



United States Department of Agriculture
National Agricultural Statistics Service



CITRUS

2016-2017 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 17 Percent, Value Down 18 Percent

The \$781 million preliminary on-tree value of the 2016-2017 citrus crop is 18 percent less than the \$948 million revised value for 2015-2016 crop and is the lowest since the \$754 million crop value of the 2004-2005 hurricane affected season. Florida's all citrus production in 2016-2017 was 78.1 million boxes, down 17 percent from the previous season's 94.3 million boxes.

Production decreased for all citrus varieties when compared to last season resulting in lower values of production despite a higher price per box for most varieties. All orange production decreased by 16 percent to 68.8 million boxes. Non-Valencia production is 33.0 million boxes, down 9 percent from the 2015-2016 season. Valencia orange production at 35.8 million boxes is down 22 percent. All grapefruit production decreased 28 percent to 7.76 million boxes. Even with the inclusion of reclassified Royal tangerines in 2016-2017, combined production of tangerines and tangelos is less than last season.

Citrus Production, Utilization, Price, and Value, by Variety – Florida: Crop Years 2015-2016 and 2016-2017

Variety	Production (1,000 boxes)	Crop utilization		On-tree	
		Fresh use (1,000 boxes)	Processing (1,000 boxes)	Price per box (dollars)	Value of production (1,000 dollars)
Non-Valencia Oranges ¹					
2015-2016.....	36,100	2,199	33,901	7.61	324,396
2016-2017.....	33,000	1,503	31,497	8.49	280,229
Valencia Oranges					
2015-2016.....	45,600	1,731	43,869	10.62	484,369
2016-2017.....	35,750	1,338	34,412	10.75	384,407
All Oranges					
2015-2016.....	81,700	3,930	77,770	9.90	808,765
2016-2017.....	68,750	2,841	65,909	9.70	664,636
White Grapefruit					
2015-2016.....	2,490	587	1,903	8.41	20,947
2016-2017.....	1,480	406	1,074	9.57	14,170
Red Grapefruit					
2015-2016.....	8,310	4,359	3,951	10.22	84,937
2016-2017.....	6,280	3,131	3,149	11.69	73,404
All Grapefruit					
2015-2016.....	10,800	4,946	5,854	9.80	105,884
2016-2017.....	7,760	3,537	4,223	11.30	87,574
Tangelos					
2015-2016.....	390	240	150	17.97	7,010
2016-2017.....	280	160	120	18.64	5,218
Early Tangerines ²					
2015-2016.....	785	544	241	18.95	14,878
2016-2017.....	600	394	206	21.45	12,868
Royal Tangerines ¹					
2015-2016.....	(X)	(X)	(X)	(X)	(X)
2016-2017.....	210	40	170	10.45	2,195
Honey Tangerines					
2015-2016.....	630	414	216	17.55	11,057
2016-2017.....	530	260	270	16.24	8,609
All Tangerines					
2015-2016.....	1,415	958	457	18.29	25,883
All Tangerines and Tangelos ¹					
2016-2017.....	1,620	854	766	17.59	28,490
All Citrus					
2015-2016.....	94,305	(X)	(X)	(X)	947,542
2016-2017.....	78,130	(X)	(X)	(X)	780,700

X Not applicable.

¹ Temples included in non-Valencia oranges in 2015-2016. Beginning in 2016-2017, Temples have been reclassified as Royal tangerines.

² Fallglo and Sunburst varieties.

Citrus Production by County and Production Area, by Type – Florida: 2016-2017

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	107	61	33	94	-	7	7
Charlotte	2,140	684	1,211	1,895	5	136	141
Collier	5,075	2,307	2,573	4,880	6	96	102
DeSoto.....	11,669	5,184	6,348	11,532	10	89	99
Glades	1,049	592	442	1,034	-	-	-
Hardee.....	7,866	5,398	2,340	7,738	2	69	71
Hendry	10,946	4,340	6,263	10,603	37	147	184
Hernando.....	55	51	1	52	(X)	(X)	(X)
Highlands.....	9,159	3,076	5,762	8,838	49	125	174
Hillsborough.....	601	374	196	570	1	6	7
Indian River.....	4,290	591	585	1,176	727	2,291	3,018
Lake.....	1,065	520	198	718	11	122	133
Lee	1,719	625	947	1,572	6	71	77
Manatee.....	2,772	1,493	1,246	2,739	7	14	21
Marion.....	134	83	15	98	-	4	4
Martin.....	452	67	381	448	(X)	(X)	(X)
Okeechobee	601	259	243	502	24	54	78
Orange.....	174	109	40	149	-	8	8
Osceola	1,487	815	507	1,322	64	82	146
Pasco.....	255	222	22	244	-	5	5
Polk	11,647	5,769	5,152	10,921	75	277	352
St. Lucie.....	4,550	233	1,158	1,391	455	2,614	3,069
Sarasota	188	57	70	127	-	50	50
Seminole.....	29	19	5	24	-	2	2
Volusia.....	80	55	12	67	1	9	10
Other ²	20	16	-	16	-	2	2
Total	78,130	33,000	35,750	68,750	1,480	6,280	7,760
Indian River.....	8,642	719	1,641	2,360	1,175	4,916	6,091
Northern.....	1,784	1,063	288	1,351	11	143	154
Central	22,018	9,497	11,325	20,822	178	482	660
Western	23,096	12,506	10,200	22,706	20	228	248
Southern.....	22,590	9,215	12,296	21,511	96	511	607

See footnote(s) at end of table.

The top 5 citrus producing counties were DeSoto (11.7 million), Polk (11.6 million), Hendry (10.9 million boxes), Highlands (9.16 million), and Hardee (7.87 million). Together they account for 66 percent of the state's total citrus production. The Western area had the most citrus, followed by the Southern and Central areas. The remaining two areas, the Indian River and Northern area, account for 13 percent of the state's total citrus production. Oranges constituted 88 percent of the citrus production, grapefruit accounted for 10 percent, and tangerines and tangelos represented 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: 2016-2017 (continued)

County	Tangerines				Tangelos	All Tangerines and Tangelos
	Early ¹	Royal	Honey	All		
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Brevard	2	(X)	-	2	4	6
Charlotte	62	-	36	98	6	104
Collier	23	33	36	92	1	93
DeSoto	7	6	23	36	2	38
Glades	(X)	(X)	15	15	(X)	15
Hardee	16	1	34	51	6	57
Hendry	12	56	72	140	19	159
Hernando	3	(X)	(X)	3	-	3
Highlands	42	36	58	136	11	147
Hillsborough	16	1	5	22	2	24
Indian River	37	11	14	62	34	96
Lake	132	2	18	152	62	214
Lee	44	-	26	70	-	70
Manatee	1	2	8	11	1	12
Marion	27	-	-	27	5	32
Martin	(X)	3	1	4	-	4
Okeechobee	4	5	6	15	6	21
Orange	10	-	1	11	6	17
Osceola	11	(X)	3	14	5	19
Pasco	5	-	(X)	5	1	6
Polk	130	38	158	326	48	374
St. Lucie	11	8	15	34	56	90
Sarasota	1	8	-	9	2	11
Seminole	1	(X)	-	1	2	3
Volusia	2	-	(X)	2	1	3
Other ²	1	(X)	1	2	(X)	2
Total	600	210	530	1,340	280	1,620
Indian River	50	19	27	96	95	191
Northern	181	2	20	203	76	279
Central	182	74	216	472	64	536
Western	41	18	70	129	13	142
Southern	146	97	197	440	32	472

- Represents zero.

X Not applicable.

¹ Fallglo and Sunburst varieties.

² Alachua, Citrus and Putnam Counties.

**Non-Valencia Orange Estimated Boxes of Fruit per Tree, by Age Group and Production Area – Florida:
2012-2013 through 2016-2017**

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)
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
2016-2017	0.5	0.9	1.4	1.6	2.1	1.6
Indian River.....	0.6	0.6	0.8	0.5	1.4	1.0
Northern & Central.....	0.5	0.8	1.2	1.7	2.1	1.6
Western.....	0.5	0.9	1.5	1.8	2.2	1.6
Southern.....	0.4	1.1	1.4	1.4	2.1	1.5
Average ¹	0.7	1.1	1.6	2.1	2.8	2.0
Indian River.....	0.4	0.6	1.1	1.1	1.6	1.3
Northern & Central.....	0.7	1.0	1.4	2.2	2.9	2.1
Western.....	0.8	1.2	1.8	2.1	3.1	2.1
Southern.....	0.5	1.2	1.7	2.1	2.8	2.0

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:
2012-2013 through 2016-2017**

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)
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	(J)	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
2016-2017	0.4	0.9	1.1	1.4	1.4	1.2
Indian River	0.9	0.7	1.4	0.7	1.3	1.1
Northern & Central	0.1	1.0	1.1	1.4	1.6	1.3
Western.....	0.3	0.9	1.1	1.6	1.4	1.3
Southern	0.6	0.8	1.1	1.4	1.3	1.2
Average ¹	0.5	1.0	1.5	1.7	2.0	1.6
Indian River	0.6	0.7	0.8	1.0	1.2	1.0
Northern & Central	0.3	0.9	1.5	1.8	2.3	1.7
Western.....	0.4	1.0	1.4	1.7	1.9	1.6
Southern	0.7	1.0	1.7	1.8	1.9	1.7

J Less than one- tenth 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:
2012-2013 through 2016-2017**

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)
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
2016-2017	0.2	0.6	1.8	0.9	2.0	1.8
Indian River	-	0.6	0.9	0.8	2.1	1.8
Northern & Central	-	0.5	3.9	1.0	1.7	1.5
Western	(X)	(X)	(X)	1.8	3.3	2.5
Southern	1.0	(X)	1.3	1.7	1.8	1.7
Average ¹	1.0	1.6	1.8	2.9	3.3	3.0
Indian River	0.9	1.7	1.6	2.9	3.1	2.9
Northern & Central	0.5	1.3	2.6	2.0	4.1	3.1
Western	9.3	3.5	(X)	5.6	4.1	5.1
Southern	0.7	(X)	2.0	4.0	3.0	3.3

- 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:
2012-2013 through 2016-2017**

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)
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.....	-	0.4	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
2016-2017	0.9	2.0	1.2	1.8	2.6	2.1
Indian River	1.0	2.3	1.3	2.0	2.9	2.4
Northern & Central.....	0.2	1.3	1.2	1.9	3.0	2.4
Western.....	0.8	2.0	1.5	1.3	3.2	2.0
Southern.....	0.5	0.9	0.7	1.1	1.2	1.0
Average ¹	1.1	1.8	2.4	2.8	3.7	3.0
Indian River	0.9	1.5	2.5	2.6	3.8	3.9
Northern & Central.....	1.6	1.5	2.1	4.4	4.7	4.0
Western.....	1.6	1.4	2.8	2.7	3.4	2.5
Southern.....	1.1	3.4	1.4	2.6	2.0	2.2

- Represents zero.

¹ Average weighted by bearing trees.

Citrus Equivalent Return per Box, by Variety and Utilization – Florida: Crop Years 2014-2015 through 2016-2017

[2014-2015 and 2015-2016 are revised to reflect final payments in cooperative and participation plans and changes in pick, haul and packing charges. 2016-2017 preliminary prices are 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				Tangerines and Tangelos			
Navel				Early ³			
2014-2015	20.75	2.13	16.57	2014-2015	23.35	3.31	16.87
2015-2016	22.85	3.51	17.39	2015-2016	25.90	3.27	18.95
2016-2017	22.75	5.40	16.38	2016-2017	30.10	4.90	21.45
Non-Val (Excl. Navel) ¹				Royal ¹			
2014-2015	12.15	7.95	8.11	2014-2015	(X)	(X)	(X)
2015-2016	14.35	8.45	8.70	2015-2016	(X)	(X)	(X)
2016-2017	15.15	8.05	8.27	2016-2017	16.20	9.10	10.45
Non-Valencia ¹				Honey			
2014-2015	15.45	7.95	8.40	2014-2015	25.55	3.56	18.90
2015-2016	17.25	8.45	8.99	2015-2016	24.40	4.42	17.55
2016-2017	17.75	8.05	8.49	2016-2017	27.40	5.50	16.24
Valencia				All Tangerines ¹			
2014-2015	13.00	10.20	10.32	2014-2015	24.15	3.39	17.60
2015-2016	12.45	10.55	10.62	2015-2016	25.20	3.81	18.29
2016-2017	17.25	10.50	10.75	2016-2017	(X)	(X)	(X)
All Oranges ¹				Tangelos			
2014-2015	14.39	9.11	9.38	2014-2015	17.10	3.24	10.45
2015-2016	15.14	9.63	9.90	2015-2016	27.65	2.49	17.97
2016-2017	17.51	9.33	9.67	2016-2017	28.15	5.95	18.64
Grapefruit				All Tangerines and Tangelos ¹			
White ²				2014-2015	(X)	(X)	(X)
2014-2015	12.55	3.89	5.57	2015-2016	(X)	(X)	(X)
2015-2016	17.40	5.64	8.41	2016-2017	27.80	6.20	17.59
2016-2017	18.50	6.20	9.57				
Red							
2014-2015	11.95	3.23	7.82				
2015-2016	14.50	5.50	10.22				
2016-2017	15.70	7.70	11.69				
All Grapefruit							
2014-2015	12.02	3.47	7.25				
2015-2016	14.84	5.55	9.80				
2016-2017	16.02	7.32	11.29				

X Not applicable.

¹ Temples included in non-Valencia oranges in 2015-2016. Beginning in 2016-2017, Temples have been reclassified as Royal tangerines.

² Includes seedy grapefruit.

³ Fallglo and Sunburst varieties.

Citrus Bearing Trees by Variety and Age Group – Florida: Crop Year 2016-2017

Fruit type	Age 1 2011-2013	Age 2 2008-2010	Age 3 2003-2007	Age 4 1993-2002	Age 5 1992 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.....	2,669	2,236	2,906	5,100	8,336	21,247
Valencia Oranges	2,665	2,382	3,038	8,426	12,325	28,836
White Grapefruit ¹	10	25	28	122	650	835
Red Grapefruit	391	259	240	347	1,725	2,962

¹ Includes seedy grapefruit.