# Citrus Reference Book



# Florida Department of Citrus

**Economic and Market Research Department** 

2021

Initial Release April 2021

# CITRUS REFERENCE BOOK

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# Florida Department of Citrus

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**Bearing Acreage: Oranges** 

	Dea	illig Ac	reage.	Orange		
Season	Florida	Texas	Calif.	Arizona	U.S.ª	Florida Temples
			· 1,000 a	acres		
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	С
2007-08	463.9	8.8	188.0	2.4	663.1	С
2008-09	459.1	8.8	186.0	2.4	656.3	С
2009-10	451.0	8.8	183.0	NA	642.8	С
2010-11	440.0	8.8	180.0	NA	628.8	С
2011-12	433.4	8.8	177.0	NA	618.4	С
2012-13	429.2	7.0	171.0	NA	607.2	С
2013-14	418.7	7.1	166.0	NA	591.8	С
2014-15	405.5	7.4	163.0	NA	575.9	С
2015-16	387.0	7.4	157.0	NA	551.4	С
2016-17	367.6	8.0	152.0	NA	529.9	0.9
2017-18	361.8	8.7	147.0	NA	517.5	d
2018-19	354.1	8.8	147.0	NA	509.6	d
2019-20 <sup>b</sup>	350.9	7.8	145.0	NA	503.7	d
2010-20	000.0	7.0	1-10.0	11/1	000.1	

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

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

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

**Bearing Acreage: Grapefruit** 

	<u> </u>	ig Acice	ige. Gra	Pollar	
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	46.5	18.5	9.4	NA	74.4
2011-12	45.5	17.0	9.7	NA	72.2
2012-13	44.9	16.5	10.0	NA	71.4
2013-14	43.1	16.6	9.8	NA	69.5
2014-15	40.4	17.1	9.8	NA	67.3
2015-16	37.5	17.1	9.5	NA	64.1
2016-17	33.8	16.4	9.4	NA	60.4
2017-18	29.8	15.7	9.3	NA	54.8
2018-19	24.7	16.0	9.0	NA	49.7
2019-20 <sup>a</sup>	21.7	16.0	8.7	NA	46.4

<sup>a</sup>Preliminary. SOURCE: NASS

Florida Commercial Citrus Acreage

	ioriua coi	illilercial C	ilius Acie	aye
Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
Tour		ac	res	
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	464,918	48,191	18,384	531,493
2013	459,311	47,656	17,673	524,640
2014	452,364	45,922	16,861	515,147
2015	441,628	43,692	15,806	501,396
2016	425,728	40,316	14,077	480,121
2017	405,832	36,084	13,057	454,973
2018	403,457	30,923	12,632	447,012
2019	392,515	25,339	12,747	430,601
2020	382,393	22,453	14,606	419,452

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

Florida Commercial Citrus Bearing Acreage

Census	l		Specialty	ci eage
Year	Oranges	Grapefruit	Fruit <sup>a</sup>	Total
1001		ac	res	
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	433,508	45,479	17,882	496,869
2013	429,314	44,893	16,801	491,008
2014	418,900	43,154	15,895	477,949
2015	405,600	40,437	14,604	477,949
2016	387,078	37,496	12,293	436,867
2017	367,588	33,846	11,228	412,662
2018	361,937	29,828	10,118	401,883
2019	354,174	24,684	9,169	388,027
2020	351,037	21,733	8,977	381,747

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

## Florida Commercial Citrus Trees

_		i ioriua ot	Jiiiiieiciai	Citius II	<del>663</del>
	Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
_	i eai		1,00		
	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	61,640.1	5,272.3	2,653.0	69,565.4
	2013	61,167.0	5,251.2	2,555.6	68,973.8
	2014	60,545.5	5,118.0	2,470.8	68,134.3
	2015	59,571.2	4,933.1	2,362.8	66,867.1
	2016	57,952.1	4,582.0	2,188.9	64,723.0
	2017	56,022.3	4,116.6	2,078.4	62,217.3
	2018	57,021.0	3,597.9	2,044.8	62,664.0
	2019	56,134.6	3,008.4	2,221.4	61,364.4
	2020	55,343.2	2,714.9	2,513.3	60,571.4

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

Florida Commercial Citrus Bearing Trees

LIOI		nercial Citrus Bearing		girees
Census Year	Oranges	Grapefruit	Specialty Fruit <sup>a</sup>	Total
I Gai		1,000		
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	57,460.4	4,934.6	2,587.0	64,982.0
2013	57,146.1	4,896.1	2,432.3	64,474.5
2014	55,891.7	4,744.0	2,313.5	62,949.2
2015	54,383.3	4,462.3	2,155.4	61,001.0
2016	52,202.8	4,198.5	1,854.9	58,256.2
2017	50,082.6	3,797.8	1,701.9	55,582.3
2018	50,033.1	3,440.8	1,554.6	55,028.5
2019	49,708.6	2,908.7	1,511.2	54,128.5
2020	50,146.1	2,594.1	1,528.8	54,269.0

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

**Production: Oranges** 

		Produc	tion. C	ranges			
Season	Florida	Texas	Calif.	Arizona	U.S.ª	Florida Temples	
million 90-pound boxes							
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	140.5	1.8	55.6		197.9	d	
2011-12	146.7	1.3	52.0		200.0	d	
2012-13	133.6	1.7	48.4		183.7	d	
2013-14	104.6	1.7	44.0		150.3	d	
2014-15	96.8	1.4	42.8		141.0	d	
2015-16	81.7	1.6	52.0		135.3	d	
2016-17	68.9	1.3	42.9		113.1	0.2	
2017-18	45.1	1.8	39.3		86.1	e	
2018-19	71.9	2.4	46.4		120.6	е	
2019-20	67.3	1.3	47.4		115.9	е	

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

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

<sup>&</sup>lt;sup>c</sup>Projection

<sup>&</sup>lt;sup>d</sup>Temples included in Oranges beginning 2006-07. <sup>e</sup>Temples included in specialty starting 2017-18.

**Production: Grapefruit** 

	1 1	Jaaction	i. Grape	ii uit	
Season	Florida	Texas	Calif.	Arizona	U.S.
		mill	ion 85-pound l	ooxes	
1988-89	54.8	4.5	6.1	1.5	66.9
1989-90	35.7	1.9	7.2	1.7	46.4
1990-91	45.1		6.1	1.8	53.0
1991-92	42.4	.1	7.6	2.1	52.2
1992-93	55.2	1.8	7.0	1.6	65.6
1993-94	51.1	2.8	7.3	1.4	62.6
1994-95	55.7	4.4	7.3	1.1	68.5
1995-96	52.4 <sup>a</sup>	4.3	6.4	.9	64.0
1996-97	55.8 <sup>b</sup>	5.0	6.5	.6	67.9
1997-98	49.6 <sup>b</sup>	4.5	6.3	.6	61.0
1998-99	47.1	5.7	5.8	.6	59.1
1999-00	53.4	5.6	5.7	.4	65.0
2000-01	46.0 <sup>c</sup>	6.8	5.0	.2	57.9
2001-02	46.7	5.6	4.7	.1	57.0
2002-03	38.7	5.3	4.4	.1	48.5
2003-04	40.9	5.4	4.6	.1	50.9
2004-05	12.8	6.2	4.8	.1	23.9
2005-06	19.3	4.9	4.7	.1	29.0
2006-07	27.2	6.7	4.3	.1	38.3
2007-08	26.6	5.6	4.1	.1	36.4
2008-09	21.7	5.2	3.8		30.7
2009-10	20.3	5.3	3.5		29.1
2010-11	19.8	5.9	4.1		29.7
2011-12	18.9	4.5	3.8		27.1
2012-13	18.4	5.7	4.2		28.3
2013-14	15.7	5.4	3.6		24.6
2014-15	12.9	4.0	4.5		21.4
2015-16	10.8	4.5	3.6		18.9
2016-17	7.8	4.5	3.8		16.0
2017-18	3.9	4.5	3.6		12.0
2018-19	4.5	5.7	4.0		14.2
2019-20	4.9	4.1	3.6		12.6

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

**Production: Specialty Fruit** 

0	Ta	angerine	es	F	lorida		Lem	ons
Season	Florida	Calif.	Arizona	Tangelos	K-Early	Limes	Calif.	Arizona
				1,000 b	oxes			
1988-89	2,900	2,040	650	3,800	320	1,250	16,200	3,800
1989-90	1,700	1,650	600	2,950	210	1,650	15,800	2,800
1990-91	1,950	1,350	600	2,650	160	1,450	14,800	4,100
1991-92	2,600	2,440	1,200	2,600	165	1,600	15,100	5,100
1992-93	2,800	2,100	950	3,050	185	1,000	20,400	4,400
1993-94	4,100	2,300	1,000	3,350	210	200	20,700	5,200
1994-95	3,550	2,500	650	3,150	120	230	20,000	3,600
1995-96	4,500	2,600	1,000	2,450	160	300	21,000	5,100
1996-97	6,300	2,600	750	3,950	150	320	22,600	2,700
1997-98	5,200	2,400	600	2,850	40	440	21,000	2,600
1998-99	4,950	1,500	950	2,550	80	500	16,200	3,450
1999-00	7,000	2,500	850	2,200	110	600	19,000	3,100
2000-01	5,600	2,200	650	2,100	40	250	22,600	3,600
2001-02	6,600	2,200	620	2,150	30	150	18,300	2,800
2002-03	5,500	2,800	430	2,350	а	а	24,000	3,000
2003-04	6,500	2,200	690	1,000	а	а	18,000	3,000
2004-05	4,450	2,900	400	1,550	а	а	20,500	2,400
2005-06	5,500	3,600	550	1,400	а	а	22,000	3,800
2006-07	4,600	3,500	300	1,250	а	а	18,500	2,500
2007-08	5,500	6,700	400	1,500	а	а	14,800	1,500
2008-09	3,850	6,700	250	1,150	а	а	21,000	3,000
2009-10	4,450	9,900	350	900	а	а	21,000	2,200
2010-11	4,650	10,600	300	1,150	а	а	20,500	2,500
2011-12	4,290	10,800	200	1,150	а	а	20,500	750
2012-13	3,280	13,000	160	1,000	а	а	21,000	1,800
2013-14	2,900	14,700	150	880	а	а	18,800	1,800
2014-15	2,265	18,700	170	665	а	а	20,600	2,000
2015-16	1,415	21,700		390	а	а	21,000	1,600
2016-17	1,620	23,900		280	а	а	20,500	1,550
2017-18	750	19,200		145	а	а	21,200	1,000
2018-19	825	26,500		165	а	а	23,700	1,350
2019-20	860	22,000		160			25,700	1,800

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

<sup>b</sup>Projection

**USDA Orange Crop Estimates Versus Actual Production** 

Season		Florida		ange (	California			Texas			Arizona		Total <sup>a</sup>
Jeasuii	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.
1995-96	202.0	203.3	+1.3	66.0	58.0	-8.0	million b 1.2	oxes <sup>b</sup> 9	-0.3	1.1	1.7	+0.6	270.3
1996-97	220.0	226.2	+6.2	63.0	64.0	+1.0	1.5	1.4	-0.1	1.5	1.4	-0.1	286.0
1997-98	254.0	244.0	-10.0	74.0	69.0	-5.0	1.6	1.5	-0.1	1.0	1.0	0.0	330.6
1998-99	190.0	186.0	-4.0	62.0	36.0	-26.0	1.4	1.4	+0.0	1.0	1.2	+0.2	254.4
1999-00	211.0	233.0	+22.0	67.0	64.0	-3.0	1.6	1.7	+0.1	.9	1.1	+0.2	280.5
2000-01	240.0	223.3	-16.7	59.0	54.5	-4.5	2.0	2.2	+0.2	1.1	.9	-0.2	302.1
2001-02	231.0	230.0	-1.0	54.0	51.5	-2.5	2.2	1.7	-0.5	.8	.5	-0.3	288.0
2002-03	197.0	203.0	+6.0	63.0	62.0	-1.0	1.6	1.6	0.0	.5	.5	0.0	262.0
2003-04	252.0	242.0	-10.0	59.0	50.5	-8.5	1.6	1.7	+0.0	.5	.5	0.0	313.0
2004-05	176.0	149.8	-26.2	62.0	64.5	+2.5	1.9	1.8	-0.1	.4	.4	+0.0	240.3
2005-06	190.0	147.7	-42.3	55.0	61.0	+6.0	1.5	1.6	+0.1	.5	.5	-0.1	247.0
2006-07	135.0 <sup>c</sup>	129.0	-6.0	46.0	46.0	0.0	1.8	2.0	+0.2	.4	.3	-0.1	183.1
2007-08	168.0°	170.2	+2.2	58.0	62.0	+4.0	1.8	1.8	0.0	.3	.4	+0.1	228.1
2008-09	166.0°	162.5	-3.5	44.0	46.5	+2.5	1.5	1.5	0.0	.3	.3	-0.1	211.5
2009-10	136.0°	133.7	-2.3	55.0	57.5	+2.5	1.5	1.6	+0.1				192.5
2010-11	146.0°	140.5	-5.5	60.5	62.5	+2.0	1.7	1.9	+0.2				208.2
2011-12	147.0°	146.7	-0.3	57.5	58.5	+1.0	1.7	1.4	-0.3				206.2
2012-13	154.0°	133.6	-20.4	59.5	54.5	-5.0	1.4	1.8	+0.4				214.9
2013-14	125.0°	104.6	-20.4	56.5	49.5	-7.0	1.8	1.8	+0.0				183.3
2014-15	108.0°	96.8	-11.2	50.5	48.2	-2.3	2.0	1.5	-0.5				160.5
2015-16	80.0°	81.7	+1.7	52.5	58.5	+6.0	1.7	1.7	+0.0				134.2
2016-17	70.0	68.85	-1.2	50.5	48.3	-2.2	1.4	1.4	+0.0				121.9
2017-18	54.0	45.05	-9.0	46.0	44.2	-1.8	1.7	1.9	+0.2				101.7
2018-19 <sup>d</sup>	79.0	71.85	-7.2	49.0	52.2	+3.2	2.4	2.5	+0.1				130.4
2019-20 <sup>d</sup>	74.0	67.3	-6.7	47.0	53.3	+6.3	2.7	1.3	-1.4				120.0
2020-21	57.0			50.5			1.5						109.0

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

<sup>&</sup>lt;sup>b</sup>Box sizes: FL 90#; CA 80# (CA & AZ 75# prior to 2010-11); TX 85#.

**USDA Grapefruit Crop Estimates Versus Actual Production** 

Season		Florida			California			Texas			Arizona		Total
Jeason	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.	Actual	+/-	Oct.
1995-96	54.0	52.4 °	-1.7	8.5	8.1	-0.4	million boxe 5.0	4.6	-0.5	1.2	1.2	0.0	68.7
1996-97	59.0	55.8 <sup>d</sup>	-3.2	8.0	8.2	+0.2	5.7	5.3	-0.4	1.1	.8	-0.3	73.8
1997-98	54.0	49.6 <sup>d</sup>	-4.5	9.0	8.0	-1.0	5.0	4.8	-0.2	.8	.8	0.0	68.8
1998-99	50.0	47.1	-3.0	8.4	7.3	-1.1	5.0	6.1	+1.1	.7	.75	+0.1	64.1
1999-00	50.0	53.4	+3.4	8.0	7.2	-0.8	5.5	5.9	+0.4	.7	.45	-0.3	64.2
2000-01	50.0	46.0 <sup>e</sup>	-4.0	7.2	6.3	-0.9	6.5	7.2	+0.7	.6	.25	-0.4	64.3
2001-02	48.0	46.7	-1.3	6.0	5.9	-0.1	7.8	5.9	-1.9	.2	.16	0.0	62.0
2002-03	42.0	38.7	-3.3	6.2	5.6	-0.6	5.6	5.7	+0.1	.1	.13	+0.0	53.9
2003-04	42.0	40.9	-1.1	5.5	5.8	+0.3	5.3	5.7	+0.4	.1	.14	+0.0	52.9
2004-05	15.0	12.8	-2.2	5.2	6.1	+0.9	5.9	6.6	+0.7	.2	.14	-0.1	26.3
2005-06	24.0	19.3	-4.7	5.8	6.0	+0.2	5.4	5.2	-0.2	.1	.1	0.0	35.3
2006-07	26.0	27.2	+1.2	5.7	5.5	-0.2	6.7	7.1	+0.4	.1	.1	0.0	38.5
2007-08	25.0	26.6	+1.6	4.5	5.2	+0.7	6.8	6.0	-0.8	.2	.1	-0.1	36.5
2008-09	23.0	21.7	-1.3	5.5	4.8	-0.7	5.3	5.5	+0.2	.2	.03	-0.2	34.0
2009-10	19.8	20.3	+0.5	4.7	4.5	-0.2	5.3	5.6	+0.3				29.8
2010-11	20.0	19.8	-0.3	3.8	4.3	+0.5	5.5	6.3	+0.8				29.3
2011-12	21.0	18.9	-2.2	3.4	4.0	+0.6	5.1	4.8	-0.3				29.5
2012-13	20.3	18.4	-2.0	4.0	4.5	+0.5	5.3	6.1	+0.8				29.6
2013-14	17.8	15.7	-2.2	4.0	3.9	-0.2	5.2	5.7	+0.5				27.0
2014-15	15.0	12.9	-2.1	4.0	4.8	+0.8	5.8	4.3	-1.5				24.8
2015-16	12.3	10.8	-1.5	3.5	3.8	+0.3	4.0	4.8	+0.8				19.8
2016-17	9.6	7.8	-1.8	4.0	4.0	0.0	4.7	4.8	+0.1				18.3
2017-18	4.9	3.9	-1.0	4.2	3.8	-0.4	5.3	4.8	-0.5				14.4
2018-19	6.7	4.5	-2.2	3.9	4.2	+0.3	6.2	6.1	-0.1				16.8
2019-20	4.6	4.9	+0.3	4.2	3.8	-0.4	5.7	4.4	-1.3				14.5
2020-21	4.5			3.8			4.9						13.2

<sup>&</sup>lt;sup>a</sup>Box sizes: FL 85#; CA 80# (CA & AZ 67# prior to 2010-11); TX 80#.

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

**USDA Crop Estimates (Current)** 

		, O D / ( O I O I		<del>(                                    </del>		
		Oranges			Grapefruit	
Time Period <sup>a</sup>	FL <sup>b</sup>	TX	CA	FL	TX	CA
			million	ooxes <sup>c</sup>		
<u>2020-21</u>						
ОСТ	57.0	1.5	50.5	4.5	4.9	3.8
NOV	57.0	1.5	50.5	4.5	4.9	3.8
DEC	56.0	1.5	50.5	4.4	4.9	3.8
JAN	54.0	1.5	51.0	4.6	5.0	4.2
FEB	56.0	1.5	51.0	4.6	5.0	4.2
MAR	55.5	1.5	52.0	4.6	5.0	4.2
APR						
MAY						
JUN						
JUL						

<sup>&</sup>lt;sup>b</sup>Includes Temples.

SOURCE: NASS

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

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

Season	ОСТ	OCT NOV DEC JAN FEB MAR APR MAY JUN									
						gallons				JUL	
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	1.67	
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	1.63	1.63	
2012-13	1.61	1.61	1.61	1.61	1.62	1.61	1.61	1.60	1.59	1.59	
2013-14	а	1.60	1.61	1.61	1.61	1.61	1.60	1.58	1.57	1.57	
2014-15	1.60	1.60	1.60	1.59	1.57	1.60	1.54	1.49	1.50	1.50	
2015-16	1.61	1.58	1.56	1.50	1.45	1.45	1.42	1.41	1.41	1.41	
2016-17	1.40	1.47	1.44	1.44	1.43	1.43	1.42	1.41	1.42	1.42	
2017- Present			No	longer	reported	d by USI	DA				

SOURCE: NASS

**USDA Specialty Crop Estimates Versus Actual Production** 

	Flo	rida			Tange	erines				ornia/
Season	Tang	gelos	Flo	rida	Calif	ornia	Ari	zona		ona nons
	Oct.	Actual	Oct.	Actual	Oct.	Actual	Oct.	Actual	Oct.	Actual
4000.07	•	ound boxes	-	ound boxes		mil. 80-pou			•	und boxes <sup>c</sup>
1996-97	3.8	4.0	6.0	6.3	2.6	2.6	.9	.8	26.7	25.3
1997-98	3.3	2.9	5.5	5.2	2.4	2.4	.5	.6	24.6	23.6
1998-99	2.5	2.6	4.2	5.0	2.5	1.5	.7	1.0	23.7	19.65
1999-00	2.6	2.2	6.4	7.0	2.3	2.5	.7	.9	24.4	22.1
2000-01	2.1	2.1	6.3	5.6	2.0	2.2	.9	.7	24.6	26.2
2001-02	2.3	2.2	7.0	6.6	2.5	2.2	.6	.6	26.1	21.1
2002-03	2.4	2.4	5.2	5.5	2.3	2.8	.5	.4	23.8	27.0
2003-04	1.3	1.0	6.6	6.5	2.5	2.2	.6	.7	26.0	21.0
2004-05	1.4	1.6	4.7	4.5	2.9	2.9	.5	.4	21.9	22.9
2005-06	1.4	1.4	6.0	5.5	3.2	3.6	.5	.6	22.8	25.8
2006-07	1.1	1.3	4.6	4.6	3.8	3.5	.4	.3	22.5	21.0
2007-08	1.3	1.5	5.1	5.5	4.7	6.7	.4	.4	18.0	16.3
2008-09	1.5	1.2	4.9	3.9	6.3	6.7	.3	.3	21.5	24.0
2009-10	1.0	.9	4.9	4.5	7.0	9.9	.4	.4	22.5	23.2
2010-11	1.1	1.2	4.5	4.7	10.0	10.6	.3	.3	23.7	23.0
2011-12	1.1	1.2	4.7	4.3	10.3	10.8	.2	.2	20.8	21.3
2012-13	1.2	1.0	4.4	3.3	11.8	13.0	.2	.2	22.2	22.8
2013-14 <sup>d</sup>	1.0	.9	3.8	2.9	13.5	14.7	.2	.2	23.3	20.6
2014-15	.9	.7	2.8	2.3	16.0	18.7	.2	.2	21.0	22.6
2015-16	.5	.4	1.8	1.4	19.0	21.7	-	-	21.1	22.6
2016-17	.3	.3	1.7	1.6	23.0	23.9	-	-	22.8	22.1
2017-18	f	f	1.0	.8	23.0	19.2	-	-	22.6	22.2
2018-19	f	f	1.2	.8	23.0	26.5	-	-	21.4	25.1
2019-20	f	f	1.1	.9	23.0	22.0	-	-	24.1	27.5
2020-21	f	f	1.1		24.1		-	-	23.3	

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

SOURCE: NASS

<sup>&</sup>lt;sup>b</sup>Box sizes: CA & AZ 80# (75# prior to 2010-11).

<sup>&</sup>lt;sup>d</sup>Oct: November crop forecast <sup>f</sup>Tangelos combined with Tangerines

<sup>&</sup>lt;sup>c</sup>Box sizes: CA & AZ 80# (76# prior to 2010-11).

**Utilization of Florida Oranges** 

	Utiliz	ation or	FIORIGA	Orange	<del>e</del> 5	
Season	Fresh	Frozen Concen- trate	Chilled Juice	Non- Certified	Other	Total <sup>a</sup>
			million 90-po	ound 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	186.0
1999-00	6.9	129.5	90.1	2.5	4.0	233.0
2000-01	6.7	120.5	89.6	3.0	3.5	223.3
2001-02	6.9	132.2	85.9	2.5	2.5	230.0
2002-03	6.3	98.7	92.5	3.4	2.1	203.0
2003-04	6.2	137.0	93.4	3.7	1.7	242.0
2004-05	4.9	52.2	88.5	2.5	1.7	149.8
2005-06	4.5	49.1	90.2	2.8	1.1	147.7
2006-07	5.0	46.0	75.2	1.4	1.4	129.0
2007-08	4.4	80.8	85.1	1.4	1.3	170.2
2008-09	5.5	72.6	82.8	1.4	1.6	162.5
2009-10	4.5	52.7	75.1	1.4	1.4	133.7
2010-11	4.5	51.7	82.7	1.5	1.6	140.5
2011-12	4.5	65.4	75.5	1.5	1.2	146.7
2012-13	4.5	48.0	79.2	1.4	1.3	133.6
2013-14	4.1	22.7	76.0	1.7	0.8	104.6
2014-15	3.9	19.2	71.9	1.1	0.7	96.8
2015-16	3.0	15.8	61.8	0.9	0.1	81.7
2016-17	2.2	12.6	53.2	0.7	0.0	68.8
2017-18	2.3	7.7	34.4	0.5	0.1	45.0
2018-19	2.3	15.2	53.8	0.3	0.0	71.6
2019-20	3.0	14.1	49.8	0.3	0.4	67.7

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

**Utilization of Florida Grapefruit** 

		Zation o		<del>u Olupe</del>		
Season	Fresh	Frozen Concen- trate	Chilled Juice	Non- Certified	Other	Total
			- million 85-p	ound boxes		
1997-98	20.0	20.6	7.2	1.2	.6	49.6 <sup>a</sup>
1998-99	18.7	19.0	7.5	1.2	.7	47.1 <sup>a</sup>
1999-00	17.0	24.1	10.4	1.3	.6	53.4
2000-01	15.9	21.2	6.4	1.6	.9	46.0 <sup>b</sup>
2001-02	15.9	21.7	6.4	1.5	1.2	46.7 <sup>b</sup>
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	10.5	5.2	.7	.3	26.6
2008-09	8.7	0.0	12.1	.7	5.1	26.6
2009-10	8.7	0.0	10.6	.6	.3	21.7
2010-11	8.7	7.0	4.2	.7	3	20.3
2011-12	7.2	6.9	3.8	.7	1.1	19.8
2012-13	7.1	6.1	4.2	.6	.8	18.9
2013-14	6.1	4.7	4.0	.5	.2	15.7
2014-15	5.3	3.8	3.2	.5	.2	13.0
2015-16	4.5	2.8	3.1	.4	.0	10.8
2016-17	3.2	1.8	2.4	.3	.0	7.8
2017-18	1.6	0.6	1.6	.2	.0	3.9
2018-19	1.8	0.6	2.0	.2	.0	4.5
2019-20	2.0	0.5	2.2	.2	1	4.9

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

SOURCE: FDOC-EMRD

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

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

	10	rai Silipi		ioriua Fi	esii Ciliu	<u> </u>	
Aug-July Season	Grapefruit	Oranges	Temples	Tangelos	Honey Tangerines	Tangerines	Total
			thous	sand 4/5-bushel o	cartons		
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	9,591	348	691	2,639	2,928	36,821
2007-08	19,829	8,581	266	717	2,874	3,210	35,477
2008-09	17,353	10,827	263	827	1,686	3,470	34,426
2009-10	17,421	8,726	251	638	2,750	2,710	32,496
2010-11	15,455	8,693	263	684	2,310	3,107	30,513
2011-12	14,491	9,077	182	673	2,146	2,951	29,520
2012-13	14,271	9,023	166	788	1,664	2,308	28,219
2013-14	12,108	8,129	177	581	1,373	2,071	24,439
2014-15	10,549	7,831	141	597	1,061	1,810	21,989
2015-16	9,071	6,017	122	414	765	1,071	17,460
2016-17	6,491	4,375	66	253	492	911	12,590
2017-18	3,241	4,666	40	136	176	514	8,772
2018-19	3,572	4,630	52	133	218	576	9,181
2019-20	4,087	5,958	32	136	148	823	11,185
80 - 1	did and decrease and decrease after a	bp					

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

Florida Fresh Grapefruit Shipments

Aug-July Season	Domestic	Canada	Europe	Japan	Other Pacific Rim	Other	Total
			thousa	nd 4/5 bushel ca	rtons		
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	9,938	1,619	6,228	10,150	325	9	28,270
2003-04	8,999	1,780	6,912	12,123	529	7	30,350
2004-05	4,891	768	2,786	4,833	119	13	13,409
2005-06	4,790	773	2,115	4,559	232	4	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	9	19,829
2008-09	6,045	1,088	3,924	6,036	258	3	17,353
2009-10	6,110	1,151	3,455	6,277	426	3	17,421
2010-11	5,397	1,098	3,121	5,409	426	5	15,455
2011-12	5,533	992	2,799	4,807	360	1	14,491
2012-13	5,990	1,087	2,917	3,894	384	-	14,271
2013-14	5,131	987	2,609	2,898	482	0	12,108
2014-15	4,423	805	2,328	2,430	562	1	10,549
2015-16	3,791	655	1,926	2,125	574	-	9,071
2016-17	2,662	423	1,420	1,583	403	-	6,491
2017-18	1,513	221	610	676	220	-	3,241
2018-19	1,872	300	517	652	231	-	3,572
2019-20	2,236	315	707	581	249	-	4,087

SOURCE: FDOC-EMRD Fresh Fruit Database Compiled from Certified Fresh Fruit provided by Florida Department of Agriculuture and Consumer Services Fruit and Vegetable Division

Florida Fresh Orange and Temple<sup>a</sup> Shipments

Aug-July Season	Domestic	Canada	Europe	Japan	Other Pacific Rim	Other	Total
			thousa	ind 4/5 bushel c	artons		
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	13,022
2003-04	11,416	868	178	2	330	68	12,862
2004-05	9,119	580	194	1	204	25	10,123
2005-06	8,660	540	6	-	119	23	9,349
2006-07	9,259	564	0	-	113	4	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	-	130	2	8,977
2010-11	8,259	554	43	1	96	3	8,956
2011-12	8,654	511	25	0	66	2	9,258
2012-13	8,502	571	8	4	92	11	9,189
2013-14	7,653	534	0	3	109	5	8,305
2014-15	7,266	648	0	0	55	2	7,972
2015-16	5,386	504	0	-	127	-	6,017
2016-17	3,959	388	0	0	28	-	4,375
2017-18	4,312	341	-	-	13	-	4,666
2018-19	4,357	271	0	-	2	-	4,630
2019-20	5,719	239	-	-	-	-	5,958

<sup>&</sup>lt;sup>a</sup>Temples no longer included with oranges starting with 2015-16 season

<sup>0 =</sup> fewer than 499 cartons shipped, - = no shipments.

**World Orange Production** 

					WOIK	a Oran	ge Fic	auctic	<i></i>						
			Average												
Country	1961- 1970	1971- 1980	1981- 1990	1991- 2000	2001- 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
<b>.</b>	1370	1300				1,000 meti	ric tons								
United States	5,439	8,836	7,437	9,990	9,284	8,078	8,268	7,501	6,140	5,786	5,160	4,616	3,535	4,833	
% of U.S. to World	27.1%	27.2%	17.2%	17.0%	14.3%	11.2%	11.8%	10.3%	10.6%	8.7%	8.7%	7.1%	4.7%	6.2%	
Florida <sup>a</sup>	4,271	7,126	5,408	8,055	7,340	5,736	5,989	5,454	4,270	3,952	3,335	2,819	1,839	2,933	
% of Florida to World	21.2%	21.9%	12.5%	13.7%	11.3%	7.9%	8.5%	7.5%	5.9%	5.4%	4.6%	3.8%	2.5%	3.7%	
Brazil	2,363	6,564	13,998	20,390	17,998	19,811	18,013	17,550	16,928	16,940	17,251	17,493	16,842	17,074	
China, mainland	58	93	578	1,558	2,986	6,688	7,096	7,306	7,802	8,052	8,420	8,559	9,842	10,436	
India	898	1,211	1,470	2,067	3,768	4,571	4,360	6,426	7,318	7,693	7,503	7,647	8,367	9,509	
Mexico	1,261	1,720	2,002	3,318	4,094	4,080	3,667	4,410	4,533	4,516	4,603	4,630	4,738	4,737	
Spain	1,736	1,887	2,065	2,624	2,939	2,819	2,942	3,394	3,494	2,935	3,138	3,357	3,640	3,227	
Egypt	415	810	1,248	1,561	2,015	2,578	2,786	2,855	3,136	3,351	3,438	3,148	3,086	3,197	
Italy	1,103	1,573	1,882	1,797	2,140	2,470	1,771	1,701	1,669	1,905	1,495	1,622	1,592	1,650	
Turkey	320	565	699	902	1,429	1,730	1,661	1,781	1,780	1,817	1,850	1,950	1,900	1,700	
South Africa	456	547	604	906	1,329	1,496	1,644	1,811	1,797	1,763	1,366	1,460	1,776	1,686	
Indonesia	97	186	448	542	1,929	1,819	1,612	1,655	1,927	1,856	2,138	2,295	2,510	2,563	
Pakistan	307	474	990	1,314	1,414	1,388	1,503	1,401	1,517	1,677	1,593	1,594	1,604	1,615	
Iran (Islamic Republic of)	100	285	827	1,652	2,037	2,293	2,456	2,547	1,530	1,650	1,944	1,756	2,185	2,309	
Morocco	572	679	763	916	760	859	962	759	1,001	869	909	1,037	1,019	1,182	
Argentina	611	765	640	763	849	1,130	934	860	1,022	1,001	1,032	1,025	1,007	1,026	
Algeria	298	330	186	257	461	815	803	891	955	1,005	893	1,014	1,134	1,200	
Greece	367	518	751	948	935	847	850	876	754	956	919	727	913	849	
Ghana	48	91	86	199	459	600	625	663	690	690	690	702	757	776	
Syrian Arab Republic	4	20	88	304	541	734	542	792	693	763	799	722	717	706	
All Others	3,652	5,351	6,426	6,842	7,555	7,584	7,858	7,935	7,670	7,569	8,045	8,308	7,877	8,267	
WORLD TOTAL	20,104	32,505	43,190	58,850	64,921	72,389	70,353	73,113	72,357	72,794	73,188	73,662	75,041	78,542	

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

SOURCE: FAO-FAOSTAT-Agricultural Data

**World Grapefruit Production** 

					Toriu (	Jiapei	<u> </u>	<u>ouuci</u>	<u> </u>			-			
			Average				2010		2211		2012	2017	2242	2242	
Country	1961- 1970	1971- 1980	1981- 1990	1991- 2000	2001- 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1,000 metric tons															
United States	1,666	2,506	2,278	2,387	1,549	1,147	1,204	1,092	950	789	728	633	559	560	
% of U.S. to World	67.7%	63.2%	53.4%	46.8%	25.5%	14.5%	14.6%	12.9%	10.9%	8.9%	8.0%	7.4%	6.2%	6.1%	
Florida	1,324	1,869	1,787	1,957	1,157	761	727	707	603	497	416	299	150	150	
% of Florida to World	53.7%	47.2%	41.9%	38.4%	19.0%	9.6%	8.8%	8.3%	6.9%	5.6%	4.6%	3.5%	1.7%	1.6%	
China, mainland	8	7	41	145	1,212	3,207	3,370	3,717	4,064	4,368	4,587	4,580	4,900	4,930	
Viet Nam	15	25	54	110	270	424	437	440	467	471	497	568	658	819	
Mexico	14	73	95	173	367	397	415	425	425	424	438	442	460	489	
South Africa	69	103	89	160	343	416	309	443	418	392	361	326	445	379	
India	23	25	46	99	172	196	323	285	249	261	391	-	-	-	
Turkey	4	14	26	75	160	219	227	229	230	250	253	260	250	249	
Thailand	10	14	15	96	276	272	246	247	242	233	231	251	261	282	
Sudan	41	49	56	64	145	18	196	198	198	219	220	225	238	252	
Israel	177	432	412	368	256	184	247	211	227	185	176	158	149	149	
Argentina	76	162	161	206	217	172	132	114	131	130	102	112	114	113	
Tunisia	2	11	33	53	78	91	96	96	99	101	103	105	107	109	
Iran (Islamic Republic of)	3	8	23	53	46	78	82	87	94	88	75	84	85	87	
Brazil	26	33	47	62	70	76	78	78	79	80	80	81	82	83	
China, Taiwan Province of	11	14	23	85	95	83	84	76	80	72	76	90	91	83	
Spain	5	6	16	25	36	48	57	59	69	69	71	79	71	70	
Bangladesh	3	4	6	12	41	59	61	60	63	63	66	66	68	72	
Cuba	12	38	235	307	176	112	85	64	41	56	56	42	24	21	
Swaziland	16	35	40	40	40	54	54	47	52	47	47	-	-	-	
Syrian Arab Republic	-	-	-	-	23	40	36	45	45	47	50	52	54	57	
Paraguay	16	42	75	63	42	42	53	44	41	50	50	50	50	50	
All Others	267	364	495	514	470	591	450	435	425	439	415	396	308	359	
WORLD TOTAL	2,463	3,964	4,267	5,096	6,083	7,926	8,241	8,491	8,686	8,835	9,074	8,599	8,975	9,213	

SOURCE: FAO-FAOSTAT-Agricultural Data

<sup>&</sup>lt;sup>b</sup>data not previously collected for these countries.

**World Tangerine Production** 

			Average		Tid Tu										
Country	1961- 1970	1971- 1980	1981- 1990	1991- 2000	2001- 2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
1,000 metric tons															
United States	320	599	496	500	416	596	682	619	664	765	780	933	729	986	
% of U.S. to World	7.8%	7.6%	4.7%	3.0%	1.8%	2.2%	2.5%	2.1%	2.2%	2.3%	2.4%	2.9%	2.1%	2.8%	
Florida	173	214	120	185	226	200	185	141	125	98	61	61	58	32	
% of Florida to World	4.2%	2.7%	1.1%	1.1%	1.0%	0.7%	0.7%	0.5%	0.4%	0.3%	0.2%	0.2%	0.2%	0.1%	
China, mainland	161	257	1,614	5,593	9,967	13,891	14,469	15,442	15,900	16,861	17,155	17,557	19,035	19,707	
Spain	198	679	1,150	1,706	2,122	2,117	1,871	2,199	2,390	3,592	2,942	1,967	1,979	1,826	
Turkey	47	120	264	442	710	872	875	942	1,047	1,156	1,337	1,550	1,650	1,400	
Brazil	291	433	637	756	1,186	1,005	960	938	965	1,001	998	967	991	985	
Morocco	83	186	289	365	399	753	877	664	1,185	993	1,078	1,278	1,209	1,375	
Egypt	66	87	133	377	701	848	885	937	957	983	1,020	1,039	1,068	1,096	
Japan	1,560	3,266	2,339	1,387	1,035	928	846	896	875	778	805	741	774	747	
Italy	193	318	417	482	675	864	760	643	617	822	649	747	454	764	
Republic of Korea	2	70	388	587	654	681	692	683	722	672	699	597	621	645	
Iran (Islamic Republic of)	24	66	217	628	626	582	615	650	694	666	652	369	535	587	
Pakistan	108	168	368	488	525	515	558	520	564	623	592	589	591	596	
Mexico	88	103	125	246	400	406	450	494	492	486	467	492	508	486	
Argentina	171	254	430	577	478	555	374	365	487	491	468	459	431	426	
Peru	9	19	29	87	172	236	281	314	340	358	404	408	482	508	
Algeria	111	147	88	95	141	218	208	231	228	262	234	251	263	295	
Bolivia (Plurinational State of)	15	19	36	50	59	125	128	123	199	213	226	217	235	240	
China, Taiwan Province of	96	237	237	215	155	197	189	178	197	160	160	184	178	176	
South Africa	13	20	29	70	132	163	163	167	172	176	180	188	192	196	
Israel	43	75	128	119	118	131	179	154	144	204	164	160	175	211	
Nepal	-	-	7	68	115	179	167	147	149	149	147	165	161	177	
All Others	503	706	1,093	1,616	1,783	1,445	1,540	1,537	1,566	1,556	1,636	1,745	1,873	1,874	
WORLD TOTAL	4,100	7,829	10,511	16,455	22,571	27,307	27,769	28,843	30,552	32,969	32,793	32,606	34,133	35,302	

SOURCE: FAO-FAOSTAT-Agricultural Data

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

Season <sup>a</sup> Trees         Produced         Frozen Concentrate <sup>b</sup> 65° Brix           million	Production <sup>b</sup>
1990-91       109       242       202       83       838         1995-96       163       357       263       74       1,062         2000-01       162       355       270       76       1,140         2001-02       161       280       220       79       953         2002-03       160       365       305       84       1,309         2003-04       159       290       230       79       1,040         2004-05       160       380       336       88       1,407         2005-06       162       320       284       89       1,240         2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	SSE
1995-96       163       357       263       74       1,062         2000-01       162       355       270       76       1,140         2001-02       161       280       220       79       953         2002-03       160       365       305       84       1,309         2003-04       159       290       230       79       1,040         2004-05       160       380       336       88       1,407         2005-06       162       320       284       89       1,240         2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	nillion gallons
2000-01       162       355       270       76       1,140         2001-02       161       280       220       79       953         2002-03       160       365       305       84       1,309         2003-04       159       290       230       79       1,040         2004-05       160       380       336       88       1,407         2005-06       162       320       284       89       1,240         2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	1,167
2001-02       161       280       220       79       953         2002-03       160       365       305       84       1,309         2003-04       159       290       230       79       1,040         2004-05       160       380       336       88       1,407         2005-06       162       320       284       89       1,240         2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	1,479
2002-03       160       365       305       84       1,309         2003-04       159       290       230       79       1,040         2004-05       160       380       336       88       1,407         2005-06       162       320       284       89       1,240         2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	1,588
2003-04       159       290       230       79       1,040         2004-05       160       380       336       88       1,407         2005-06       162       320       284       89       1,240         2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	1,327
2004-05       160       380       336       88       1,407         2005-06       162       320       284       89       1,240         2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	1,823
2005-06       162       320       284       89       1,240         2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	1,448
2006-07       164       350       316       90       1,380         2007-08       165       360       325       90       1,420	1,959
2007-08 165 360 325 90 1,420	1,727
·	1,922
	1,978
2008-09 166 315 276 88 1,195	1,664
2009-10 164 320 274 86 1,220	1,699
2010-11 167 285 257 90 1,055	1,469
2011-12 171 444 395 89 1,105	1,539
2012-13 173 390 310 79 1,188	1,654
2013-14 157 290 245 84 890	1,239
2014-15 166 325 270 83 1,205	1,678
2015-16 174 301 262 87 699	973
2016-17 176 245 209 85 949	1,322
2017-18 175 407 371 87 1,347	1,876
2018-19 175 286 245 86 1,004	1,398
2019-20 174 375 328 87 1,324	1,844
2020-21 <sup>c</sup> 174 269 229 85 965	1,344
2021-22 <sup>d</sup> 174 315 275 87 1,157	1,611

<sup>&</sup>lt;sup>a</sup>July-June. <sup>b</sup>Beginning 2004-05, includes NFC for export. <sup>c</sup>Estimate. <sup>d</sup>Projected.

**Brazil FCOJ Exports and Prices** 

Year	Exports	U.S. \$ per MT <sup>a</sup>	Season	Exports	U.S. \$ per MT <sup>a</sup>
	MT 65° Brix	dollars	July-June	MT 65° Brix	dollars
1974	108,460	546	1996-97	1,153,799	1,024
1975	180,897	454	1997-98	1,288,207	875
1976	209,841	481	1998-99	1,146,983	1,108
1977	213,524	829	1999-00	1,305,311	965
1978	335,629	991	2000-01	1,329,527	660
1979	308,328	965	2001-02	1,161,317	717
1980	401,144	845	2002-03	1,259,344	873
1981	639,143	1,032	2003-04	1,320,629	823
1982	502,034	1,101	2004-05	1,347,208	760
1983	552,373	1,104	2005-06	1,256,591	856
1984	905,231	1,563	2006-07	1,294,426	1,413
1985	484,782	1,544	2007-08	1,118,622	1,582
1986	808,262	844	2008-09	1,096,641	1,394
1987	754,968	1,100	2009-10	1,105,964	1,119
1988	663,600	1,716	2010-11	970,982	1,757
1989	710,114	1,381	2011-12	975,621	2,120
1990	899,801	1,527	2012-13	972,980	1,901
1991	913,747	985	2013-14	903,220	1,791
1992	968,627	1,087	2014-15	977,953	1,740
1993	1,165,241	709	2015-16	916,755	1,542
1994	1,146,758	859	2016-17	711,334	1,803
1995	960,905	1,150	2017-18	943,752	1,818
1996	1,202,427	1,156	2018-19	710,026	1,858
1997	1,179,572	850	2019-20	843,586	1,556

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

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

Oct-Sept		Florida			Calif/ <sup>a</sup>	U.S. In	nports	U.S.	Total	
Season	FCOJ 11.8° Brix	COJ	Total	Texas <sup>a</sup>	Arizona	Florida	Total	Exports	Domestic Availability	
					million SSE g	jallons				65° Brix
2000-01	791.8	565.2	1357.1	5.6	36.0	125.2	257.7	122.9	1533.5	1,101
2001-02	868.6	546.5	1415.0	2.0	30.4	96.6	188.8	181.2	1455.1	1,045
2002-03	633.5	574.6	1208.1	2.6	50.6	155.2	290.9	104.8	1447.4	1,039
2003-04	881.7	566.3	1448.0	2.8	24.7	84.8	222.3	123.0	1574.9	1,131
2004-05	347.3	564.0	911.3	3.2	63.4	129.9	357.5	119.1	1216.3	873
2005-06	341.7	592.6	934.3	1.9	69.8	97.8	298.8	137.7	1167.2	838
2006-07	319.3	501.6	820.9	3.0	77.4	169.0	399.2	122.6	1177.9	846
2007-08	546.0	560.6	1106.6	2.4	61.6	180.3	405.5	138.7	1437.4	1,034
2008-09	487.9	547.0	1034.8	1.3	30.8	126.9	317.4	124.7	1259.6	906
2009-10	332.2	473.6	805.9	1.1	39.6	108.3	327.6	146.7	1027.5	738
2010-11	331.6	532.4	864.0	1.7	54.7	96.6	265.2	214.2	971.5	698
2011-12	429.9	497.7	927.6	0.9	37.6	95.4	223.3	151.7	1037.7	745
2012-13	307.5	513.2	820.7	1.6	28.2	186.9	420.5	169.4	1101.6	791
2013-14	144.0	478.6	622.6	1.8	40.2	197.6	417.6	160.0	922.2	792
2014-15	116.6	430.0	546.6	1.3	41.8	252.2	458.4	113.1	934.9	793
2015-16	89.9	353.5	443.4	1.9	58.4	212.8	390.1	91.6	802.4	794
2016-17	72.4	314.8	387.2	1.0	32.1	251.2	416.8	72.1	764.9	795
2017-18	39.9	196.3	236.2	2.1	29.8	413.3	581.3	44.8	804.6	796
2018-19	84.8	309.9	394.7	7.0	52.5	348.5	481.8	41.9	894.1	797
2019-20	79.7	290.1	369.8	1.7	40.3	125.7	292.2	47.8	656.4	798

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

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

**Estimated U.S. Orange Juice Supply and Demand** 

Oct-Sept	Total	Net Carry	Total Presumed	Sa	les	- Population	Per Capita	
Season	Domestic Availability	Over <sup>a</sup>	Consumption	Retail <sup>b</sup>	Other <sup>c</sup>	Population	Consumption	
			- million SSE gallons			millions	SSE gal.	
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	1,437	+274	1,163	624	539	303	3.8	
2008-09	1,260	+42	1,217	629	588	306	4.0	
2009-10	1,028	-125	1,153	608	544	309	3.7	
2010-11	971	-165	1,136	618	519	311	3.7	
2011-12	1,038	+88	949	569	381	313	3.0	
2012-13	1,102	+17	1,084	562	522	315	3.4	
2013-14	922	-30	953	526	427	318	3.0	
2014-15	935	+32	903	491	412	321	2.8	
2015-16	802	-87	890	464	425	324	2.7	
2016-17	765	-57	822	432	389	325	2.5	
2017-18	805	-13	818	411	407	329	2.5	
2018-19	894	+164	730	390	340	329	2.2	
2019-20	656	-112	768	440	328	330	2.3	

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

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

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

Oct-Sept		Florida			Calif/ <sup>a</sup>	U.S.	Total	U.S.	Total
Season	FCGJ	CGJ	Total	Texas <sup>a</sup>	Arizona	Imports	Supply	Exports	Domestic Availability
					million SS	SE gallons			
1998-99	111.2	42.3	153.5	9.7	2.50	.3	166.0	24.3	141.7
1999-00	129.9	55.3	185.3	9.9	3.58	5.0	203.7	32.9	170.8
2000-01	123.4	37.8	161.2	15.1	2.66	.9	179.9	39.0	140.9
2001-02	123.8	39.9	163.8	9.6	2.28	.3	176.0	36.3	139.7
2002-03	87.9	37.3	125.2	11.2	1.99	.4	138.8	39.5	99.3
2003-04	94.8	36.7	131.5	11.0	1.97	.5	145.0	55.5	89.5
2004-05	13.9	16.9	30.7	16.7	1.97	11.4	60.8	23.9	36.9
2005-06	44.1	23.4	67.4	9.6	1.97	5.6	84.6	18.7	66.0
2006-07	71.6	28.1	99.7	17.5	1.97	.9	120.1	37.2	83.0
2007-08	62.0	33.2	95.3	13.0	-	.3	108.6	36.4	72.2
2008-09	48.7	23.2	71.9	11.1	-	.5	83.5	33.9	49.6
2009-10	36.1	29.4	65.5	10.4	-	.6	76.5	24.7	51.8
2010-11	42.2	25.1	67.3	13.2	-	.4	80.8	32.8	48.0
2011-12	41.1	24.2	65.3	10.0	1.99	.5	77.8	23.8	54.0
2012-13	33.8	25.2	59.0	14.1	1.75	.8	75.6	22.8	52.8
2013-14	26.1	23.3	49.3	13.1	1.42	.3	64.2	18.2	45.9
2014-15	20.4	18.0	38.4	6.2	3.18	.4	48.1	15.7	32.4
2015-16	14.9	16.3	31.1	10.4	1.70	.8	44.1	11.1	33.0
2016-17	11.7	13.2	24.9	9.1	2.39	2.8	39.1	8.6	30.5
2017-18	7.9	7.5	15.4	9.1	2.65	6.7	33.7	5.4	28.4
2018-19	6.0	10.1	16.1	16.8	4.25	12.3	49.4	2.7	46.7
2019-20	2.6	12.2	14.8	11.8	1.86	5.0	33.4	2.3	30.8

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

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

**Estimated U.S. Grapefruit Juice Supply and Demand** 

Oct-Sept	Total	Net Florida	Total		les		Per Capita	
Season	Domestic Availability	Carry Over	Presumed Consumption	Retail <sup>a</sup>	Other <sup>b</sup>	Population	Consumption	
		mi	llion SSE gallons			millions	SSE gal.	
1998-99	142	-36	177	60	118	279	.64	
1999-00	171	+26	145	<b>52</b>	93	282	.51	
2000-01	141	+2	139	46	93	284	.49	
2001-02	140	+13	126	40	86	287	.44	
2002-03	99	-15	115	37	78	290	.40	
2003-04	89	-8	97	34	63	292	.33	
2004-05	37	-39	75	24	51	295	.26	
2005-06	66	+9	57	20	37	298	.19	
2006-07	83	+18	65	20	45	301	.22	
2007-08	72	+2	70	22	48	303	.23	
2008-09	50	-14	64	21	42	306	.21	
2009-10	52	+	52	20	31	309	.17	
2010-11	48	-10	58	20	38	311	.19	
2011-12	54	+4	50	18	32	313	.16	
2012-13	53	-3	56	17	38	315	.18	
2013-14	46	-1	47	16	31	318	.15	
2014-15	32	-6	39	15	24	321	.12	
2015-16	33	-2	35	14	21	324	.09	
2016-17	30	-7	37	14	23	325	.11	
2017-18	28	-7	35	13	22	329	.11	
2018-19	47	+4	43	12	31	329	.13	
2019-20	31	+2	29	12	17	330	.09	

<sup>a</sup>All outlets.

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

## **General Economic Indicators**

	Ochiciai	LCOHOHIIC	inalcato	3
		Price Indices		Disposable
Year	(1982-8	4 = 100)	Population	Personal
	All Food	All Items		Income
			millions	billion \$
1993	140.9	144.5	259.9	5,000.2
1994	144.3	148.2	263.1	5,244.2
1995	148.4	152.4	266.3	5,532.6
1996	153.3	156.9	269.4	5,829.9
1997	157.3	160.5	272.6	6,148.8
1998	160.7	163.0	275.9	6,561.3
1999	164.1	166.6	279.0	6,876.3
2000	167.8	172.2	282.2	7,400.5
2001	173.1	177.1	285.1	7,752.3
2002	176.2	179.9	287.8	8,099.2
2003	180.0	184.0	290.3	8,486.7
2004	186.2	188.9	293.0	9,003.2
2005	190.7	195.3	295.8	9,401.8
2006	195.2	201.6	298.6	10,037.7
2007	202.9	207.3	301.6	10,507.9
2008	210.6	215.3	304.4	10,995.4
2009	218.5	214.5	307.0	10,937.2
2010	219.1	218.1	309.3	11,243.7
2011	225.4	224.9	311.7	11,787.4
2012	233.0	229.6	314.1	12,245.8
2013	236.5	233.0	316.5	12,476.2
2014	240.8	236.7	318.9	12,985.8
2015	246.4	237.0	321.4	13,395.0
2016	248.2	240.0	322.9	14,045.5
2017	250.1	245.1	325.0	14,796.3
2018	253.6	251.1	326.7	15,532.1
2019	258.3	255.7	328.2	16,425.2
2020	267.2	258.8	330.1	17,495.3

<sup>&</sup>lt;sup>a</sup>Preliminary. SOURCE: U.S. Census Bureau, Bureau of Labor Statistics, and Bureau of Economic Analysis

## Estimated Delivered-in Value of the Florida Citrus Industry, 2008-09 to 2015-16

**Oranges** 

Season	Without HLB	With HLB	Difference
		million \$	
2008-09	1,314	1,304	10
2009-10	1,320	1,184	136
2010-11	1,319	1,478	-159
2011-12	1,319	1,758	-439
2012-13	1,328	1,260	68
2013-14	1,325	1,199	126
2014-15	1,325	1,089	236
2015-16	1,330	833	497
CUMULATIVE TOTAL	10,580	10,105	2,994

SOURCE: C.D. Court, A.W. Hodges & M. Rahmani & T.H. Spreen, "Economic Contributions of the Florida Citrus Industry in 2015-16," UF-IFAS-FRED, Gainesville, FL, May 2017.

# Summary of economic impacts of citrus greening disease (HLB) for Florida processed orange and grapefruit production, 2006-07 to 2015-16

Impact Type	Value Added	Labor Income	Output/Sales	Employment
		million \$		Job-Years
Direct Effects	981	634	1,809	9,732
Indirect and Induced Effects	1,787	1,126	2,835	24,393
Total Effect	2,768	1,760	4,644	34,125
Average annual impact over 8 years	464	176	277	3,412

SOURCE: A.W. Hodges & T.H. Spreen, "Economic Impacts of the Florida Citrus Industry in 2012-13," UF-IFAS-FRED, Gainesville, FL, December 2014.

#### Florida Delivered-In Break-even Price

Region/ Market/ Variety	1	5-16	1	6-17	17-18		18-19		1	9-20
variety		Assume	es yie	ld of 300 k	oxes	acre for a	ıll var	ieties and	regio	ons
Processed Orange					\$/	/PS				
Central	\$	1.86		а		а		а		а
Southwest	\$	1.91	\$	1.88	\$	1.94	\$	1.85	\$	1.78
Fresh Grapefruit					\$/ca	arton				
Indian River	\$	9.26	\$	9.59	\$	6.78	\$	6.20		а

SOURCE: Ariel Singerman, assistant professor, Food and Resource Economics Department, UF/IFAS Extension, Citrus Research and Education Center, Lake Alfred, FL.

Website: https://crec.ifas.ufl.edu/economics/production-costs/

<sup>&</sup>lt;sup>a</sup>Grower Data Not Available

Florida Land Value Survey

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

Data	S	outh Florid	a	C	entral Florid	da
Date	Oranges	Oranges Grapefruit 5-7 Year Citrus Oranges		Oranges	Grapefruit	5-7 Year Citrus
			\$/8	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-Sept	F	lorida Port	s	1	Total U.S.		
Season	Volu	ume	Value	Volume		Value	
	mil. SSE gal.	thou. MT 65°	mil. \$	mil. SSE gal.	thou. MT 65°	mil. \$	
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	95.4	68.5	169.0	223.3	160.3	392.3	
2012-13	186.9	134.2	250.2	420.5	302.0	567.5	
2013-14	197.6	141.9	275.1	417.6	299.9	587.8	
2014-15	252.2	181.1	309.8	458.4	329.1	614.9	
2015-16	212.8	152.8	278.6	390.1	280.1	556.7	
2016-17	251.2	180.4	440.1	416.8	299.3	774.3	
2017-18	413.3	296.8	614.6	581.3	417.4	934.2	
2018-19	348.5	250.2	532.8	481.8	346.0	786.8	
2019-20	125.7	90.3	174.6	223.5	160.5	338.4	

SOURCE: U.S. Department of Commerce

**U.S. Citrus Juice Exports** 

Oct-Sept	Orange	Juice	Grapefru	uit Juice	Citrus Jui	ce, NSPF <sup>a</sup>
Season	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	151.7	452.3	15.2	56.6	7.6	30.6
2012-13	169.4	465.2	14.8	56.9	6.3	28.6
2013-14	160.0	470.3	12.6	48.2	7.2	32.0
2014-15	113.1	387.8	11.0	40.8	8.5	37.6
2015-16	91.6	381.6	9.5	36.9	8.2	36.6
2016-17	72.1	302.0	7.7	30.9	6.9	29.8
2017-18	44.8	230.1	6.8	31.8	7.7	33.1
2018-19	41.9	221.7	5.9	30.6	10.1	40.9
2019-20	47.8	238.9	5.0	24.9	8.8	35.9
<sup>a</sup> Includes lemon i		20.0	0.0		URCF: U.S. Departm	

<sup>a</sup>Includes lemon juice

SOURCE: U.S. Department of Commerce

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

Oct-Sep Season         Oranges         Grapefruit         Mandarins and Tangerines           Volume         Value         Volume         Value         Volume         Value           mil. lbs.         mill. lbs. <th <="" colspan="6" th=""><th></th><th colspan="7"></th></th>	<th></th> <th colspan="7"></th>													
Volume   Value   Volume   Value   Volume   Value   V	Oct-Sep	Orar	naes	Grap	efruit									
Volume   Value   Volume   Value   Volume   Value   Mil. lbs.   m	_	0.0	.900			Tangerines								
1991-92         35.6         7.7         22.1         1.2         42.5         16.2           1992-93         22.6         8.2         27.6         1.3         43.6         17.1           1993-94         36.0         13.3         32.1         1.4         39.1         17.5           1994-95         38.8         10.8         29.8         1.2         47.3         19.2           1995-96         51.6         22.4         32.6         1.6         43.3         19.4           1996-97         65.4         26.8         28.2         1.2         74.5         36.0           1997-98         88.1         37.0         11.4         0.5         90.1         46.3           1998-99         224.7         79.8         34.2         1.3         124.1         67.5           1999-00         107.5         43.5         12.7         0.9         206.7         96.8           2000-01         116.6         38.4         42.8         2.4         205.7         115.2           2001-02         125.2         42.6         60.2         2.3         140.0         76.3           2002-03         122.6         51.3         39.2 <td< td=""><td>Oudon</td><td>Volume</td><td>Value</td><td>Volume</td><td>Value</td><td>Volume</td><td>Value</td></td<>	Oudon	Volume	Value	Volume	Value	Volume	Value							
1992-93         22.6         8.2         27.6         1.3         43.6         17.1           1993-94         36.0         13.3         32.1         1.4         39.1         17.5           1994-95         38.8         10.8         29.8         1.2         47.3         19.2           1995-96         51.6         22.4         32.6         1.6         43.3         19.4           1996-97         65.4         26.8         28.2         1.2         74.5         36.0           1997-98         88.1         37.0         11.4         0.5         90.1         46.3           1998-99         224.7         79.8         34.2         1.3         124.1         67.5           1999-00         107.5         43.5         12.7         0.9         206.7         96.8           2000-01         116.6         38.4         42.8         2.4         205.7         115.2           2001-02         125.2         42.6         60.2         2.3         140.0         76.3           2002-03         122.6         51.3         39.2         1.6         188.5         126.1           2003-04         128.0         51.9         41.9		mil. lbs.	mil. \$	mil. lbs.	mil. \$	mil. lbs.	mil. \$							
1993-94       36.0       13.3       32.1       1.4       39.1       17.5         1994-95       38.8       10.8       29.8       1.2       47.3       19.2         1995-96       51.6       22.4       32.6       1.6       43.3       19.4         1996-97       65.4       26.8       28.2       1.2       74.5       36.0         1997-98       88.1       37.0       11.4       0.5       90.1       46.3         1998-99       224.7       79.8       34.2       1.3       124.1       67.5         1999-00       107.5       43.5       12.7       0.9       206.7       96.8         2000-01       116.6       38.4       42.8       2.4       205.7       115.2         2001-02       125.2       42.6       60.2       2.3       140.0       76.3         2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       3	1991-92	35.6	7.7	22.1	1.2	42.5	16.2							
1994-95       38.8       10.8       29.8       1.2       47.3       19.2         1995-96       51.6       22.4       32.6       1.6       43.3       19.4         1996-97       65.4       26.8       28.2       1.2       74.5       36.0         1997-98       88.1       37.0       11.4       0.5       90.1       46.3         1998-99       224.7       79.8       34.2       1.3       124.1       67.5         1999-00       107.5       43.5       12.7       0.9       206.7       96.8         2000-01       116.6       38.4       42.8       2.4       205.7       115.2         2001-02       125.2       42.6       60.2       2.3       140.0       76.3         2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       <	1992-93	22.6	8.2	27.6	1.3	43.6	17.1							
1995-96         51.6         22.4         32.6         1.6         43.3         19.4           1996-97         65.4         26.8         28.2         1.2         74.5         36.0           1997-98         88.1         37.0         11.4         0.5         90.1         46.3           1998-99         224.7         79.8         34.2         1.3         124.1         67.5           1999-00         107.5         43.5         12.7         0.9         206.7         96.8           2000-01         116.6         38.4         42.8         2.4         205.7         115.2           2001-02         125.2         42.6         60.2         2.3         140.0         76.3           2002-03         122.6         51.3         39.2         1.6         188.5         126.1           2003-04         128.0         51.9         41.9         1.9         202.5         127.7           2004-05         154.3         67.4         30.8         1.5         207.5         117.6           2005-06         162.8         80.0         38.8         2.0         226.9         152.9           2006-07         247.0         117.9         47.5 </td <td>1993-94</td> <td>36.0</td> <td>13.3</td> <td>32.1</td> <td>1.4</td> <td>39.1</td> <td>17.5</td>	1993-94	36.0	13.3	32.1	1.4	39.1	17.5							
1996-97       65.4       26.8       28.2       1.2       74.5       36.0         1997-98       88.1       37.0       11.4       0.5       90.1       46.3         1998-99       224.7       79.8       34.2       1.3       124.1       67.5         1999-00       107.5       43.5       12.7       0.9       206.7       96.8         2000-01       116.6       38.4       42.8       2.4       205.7       115.2         2001-02       125.2       42.6       60.2       2.3       140.0       76.3         2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3	1994-95	38.8	10.8	29.8	1.2	47.3	19.2							
1997-98       88.1       37.0       11.4       0.5       90.1       46.3         1998-99       224.7       79.8       34.2       1.3       124.1       67.5         1999-00       107.5       43.5       12.7       0.9       206.7       96.8         2000-01       116.6       38.4       42.8       2.4       205.7       115.2         2001-02       125.2       42.6       60.2       2.3       140.0       76.3         2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2010-11       203.2       85.1 <td>1995-96</td> <td>51.6</td> <td>22.4</td> <td>32.6</td> <td>1.6</td> <td>43.3</td> <td>19.4</td>	1995-96	51.6	22.4	32.6	1.6	43.3	19.4							
1998-99       224.7       79.8       34.2       1.3       124.1       67.5         1999-00       107.5       43.5       12.7       0.9       206.7       96.8         2000-01       116.6       38.4       42.8       2.4       205.7       115.2         2001-02       125.2       42.6       60.2       2.3       140.0       76.3         2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5	1996-97	65.4	26.8	28.2	1.2	74.5	36.0							
1999-00       107.5       43.5       12.7       0.9       206.7       96.8         2000-01       116.6       38.4       42.8       2.4       205.7       115.2         2001-02       125.2       42.6       60.2       2.3       140.0       76.3         2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.	1997-98	88.1	37.0	11.4	0.5	90.1	46.3							
2000-01       116.6       38.4       42.8       2.4       205.7       115.2         2001-02       125.2       42.6       60.2       2.3       140.0       76.3         2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136	1998-99	224.7	79.8	34.2	1.3	124.1	67.5							
2001-02       125.2       42.6       60.2       2.3       140.0       76.3         2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       14	1999-00	107.5	43.5	12.7	0.9	206.7	96.8							
2002-03       122.6       51.3       39.2       1.6       188.5       126.1         2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9	2000-01	116.6	38.4	42.8	2.4	205.7	115.2							
2003-04       128.0       51.9       41.9       1.9       202.5       127.7         2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1 <td< td=""><td>2001-02</td><td>125.2</td><td>42.6</td><td>60.2</td><td>2.3</td><td>140.0</td><td>76.3</td></td<>	2001-02	125.2	42.6	60.2	2.3	140.0	76.3							
2004-05       154.3       67.4       30.8       1.5       207.5       117.6         2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       <	2002-03	122.6	51.3	39.2	1.6	188.5	126.1							
2005-06       162.8       80.0       38.8       2.0       226.9       152.9         2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9	2003-04	128.0	51.9	41.9	1.9	202.5	127.7							
2006-07       247.0       117.9       47.5       3.0       268.1       181.9         2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6	2004-05	154.3	67.4	30.8	1.5	207.5	117.6							
2007-08       178.6       77.4       33.2       2.2       214.6       132.1         2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2005-06	162.8	80.0	38.8	2.0	226.9	152.9							
2008-09       199.6       91.3       26.1       2.0       286.6       180.8         2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2006-07	247.0	117.9	47.5	3.0	268.1	181.9							
2009-10       223.1       95.5       25.1       2.6       278.0       162.8         2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2007-08	178.6	77.4	33.2	2.2	214.6	132.1							
2010-11       203.2       85.1       15.7       1.9       329.0       191.7         2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2008-09	199.6	91.3	26.1	2.0	286.6	180.8							
2011-12       290.0       122.5       2.2       0.7       316.2       177.7         2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2009-10	223.1	95.5	25.1	2.6	278.0	162.8							
2012-13       288.1       136.5       30.3       5.3       325.7       190.3         2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2010-11	203.2	85.1	15.7	1.9	329.0	191.7							
2013-14       344.8       148.4       30.4       5.9       420.6       271.4         2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2011-12	290.0	122.5	2.2	0.7	316.2	177.7							
2014-15       334.9       135.3       20.5       5.2       445.0       300.4         2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2012-13	288.1	136.5	30.3	5.3	325.7	190.3							
2015-16       366.1       143.6       48.3       10.7       519.3       355.5         2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2013-14	344.8	148.4	30.4	5.9	420.6	271.4							
2016-17       379.8       149.1       59.2       12.4       599.7       396.3         2017-18       482.9       205.1       22.5       10.4       648.9       423.0         2018-19       431.6       166.4       33.5       15.3       663.9       416.8	2014-15	334.9	135.3	20.5	5.2	445.0	300.4							
2017-18     482.9     205.1     22.5     10.4     648.9     423.0       2018-19     431.6     166.4     33.5     15.3     663.9     416.8	2015-16	366.1	143.6	48.3	10.7	519.3	355.5							
2018-19 431.6 166.4 33.5 15.3 663.9 416.8	2016-17	379.8	149.1	59.2	12.4	599.7	396.3							
	2017-18	482.9	205.1	22.5	10.4	648.9	423.0							
2019-20 430.9 176.7 32.1 12.3 729.4 476.5	2018-19	431.6	166.4	33.5	15.3	663.9	416.8							
	2019-20	430.9	176.7	32.1	12.3	729.4	476.5							

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

<b>a</b> a	Oran	ges	Grap	efruit	Tangerines	
Season <sup>a</sup>	Volume	Value	Volume	Value	Volume	Value
	mil. lbs.	mil. \$	mil. lbs.	mil. \$	mil. lbs.	mil. \$
1991-92	1,056.2	259.4	984.5	245.6	42.9	17.2
1992-93	1,240.3	279.5	980.5	222.3	33.8	12.6
1993-94	1,197.8	291.0	1,017.6	228.4	49.4	16.5
1994-95	1,280.3	324.1	1,062.1	239.5	41.1	16.0
1995-96	1,132.4	287.7	1,096.4	258.9	48.6	18.6
1996-97	1,301.7	323.2	1,067.9	240.4	50.8	19.2
1997-98	1,415.4	361.2	853.8	189.8	55.2	19.7
1998-99	581.9	170.9	945.3	221.4	31.9	12.5
1999-00	1,120.8	282.6	854.8	206.7	61.5	19.6
2000-01	1,256.4	322.0	866.2	201.5	32.5	11.4
2001-02	1,104.9	299.5	874.4	201.4	33.8	13.1
2002-03	1,406.1	343.7	773.4	187.2	37.5	15.2
2003-04	1,379.4	372.4	873.0	242.1	44.1	16.1
2004-05	1,261.4	378.9	498.2	151.1	43.0	19.4
2005-06	1,212.1	367.8	558.3	200.7	45.3	22.6
2006-07	703.1	252.4	858.7	271.4	36.3	19.2
2007-08	1,351.7	455.5	596.1	199.7	70.2	40.9
2008-09	1,092.8	393.3	544.2	184.8	64.7	37.9
2009-10	1,461.6	541.3	541.8	197.2	75.8	47.8
2010-11	1,660.3	642.1	497.9	177.5	113.8	70.2
2011-12	1,532.5	654.9	457.8	158.9	80.8	55.4
2012-13	1,503.7	642.1	402.8	144.7	92.8	64.8
2013-14	1,123.7	572.0	323.2	125.3	69.1	51.5
2014-15	1,177.0	568.1	310.6	121.8	93.1	68.2
2015-16	1,446.1	623.6	272.1	106.1	80.0	56.3
2016-17	1,330.4	637.6	235.5	93.4	56.6	43.4
2017-18	1,023.6	584.6	98.1	47.7	57.2	49.8
2018-19	1,051.6	518.8	126.5	69.2	76.3	56.3
2019-20	1,127.0	573.0	121.6	67.7	79.8	63.2

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

Imported FCOJ Prices<sup>a</sup>

Oct-Sept Season	Bra	azil	Mex	cico	Oth	Other		Imported Average	
Season	\$/MT <sup>c</sup>	\$/PS <sup>d</sup>							
1991-92	1,484	1.04	1,500	1.05	1,861	1.30	1,509	1.05	
1992-93	889	.62	930	.65	1,153	.80	908	.63	
1993-94	1,002	.70	1,250	.87	1,333	.93	1,040	.73	
1994-95	989	.69	1,260	.88	1,338	.93	1,099	.77	
1995-96	1,316	.92	1,534	1.07	1,643	1.15	1,400	.98	
1996-97	1,074	.75	1,211	.85	1,241	.87	1,125	.79	
1997-98	885	.62	1,266	.88	1,385	.97	1,044	.73	
1998-99	1,022	.71	1,387	.97	1,513	1.06	1,127	.79	
1999-00	804	.56	1,297	.91	1,452	1.01	982	.69	
2000-01	703	.49	1,044	.73	1,813	1.26	990	.69	
2001-02	727	.51	1,149	.80	2,312	1.61	1,145	.80	
2002-03	910	.63	1,363	.95	1,788	1.25	1,092	.76	
2003-04	764	.53	979	.68	1,180	.82	889	.62	
2004-05	844	.59	1,003	.70	1,244	.87	954	.67	
2005-06	1,132	.79	1,370	.96	1,678	1.17	1,276	.89	
2006-07	1,913	1.33	2,395	1.67	2,378	1.66	2,097	1.46	
2007-08	1,505	1.05	2,087	1.46	1,826	1.27	1,709	1.19	
2008-09	1,226	.86	1,393	.97	1,550	1.08	1,357	.95	
2009-10	1,333	.93	1,714	1.20	1,930	1.35	1,568	1.09	
2010-11	1,940	1.35	2,056	1.44	2,570	1.79	2,115	1.48	
2011-12	2,155	1.50	2,348	1.64	2,918	2.04	2,447	1.71	
2012-13	1,545	1.08	1,915	1.34	2,543	1.77	1,828	1.28	
2013-14	1,709	1.19	2,089	1.46	2,503	1.75	1,928	1.35	
2014-15	1,483	1.04	2,454	1.71	2,317	1.62	1,837	1.28	
2015-16	1,424	.99	2,270	1.58	2,597	1.81	1,923	1.34	
2016-17	1,881	1.31	3,122	2.18	3,294	2.30	2,634	1.84	
2017-18	1,767	1.23	2,737	1.91	2,717	1.90	2,185	1.53	
2018-19	1,803	1.26	2,425	1.69	2,482	1.73	2,193	1.53	
2019-20	1,634	1.14	2,186	1.53	2,419	1.69	1,967	1.37	

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

<sup>&</sup>lt;sup>b</sup>Florida price=bulk price equivalent. Beginning Nov. 2010, bulk p Metric ton 65° Brix. SOURCE: Processors Statistical Reports, FCM, and U.S. Department of Commerce

<sup>&</sup>lt;sup>d</sup>Based on 1.029 PS per gallon of 11.8° Brix.

History of the U.S. Orange Juice Tariff

		FCOJ		N	-C
Year	¢/SSE gal.	¢/liter	¢/PS	¢/SSE gal.	¢/liter
TARIFF ACT (	OF 1930 .				
1930-1947	70.00		68.03	70.00	
GATT - GENE	VA SWITZ	ERLAND		<b></b>	
1948-1971	35.00		34.01	35.00	
GATT - KENN	EDY ROU	ND		<b></b>	
1972-1988	35.00		34.01	20.00	
1989-1994*	35.02	9.25	34.04	20.07	5.3
GATT - URAG	UAY ROU	ND		<b></b>	
1995	34.15	9.02	33.19	19.69	5.2
1996	33.24	8.78	32.31	18.93	5.0
1997	32.37	8.55	31.46	18.55	4.9
1998	31.50	8.32	30.62	18.17	4.8
1999	30.59	8.08	29.73	17.42	4.6
2000-Present	29.72	7.85	28.89	17.04	4.5

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

## **NOTES**

## **NOTES**

### **Single Strength and Chilled Juice**

Factors to convert cases of single strength or chilled juice to equivalent cases of 24 No. 2's.

Cans per case	Contain	er Size	Equivalent Cases of 24/2's	Cans per case	Container Size	Equivalent Cases of 24/2's
24	4 - 0	unces	.222	1	1 - gallon	.296
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° Brix Equivalent Conversion Factors -- Bulk for Manufacturing

Brix	Factor	Brix	Factor
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
<b>52°</b>	" 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.

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

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

Citrus Box Weights: Approximate Net Weight In Pounds by Fruit Type & States					
State	Oranges	Grapefruit	Tangerines	Lemons	Limes
		pounds	per 1-3/5 bu	shel box	
FL	90 <sup>a</sup>	85	95	90	88
CA	80 <sup>b</sup>	80°	80 <sup>d</sup>	80 <sup>e</sup>	
TX	85	80			
AZ	b	c	<b>80</b> <sup>d</sup>	80 <sup>e</sup>	

alncludes i	Temples &	tangelos at	90 pounds.
IIICIUUES	i ellipies o	i lanuelos ai	. 90 bourius.

<sup>&</sup>lt;sup>b</sup>AZ was 75 lbs. prior to 2010-11. CA was 75 lbs. prior to 2010-11.

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	ОСТ	24, 2005	
JAN 12 - 13	1981	Irma	SEP	10, 2017	
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 " "						

 $<sup>^{\</sup>rm c}$  AZ was 67 lbs. from 1993-94 to 2008-09 and 64 lbs. prior to 1993-94. CA was 67 lbs. from 1993-94 to 2009-10 and 65 lbs. prior to 1993-94.

 $<sup>^{\</sup>rm d}$ AZ was 75 lbs. prior to 2010-11. CA was 75 lbs. prior to 2010-11.

<sup>&</sup>lt;sup>e</sup>AZ was 76 lbs. prior to 2010-11. CA was 76 lbs. prior to 2010-11.

#### **Basic Metric Conversions**

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

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

One (1) 55-gallon drum 65° Brix

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

#### **Commonly Used Brix Equivalents**

Degrees	Degrees PS Per Brix Gallon	Weight/Gallon in Air at 20°C	Equivalent Gallons		
Brix		(pounds)	11.8° Brix	42° Brix	65° Brix
10.0	0.865	8.655	0.84062	0.20813	0.12123
11.8	1.029	8.717	1.00000	0.24759	0.14422
40.0	3.924	9.809	3.81341	0.94418	0.54996
42.0	4.156	9.896	4.03887	1.00000	0.58248
43.4	4.321	9.957	4.19922	1.03970	0.60561
45.0	4.512	10.027	4.38484	1.08566	0.63238
50.0	5.126	10.253	4.98154	1.23340	0.71843
58.0	6.165	10.630	5.99125	1.48340	0.86405
65.0	7.135	10.977	6.93920	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

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

Continued . . .

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

	various Degrees Drix (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 g	jallons
One (1) metric ton 58° Brix	=	1,242.5	**	**
One (1) kiloliter 65° Brix	=	1,831.2	••	"
One (1) kiloliter 58° Brix	=	1,582.3	••	"
4/5-bushel carton oranges	=	3.0 <sup>a</sup>	••	"
4/5-bushel carton grapefruit	=	2.4 <sup>b</sup>	"	"

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

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

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

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

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

## **NOTES**

## **New York FCOJ Monthly Average Nearby Futures Settlement Price**

Month	2013	2014	2015	2016	2017	2018	2019	2020	2021
	cents per pound solid								
JAN	113.23	142.38	143.30	130.33	177.29	142.58	120.28	96.83	119.59
FEB	125.22	145.74	133.12	131.47	170.63	146.99	118.65	97.72	110.50
MAR	134.00	152.77	119.72	128.14	175.71	138.70	121.77	107.02	
APR	143.90	160.10	115.72	134.94	160.57	143.36	108.44	110.01	
MAY	146.74	157.96	115.06	144.57	144.05	166.32	98.71	122.14	
JUN	143.78	158.62	119.08	165.50	136.62	159.18	102.73	122.79	
JUL	140.65	148.03	121.01	183.53	131.32	167.61	101.28	124.50	
AUG	136.35	145.22	129.36	181.34	135.54	159.39	99.33	116.56	
SEP	131.93	145.70	119.46	198.53	149.69	151.97	100.62	114.77	
ОСТ	123.12	138.41	124.90	201.27	155.37	141.70	98.44	115.30	
NOV	134.78	135.71	145.28	217.25	162.50	137.96	98.24	122.38	
DEC	139.92	145.43	145.32	203.60	146.22	135.82	97.59	120.55	

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

Florida FCOJ Movement by Product Type

LIOI	ida FCOJ i	wovement	by Produ	ct Type
Oct-Sep Season	Retail	Institutional	Bulk	Total <sup>a</sup>
		million gallo	ons 42° Brix	
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 t	239.7 b
2000-01	34.7	27.1	164.2	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	18.6	102.6	135.9
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	7.5	16.8	100.0	124.3
2012-13	6.8	16.7	84.9	108.4
2013-14	5.0	15.9	76.3	97.3
2014-15	4.6	16.2	66.9	87.7
2015-16	4.1	15.4	68.6	88.1
2016-17	3.5	13.6	70.3	87.4
2017-18	2.6	13.3	57.1	73.0
2018-19	2.7	13.1	60.5	76.3
2019-20	2.4	11.0	62.5	76.0

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

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

Florida FCOJ Inventories, Pack and Movement

Oct-Sep	Beginning		ck	Movement <sup>a</sup>	Ending	
Season	Inventory	From Fruit	Other		Inventory <sup>b</sup>	
4004.05	00.44		llion gallons 42° E		04.44	
1994-95	86.14	216.50	59.75	280.95	81.44	
1995-96	81.44	202.35	73.61	286.93	70.48	
1996-97	70.48	241.80	69.65	278.87	105.45 <sup>c</sup>	
1997-98	105.45 <sup>c</sup>	253.73	47.18	271.40	134.97	
1998-99	134.97	158.88	58.02	247.64	105.20 <sup>d</sup>	
1999-00	105.20 <sup>d</sup>	207.71	46.32	246.57	112.65 <sup>d</sup>	
2000-01	112.65 <sup>d</sup>	196.06	49.15	229.59	128.27	
2001-02	128.27	215.06	44.59 <sup>d</sup>	261.26	126.66 <sup>d</sup>	
2002-03	126.66 <sup>d</sup>	156.84	47.35 <sup>d</sup>	206.85	124.03	
2003-04	124.03	218.30	32.18	222.26	151.83	
2004-05	151.83	86.00	45.38	175.15	107.78	
2005-06	107.78	84.60	35.83	160.80	67.17	
2006-07	67.17	79.05	55.10	149.20	52.14	
2007-08	52.14	135.20	58.45	137.74	108.05	
2008-09	108.05	120.80	33.24	146.16	116.56	
2009-10	116.56	82.25	26.41	130.23	94.99	
2010-11	94.99	82.11	23.00	148.47	51.63	
2011-12	51.63	106.43	27.34	124.25	61.15	
2012-13	61.15	76.13	48.03	108.44	76.87	
2013-14	76.87	35.65	50.71	97.28	65.96	
2014-15	65.96	28.88	62.48	87.72	69.60	
2015-16	69.60	22.27	48.97	88.14	52.70	
2016-17	52.70	17.92	62.98	87.35	46.25	
2017-18	46.25	9.89	75.53	73.02	58.64	
2018-19	58.50 d	21.00	73.24	76.28	76.46	
2019-20	76.46	19.73	40.80	74.52	62.48	

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

SOURCE: Processors' Statistics Reports

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

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

Florida COJ Inventories, Pack and Movement

	Oct Con Reginning		ick	iid iiio voii	Ending	
Oct-Sep Season	Beginning Inventory <sup>b</sup>	From Fruit	From Concentrate	Movement	Inventory <sup>ab</sup>	
		m	nillion SSE gallons			
1994-95	89.00	326.66	126.89	463.99	78.88	
1995-96	78.88	384.12	116.30	472.60	108.27	
1996-97	108.27	400.28	86.35	477.41	119.06	
1997-98	119.06	452.07	96.08	583.61	83.69	
1998-99	83.69	505.51	85.10	588.06	86.69	
1999-00	86.69	558.82	86.71	577.87	163.42	
2000-01	163.42	543.28	72.90	635.17	152.32	
2001-02	152.32	531.27	58.80	602.61	154.36	
2002-03	154.36	561.69	53.36	603.15	179.68	
2003-04	179.68	559.08	39.49	615.81	181.54 <sup>c</sup>	
2004-05	181.54 <sup>c</sup>	553.27	17.34	601.39	167.47	
2005-06	167.47	575.06	20.07	610.30	174.98	
2006-07	174.98	487.81	17.72	560.95	152.49	
2007-08	152.49	552.26	16.43	542.62	187.76	
2008-09	187.76	536.82	15.62	558.62	202.18	
2009-10	202.18	465.07	16.39	536.73	164.80	
2010-11	164.80	522.35	19.90	541.35	182.71	
2011-12	182.71	489.85	19.04	509.89	186.59	
2012-13	186.59	504.84	24.63	517.07	213.10	
2013-14	213.10	470.63	11.23	493.73	207.56	
2014-15	207.56	423.91	15.83	444.17	221.37	
2015-16	221.97 <sup>d</sup>	350.81	13.49	415.43	197.04	
2016-17	197.04	311.74	9.64	386.67	181.49	
2017-18	181.49	194.56	9.52	355.06	121.05	
2018-19	121.03	309.44	19.96	337.68	203.09	
2019-20	203.09	284.57	22.22	378.22	145.45	

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

SOURCE: Processors' Statistics Reports

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

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

<sup>&</sup>lt;sup>d</sup>New reporting facilities added increased carryover from previous season ending inventory.

Florida FCGJ Inventories, Pack and Movement

			Move	ment	Ending
Oct-Sep Season	Beginning Inventory	Pack <sup>a</sup>	Retail and Institutional	Bulk	Inventory <sup>b</sup>
		m	illion gallons 40° Bı	ʻix	
1994-95	13.77	31.48	1.55	26.39	17.31
1995-96	17.31	27.42	1.45	25.92	17.36
1996-97	17.36	30.94	1.42	25.72	21.15
1997-98	21.46 <sup>d</sup>	24.61	1.32	27.10	17.64
1998-99	17.64	24.77	1.37	30.88	10.17
1999-00	10.10 <sup>c</sup>	30.05	.97	23.57	15.60
2000-01	13.47 <sup>c</sup>	27.50	.81	24.74	15.42
2001-02	15.42	27.55	.70	23.92	18.36
2002-03	18.68 <sup>c</sup>	20.41	.68	22.75	15.65
2003-04	15.65	21.11	.60	22.92	13.25
2004-05	13.25	4.85	.39	12.37	5.35
2005-06	5.35	10.25	.38	8.10	7.12
2006-07	7.12	16.27	.26	12.37	10.76
2007-08	10.76	14.61	.23	14.66	10.46
2008-09	10.46	11.42	.21	12.91	8.85
2009-10	8.85	7.72	.17	9.45	6.95
2010-11	6.95	8.99	.14	11.13	4.69
2011-12	4.69	9.37	.12	8.30	5.63
2012-13	5.63	8.15	.10	8.41	5.27
2013-14	5.27	6.07	.09	6.44	4.81
2014-15	4.81	5.30	.04	5.85	4.10
2015-16	4.10	4.05	.02	4.48	3.65
2016-17	3.65	2.85	.03	4.03	2.44
2017-18	2.44	1.86	.03	2.94	1.33
2018-19	1.33	1.67	.04	1.21	1.75
2019-20	1.75	.94	.03	.75	1.87

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

SOURCE: Processors' Statistics Reports

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

Florida CGJ Inventories, Pack and Movement

	Oct See   Parissian   Pack			ila Movelli		
Oct-Sep Season <sup>b</sup>	Beginning Inventory	From Fruit	From Concentrate	Movement	Ending Inventory <sup>a</sup>	
4000.00			million SSE gallons			
1992-93	NA	23.09	38.10 b	37.66	NA	
1993-94	6.77	29.31	16.93	42.99	10.02	
1994-95	10.02	29.31	17.56	44.66	12.25	
1995-96	12.25	31.90	12.02	45.29	10.93	
1996-97	10.93	37.21	13.60	46.90	14.84	
1997-98	14.84	36.30	14.75	53.04	12.89	
1998-99	12.89	39.38	15.50	56.39	11.38	
1999-00	11.38	51.78	6.27	47.53	21.91	
2000-01	21.91	32.88	3.93	45.75	14.86	
2001-02	14.86	33.61	3.81	39.00	13.44	
2002-03	13.44	32.43	2.52	39.62	11.74	
2003-04	11.74	34.28	0.03	34.45	12.03 <sup>c</sup>	
2004-05	12.03 <sup>c</sup>	16.01	0.03	19.50	11.73	
2005-06	11.73	21.96	0.01	20.67	12.51	
2006-07	12.51	26.60		23.56	13.84	
2007-08	13.84	30.99		25.09	17.43	
2008-09	17.43	21.87	0.01	29.20	10.27	
2009-10	10.27	27.54		23.27	14.26	
2010-11	14.26	23.85	0.02	24.41	14.34	
2011-12	14.34	22.92	0.77	22.71	14.02	
2012-13	14.02	23.73	1.44	22.23	12.94	
2013-14	12.94	22.30		19.41	14.09	
2014-15	14.09	17.17		19.49	11.01	
2015-16	11.07 <sup>d</sup>	16.19	0.01	17.86	11.16	
2016-17	11.16	12.91	0.02	16.43	9.90	
2017-18	9.90	7.38	0.01	14.31	7.87	
2018-19	7.95 <sup>d</sup>	10.09	0.24	12.66	9.86	
2019-20	9.86	12.22	0.31	12.07	10.99	

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

SOURCE: Processors' Statistics Reports

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

<sup>&</sup>lt;sup>c</sup>Adjusted to "standard" 10.0° Brix gallons.

<sup>&</sup>lt;sup>d</sup>New reporting facilities added increased carryover from previous season ending inventory.

Florida Orange On-Tree Earnings Per Box

Season		lidseason		encia	Total	
	Fresh	Proc.	Fresh	Proc.	Fresh	Proc.
			dollars pe	r 90-lb. box		
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	10.10	5.71	9.85	7.95	10.01	6.82
2010-11	10.05	6.93	10.20	9.70	10.10	8.34
2011-12	10.35	8.80	10.55	11.00	10.42	9.90
2012-13	11.85	5.92	9.25	8.60	10.86	7.27
2013-14	13.25	8.10	14.15	10.75	13.62	9.41
2014-15	15.45	7.95	13.00	10.20	14.39	9.11
2015-16	17.25	8.45	12.45	10.55	15.14	9.63
2016-17	15.30	10.25	17.65	12.85	17.78	11.56
2017-18	19.60	9.75	19.55	13.55	19.57	11.97
2018-19	15.31	9.57	13.45	12.50	14.49	11.29
2019-20 <sup>a</sup>	10.15	8.45	10.45	10.80	10.31	9.77

<sup>a</sup>Preliminary. SOURCE: NASS

Florida Grapefruit On-Tree Earnings Per Box

		ite		/Pink	gs Per I	
Season	Fresh	Proc.	Fresh	Proc.	Fresh	Proc.
			dollars pe			
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	13.95	2.96	12.60	2.93	12.82	2.94
2010-11	13.20	3.34	10.55	3.73	10.99	3.58
2011-12	12.05	4.56	10.40	4.72	10.64	4.66
2012-13	12.35	3.78	10.80	2.74	11.00	3.16
2013-14	15.15	4.05	11.80	2.85	12.20	3.30
2014-15	12.55	3.89	11.95	3.23	12.02	3.47
2015-16	17.40	5.64	14.50	5.50	14.84	5.55
2016-17	15.95	6.31	15.95	6.70	16.29	6.60
2017-18	25.60	9.15	23.75	8.70	23.95	8.81
2018-19	26.70	9.60	20.75	9.45	21.43	9.48
2019-20 <sup>a</sup>	10.40	7.00	15.35	6.11	14.90	6.31

<sup>a</sup>Preliminary. SOURCE: NASS

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

Total On-Tree Lamings of the Florida Offices industry							
Season	Oranges	Temples/ Royal Tan.	Grapefruit	Tangerines	Tangelos	Other	Total
			tl	housand dollar	s		
2001-02	797,602	3,395	107,653	51,554	5,307	1,264	966,775
2002-03	643,804	2,615	94,518	46,217	6,114	2,061	795,329
2003-04	699,927	1,502	136,295	48,464	7,484	-	893,672
2004-05	522,892	1,615	172,365	53,503	3,794	-	754,169
2005-06	813,322	2,214	149,655	51,907	7,512	-	1,024,610
2006-07	1,325,742	а	120,280	58,152	10,298	-	1,514,472
2007-08	1,125,348	а	117,507	36,830	4,309	-	1,283,994
2008-09	937,069	а	82,696	24,986	1,984	-	1,046,735
2009-10	929,915	а	152,156	45,134	3,902	-	1,131,107
2010-11	1,181,898	а	132,747	47,558	6,423	-	1,368,626
2011-12	1,455,717	а	135,229	38,554	11,101	-	1,640,601
2012-13	992,526	а	118,658	43,370	10,209	-	1,164,763
2013-14	1,008,622	а	111,154	46,308	9,839	-	1,175,923
2014-15	909,387	а	93,548	39,857	6,951	-	1,049,743
2015-16	808,765	а	105,884	25,883	7,010	-	947,542
2016-17	813,512	1,534	85,508	21,470	5,334	-	926,934
2017-18	560,039	860	60,583	13,121	2,175	-	636,747
2018-19	819,783	1,306	65,724	13,520	2,032	-	902,365
2019-20 <sup>a</sup>	659,126	468	48,944	17,383	2,783	-	728,704

<sup>&</sup>lt;sup>a</sup>Temples included with oranges

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

Season/Item <sup>b</sup>	To Midseason Break	After Midseason	Combined Early/Midseason and
		Break	Valencia
2008-09	<del>-</del>		-
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
2009-10 <sup>d</sup>			
Priced Boxes	15,051,846	13,149,967	28,201,813
\$/PS Average	1.335339	1.620300	1.474935
\$/Box Average	8.033363	10.714785	9.283659
2010-11 <sup>d</sup>	0.00000	10.114100	0.20000
Priced Boxes	19,402,884	16,433,930	35,836,814
\$/PS Average	1.540521	1.849534	1.690325
_			
\$/Box Average	9.192988	12.261151	10.599977
2011-12 <sup>d</sup>			
Priced Boxes	21,135,709	17,534,709	38,670,418
\$/PS Average	1.768390	2.042142	1.898821
\$/Box Average	11.101336	14.062827	12.444194
2012-13 <sup>d</sup>			
Priced Boxes	11,793,325	8,175,236	19,684,951
\$/PS Average	1.362686	1.666304	1.495231
\$/Box Average	8.100968	11.012758	9.288143
2013-14 <sup>d</sup>	4 474 400	2 702 050	0.005.507
Priced Boxes	4,471,122	3,792,059	8,225,527
\$/PS Average	1.711115 10.202280	2.376897 15.439524	2.033652 12.611879
\$/Box Average 2014-15 <sup>d</sup>	10.202200	15.439524	12.011079
Priced Boxes	4,708,853	3,397,105	8,105,958
\$/PS Average	1.935445	2.161759	2.036065
\$/Box Average	11.046950	13.943537	12.260873
2015-16 <sup>d</sup>		10.0 10001	
Priced Boxes	1,727,623	2,841,332	4,568,955
\$/PS Average	1.888284	2.289316	2.148065
\$/Box Average	10.467793	14.191818	12.783681
2016-17 <sup>d</sup>			
Priced Boxes	4,118,559	5,389,711	9,508,270
\$/PS Average	2.405466	2.738309	2.603083
\$/Box Average	13.472594	17.126843	15.543985
2017-18 <sup>d</sup>			
Priced Boxes	1,461,307	2,426,727	3,888,034
\$/PS Average	2.590306	2.837280	2.753625
\$/Box Average	13.545848	17.443098	15.978327
<u>2018-19</u> <sup>d</sup>			
Priced Boxes	1,716,578	2,196,430	3,913,008
\$/PS Average	2.197110	2.384697	2.309564
\$/Box Average	11.589434	14.714269	13.343451
2019-20 <sup>d</sup>	2 706 700	2 272 554	7 450 242
Priced Boxes	3,786,789 .970112	3,372,554	7,159,343
\$/PS Average \$/Box Average	.970112 5.180893	1.246779 7.412056	1.107849 6.231927
2020-21 <sup>d</sup>	J. 100033	7.412000	0.231321
Priced Boxes	705,283		
\$/PS Average	1.697144		
\$/Box Average	8.608161		

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

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

<sup>c</sup>Excludes chilled orange juice production.

<sup>d</sup>In order to accurately report the total boxes and prices reported during the season, boxes that are reported in the month prior to the official start of the season are included in the following season.

SOURCE: Processors' Statistics Reports

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

Season/Item	White	Red/Pink	Combined
2008-09		<u> </u>	
Priced Boxes	2,376,880	3,158,131	5,535,011
\$/PS Average	.585195	.648937	.622628
\$/Box Average	2.682537	3.185626	2.969586
2009-10 <sup>a</sup>		******	
Priced Boxes	2,117,531	1,603,361	3,720,892
\$/PS Average	1.161781	1.118270	1.142544
\$/Box Average	5.515225	5.556240	5.532898
2010-11 <sup>a</sup>	0.010220	0.000240	0.002000
Priced Boxes	2,366,765	2,366,978	4,733,743
\$/PS Average	1.240731	1.299146	1.271174
\$/Box Average	5.786112	6.593248	6.189698
=	5.700112	0.393240	0.103030
2011-12 <sup>a</sup>	0 500 660	0.454.004	4.055.000
Priced Boxes	2,503,669	2,451,624	4,955,293
\$/PS Average	1.506843	1.538184	1.522664
\$/Box Average	7.401543	7.865760	7.631214
2012-13 <sup>a</sup>	0.550.400	4 000 407	4 470 000
Priced Boxes	2,550,493 1.398048	1,922,167	4,472,660
\$/PS Average \$/Box Average	6.395456	1.033087 4.873277	1.238451 5.741285
2013-14 <sup>a</sup>	0.333430	4.013211	5.741205
Priced Boxes	1,657,793	1,646,775	3,304,568
\$/PS Average	1.508122	.982265	1.244038
\$/Box Average	6.619484	4.378551	5.502753
2014-15 <sup>a</sup>			
Priced Boxes	1,168,761	949,108	2,117,869
\$/PS Average	1.344332	.974866	1.176437
\$/Box Average	5.881457	4.374624	5.206181
2015-16 <sup>a</sup>			
Priced Boxes	695,095	793,822	1,488,917
\$/PS Average	1.834339	1.889938	1.864454
\$/Box Average	8.206310	8.748605	8.495437
2016-17 <sup>a</sup>			
Priced Boxes	454,158	843,960	1,298,118
\$/PS Average	2.074301	2.388819	2.281848
\$/Box Average	9.112890	10.957269	10.311997
2017-18 <sup>a</sup>	000 007	COO COE	002.002
Priced Boxes	263,267 3.245301	600,635 3.199543	863,902 3.213410
\$/PS Average \$/Box Average	3.245301 13.557871	3.199543 13.473697	3.213410 13.499348
2018-19 <sup>a</sup>	13.337671	13.47 3097	13.433340
Priced Boxes	207,422	779,575	986,997
\$/PS Average	3.153613	3.070717	3.088371
\$/Box Average	13.993448	13.398484	13.523518
2019-20 <sup>a</sup>			
Priced Boxes	185,317	388,641	573,958
\$/PS Average	2.247407	2.074136	2.129059
\$/Box Average	10.268664	9.737418	9.908945

<sup>&</sup>lt;sup>a</sup>In order to accurately report the total boxes and prices reported during the season, boxes that are reported in the month prior to the official start of the season are included in the following season.

SOURCE: Processors' Statistics Reports

## **NOTES**

## **NOTES**

Nielsen Retail OJ Sales, U.S. a,b

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

<sup>&</sup>lt;sup>a</sup>This data series is no longer available. For current data see pages 64-67.

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

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

Oct-Sept		Frozen		Refriç	gerated - N	NFC	Refrig	erated - R	econ	٦	Total OJ <sup>a</sup>	
Season	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>
	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million 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
2000-01	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
2001-02	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
2002-03	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
2003-04	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

Continued on next page . . .

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

Oct-Sept		Frozen		Refri	gerated - N	IFC	Refrig	gerated - Re	econ	-	Γotal OJ <sup>a</sup>	
Season	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>
	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.
2004-05	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
2005-06	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
2006-07	39.2	188.3	4.80	265.9	1,808.1	6.80	174.1	883.8	5.08	482.3	2,905.5	6.02
2007-08	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
2008-09	29.4	138.4	4.70	248.0	1,635.7	6.59	184.7	805.4	4.36	464.6	2,596.7	5.59
2009-10	25.4	125.3	4.94	241.4	1,675.3	6.94	164.9	790.4	4.79	433.5	2,605.1	6.01
2010-11	21.4	110.2	5.14	230.6	1,678.3	7.28	140.7	699.3	4.97	393.4	2,493.7	6.34
2011-12	18.4	93.6	5.08	230.3	1,687.3	7.33	136.9	641.5	4.69	386.3	2,428.1	6.29
2012-13	16.4	83.5	5.10	218.3	1,609.9	7.38	123.4	586.3	4.75	358.6	2,285.5	6.37
2014-15	15.0	77.4	5.17	203.0	1,565.2	7.71	114.1	547.5	4.80	332.6	2,194.8	6.60
2015-16	13.9	70.1	5.04	194.8	1,496.2	7.68	104.1	496.8	4.77	313.1	2,066.2	6.60
2016-17	12.3	63.1	5.14	178.5	1,393.2	7.81	91.6	461.7	5.04	282.6	1,920.3	6.80
2017-18	11.9	60.1	5.07	167.9	1,341.0	7.99	89.1	457.6	5.14	269.1	1,860.8	6.92
2018-19	11.4	58.7	5.15	151.6	1,300.1	8.58	82.5	412.8	5.00	250.2	1,805.3	7.22
2019-20	13.0	69.8	5.38	172.5	1,537.9	8.92	89.4	447.7	5.01	279.7	2,088.8	7.47
2020-21												

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

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

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

Oct-Sept		Frozen		Refri	igerated - N	FC	Refriç	gerated - Re	con		Total OJ	
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price
	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million 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	1,458.0	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	228.4	3.30	370.6	1,954.9	5.27	348.4	1,295.3	3.72	809.7	3,514.9	4.34
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	38.6	175.3	4.54	310.7	2,036.4	6.55	255.9	1,129.9	4.42	608.6	3,365.1	5.53
2010-11	26.0	128.1	4.92	253.5	1,769.6	6.98	172.8	835.8	4.84	454.5	2,750.0	6.05
2011-12	21.9	112.5	5.14	244.3	1,789.2	7.32	147.6	740.1	5.01	414.4	2,647.8	6.39
2012-13	18.9	96.0	5.07	244.9	1,806.0	7.38	142.8	679.0	4.76	407.2	2,586.6	6.35
2013-14	16.7	85.4	5.10	232.9	1,728.6	7.42	128.5	618.0	4.81	378.7	2,437.8	6.44
2014-15	15.2	79.0	5.18	216.5	1,680.7	7.76	118.0	573.5	4.86	350.3	2,338.0	6.67
2015-16	14.1	71.5	5.07	208.0	1,609.0	7.74	106.9	516.6	4.83	329.3	2,200.1	6.68
2016-17	12.5	64.2	5.15	190.2	1,495.6	7.86	94.1	479.7	5.10	297.0	2,041.8	6.87
2017-18	12.0	61.1	5.08	179.1	1,440.2	8.04	91.2	473.6	5.19	282.6	1,976.9	7.00
2018-19	11.6	59.7	5.15	161.3	1,391.2	8.63	84.3	423.3	5.02	262.2	1,912.6	7.29
2019-20	b	b	b	b	b	b	b	b	b	b	b	b

<sup>&</sup>lt;sup>a</sup>Data include supercenter sales through 11/24/01 and Walmart estimates thereafter through 2/20/10.

Nielsen Retail OJ Sales, Expanded All Outlets Combined (xAOC)<sup>a</sup>

	-				•, ===p				• • • • • • • • • • • • • • • • • • • •	(2 22 20 0 )		
Oct-Sept	F	rozen OJ		R	ef NFC OJ		Re	f Recon O	J		Γotal OJ <sup>b</sup>	
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price
	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.
2010-11	37.2	170.6	4.59	326.9	2,237.0	6.84	251.0	1,210.3	4.82	607.8	3,638.4	5.99
2011-12	32.1	152.6	4.75	318.3	2,283.6	7.17	217.4	1,091.5	5.02	568.6	3,534.3	6.22
2012-13	27.5	131.2	4.77	320.9	2,324.7	7.25	213.0	1,021.1	4.79	562.1	3,483.4	6.20
2013-14	23.4	114.5	4.89	310.6	2,257.7	7.27	191.5	932.5	4.87	526.1	3,310.7	6.29
2014-15	21.2	105.3	4.96	291.6	2,221.6	7.62	176.7	876.4	4.96	490.1	3,208.4	6.55
2015-16	20.0	96.5	4.82	282.8	2,137.3	7.56	164.9	810.8	4.92	468.1	3,047.7	6.51
2016-17	18.1	89.2	4.93	265.4	2,035.9	7.67	148.6	765.0	5.15	432.4	2,892.6	6.69
2017-18	16.4	82.0	5.00	249.1	1,965.0	7.89	145.5	754.6	5.19	411.3	2,803.8	6.82
2018-19	15.2	75.6	4.98	227.7	1,909.0	8.39	143.3	655.5	4.58	389.8	2,732.8	7.01
2019-20	18.0	91.8	5.10	259.3	2,234.2	8.62	149.3	726.7	4.87	439.6	3,147.2	7.16

<sup>&</sup>lt;sup>a</sup>Expanded All Outlets Combined (xAOC) data are for U.S. grocery stores doing \$2 million and greater annual sales, drug stores doing \$1 million and greater annual sales, mass merchandisers, Walmart, club (Sam's and BJ's), dollar stores (Dollar General, Family Dollar and Fred's), and military/DECA. Walmart data is point-of sale (POS) data.

\*\*Total includes shelf stable product not listed separately in this table.

Nielsen Retail GJ Sales, Expanded All Outlets Combined (xAOC)<sup>a</sup>

				<u> </u>	<del>, _, _,</del>		41. 0 011.0			(20 10 0)		
Oct-Sept	F	rozen GJ		R	ef NFC GJ		Re	f Recon G	J		Total GJ	
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price
	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.
2010-11	0.5	2.1	4.53	12.7	88.8	6.99	7.1	40.8	5.76	20.3	131.7	6.50
2011-12	0.4	2.0	4.50	11.7	85.4	7.32	6.4	36.9	5.79	18.5	124.3	6.73
2012-13	0.4	1.7	4.46	10.7	81.0	7.55	6.0	35.7	6.00	17.1	118.4	6.94
2013-14	0.3	1.5	4.61	10.1	76.5	7.57	5.1	32.4	6.34	15.5	110.4	7.11
2014-15	0.2	0.9	5.25	9.7	76.1	7.84	1.0	6.1	6.20	14.9	108.8	7.33
2015-16	0.1	0.6	4.21	9.4	73.4	7.81	1.0	6.5	6.52	14.4	7.3	0.51
2016-17	0.1	0.5	4.33	9.2	71.7	7.81	8.0	7.0	8.36	13.9	7.4	0.53
2017-18	0.1	0.0	0.49	8.4	68.6	8.12	8.0	7.4	9.12	13.1	99.7	7.61
2018-19	0.4	1.8	4.74	8.1	71.8	8.86	0.1	1.6	13.78	11.6	95.3	8.19
2019-20	0.5	1.8	3.89	8.6	79.1	9.21	0.2	4.5	18.62	12.3	107.2	8.73

<sup>&</sup>lt;sup>a</sup>Expanded All Outlets Combined (xAOC) data are for U.S. grocery stores doing \$2 million and greater annual sales, drug stores doing \$1 million and greater annual sales, mass merchandisers, Walmart, club (Sam's and BJ's), dollar stores (Dollar General, Family Dollar and Fred's), and military/DECA. Walmart data is point-of sale (POS) data.

## **NOTES**

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

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

<sup>&</sup>lt;sup>a</sup>This data series is no longer available. For current data see pages 67, 70-73.

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

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

Oct-Sept		Frozen			NFC GJ		Recon	and Asep	tic GJ		Total GJ	
Season	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>
	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.
1988-89	8.8	28.8	3.29							59.0	234.9	3.98
1989-90	7.8	27.2	3.49							53.6	225.6	4.21
1990-91	7.3	24.9	3.39							54.2	230.2	4.25
1991-92	6.7	23.0	3.44							50.9	222.3	4.37
1992-93	5.9	19.9	3.36							46.8	207.6	4.44
1993-94	5.4	17.6	3.23							47.7	206.2	4.32
1994-95	5.0	15.5	3.13							45.9	197.1	4.29
1995-96	4.8	14.5	3.05							45.3	196.6	4.34
1996-97	4.5	13.7	3.07							46.6	204.2	4.38
1997-98	4.2	12.9	3.05	20.6	101.8	4.94	28.1	115.7	4.11	53.0	230.4	4.35
1998-99	4.0	12.2	3.07	22.1	120.4	5.46	28.2	119.1	4.22	54.3	251.7	4.64
1999-00	2.6	9.0	3.42	20.7	118.2	5.70	23.3	110.7	4.75	46.6	237.8	5.10
2000-01	2.3	8.2	3.59	19.2	109.2	5.70	19.0	95.0	5.01	40.5	212.5	5.25
2001-02	2.1	7.4	3.45	18.2	101.3	5.56	14.4	71.5	4.96	34.8	180.1	5.18
2002-03	1.6	5.9	3.60	17.1	90.2	5.29	13.2	65.1	4.93	31.9	161.2	5.05
2003-04	1.3	4.5	3.61	15.7	81.0	5.16	11.2	54.9	4.90	28.1	140.4	4.99
2004-05	1.1	3.8	3.57	9.5	62.1	6.54	9.1	52.1	5.69	19.7	117.9	5.99

Continued on next page . . .

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

Oct-Sept		Frozen		Re	of NFC GJ			f Recon G		uai Sale	Total GJ	
Season	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>	Volume	Value	Price <sup>b</sup>
	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.
2005-06	0.6	2.5	4.07	7.9	57.1	7.23	0.8	4.5	5.50	16.0	106.0	6.61
2006-07	0.4	1.9	4.71	8.2	59.3	7.20	0.9	4.2	4.86	15.9	105.5	6.64
2007-08	0.4	1.9	4.85	10.7	75.9	7.12	0.7	3.0	4.59	17.6	117.8	6.70
2008-09	0.3	1.6	4.87	10.6	73.1	6.88	0.7	3.1	4.33	17.4	113.6	6.51
2009-10	0.3	1.3	4.74	10.4	71.4	6.85	0.7	3.2	4.91	16.6	108.5	6.52
2010-11	0.2	1.1	4.84	10.4	73.2	7.01	0.6	3.2	5.44	15.6	104.3	6.68
2011-12	0.2	0.9	5.19	9.7	72.3	7.44	0.6	3.7	5.85	14.3	101.2	7.06
2012-13	0.2	0.8	5.07	8.8	67.4	7.63	1.0	5.9	6.09	13.5	96.5	7.17
2013-14	0.2	0.8	5.12	8.3	63.4	7.65	0.9	5.9	6.26	12.4	90.5	7.31
2014-15	0.2	0.9	5.28	7.9	62.7	7.96	1.0	6.1	6.19	11.9	89.4	7.51
2015-16	0.2	0.8	4.36	7.6	60.3	7.94	1.0	6.3	6.48	11.6	86.1	7.43
2016-17	0.1	0.7	4.59	7.5	59.3	7.92	0.8	7.0	8.29	11.1	84.5	7.61
2016-17	0.1	0.7	4.59	7.5	59.3	7.92	0.8	7.0	8.29	11.1	84.5	7.61
2017-18	0.1	0.4	4.84	6.9	56.9	8.20	0.8	7.4	9.11	10.3	81.1	7.88
2018-19	0.4	1.8	4.74	6.7	60.2	8.97	0.1	1.6	13.78	9.0	77.3	8.57
2019-20	0.5	1.8	3.89	7.3	68.4	9.43	0.2	3.8	17.95	9.8	89.4	9.13

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

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

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

Oct-Sept		Frozen		R	-T-S NF		R-	T-S Rec		Total GJ			
Season	Volume	Value	Price										
	million SSE gals.	mil. \$	\$/gal.										
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	0.9	3.6	4.03	9.5	66.3	6.97	9.4	54.9	5.85	19.8	124.8	6.30	
2007-08	0.9	3.7	4.14	12.6	87.1	6.92	8.3	49.2	5.92	21.8	140.1	6.42	
2008-09	0.8	3.3	4.26	12.4	84.0	6.75	7.9	46.1	5.83	21.1	133.3	6.32	
2009-10	0.5	2.1	4.45	12.8	85.8	6.70	7.2	42.3	5.88	20.5	130.2	6.36	
2010-11	0.2	1.1	4.94	10.8	77.1	7.15	5.0	30.8	6.19	16.0	109.0	6.82	
2011-12	0.2	0.9	5.19	10.1	74.9	7.45	4.4	27.8	6.28	13.5	103.6	7.70	
2012-13	0.2	8.0	5.07	9.3	70.6	7.62	4.5	28.1	6.31	13.9	99.5	7.17	
2013-14	0.2	8.0	5.13	8.6	65.9	7.65	3.9	26.1	6.64	12.7	92.7	7.30	
2014-15	0.2	0.9	5.28	8.2	65.3	7.97	3.8	25.4	6.64	12.2	91.6	7.51	
2015-16	0.2	8.0	4.36	8.0	63.2	7.94	3.7	24.2	6.53	11.9	88.3	7.44	
2016-17	0.1	0.7	4.60	7.7	61.6	7.96	3.5	24.4	7.02	11.4	86.7	7.63	
2017-18	0.1	0.4	4.84	7.2	58.8	8.21	3.3	23.9	7.28	10.5	83.2	7.89	
2018-19	0.4	1.8	4.74	6.9	61.9	8.98	1.9	15.2	7.94	9.2	79.0	8.58	
2019-20	b	b	b	b	b	b	b b	b b	b b	b	b	b	

<sup>&</sup>lt;sup>a</sup>Data include supercenter sales through 3/18/00 and Walmart estimates thereafter through 2/20/10.

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

Oct-Sept	F	R-T-S NFC	;	R-	T-S Reco	n		Total GJ		G	J Cockta	il
Season	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price	Volume	Value	Price
	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.	million SSE gals.	mil. \$	\$/gal.
2000-01	19.2	109.2	5.69	19.0	95.0	5.00	40.5	212.5	5.25	12.4	63.2	5.11
2001-02	18.2	101.3	5.57	14.4	71.5	4.97	34.8	180.1	5.18	10.4	54.2	5.20
2002-03	17.1	90.2	5.27	13.2	65.1	4.93	31.9	161.2	5.05	9.6	50.3	5.26
2003-04	15.7	81.0	5.16	11.2	54.9	4.90	28.1	140.4	5.00	8.5	45.3	5.32
2004-05	9.5	62.1	6.54	9.1	52.1	5.73	19.7	117.9	5.98	7.6	41.5	5.47
2005-06	7.9	57.2	7.24	7.5	46.3	6.17	16.0	106.0	6.63	7.3	41.1	5.65
2006-07	8.2	59.5	7.26	7.2	44.1	6.13	15.9	105.5	6.64	6.8	39.3	5.77
2007-08	10.7	76.1	7.11	6.5	39.9	6.14	17.6	117.8	6.69	6.5	37.9	5.79
2008-09	10.6	72.8	6.86	6.7	39.2	5.85	16.6	108.5	6.52	6.3	36.3	5.75
2009-10	10.5	73.6	7.02	6.0	35.7	5.95	15.6	104.3	6.68	6.2	35.8	5.75
2010-11	9.8	72.8	7.46	4.4	27.5	6.26	14.3	101.2	7.06	6.0	36.6	6.14
2011-12	8.9	67.8	7.64	4.4	27.9	6.31	13.5	96.5	7.17	5.9	37.6	6.36
2013-14	8.3	63.7	7.66	3.9	25.9	6.63	12.4	90.5	7.31	5.6	36.7	6.57
2014-15	7.9	63.2	7.97	3.8	25.2	6.64	11.9	89.4	7.51	5.4	37.1	6.82
2015-16	7.7	61.1	7.94	3.7	24.1	6.53	11.6	86.1	7.43	5.3	37.3	7.04
2016-17	7.5	59.6	7.96	3.5	24.2	7.00	11.1	84.5	7.61	5.2	35.9	6.94
2017-18	7.0	57.0	8.21	3.3	23.6	7.26	10.3	81.1	7.88	4.9	33.3	6.75
2018-19	6.7	60.4	8.98	1.9	15.1	7.93	9.0	77.4	8.58	3.8	26.4	6.88
2019-20	7.3	68.4	9.43	0.2	3.8	17.95	9.8	89.4	9.13	3.9	28.2	7.18

#### **Nielsen Total OJ Market Ranking**

Over \$2MM Grocers - 2018-19 Season

Rank Gal	Mil Gal	Market	Mil \$	Rank \$	Rank Vol	Mil Gal	Market	Mil \$	Rank \$
	283.28	Total US Food	\$ 2,119.00		33	2.81	Cleveland/Akron/Canton	\$ 21.82	31
1	21.12	Rem US South Central	\$ 135.88	2	34	2.79	Columbus OH	\$ 17.79	37
2	20.09	New York	\$ 168.98	1	35	2.72	San Diego	\$ 23.12	30
3	16.68	Los Angeles	\$ 128.41	3	36	2.61	St. Louis	\$ 20.41	34
4	14.83	Rem US East North Central	\$ 99.67	4	37	2.60	Nashville	\$ 17.64	38
5	11.35	Rem US South Atlantic	\$ 82.08	5	38	2.57	Pittsburgh	\$ 19.87	35
6	9.36	Boston/Manchester	\$ 70.77	6	39	2.47	Salt Lake City	\$ 16.55	39
7	9.09	Philadelphia	\$ 68.08	9	40	2.12	Milwaukee	\$ 15.22	40
8	8.87	Chicago	\$ 69.03	8	41	2.03	Las Vegas	\$ 14.77	41
9	8.17	Rem US Mountain	\$ 62.49	10	42	2.01	Norfolk/Portsmouth/Newport News	\$ 13.97	44
10	8.13	Miami/West Palm Beach	\$ 69.96	7	43	1.99	Grand Rapids	\$ 14.67	42
11	6.73	Atlanta	\$ 48.21	14	44	1.96	Providence RI/New Bedford MA	\$ 14.51	43
12	6.65	Rem US West North Central	\$ 42.71	16	45	1.85	Kansas City	\$ 12.41	49
13	6.56	Washington DC/Hagerstown	\$ 52.72	11	46	1.75	Harrisburg/Lancaster	\$ 12.93	46
14	6.34	Tampa/Ft. Myers	\$ 51.27	13	47	1.72	Buffalo	\$ 12.43	48
15	6.22	Houston	\$ 41.18	18	48	1.68	Jacksonville	\$ 13.29	45
16	5.78	Rem US Middle Atlantic	\$ 41.49	17	49	1.65	Albany/Schenectady/Troy	\$ 12.60	47
17	5.78	Rem US Pacific	\$ 46.06	15	50	1.62	Richmond/Petersburg	\$ 11.34	50
18	5.57	Detroit	\$ 39.59	19	51	1.51	Greensboro	\$ 10.57	51
19	5.44	San Francisco/Oakland/San Jose	\$ 52.06	12	52	1.23	Des Moines/Ames	\$ 8.05	53
20	4.95	Phoenix/Prescott	\$ 36.29	21	53	1.23	Albuquerque/Santa FE	\$ 9.27	52
21	4.93	Dallas/Ft. Worth	\$ 35.81	22	54	1.11	Knoxville	\$ 7.69	55
22	4.62	Seattle/Tacoma	\$ 37.74	20	55	1.06	Tucson/Sierra Vista	\$ 7.68	56
23	4.37	Orlando/Daytona Beach/Melbourne	\$ 33.27	23	56	1.00	Birmingham/Anniston/Tuscaloosa	\$ 7.54	57
24	3.94	Rem US New England	\$ 29.69	24	57	0.98	Omaha	\$ 6.32	59
25	3.66	Minneapolis/St. Paul	\$ 28.87	25	58	0.95	New Orleans	\$ 7.84	54
26	3.33	Hartford/New Haven	\$ 26.13	27	59	0.89	Little Rock/Pine Bluff	\$ 5.35	61
27	3.20	Portland OR	\$ 25.72	28	60	0.83	Mobile/Pensacola	\$ 6.72	58
28	3.17	Sacramento/Stockton/Modesto	\$ 27.23	26	61	0.80	Oklahoma City	\$ 5.22	62
29	3.10	Baltimore	\$ 24.16	29	62	0.79	Madison WI	\$ 5.93	60
30	2.89	Charlotte	\$ 21.52	32	63	0.50	Yakima/Pasco/Richland/Kennewick	\$ 3.70	63
31	2.85	Raleigh/Durham/Fayetteville	\$ 20.71	33	64	0.50	Paducah KY/Cape Girardeau MO	\$ 3.11	64
32	2.83	Indianapolis	\$ 18.21	36	65	0.34	Baton Rouge	\$ 2.67	65

#### Nielsen Total GJ Market Ranking

Over \$2MM Grocers - 2018-19 Season

Rank Gal	Mil Gal	Market	Mil \$	Rank \$	Rank Vol	Mil Gal	Market	Mil \$	Rank \$
	10.02	Total US Food	\$ 91.64		33	0.09	Columbus OH	\$ 0.69	39
1	0.88	New York	\$ 9.09	1	34	0.09	Cleveland/Akron/Canton	\$ 0.81	34
2	0.51	Rem US South Central	\$ 3.95	4	35	0.09	Jacksonville	\$ 0.85	33
3	0.49	Los Angeles	\$ 4.95	2	36	0.09	Indianapolis	\$ 0.66	40
4	0.47	Miami/West Palm Beach	\$ 4.61	3	37	0.09	Raleigh/Durham/Fayetteville	\$ 0.78	35
5	0.43	Rem US South Atlantic	\$ 3.71	5	38	0.09	Salt Lake City	\$ 0.75	36
6	0.40	Rem US East North Central	\$ 3.01	10	39	0.09	Pittsburgh	\$ 0.75	37
7	0.38	Rem US Mountain	\$ 3.53	6	40	0.07	St. Louis	\$ 0.71	38
8	0.36	Tampa/Ft. Myers	\$ 3.41	7	41	0.07	Las Vegas	\$ 0.57	42
9	0.35	Boston/Manchester	\$ 3.26	8	42	0.06	Albany/Schenectady/Troy	\$ 0.58	41
10	0.33	Atlanta	\$ 2.81	11	43	0.06	Albuquerque/Santa FE	\$ 0.56	43
11	0.29	Washington DC/Hagerstown	\$ 2.62	12	44	0.06	Norfolk/Portsmouth/Newport News	\$ 0.49	46
12	0.27	San Francisco/Oakland/San Jose	\$ 3.14	9	45	0.06	Milwaukee	\$ 0.50	45
13	0.25	Philadelphia	\$ 2.25	14	46	0.06	Grand Rapids	\$ 0.45	47
14	0.24	Chicago	\$ 2.22	15	47	0.06	Providence RI/New Bedford MA	\$ 0.51	44
15	0.22	Seattle/Tacoma	\$ 2.06	16	48	0.06	Richmond/Petersburg	\$ 0.44	49
16	0.22	Rem US Pacific	\$ 2.33	13	49	0.05	Kansas City	\$ 0.44	48
17	0.20	Orlando/Daytona Beach/Melbourne	\$ 1.88	17	50	0.04	Tucson/Sierra Vista	\$ 0.33	54
18	0.19	Phoenix/Prescott	\$ 1.61	18	51	0.04	Harrisburg/Lancaster	\$ 0.36	51
19	0.18	Detroit	\$ 1.47	20	52	0.04	Birmingham/Anniston/Tuscaloosa	\$ 0.36	52
20	0.16	Houston	\$ 1.24	24	53	0.04	Mobile/Pensacola	\$ 0.36	50
21	0.16	Dallas/Ft. Worth	\$ 1.29	23	54	0.04	Greensboro	\$ 0.32	55
22	0.16	Rem US New England	\$ 1.41	22	55	0.04	Buffalo	\$ 0.35	53
23	0.15	Portland OR	\$ 1.47	19	56	0.03	Knoxville	\$ 0.26	57
24	0.14	Rem US West North Central	\$ 1.16	28	57	0.03	New Orleans	\$ 0.31	56
25	0.13	Rem US Middle Atlantic	\$ 1.23	25	58	0.02	Madison WI	\$ 0.22	58
26	0.13	Minneapolis/St. Paul	\$ 1.43	21	59	0.02	Little Rock/Pine Bluff	\$ 0.18	60
27	0.12	Sacramento/Stockton/Modesto	\$ 1.21	27	60	0.02	Des Moines/Ames	\$ 0.20	59
28	0.12	Hartford/New Haven	\$ 1.11	29	61	0.02	Omaha	\$ 0.17	62
29	0.11	San Diego	\$ 1.23	26	62	0.02	Oklahoma City	\$ 0.18	61
30	0.10	Nashville	\$ 0.85	32	63	0.01	Yakima/Pasco/Richland/Kennewick	\$ 0.10	63
31	0.10	Charlotte	\$ 0.86	31	64	0.01	Paducah KY/Cape Girardeau MO	\$ 0.08	64
32	0.09	Baltimore	\$ 0.86	30	65	0.01	Baton Rouge	\$ 0.07	65

OJ Buyer Demographics Gallons Per Buying Household

	40/00/04	140/07/00	40,000,000	44/04/04	40/00/0-	10/00/00	04/04/00	40/00/44	40/04/45
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	10/30/11- 10/27/12	10/31/15- 10/29/16
					gallons				
<u>AGE</u>									
Under 35	7.51	7.26	7.27	7.07	6.10	5.42	5.61	4.28	4.15
35 to 44	8.69	8.41	8.21	7.44	7.03	6.06	6.21	5.13	4.25
45 to 54	8.78	8.38	8.47	7.61	7.29	6.32	6.21	5.30	4.77
55 to 64	8.93	8.62	8.45	7.76	7.33	6.70	6.49	5.09	4.48
65 and Over	9.84	9.80	9.62	8.95	8.23	7.42	6.91	5.80	5.08
HH SIZE									
1 Member	7.05	7.26	6.88	6.32	6.06	5.31	5.43	4.73	4.05
2 Members	8.88	8.34	8.30	7.66	7.07	6.64	6.27	5.30	4.47
3 to 4 Members	9.10	9.00	8.85	8.23	7.57	6.55	6.68	5.40	4.40
5 or More	10.66	10.58	10.13	9.23	8.52	6.99	7.60	5.62	4.95
INCOME									
Under \$20,000	6.87	7.18	6.94	6.36	5.80	5.09	5.01	4.40	3.68
\$20,000-29,999	7.96	7.77	8.04	7.25	6.45	5.90	5.70	4.82	4.41
\$30,000-39,999	8.83	8.08	8.41	7.94	6.80	6.05	6.14	4.88	4.12
\$40,000-49,999	9.11	8.98	8.31	7.53	7.16	6.11	6.05	4.96	4.20
\$50,000-69,999	9.20	9.21	8.97	8.08	7.44	6.55	6.45	5.25	4.44
\$70,000+	10.15	9.88	9.44	8.93	8.05				
\$70,000-99,999						6.89	6.94	5.56	4.61
\$100,000+						7.25	7.45	6.21	4.83
<u>KIDS</u>									
None Under 18	8.50	8.37	8.14	7.52	6.98	6.29	6.30	5.25	4.44
Under 18	9.22	8.94	8.79	8.08	7.50	6.47	6.54	5.28	4.39

OJ Buyer Demographics Household Penetration (% Buying)

Demographic	10/28/01-	10/27/02-		11/21/04-	10/30/05-	10/29/06-	01/01/09-	10/30/11-	10/31/15
<u> </u>	10/26/02	10/25/03	10/23/04	11/19/05	10/28/06	10/27/07	12/31/09	10/27/12	10/29/16
AGE									
Under 35	83.42	84.25	82.85	79.91	78.99	76.47	76.12	71.59	67.24
35 to 44	83.43	81.62	81.94	80.05	80.13	75.17	75.51	72.80	68.09
45 to 54	81.91	81.36	78.92	76.82	77.48	71.27	71.29	68.06	62.74
55 to 64	80.68	79.66	78.59	76.60	74.63	70.29	68.97	62.53	57.94
65 and Over	81.43	81.08	79.74	79.80	76.20	72.07	69.64	64.28	58.01
HH SIZE									
1 Member	70.46	69.40	67.18	66.04	64.20	59.20	57.54	51.31	46.33
2 Members	81.33	80.79	79.58	77.40	75.80	71.65	70.85	65.35	60.41
3 to 4 Members	84.81	84.80	83.77	82.14	81.81	77.02	77.33	73.01	68.19
5 or More	87.86	86.79	85.48	84.41	82.37	79.06	79.93	75.29	71.78
INCOME									
Under \$20,000	72.45	71.33	70.62	69.20	68.20	61.06	59.77	54.49	48.93
\$20,000-29,999	78.66	75.30	76.54	73.88	70.61	66.34	64.64	60.53	55.67
\$30,000-39,999	78.68	80.04	77.52	77.25	74.66	69.24	68.15	63.39	57.97
\$40,000-49,999	81.50	82.04	80.75	78.30	74.60	71.53	72.58	65.25	61.03
\$50,000-69,999	84.34	84.29	81.57	79.71	77.49	73.41	72.95	69.16	62.87
\$70,000+	85.73	85.95	83.68	82.34	80.19				
\$70,000-99,999						75.38	75.20	69.85	64.62
\$100,000+						77.31	76.39	70.91	65.49
<u>KIDS</u>									
None Under 18	77.85	76.78	75.40	73.67	71.52	67.30	66.21	60.50	55.83
Under 18	85.24	85.45	83.94	82.25	82.17	77.37	78.28	74.51	69.34

GJ Buyer Demographics Gallons Per Buying Household

Damanumhia	10/28/01-	10/27/02-	10/26/03-	11/21/04-	10/30/05-	10/29/06-	01/01/09-	10/30/11-	10/31/15-
Demographic ————————————————————————————————————	10/26/02	10/25/03	10/23/04	11/19/05	10/28/06	10/27/07	12/31/09	10/27/12	10/29/16
405					gallons				
AGE									
Under 35	1.64	1.55	2.11	1.86	1.32	1.35	1.37	1.31	1.09
35 to 44	2.14	2.34	2.01	1.86	1.84	1.90	1.84	1.48	1.41
45 to 54	2.85	2.82	2.52	1.80	2.27	1.72	1.89	2.03	1.68
55 to 64	2.55	2.55	2.38	2.26	2.34	2.04	2.26	2.23	1.82
65 and Over	2.81	2.56	2.56	2.58	2.52	2.39	1.94	1.76	1.89
HH SIZE									
1 Member	2.82	2.35	2.56	2.20	2.31	2.20	2.24	2.13	2.19
2 Members	2.99	2.96	2.77	2.31	2.50	2.17	2.23	2.04	1.92
3 to 4 Members	2.43	2.24	2.29	2.11	1.92	1.85	1.59	1.61	1.42
5 or More	2.15	1.94	1.82	1.51	1.36	1.17	1.62	1.81	1.93
INCOME									
Under \$20,000	2.05	2.06	2.16	1.53	1.60	1.39	1.77	1.57	1.95
\$20,000-29,999	2.86	1.93	2.12	2.12	1.70	1.73	1.82	1.71	1.68
\$30,000-39,999	2.26	2.24	2.53	1.95	1.56	1.52	1.94	2.11	1.57
\$40,000-49,999	2.97	2.25	2.29	1.84	2.44	1.73	1.42	1.94	1.48
\$50,000-69,999	3.21	3.31	2.90	2.72	2.43	2.27	2.03	1.97	1.81
\$70,000+	2.74	2.76	2.66	2.47	2.50				
\$70,000-99,999						2.32	2.64	2.31	1.92
\$100,000+						2.30	1.90	1.82	1.99
KIDS									
None Under 18	3.00	2.69	2.62	2.27	2.38	2.19	2.21	2.08	1.93
Under 18	2.04	2.02	2.13	1.88	1.73	1.54	1.49	1.53	1.60

GJ Buyer Demographics Household Penetration (% Buying)

	1		u Peneu						
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	10/30/11- 10/27/12	10/31/15- 10/29/16
<u>AGE</u>									
Under 35	9.95	11.58	9.41	7.36	6.41	6.78	6.07	4.64	3.88
35 to 44	13.55	12.30	11.33	8.22	8.32	7.78	7.11	5.27	3.79
45 to 54	15.78	13.41	11.79	8.94	8.61	8.72	7.73	6.23	4.43
55 to 64	14.47	12.76	12.45	8.58	8.34	8.75	7.28	6.38	4.05
65 and Over	11.47	10.30	9.56	6.96	6.66	6.13	6.21	6.09	3.74
HH SIZE									
1 Member	11.89	11.32	10.75	7.18	6.16	6.91	6.70	5.64	3.66
2 Members	14.27	12.32	11.45	8.73	8.26	8.46	7.74	6.73	4.56
3 to 4 Members	13.53	12.57	11.17	8.38	7.88	7.49	7.34	5.65	4.22
5 or More	11.71	12.85	10.20	7.66	8.28	8.22	5.87	5.20	3.73
INCOME									
Under \$20,000	11.74	10.51	10.27	7.25	6.54	6.62	6.02	5.46	2.63
\$20,000-29,999	12.15	11.27	9.82	7.22	7.07	6.84	7.25	4.95	3.59
\$30,000-39,999	12.13	11.42	10.03	8.38	7.80	7.46	5.79	5.75	3.37
\$40,000-49,999	13.05	12.29	11.79	8.37	7.40	7.33	7.04	5.70	3.91
\$50,000-69,999	13.86	12.26	12.14	8.25	7.29	7.78	7.42	5.37	4.49
\$70,000+	15.24	15.15	12.34	9.24	8.47				
\$70,000-99,999						8.16	7.83	6.06	4.70
\$100,000+						9.34	8.05	7.74	5.13
KIDS									
None Under 18	13.59	12.28	11.48	8.22	7.50	7.80	7.30	6.17	4.30
Under 18	12.32	12.02	10.18	7.89	7.76	7.61	6.85	5.50	3.73

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

		Bottled	Soft	76 A GL		ted Fruit	_	
Year	Milk	Water <sup>b</sup>	Drinks <sup>b</sup>	OJ	GJ	Apple	Grape	Total <sup>a</sup>
					lons			
1970	31.1	NA	24.3	3.7	.6	.5	.3	5.5
1975	29.4	NA	28.2	4.7	.7	.9	.2	6.7
1980	27.5	2.7	35.1	5.0	.6	1.5	.3	7.4
1985	26.6	5.1	35.7	4.8	.6	1.5	.3	7.8
1990	25.6	8.8	46.2	3.7	.9	1.8	.3	7.0
1995	23.9	11.6	47.4	4.9	.6	1.8	.4	8.1
1996	23.8	12.4	46.6	5.1	.6	1.8	.3	8.7
1997	23.4	13.4	46.8	5.3	.6	1.8	.3	8.5
1998	23.0	14.4	47.9	5.7	.6	1.8	.4	9.2
1999	22.9	16.2	49.7	5.7	.6	1.9	.4	9.0
2000	22.8	16.7	49.3	5.6	.5	2.1	.4	8.9
2001	22.4	18.2	46.7	5.2	.5	1.9	.5	8.5
2002	22.2	20.1	46.6	5.0	.5	2.2	.4	8.4
2003	21.9	21.6	46.5	4.9	.4	2.3	.6	8.5
2004	21.5	23.2		4.9	.4	2.1	.5	8.5
2005	21.4	25.4		4.8	.2	2.1	.4	8.1
2006	21.2	27.6		4.4	.2	2.2	.4	8.0
2007	21.0	29.0		4.1	.3	1.7	.4	7.9
2008	20.7	28.1		3.8	.3	1.9	.3	7.4
2009	20.6	27.2		3.9	.3	1.8	.4	7.4
2010	20.5	27.8	45.5	3.7	.2	1.7	.4	7.2
2011	20.1	28.7	44.6	3.7	.2	1.7	.4	6.8
2012	19.6	30.4	43.8	3.1	.2	1.9	.3	6.2
2013	19.1	31.6	42.1	3.2	.2	1.8	.4	6.4
2014	18.4	33.6	41.4	3.1	.2	1.7	.4	6.1
2015	18.0	35.9	40.6	2.9	.1	1.9	.4	6.0
2016	17.7	38.5	40.1	2.7	.1	1.9	.3	5.9
2017	17.3	40.6	39.3	2.5	.1	1.9	.3	5.5
2018	16.8	42.3	39.1	2.4	.1	1.8	.4	5.4
2019	16.4	43.7	38.6					

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

<sup>&</sup>lt;sup>b</sup>Statista.com

#### **Nutrition Values of Citrus**

	REFERENCE:	JU	ICE		FRESH				
ITEM	DAILY VALUE	ORANGE	GRAPEFRUIT	ORANGES	GRAPEFRUIT	<b>TANGERINES</b>			
SERVING		1 cup/8-oz. 146g/ 120g/ 1 med. fruit 1/2 med. fruit			_	88g/ 1 med. fruit			
			Amount Per Serving (% Daily Value)						
Calories	2000	120	96	67	38	47			
Calories from Fat	NA	0	0	0	0	0			
Total Fat	75 g	0	0	0	0	0			
Saturated Fat	20 g	0	0	0	0	0			
<i>Trans</i> Fat	NA	0	0	0	0	0			
Cholesterol	<300 mg	0	0	0	0	0			
Sodium	<2300 mg	4 (0.2%)	0	0	0	0			
Total Carbohydrates	275 g	28 (10%)	21 (8%)	17 (6%)	9 (3%)	12 (4%)			
Dietary Fiber	>28 g	1 (2%)	1 (4%)	4 (13%)	1 (5%)	2 (7%)			
Total Sugars	NA	21	21	13	8	9			
Protein	50 g	2 (4%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)			
Vitamin C	90 mg	104 (116%)	83 (92%)	66 (73%)	45 (50%)	24 (27%)			
Thiamin	1.2 mg	0.2 (17%)	0.1 (9%)	0.2 (13%)	0.1 (4%)	0.1 (4%)			
Folate	400 mcg DFE	61 (15%)	29 (7%)	25 (6%)	11 (3%)	14 (4%)			
Potassium	4700 mg	470 (10%)	374 (8%)	247 (5%)	167 (4%)	146 (3%)			
Magnesium	420 mg	27 (6%)	27 (6%)	15 (4%)	11 (3%)	11 (3%)			
Vitamin A	900 mcg	15 (2%)	47 (5%)	17 (2%)	16 (2%)a	30 (3%)			
Calcium	1300 mg	27 (2%)	28 (2%)	63 (5%)	18 (1%)	33 (3%)			

SOURCE: 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); FDOC Scientific Research (06/24/2020).

<sup>a</sup>Red/Pink Varieties

U.S. Grade A Frozen Concentrated Juice Standards

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

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

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

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

NOTE 1: Until December 1 of each year, all oranges for processing must meet fresh fruit requirements unless otherwise noted. From December 1 through 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.

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

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

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

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

e11.00 and higher solids, minimum 9.00 to 1 ratio. Juice requirements 41/2 gallons per box, minimum acid 0.40.

#### Florida Grapefruit Standards

Min	Minimum Total Solids (%)		Solids to	Acid Mir Ratio	nimum	Mini	imum Total Solids	s (%)	Solids to Acid Minimum Ratio		
<sup>a</sup> 6.5											
<sup>b</sup> 7.0	<b></b>		<b>-</b> 7.00	to	1	10.4	to (not incl)	10.5	6.40	to	1
° 7.5			7.50	to	<b>1</b> °	10.5	••	10.6	6.375	to	1
d 8.0			8.00	to	<b>1</b> f	10.6	**	10.7	6.35	to	1
8.1	to (not incl)	9.1	7.00	to	1	10.7	**	10.8	6.325	to	1
9.1	••	9.2	6.95	to	1	10.8	••	10.9	6.30	to	1
9.2	***	9.3	6.90	to	1	10.9	**	11.0	6.275	to	1
9.3	**	9.4	6.85	to	1	11.0	***	11.1	6.25	to	1
9.4	**	9.5	6.80	to	1	11.1	**	11.2	6.225	to	1
9.5	**	9.6	6.75	to	1	11.2	**	11.3	6.20	to	1
9.6	"	9.7	6.70	to	1	11.3	**	11.4	6.175	to	1
9.7	**	9.8	6.65	to	1	11.4	**	11.5	6.15	to	1
9.8	"	9.9	6.60	to	1	11.5	**	11.6	6.125	to	1
9.9	"	10.0	6.55	to	1	11.6	**	11.7	6.10	to	1
10.0		10.1	6.50	to	<b>1</b> <sup>g</sup>	11.7	••	11.8	6.075	to	1
10.1		10.2	6.475	to	1	11.8	••	11.9	6.05	to	1
10.2		10.3	6.45	to	1	11.9	••	12.0	6.025	to	1
10.3	••	10.4	6.425	to	1	12.0	and above		6.00	to	<b>1</b> h

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

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

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

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

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

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

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

<sup>&</sup>lt;sup>h</sup>Minimum 6.00 ratio for all grapefruit, April 15 through 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 through 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.

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

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

	Mini	imum Total Solids	s (%)		ids to Ac mum Ra	
b	8.75	to (not incl)	9.1	8.75	to	1
	9.10	"	9.2	8.65	to	1
	9.20	"	9.3	8.55	to	1
	9.30	"	9.4	8.45	to	1
	9.40	"	9.5	8.35	to	1
	9.50	"	9.6	8.25	to	1
	9.60	"	9.7	8.15	to	1
	9.70	"	9.8	8.05	to	1
	9.80	"	9.9	7.95	to	1
	9.90	"	10.0	7.85	to	1
	10.00	"	10.1	7.75	to	1
	10.10	"	10.2	7.65	to	1
	10.20	"	10.3	7.55	to	1
	10.30	"	10.4	7.45	to	1
	10.40	"	10.5	7.35	to	1
	10.50	and above		7.25	to	1

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

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

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

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

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

	Mir	nimum Total Solids	Solids to Acid Minimum Ratio				
b	9.0	to (not incl)	9.1	9.0	to	1	
	9.1	**	9.2	8.9	to	1	
	9.2	"	9.3	8.8	to	1	
	9.3	"	9.4	8.7	to	1	
	9.4	"	9.5	8.6	to	1	
	9.5	"	9.6	8.5	to	1	
	9.6	"	9.7	8.4	to	1	
	9.7	"	9.8	8.3	to	1	
	9.8	"	9.9	8.2	to	1	
	9.9	"	10.0	8.1	to	1	
	10.0	"	10.1	8.0	to	1	
	10.1	"	10.2	7.9	to	1	
	10.2	"	10.3	7.8	to	1	
	10.3	"	10.4	7.7	to	1	
	10.4	"	10.5	7.6	to	1	
	10.5	and above		7.5	to	1	

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

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

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

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

Florida Tangelo Standards<sup>a</sup>

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	**	8.2	10.45	to	1	10.2	••	10.3	9.40	to	1
	8.2	**	8.3	10.40	to	1	10.3	**	10.4	9.35	to	1
	8.3	"	8.4	10.35	to	1	10.4	**	10.5	9.30	to	1
	8.4	**	8.5	10.30	to	1	10.5	**	10.6	9.25	to	1
С	8.5	**	8.6	10.25	to	1	10.6	**	10.7	9.20	to	1
	8.6	**	8.7	10.20	to	1	10.7	**	10.8	9.15	to	1
	8.7	**	8.8	10.15	to	1	10.8	**	10.9	9.10	to	1
	8.8	**	8.9	10.10	to	1	10.9	**	11.0	9.05	to	1
	8.9	**	9.0	10.05	to	1	11.0	**	11.1	9.00	to	1
d	9.0	**	9.1	10.00	to	1	11.1	**	11.2	8.95	to	1
	9.1	**	9.2	9.95	to	1	11.2	••	11.3	8.90	to	1
	9.2	**	9.3	9.90	to	1	11.3	••	11.4	8.85	to	1
	9.3	**	9.4	9.85	to	1	11.4	••	11.5	8.80	to	1
	9.4	**	9.5	9.80	to	1	11.5	••	11.6	8.75	to	1
е	9.5	**	9.6	9.75	to	1	11.6	••	11.7	8.70	to	1
	9.6	**	9.7	9.70	to	1	11.7	••	11.8	8.65	to	1
	9.7	**	9.8	9.65	to	1	11.8	**	11.9	8.60	to	1
	9.8	**	9.9	9.60	to	1	f 11.9	and above		8.55	to	1
	9.9	**	10.0	9.55	to	1	g See E	Below		8.00	to	1
	10.0	**	10.1	9.50	to	1						

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

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

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

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

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

<sup>&</sup>lt;sup>e</sup>Minimum solids for fresh August 1 through October 31.

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

<sup>&</sup>lt;sup>9</sup>Flat 8 to 1 ratio for fresh Feb. 1 through July 31, with NO minimum solids. Flat 8 to 1 ratio for processing Dec. 1 through 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 through July 31, no juice content, minimum acid or color break requirements for processed fruit. Apply minimum solids and ratio requirements as indicated in table.

#### **Glossary of Acronyms**

**CAC: Citrus Administrative Committee** 

**CACEX: Carteira de Comercio Exterior** 

**CGJ: Chilled Grapefruit Juice** 

**COJ: Chilled Orange Juice** 

**CPI: Consumer Price Index** 

**CSSGJ: Canned Single-Strength Grapefruit Juice** 

**CSSOJ: Canned Single-Strength Orange Juice** 

**DECEX: Departamento de Comercio Exterior** 

**EMRD: Economic and Market Research Department** 

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

**FAS: Foreign Agricultural Service** 

**FASS: Florida Agricultural Statistics Service** 

FCBJ: Frozen Concentrated Blended Juice

FCGJ: Frozen Concentrated Grapefruit Juice

**FCM: Florida Citrus Mutual** 

FCOJ: Frozen Concentrated Orange Juice

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

**FCTJ: Frozen Concentrated Tangerine Juice** 

FDACS: Florida Department of Agriculture and Consumer Services

**FDOC: Florida Department of Citrus** 

FOB: Free on Board

FRED: Food and Resource Economics Department

GJ: Grapefruit Juice

ICE: Intercontinental Exchange

IFAS: Institute of Food and Agricultural Sciences

MT: Metric Ton

**NA: Not Available** 

**NASS: National Agricultural Statistics Service** 

**NFC: Not From Concentrate** 

**NSPF: Not Specifically Provided For** 

OJ: Orange Juice

**PS: Pounds Solids** 

RTS: Ready to Serve

SSE: Single Strength Equivalent

**UF: University of Florida** 

**USDA: United States Department of Agriculture** 

## **NOTES**