United States Department of Agriculture
National Agricultural Statistics Service

CITRUS

2015-2016 CITRUS SUMMARY
PRODUCTION, PRICE AND VALUE
PRODUCTION BY COUNTY AND PER TREE

Cooperating with the Florida Department of Agriculture and Consumer Services
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All Citrus Production Down 16 Percent, Value Down 21 Percent

The $8.25 million preliminary on-tree value of the 2015-2016 citrus crop is 21 percent less than the $1.05 billion revised value for 2014-2015 crop and is the lowest since the 2004-2005 hurricane affected season. Florida accounted for 49 percent of the total U.S. citrus production in 2015-2016 with 94.2 million boxes, down 16 percent from the previous season's 112.8 million boxes.

Production decreased for all citrus varieties when compared to last season. All orange production decreased by 16 percent to 81.6 million boxes. Non-Valencia production is 36.1 million boxes, down 24 percent from the 2014-2015 season. Valencia orange production at 45.5 million boxes is down 8 percent. All grapefruit production decreased 16 percent to 10.8 million boxes. Production of tangerines is down 38 percent, and tangelo production is down 41 percent.

The 2015-2016 on-tree price per box is lower for oranges and Honey tangerines, but higher for the grapefruit, tangelos and early tangerines. Only grapefruit and tangelos have a higher value of production than last season. Prices in this report are preliminary for 2015-2016, but revised prices are shown for 2014-2015.

Citrus Production, Utilization, Price, and Value, by Variety – Florida: Crop Years 2014-2015 and 2015-2016

Variety	Production	Crop utilization		On-tree	
		Fresh use	Processing	Price per box	Value of production
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(dollars)	(1,000 dollars)
Non-Valencia Oranges					
2014-2015	47,400	2,815	44,585	8.40	397,943
2015-2016	36,100	2,199	33,901	7.61	274,644
Valencia Oranges					
2014-2015	49,550	2,155	47,395	10.32	511,444
2015-2016	45,500	1,720	43,780	8.96	407,624
All Oranges					
2014-2015	96,950	4,970	91,980	9.38	909,387
2015-2016	81,600	3,919	77,681	8.36	682,268
White Grapefruit					
2014-2015	3,250	632	2,618	5.57	18,116
2015-2016	2,490	587	1,903	8.49	21,135
Red Grapefruit					
2014-2015	9,650	5,076	4,574	7.82	75,432
2015-2016	8,310	4,359	3,951	10.48	87,094
All Grapefruit					
2014-2015	12,900	5,708	7,192	7.25	93,548
2015-2016	10,800	4,946	5,854	10.02	108,229
Tangelos					
2014-2015	665	346	319	10.45	6,951
2015-2016	390	240	150	18.87	7,361
Early Tangerines [1]					
2014-2015	1,445	978	467	16.87	24,382
2015-2016	785	544	241	20.09	15,769
Honey Tangerines					
2014-2015	820	572	248	18.90	15,498
2015-2016	630	414	216	18.53	11,671
All Tangerines					
2014-2015	2,265	1,550	715	17.60	39,857
2015-2016	1,415	958	457	19.36	27,395
All Citrus					
2014-2015	112,780	(X)	(X)	(X)	1,049,743
2015-2016	94,205	(X)	(X)	(X)	825,253

X Not applicable.
[1] Fallglo and Sunburst varieties.

Citrus Production by County and Production Area, by Type – Florida: 2015-2016

County	All citrus	Oranges			Grapefruit		
		Non-Valencia	Late (Valencia)	All	White	Red	All
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Brevard	335	164	142	306	-	11	11
Charlotte	2,696	805	1,668	2,473	8	126	134
Collier	6,677	2,784	3,619	6,403	10	172	182
De Soto	12,773	5,166	7,470	12,636	5	96	101
Glades	1,360	727	608	1,335	-	5	5
Hardee	8,436	5,533	2,762	8,295	2	83	85
Hendry	14,282	5,086	8,729	13,815	107	192	299
Hernando	91	84	1	85	1	3	4
Highlands	9,735	3,139	6,287	9,426	53	91	144
Hillsborough	718	420	264	684	1	8	9
Indian River	5,965	717	858	1,575	1,277	3,023	4,300
Lake	1,606	684	528	1,212	24	182	206
Lee	2,128	686	1,311	1,997	12	51	63
Manatee	3,282	1,690	1,552	3,242	4	23	27
Marion	163	97	34	131	1	6	7
Martin	684	96	579	675	4	1	5
Okeechobee	1,152	514	483	997	45	81	126
Orange	351	153	168	321	-	12	12
Osceola	1,463	773	532	1,305	69	69	138
Pasco	687	470	193	663	-	8	8
Polk	12,539	5,734	5,905	11,639	87	266	353
St. Lucie	6,693	407	1,687	2,094	777	3,722	4,499
Sarasota	212	63	86	149	1	55	56
Seminole	43	26	11	37	-	2	2
Volusia	111	66	21	87	2	17	19
Other [2]	23	16	2	18	-	5	5
Total	**94,205**	**36,100**	**45,500**	**81,600**	**2,490**	**8,310**	**10,800**
Indian River	12,487	1,031	2,445	3,476	2,041	6,771	8,812
Northern	3,029	1,579	950	2,529	26	218	244
Central	23,397	9,455	12,600	22,055	191	424	615
Western	25,421	12,872	12,134	25,006	13	265	278
Southern	29,871	11,163	17,371	28,534	219	632	851

See footnote(s) at end of table.

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The top 5 citrus producing counties were Hendry (14.3 million boxes), De Soto (12.8 million), Polk (12.5 million), Highlands (9.7 million), and Hardee (8.4 million). Together they account for 61 percent of the state's total citrus production. The Southern area had the most citrus, followed by the Western and Central areas. The remaining two areas, the Indian River and Northern area, account for only 16 percent of the state's total citrus production. Oranges constitute 87 percent of the citrus production, grapefruit accounted for over 11 percent, and tangerines and tangelos represent only 2 percent.

Estimates of county production are prepared from objective survey data used in forecasting citrus crop production. The apportionment of final harvest to the counties is based on bearing trees, an estimate of the average fruit per tree, and the drop and size surveys. Sample size used in these surveys and the distribution of the sample groves around the state are chosen to minimize error in the estimates of production and are not to be considered as precise for the counties as at the state or area levels.

Citrus Production by County and Production Area, by Type – Florida: 2015-2016 (continued)

County	Tangerines			Tangelos
	Early [1]	Honey	All	
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Brevard	5	-	5	13
Charlotte	38	45	83	6
Collier	31	55	86	6
De Soto	9	16	25	11
Glades	-	20	20	-
Hardee	28	13	41	15
Hendry	21	112	133	35
Hernando	2	-	2	-
Highlands	87	62	149	16
Hillsborough	18	2	20	5
Indian River	16	31	47	43
Lake	130	14	144	44
Lee	32	35	67	1
Manatee	3	2	5	8
Marion	21	-	21	4
Martin	-	3	3	1
Okeechobee	6	10	16	13
Orange	10	1	11	7
Osceola	10	3	13	7
Pasco	11	3	14	2
Polk	295	166	461	86
St. Lucie	6	37	43	57
Sarasota	2	-	2	5
Seminole	1	-	1	3
Volusia	3	-	3	2
Other [2]	-	-	-	-
Total	**785**	**630**	**1,415**	**390**
Indian River	23	66	89	110
Northern	178	18	196	60
Central	391	228	619	108
Western	60	33	93	44
Southern	133	285	418	68

- Represents zero.
[1] Fallglo and Sunburst varieties.
[2] Citrus and Putnam Counties.

Non-Valencia Orange Estimated Boxes of Fruit per Tree, by Age Group and Production Area – Florida: 2011-2012 through 2015-2016

Production area	Age of trees					Average [1]
	3 – 5 years	6 – 8 years	9 – 13 years	14 – 23 years	24 years and older	
	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)
2011-2012	**0.7**	**1.8**	**2.7**	**3.1**	**4.2**	**3.0**
Indian River	0.8	0.7	1.3	1.7	2.0	1.6
Northern & Central	0.7	2.0	2.8	3.7	5.3	3.7
Western	0.4	1.8	3.1	2.9	4.1	2.7
Southern	1.4	1.7	2.3	2.7	3.8	2.7
2012-2013	**0.9**	**1.5**	**2.2**	**2.6**	**4.1**	**2.7**
Indian River	0.3	0.6	1.0	1.0	1.8	1.3
Northern & Central	0.9	1.2	1.9	2.9	4.4	2.9
Western	1.2	1.8	2.6	2.8	4.7	2.9
Southern	0.5	1.1	2.1	2.5	3.7	2.5
2013-2014	**0.7**	**0.9**	**1.7**	**2.2**	**3.2**	**2.2**
Indian River	0.3	0.8	1.3	1.2	1.7	1.4
Northern & Central	0.8	1.1	1.5	2.4	3.5	2.4
Western	0.9	0.8	1.8	2.1	3.3	2.1
Southern	0.3	1.1	1.9	2.2	3.1	2.2
2014-2015	**0.8**	**1.0**	**1.5**	**2.0**	**2.9**	**2.0**
Indian River	0.2	0.6	1.2	1.3	1.8	1.5
Northern & Central	0.7	0.8	1.4	2.0	2.8	2.0
Western	0.9	1.2	1.7	1.9	3.0	2.0
Southern	1.0	1.0	1.2	2.3	3.1	2.2
2015-2016	**0.5**	**1.1**	**1.3**	**1.5**	**2.2**	**1.6**
Indian River	0.3	0.3	0.8	1.1	1.4	1.2
Northern & Central	0.5	0.9	0.8	1.5	2.0	1.5
Western	0.6	1.1	1.2	1.8	2.4	1.7
Southern	0.5	1.6	1.9	1.4	2.4	1.8
Average [1]	**0.7**	**1.3**	**1.9**	**2.4**	**3.2**	**2.3**
Indian River	0.4	0.6	1.1	1.3	1.8	1.4
Northern & Central	0.7	1.2	1.7	2.7	3.4	2.5
Western	0.8	1.3	2.1	2.3	3.4	2.3
Southern	0.7	1.4	1.9	2.3	3.1	2.3

[1] Average weighted by bearing trees.

The Florida Agricultural Statistics Service conducts objective surveys to determine fruit per tree, average sizes, and droppage between August and maturity. These data are used to estimate production per tree for each of four types of citrus fruit, as shown in the following tables. The estimates of production per tree are based on official end-of-season production estimates and the number of bearing trees indicated by the Commercial Citrus Inventory. The averages of boxes per tree for age groups shown are calculated from estimates of fruit per tree in August, size at maturity, and drop between August and maturity. Additionally, the boxes are subdivided by production areas. Estimated boxes by type and age group are weighted averages of the indicated seasons. Small sample sizes in some age/area cells and rounding may contribute to inconsistent averages.

Valencia Orange Estimated Boxes of Fruit per Tree, by Age Group and Production Area – Florida: 2011-2012 through 2015-2016

Production area	Age of trees					Average [1]
	3 – 5 years	6 – 8 years	9 – 13 years	14 – 23 years	24 years and older	
	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)
2011-2012	**0.9**	**1.4**	**1.9**	**2.3**	**3.0**	**2.2**
Indian River	0.4	0.9	0.7	1.1	1.2	1.0
Northern & Central	0.9	1.7	2.6	2.9	4.1	2.8
Western	0.9	1.6	2.1	2.6	3.2	2.4
Southern	1.0	0.8	1.5	2.1	2.4	1.9
2012-2013	**0.5**	**1.4**	**1.8**	**2.1**	**2.9**	**2.1**
Indian River	0.2	0.6	0.6	1.1	1.0	0.9
Northern & Central	0.3	1.6	1.8	2.4	3.6	2.4
Western	0.4	1.5	2.0	2.1	2.3	1.9
Southern	0.7	1.3	1.9	2.1	3.1	2.2
2013-2014	**0.5**	**0.8**	**1.4**	**1.6**	**2.2**	**1.6**
Indian River	0.3	0.7	0.3	1.0	1.0	0.8
Northern & Central	0.4	0.9	1.4	1.8	2.6	1.8
Western	0.3	0.8	1.3	1.7	2.3	1.6
Southern	0.7	0.8	1.8	1.6	2.1	1.7
2014-2015	**0.7**	**0.8**	**1.4**	**1.6**	**2.0**	**1.6**
Indian River	0.7	0.7	1.3	1.1	1.1	1.1
Northern & Central	0.8	0.6	1.4	1.5	2.3	1.7
Western	0.5	1.0	1.3	1.6	2.0	1.5
Southern	0.7	1.0	1.5	1.7	2.0	1.7
2015-2016	**0.5**	**1.0**	**1.4**	**1.6**	**1.8**	**1.5**
Indian River	0.8	0.7	0.9	1.3	1.5	1.3
Northern & Central	(Z)	0.7	1.3	1.5	1.8	1.4
Western	0.7	0.9	1.4	1.5	2.0	1.5
Southern	0.7	1.2	1.6	1.9	1.8	1.7
Average [1]	**0.6**	**1.1**	**1.6**	**1.9**	**2.3**	**1.8**
Indian River	0.5	0.7	0.7	1.1	1.2	1.0
Northern & Central	0.5	1.1	1.8	2.1	2.7	2.0
Western	0.6	1.1	1.7	1.9	2.3	1.8
Southern	0.7	1.0	1.7	1.9	2.2	1.8

Z Less than half of the unit shown.
[1] Average weighted by bearing trees.

White Grapefruit Estimated Boxes of Fruit per Tree, by Age Group and Production Area – Florida: 2011-2012 through 2015-2016

Production area	Age of trees					Average [1]
	3 – 5 years	6 – 8 years	9 – 13 years	14 – 23 years	24 years and older	
	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)
2011-2012	**1.3**	**2.6**	**3.1**	**3.1**	**5.5**	**3.9**
Indian River	0.8	2.9	3.1	2.8	5.6	3.8
Northern & Central	0.4	1.2	3.3	4.2	6.7	4.9
Western	3.6	(X)	(X)	6.5	2.4	4.0
Southern	(X)	2.7	0.7	3.5	2.8	3.2
2012-2013	**2.6**	**2.8**	**2.0**	**3.6**	**4.9**	**4.0**
Indian River	1.5	2.7	1.9	3.4	4.3	3.6
Northern & Central	0.8	2.4	3.4	3.0	6.8	4.8
Western	9.3	(X)	(X)	11.0	6.0	8.3
Southern	(X)	(X)	0.7	6.3	6.3	5.9
2013-2014	**1.0**	**1.9**	**1.5**	**3.5**	**3.5**	**3.3**
Indian River	1.1	0.8	1.5	3.7	3.2	3.2
Northern & Central	0.9	1.7	1.8	2.6	5.6	3.8
Western	(X)	3.5	(X)	7.7	3.8	5.3
Southern	(X)	(X)	0.8	2.0	2.8	2.4
2014-2015	**0.3**	**1.7**	**2.0**	**1.9**	**3.3**	**2.8**
Indian River	0.4	1.5	1.7	1.8	3.2	2.8
Northern & Central	0.3	1.8	1.7	1.5	4.3	3.0
Western	(X)	(X)	(X)	3.7	2.4	3.1
Southern	-	(X)	5.2	3.1	2.1	2.6
2015-2016	**0.6**	**1.5**	**1.7**	**1.6**	**3.0**	**2.5**
Indian River	1.3	2.1	1.2	1.7	3.1	2.7
Northern & Central	-	0.8	2.6	0.5	1.9	1.5
Western	(X)	(X)	(X)	1.0	2.3	1.4
Southern	1.0	(X)	2.4	2.2	3.5	3.1
Average [1]	**1.2**	**2.2**	**2.1**	**3.1**	**3.9**	**3.4**
Indian River	1.0	2.4	2.0	2.9	3.7	3.2
Northern & Central	0.5	1.5	2.6	2.8	5.0	3.7
Western	6.1	3.5	(X)	6.3	3.7	5.0
Southern	0.5	2.7	1.9	4.0	3.2	3.5

- Represents zero.
X Not applicable.
[1] Average weighted by bearing trees.

Red Grapefruit Estimated Boxes of Fruit per Tree, by Age Group and Production Area – Florida: 2011-2012 through 2015-2016

Production area	Age of trees					Average [1]
	3 – 5 years	6 – 8 years	9 – 13 years	14 – 23 years	24 years and older	
	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)	(boxes per tree)
2011-2012	**1.4**	**2.2**	**2.9**	**4.0**	**4.4**	**3.8**
Indian River	1.6	2.2	2.8	3.3	4.3	3.6
Northern & Central	0.8	2.8	7.6	8.5	6.5	7.2
Western	0.2	1.3	1.7	2.6	0.9	1.6
Southern	2.2	1.9	2.2	3.3	6.4	3.3
2012-2013	**1.7**	**1.6**	**2.6**	**3.6**	**4.7**	**3.7**
Indian River	1.0	1.0	2.3	2.7	4.2	3.1
Northern & Central	2.2	3.4	4.3	6.1	8.8	6.3
Western	3.4	4.3	5.5	3.2	4.9	4.0
Southern	2.6	4.0	2.0	4.6	7.3	4.6
2013-2014	**1.3**	**1.7**	**2.4**	**3.0**	**4.3**	**3.3**
Indian River	0.9	1.2	2.5	2.8	4.3	3.3
Northern & Central	2.9	2.1	2.5	5.4	6.4	5.1
Western	0.0	0.4	1.5	0.8	1.0	0.8
Southern	1.6	4.5	2.0	2.6	2.9	2.7
2014-2015	**0.8**	**1.8**	**3.2**	**2.4**	**3.8**	**2.9**
Indian River	0.8	2.0	3.4	2.5	3.8	3.1
Northern & Central	0.7	1.5	1.8	3.3	4.0	3.0
Western	0.3	1.7	6.3	3.3	5.1	3.6
Southern	0.9	1.7	1.8	1.9	2.0	1.8
2015-2016	**0.9**	**1.9**	**2.2**	**1.9**	**3.5**	**2.6**
Indian River	0.9	0.6	2.6	2.7	3.9	3.0
Northern & Central	0.4	0.8	0.8	1.1	3.1	2.0
Western	1.2	1.3	3.0	3.6	3.4	2.5
Southern	0.9	6.6	0.7	0.6	1.0	1.2
Average [1]	**1.2**	**1.8**	**2.6**	**3.2**	**4.1**	**3.3**
Indian River	1.0	1.5	2.7	2.9	4.1	3.2
Northern & Central	1.6	1.8	3.0	5.7	5.3	4.8
Western	1.4	1.4	3.1	2.7	3.2	2.4
Southern	1.4	3.8	1.8	2.8	2.9	2.7

[1] Average weighted by bearing trees.

Citrus Equivalent Return per Box, by Variety and Utilization – Florida: Crop Years 2013-2014 through 2015-2016

[2013-2014 and 2014-2015 revised to reflect final payments in cooperative and participation plans and changes in pick, haul and packing charges. 2015-2016 preliminary price based on cash sales only]

Fruit type	Methods of sale			Fruit type	Methods of sale		
	Fresh	Processing	All		Fresh	Processing	All
	(dollars)	(dollars)	(dollars)		(dollars)	(dollars)	(dollars)
Oranges				**Grapefruit**			
Navel				White [1]			
2013-2014	17.65	1.92	14.18	2013-2014	15.15	4.05	6.16
2014-2015	20.75	2.13	16.57	2014-2015	12.55	3.89	5.57
2015-2016	23.35	1.87	17.28	2015-2016	17.85	5.60	8.49
Non-Valencia, excl. Navel				Red			
2013-2014	9.45	8.10	8.15	2013-2014	11.80	2.85	7.44
2014-2015	12.15	7.95	8.11	2014-2015	11.95	3.23	7.82
2015-2016	14.85	6.98	7.31	2015-2016	14.85	5.66	10.48
Non-Valencia				All Grapefruit			
2013-2014	13.25	8.10	8.41	2013-2014	12.20	3.30	7.10
2014-2015	15.45	7.95	8.40	2014-2015	12.02	3.47	7.25
2015-2016	17.75	6.95	7.61	2015-2016	15.21	5.64	10.02
Valencia				**Tangerines**			
2013-2014	14.15	10.75	10.90	Early [2]			
2014-2015	13.00	10.20	10.32	2013-2014	20.90	2.69	15.00
2015-2016	13.00	8.80	8.96	2014-2015	23.35	3.31	16.87
All Oranges				2015-2016	27.85	2.57	20.09
2013-2014	13.62	9.41	9.63	Honey			
2014-2015	14.39	9.11	9.38	2013-2014	23.90	4.63	17.40
2015-2016	15.67	7.99	8.36	2014-2015	25.55	3.56	18.90
Tangelos				2015-2016	26.35	3.53	18.53
2013-2014	12.40	4.55	8.06	All Tangerines			
2014-2015	17.10	3.24	10.45	2013-2014	22.10	3.48	15.97
2015-2016	29.30	2.19	18.87	2014-2015	24.15	3.39	17.60
				2015-2016	27.15	3.03	19.36

[1] Includes seedy grapefruit.
[2] Fallglo and Sunburst varieties.

Citrus Bearing Trees by Variety and Age Group – Florida: Crop Year 2015-2016

Fruit type	Age 1 2010-2012	Age 2 2007-2009	Age 3 2002-2006	Age 4 1992-2001	Age 5 1991 and earlier	Total bearing trees
	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
Non-Valencia Oranges	2,311	2,158	3,241	5,857	8,852	22,419
Valencia Oranges	2,500	2,177	3,287	9,979	11,842	29,785
White Grapefruit [1]	19	18	42	213	689	981
Red Grapefruit	447	183	284	709	1,595	3,218

[1] Includes seedy grapefruit.