2.62
2010-11 ^a	13.15	3.21	10.50	3.69	10.94	3.50

^aPreliminary.

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 -----									
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	1,125,348	c	117,507	36,830	4,309	b	b	b	1,283,994
2008-09	937,069	c	82,696	24,986	1,984	b	b	b	1,046,735
2009-10	918,872	c	152,035	43,309	4,127	b	b	b	1,118,343
2010-11 ^a	957,942	c	131,458	48,863	6,532	b	b	b	1,144,795

^aPreliminary. ^bNo longer reported. ^cTemples included with oranges.

SOURCE: FASS, *Citrus Summary*.

Delivered-In Prices Reported by Florida Citrus Processors Association for Oranges Purchased^a

Season/ Item ^b	To Midseason Break	After Midseason Break	Combined Early/Midseason and Valencia
<u>2002-03^c</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^c</u>			
Priced Boxes	30,633,873	26,892,151	57,526,024
\$/PS Average	.648933	.765251	.707304
\$/Box Average	3.710253	5.020571	4.322798
<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	28,187,251	52,614,712
\$/PS Average	1.156686	1.466807	1.333074
\$/Box Average	6.864509	9.949923	8.517456
<u>2006-07</u>			
Priced Boxes	25,652,286	29,934,337	55,586,623
\$/PS Average	1.949092	2.225154	2.105940
\$/Box Average	12.096146	15.569794	13.966764
<u>2007-08</u>			
Priced Boxes	27,072,004	29,047,935	56,119,938
\$/PS Average	1.389960	1.385165	1.387342
\$/Box Average	8.775844	9.800748	9.306339
<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
<u>2009-10</u>			
Priced Boxes	18,671,469	15,433,272	34,104,741
\$/PS Average	1.322274	1.586824	1.448504
\$/Box Average	7.914557	10.486539	9.078445
<u>2010-11</u>			
Priced Boxes	21,417,525	17,126,982	38,544,507
\$/PS Average	1.527999	1.838151	1.674029
\$/Box Average	9.100558	12.181150	10.469398

^aExcludes participation and intermediate prices, and prices for oranges purchased for chilled-orange-juice production.

^bTotal boxes and weighted average price of spot, contract and final prices combined.

^cExcludes chilled-orange-juice production.

SOURCE: Processor Reports.

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

Season/ Item	White	Colored	Combined
<u>2002-03</u>			
Priced Boxes	3,901,815	1,606,522	5,508,337
\$/PS Average	.534171	.403529	.494971
\$/Box Average	2.388766	1.878852	2.240048
<u>2003-04</u>			
Priced Boxes	5,641,239	2,372,097	8,013,336
\$/PS Average	.493767	.490457	.492743
\$/Box Average	2.127092	2.250097	2.163504
<u>2004-05</u>			
Priced Boxes	927,887	1,415,237	2,343,124
\$/PS Average	1.884147	1.817692	1.843014
\$/Box Average	8.395907	8.626136	8.534964
<u>2005-06</u>			
Priced Boxes	2,159,375	3,157,416	5,316,791
\$/PS Average	2.343180	1.874818	2.059679
\$/Box Average	10.119715	8.492313	9.153270
<u>2006-07</u>			
Priced Boxes	2,298,216	2,841,651	5,139,867
\$/PS Average	0.694941	0.657774	0.673897
\$/Box Average	3.349633	3.346866	3.348103
<u>2007-08</u>			
Priced Boxes	3,919,432	3,876,471	7,795,903
\$/PS Average	0.576178	0.522523	0.548555
\$/Box Average	2.729923	2.656154	2.693242
<u>2008-09</u>			
Priced Boxes	2,376,880	3,158,131	5,535,011
\$/PS Average	0.585195	0.648937	0.622628
\$/Box Average	2.682537	3.185626	2.969586
<u>2009-10</u>			
Priced Boxes	2,118,600	1,603,361	3,721,961
\$/PS Average	1.161954	1.118271	1.142646
\$/Box Average	5.516078	5.556241	5.533380
<u>2010-11</u>			
Priced Boxes	2,366,765	2,366,978	4,733,743
\$/PS Average	1.240730	1.299146	1.271174
\$/Box Average	5.786110	6.593248	6.189697

SOURCE: Processor Reports.

Nielsen Retail OJ Sales, U.S.^{a,b}

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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

^aThis data series is no longer available. For current data see pages 64-66. ^bNumbers 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 ^a		
	Volume	Value	Price ^b	Volume	Value	Price ^b	Volume	Value	Price ^b	Volume	Value	Price ^b
	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 ^a		
	Volume	Value	Price ^b	Volume	Value	Price ^b	Volume	Value	Price ^b	Volume	Value	Price ^b
	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	1,808.1	6.80	172.6	878.9	5.09	482.3	2,905.5	6.02
2008-09	36.1	172.3	4.78	253.0	1,685.8	6.66	189.5	850.9	4.49	482.7	2,737.2	5.67
2009-10	29.6	138.9	4.70	246.1	1,617.4	6.57	186.2	806.5	4.33	464.3	2,579.7	5.56
2010-11	25.5	125.6	4.93	238.4	1,644.5	6.90	165.9	788.3	4.75	431.6	2,571.6	5.96
2011-12												

^aTotal includes shelf stable product not listed separately in this table.

^bReflects actual price paid after discounts (coupons, sales, etc.).

Nielsen Retail OJ Sales in All-Outlet Stores^a

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.
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	386.7	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	323.3	2,177.3	6.73	245.3	1,239.2	5.05	623.7	3,684.7	5.91
2008-09	45.2	210.7	4.66	314.5	2,077.7	6.61	263.6	1,203.1	4.56	628.6	3,527.5	5.61
2009-10	37.7	171.7	4.56	307.6	2,009.4	6.53	260.0	1,146.0	4.41	608.5	3,351.1	5.51
2010-11	32.8	155.3	4.73	299.1	2,052.8	6.86	231.9	1,104.7	4.76	566.1	3,330.0	5.88
2011-12												

^aData include supercenter sales through 11/24/01 and Wal-Mart sales estimates thereafter.

Nielsen Retail GJ Sales, U.S.^{a,b}

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

^aThis data series is no longer available. For current data see pages 68-70. ^bNumbers may not calculate due to rounding.

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

Oct-Sept Season	Frozen			Carton/Plastic/Glass			Canned/Aseptic			Total GJ		
	Volume	Value	Price ^b	Volume	Value	Price ^b	Volume	Value	Price ^b	Volume	Value	Price ^b
	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 ^a

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Oct-Sept Season	Frozen			Carton/Plastic/Glass			Canned/Aseptic			Total GJ		
	Volume	Value	Price ^b	Volume	Value	Price ^b	Volume	Value	Price ^b	Volume	Value	Price ^b
	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	117.8	6.70
2008-09	.3	1.6	4.87	15.6	102.7	6.60	1.6	9.3	5.95	17.4	113.6	6.51
2009-10	.3	1.3	4.67	15.2	99.5	6.53	1.0	6.0	6.09	16.5	106.9	6.47
2010-11	.2	1.1	4.83	14.6	98.3	6.75	.5	3.9	7.27	15.3	103.0	6.74
2011-12												

^aNumbers may not calculate due to rounding.

^bReflects actual price paid after discounts (coupons, sales, etc.).

Nielsen Retail GJ Sales in All-Outlet Stores^a

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.
1998-99	4.3	12.9	3.01	23.0	125.8	5.48	32.3 ^b	132.4 ^b	4.10 ^b	59.5	271.2	4.56
1999-00	3.0	10.0	3.29	22.2	125.0	5.64	26.3 ^b	119.4 ^b	4.50 ^b	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	86.6	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	140.1	6.42
2008-09	.8	3.3	4.26	12.4	84.0	6.75	7.9	46.1	5.83	21.1	133.3	6.32
2009-10	.5	2.0	4.48	12.5	83.3	6.68	7.2	42.3	5.89	20.1	127.7	6.34
2010-11	.4	1.9	4.43	11.9	82.1	6.93	6.8	39.6	5.84	19.1	123.6	6.49
2011-12												

^aData include supercenter sales through 03/18/00 and Wal-Mart sales estimates thereafter.

^bIncludes unidentified GJ.

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

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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.
1999-00	20.7	118.2	5.70	23.3 ^a	110.7 ^a	4.75 ^a	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	39.9	6.10	17.6	117.8	6.70	6.8	39.3	5.76
2008-09	10.8	74.2	6.90	6.7	39.2	5.86	17.4	113.6	6.51	6.5	37.9	5.79
2009-10	10.4	71.2	6.82	6.0	35.7	5.91	16.5	106.9	6.47	6.2	35.5	5.73
2010-11	10.6	74.7	7.06	5.1	31.4	6.15	15.9	107.2	6.73	6.0	34.6	5.73
2011-12												

^aIncludes unidentified GJ.

Nielsen Total OJ Market Ranking

Over \$2MM Grocers - 2010-11 Season

Rank	Market	Mil Gal	Rank	Market	Mil Gal
	TOTAL U.S	430.329			
1	New York	35.453	27	Richmond/Norfolk	5.241
2	Los Angeles	24.884	28	Cincinnati	5.211
3	Boston	18.000	29	Baltimore	5.107
4	Philadelphia	16.406	30	San Diego	4.536
5	Chicago	12.980	31	Sacramento	4.269
6	Washington DC	12.466	32	St. Louis	4.228
7	Miami	12.221	33	Milwaukee	4.224
8	Detroit	10.721	34	Grand Rapids	4.215
9	San Francisco	9.334	35	Indianapolis	4.200
10	Tampa	9.103	36	Columbus	3.749
11	Atlanta	8.833	37	Albany	3.657
12	Phoenix	8.453	38	Syracuse	3.572
13	Houston	8.255	39	Charlotte	3.543
14	Seattle	7.404	40	Nashville	3.460
15	San Antonio	6.967	41	New Orleans/Mobile . . .	3.323
16	Minneapolis	6.774	42	Kansas City	3.322
17	Cleveland	6.664	43	Louisville	3.264
18	Hartford/New Haven . .	6.503	44	Oklahoma City/Tulsa . .	2.854
19	Denver	6.400	45	Las Vegas	2.815
20	Dallas/Ft. Worth	5.938	46	Jacksonville	2.680
21	Portland	5.722	47	Birmingham	2.629
22	Raleigh/Durham	5.720	48	Memphis	2.434
23	Pittsburgh	5.711	49	Omaha	2.102
24	Buffalo/Rochester	5.513	50	West Texas	1.796
25	Orlando	5.407	51	Little Rock	1.583
26	Salt Lake City/Boise . .	5.299	52	Des Moines	1.549
				REMAINING U.S.	73.060

Nielsen Total GJ Market Ranking

Over \$2MM Grocers - 2010-11 Season

Rank	Market	Mil Gal	Rank	Market	Mil Gal
	TOTAL U.S	15.289			
1	New York	1.318	27	Baltimore	0.158
2	Miami	0.876	28	Sacramento	0.156
3	Los Angeles	0.710	29	Salt Lake City/Boise . . .	0.149
4	Boston	0.670	30	Charlotte	0.147
5	Tampa	0.555	31	Buffalo/Rochester	0.143
6	Philadelphia	0.473	32	Cincinnati	0.136
7	Atlanta	0.433	33	Indianapolis	0.135
8	Washington, DC	0.428	34	Pittsburgh	0.132
9	Chicago	0.402	35	Nashville	0.132
10	San Francisco	0.396	36	Albany	0.122
11	Orlando	0.314	37	Grand Rapids	0.117
12	Phoenix	0.308	38	St. Louis	0.113
13	Seattle	0.307	39	New Orleans/Mobile . . .	0.111
14	Houston	0.299	40	Birmingham	0.109
15	Detroit	0.290	41	Columbus	0.104
16	Denver	0.277	42	Syracuse	0.103
17	Portland	0.265	43	Louisville	0.096
18	Dallas/Ft. Worth	0.237	44	Oklahoma City/Tulsa . .	0.095
19	San Antonio	0.231	45	Las Vegas	0.095
20	Raleigh/Durham	0.218	46	Milwaukee	0.093
21	Minneapolis	0.210	47	Kansas City	0.092
22	Hartford/New Haven . .	0.202	48	Memphis	0.079
23	Cleveland	0.202	49	West Texas	0.071
24	Richmond/Norfolk . . .	0.201	50	Little Rock	0.054
25	Jacksonville	0.175	51	Omaha	0.042
26	San Diego	0.158	52	Des Moines	0.036
				REMAINING U.S.	2.314

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 -----							
<u>AGE</u>							
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
<u>HH SIZE</u>							
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
<u>INCOME</u>							
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
<u>KIDS</u>							
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
----- % -----							
<u>AGE</u>							
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
<u>HH SIZE</u>							
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
<u>INCOME</u>							
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
<u>KIDS</u>							
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 -----							
<u>AGE</u>							
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
<u>HH SIZE</u>							
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
<u>INCOME</u>							
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
<u>KIDS</u>							
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
----- % -----							
<u>AGE</u>							
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
<u>HH SIZE</u>							
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
<u>INCOME</u>							
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
<u>KIDS</u>							
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 ^a
----- 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	8.3
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	7.9
2007	20.6	29.1	48.8	4.1	.3	2.3	.6	7.9
2008	20.8	28.5	46.9	3.8	.3	2.1	.4	6.9
2009	20.6	27.6	45.3	3.9	.3	2.1	.4	7.4
2010								

^aIncludes 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%) ^a	100 (2%)	750 (15%) ¹	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).^aColored 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 ^a	90 points ^a

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

^aThe 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	
^a 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
^b 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
^c 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
^d 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 ^e
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.)

^aMinimum solids for processing December 1 thru July 31.

^bMinimum solids for oranges fresh November 16 thru July 31, and processing November 16 thru November 30.

^cMinimum solids for oranges November 1 thru November 15.

^dMinimum solids for oranges August 1 thru October 31.

^e11.00 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	
^a 6.5	}	— — — — — — — —		7.00	to 1	10.4 to (not incl) 10.5	—	6.40	to 1		
^b 7.0											
^c 7.5											
^d 8.0											
8.1 to (not incl)		9.1	—	7.00	to 1	10.6 to	“	10.6	—	6.375	to 1
9.1 to	“	9.2	—	6.95	to 1	10.7 to	“	10.7	—	6.35	to 1
9.2 to	“	9.3	—	6.90	to 1	10.8 to	“	10.8	—	6.325	to 1
9.3 to	“	9.4	—	6.85	to 1	10.9 to	“	10.9	—	6.30	to 1
9.4 to	“	9.5	—	6.80	to 1	11.0 to	“	11.0	—	6.275	to 1
9.5 to	“	9.6	—	6.75	to 1	11.1 to	“	11.1	—	6.25	to 1
9.6 to	“	9.7	—	6.70	to 1	11.2 to	“	11.2	—	6.225	to 1
9.7 to	“	9.8	—	6.65	to 1	11.3 to	“	11.3	—	6.20	to 1
9.8 to	“	9.9	—	6.60	to 1	11.4 to	“	11.4	—	6.175	to 1
9.9 to	“	10.0	—	6.55	to 1	11.5 to	“	11.5	—	6.15	to 1
10.0 to	“	10.1	—	6.50	to 1 ^g	11.6 to	“	11.6	—	6.125	to 1
10.1 to	“	10.2	—	6.475	to 1	11.7 to	“	11.7	—	6.10	to 1
10.2 to	“	10.3	—	6.45	to 1	11.8 to	“	11.8	—	6.075	to 1
10.3 to	“	10.4	—	6.425	to 1	11.9 to	“	11.9	—	6.05	to 1
						12.0 and above		12.0	—	6.025	to 1
									—	6.00	to 1 ^h

^a Minimum solids all grapefruit for processing, Jan. 1 thru July 31.

^b Minimum solids seedless grapefruit fresh, Jan. 1 thru July 31. Minimum solids all grapefruit for processing, Dec. 1 thru Dec. 31.

^c 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.

^d Minimum solids seedy grapefruit for processing, Aug. 1 thru Nov. 30. Minimum solids seedy grapefruit fresh, Aug. 1 thru Dec. 31.

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

^f Minimum 8.00 ratio field run grapefruit for processing, Aug. 1 thru Jan. 31. Sections and eliminations thereof must meet minimum maturity.

^g Minimum 6.50 ratio for sectionizing, Jan. 1 thru April 14. Minimum 6.50 ratio for all grapefruit for processing, Feb. 1 thru April 14.

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

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.

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

SOURCE: FDACS.

Florida Temple Orange Standards

Minimum Total Solids (%)				Solids to Acid Minimum Ratio			
^a 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 ^b
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 ^c

^aMinimum solids for all Temples.

^b8.50 to 1 minimum ratio for fresh.

^c7.50 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^a (November 15 through July 31)

Minimum Total Solids (%)				Solids to Acid Minimum Ratio	
^b 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

^aMurcotts 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.

^bMinimum 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^a (August 1 through November 14)

Minimum Total Solids (%)			Solids to Acid Minimum Ratio		
^b 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

^aMurcotts 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.

^bMinimum 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^a

Minimum Total Solids (%)					Solids to Acid Minimum Ratio					Minimum Total Solids (%)					Solids to Acid Minimum Ratio				
^b 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		
^c 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		
^d 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		
^e 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			^f 11.9 and above					—	8.55	to	1	
9.9	to	“	10.0	—	9.55	to	1			^g See Below					—	8.00	to	1	
10.0	to	“	10.1	—	9.50	to	1												

^aMinimum acid 0.40 Tangelo.

^bMinimum solids for processing November 16 thru November 30.

^cMinimum solids for processing November 1 thru November 15. Minimum solids for fresh November 16 thru November 30.

^dMinimum solids for processing August 1 thru October 31. Minimum solids for fresh November 1 thru November 15.

^eMinimum solids for fresh August 1 thru October 31.

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

^gFlat 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

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

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Florida Department of Citrus

Economic and Market Research Department

