



CITRUS

2020-2021 CITRUS SUMMARY
PRODUCTION, PRICE AND VALUE
PRODUCTION BY COUNTY AND PER TREE

Cooperating with the Florida Department of Agriculture and Consumer Services
851 Trafalgar Ct, Suite 310E, Maitland, FL 32751-4132
(407) 648-6013 · (855) 271-9801 FAX · www.nass.usda.gov/fl

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All Citrus Value Down 17 Percent, Production Down 21 Percent

The \$579 million preliminary on-tree value of the 2020-2021 citrus crop is 17 percent less than the \$696 million revised value for 2019-2020.

Florida's all citrus production in 2020-2021 is 57.8 million boxes, down 21 percent from the previous season's 73.3 million boxes. All orange production decreased by 22 percent to 52.8 million boxes. Non-Valencia production at 22.7 million boxes is down 23 percent from the 2019-2020 season. Valencia orange production at 30.1 million boxes is down 20 percent. All grapefruit production decreased 15 percent to 4.10 million boxes. Tangerine and tangelo production in 2020-2021 is down 13 percent from the previous season.

Citrus Production, Utilization, Price, and Value, by Variety – Florida: Crop Years 2019-2020 and 2020-2021

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					
2019-2020	29,650	1,510	28,140	7.93	235,160
2020-2021	22,700	1,538	21,162	8.26	187,552
Valencia Oranges					
2019-2020	37,750	1,723	36,027	10.33	389,804
2020-2021	30,100	1,683	28,417	10.47	315,376
All Oranges					
2019-2020	67,400	3,233	64,167	9.27	624,964
2020-2021	52,800	3,221	49,579	9.53	502,928
Red Grapefruit					
2019-2020	4,060	1,942	2,118	10.81	43,902
2020-2021	3,480	1,839	1,641	15.26	53,118
White Grapefruit					
2019-2020	790	195	595	8.00	6,323
2020-2021	620	148	472	10.30	6,385
All Grapefruit					
2019-2020	4,850	2,137	2,713	10.36	50,280
2020-2021	4,100	1,987	2,113	14.51	59,469
Tangelos					
2019-2020	160	77	83	18.27	2,923
2020-2021	(X)	(X)	(X)	(X)	(X)
Early Tangerines ¹					
2019-2020	190	144	46	18.09	3,437
2020-2021	(X)	(X)	(X)	(X)	(X)
Royal Tangerines					
2019-2020	110	22	88	4.42	486
2020-2021	(X)	(X)	(X)	(X)	(X)
Honey Tangerines					
2019-2020	115	79	36	19.78	2,275
2020-2021	(X)	(X)	(X)	(X)	(X)
Other Tangerines ²					
2019-2020	445	316	129	26.55	11,816
2020-2021	(X)	(X)	(X)	(X)	(X)
All Tangerines and Tangelos ³					
2019-2020	1,020	638	382	20.52	20,926
2020-2021	890	599	291	19.15	17,045
All Citrus					
2019-2020	73,270	(X)	(X)	(X)	696,170
2020-2021	57,790	(X)	(X)	(X)	579,442

X Not applicable.

¹ Fallglo, Early Pride and Sunburst varieties.

² Includes Autumn Honey, Juicy Crunch, Orri, Robinson, Roe, Tango and other minor tangerine varieties.

³ Includes all certified tangerines and tangelos.

Citrus Production by County and Production Area, by Type – Florida: 2020-2021

County	All citrus	Oranges			Grapefruit			Tangerines and Tangelos
		Non-Valencia	Valencia	All	Red	White	All	
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Brevard.....	52	43	6	49	3	-	3	-
Charlotte	1,392	426	802	1,228	132	-	132	32
Collier.....	3,016	1,052	1,821	2,873	115	-	115	28
DeSoto.....	9,704	3,875	5,718	9,593	93	1	94	17
Glades.....	557	294	252	546	-	-	-	11
Hardee.....	6,371	4,017	2,259	6,276	30	1	31	64
Hendry.....	6,407	2,200	4,048	6,248	130	11	141	18
Hernando.....	11	10	1	11	-	-	-	-
Highlands.....	9,076	2,809	6,174	8,983	34	3	37	56
Hillsborough.....	221	128	92	220	-	-	-	1
Indian River.....	2,485	605	411	1,016	1,160	152	1,312	157
Lake.....	838	461	290	751	48	5	53	34
Lee.....	699	178	464	642	54	3	57	-
Manatee.....	1,702	800	818	1,618	3	-	3	81
Marion.....	110	81	24	105	3	-	3	2
Martin.....	69	2	67	69	-	-	-	-
Okeechobee.....	268	97	104	201	40	5	45	22
Orange.....	122	85	33	118	2	-	2	2
Osceola.....	979	546	394	940	22	12	34	5
Pasco.....	86	72	9	81	-	-	-	5
Polk.....	9,946	4,503	5,103	9,606	39	6	45	295
St. Lucie.....	3,453	308	1,126	1,434	1,546	421	1,967	52
Sarasota.....	136	38	69	107	24	-	24	5
Seminole.....	25	20	4	24	1	-	1	-
Volusia.....	51	39	11	50	1	-	1	-
Other ³	14	11	-	11	-	-	-	3
Total.....	57,790	22,700	30,100	52,800	3,480	620	4,100	890
Indian River.....	5,822	866	1,464	2,330	2,710	573	3,283	209
Northern.....	1,251	777	369	1,146	54	5	59	46
Central.....	19,848	7,780	11,602	19,382	92	18	110	356
Western.....	18,134	8,858	8,956	17,814	150	2	152	168
Southern.....	12,735	4,419	7,709	12,128	474	22	496	111

See footnote(s) at end of table.

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The top 5 citrus producing counties were Polk (9.95 million boxes), DeSoto (9.70 million boxes), Highlands (9.08 million boxes), Hendry (6.41 million boxes) and Hardee (6.37 million boxes). Together they account for 72 percent of the state’s total citrus production. The Central area had the most citrus, followed by the Western and Southern areas. Oranges constituted 91 percent of the citrus production, grapefruit accounted for 7 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.

Non-Valencia Orange Estimated Boxes of Fruit per Tree, by Age Group and Production Area – Florida: 2016-2017 through 2020-2021

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)
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
2017-2018	0.3	0.4	1.0	1.0	1.2	0.9
Indian River.....	0.3	0.6	0.8	1.0	1.4	1.0
Northern & Central.....	0.4	0.6	0.9	1.3	1.4	1.1
Western.....	0.3	0.6	1.2	1.2	1.4	1.1
Southern.....	0.2	(X)	0.2	0.6	0.6	0.4
2018-2019	0.4	0.9	1.2	1.6	2.0	1.5
Indian River.....	0.3	0.6	0.8	1.6	1.8	1.3
Northern & Central.....	0.5	1.3	1.1	1.9	2.1	1.6
Western.....	0.5	0.8	1.3	1.6	2.2	1.5
Southern.....	0.4	0.6	1.3	1.4	1.8	1.3
2019-2020	0.4	0.8	1.3	1.5	2.1	1.5
Indian River.....	0.5	0.7	0.7	1.7	2.3	1.5
Northern & Central.....	0.4	0.9	1.1	1.8	2.3	1.6
Western.....	0.4	0.8	1.4	1.4	2.1	1.5
Southern.....	0.4	0.8	1.1	1.5	1.7	1.2
2020-2021	0.2	0.5	0.9	1.2	1.8	1.2
Indian River.....	0.2	0.5	1.1	1.7	2.4	1.5
Northern & Central.....	0.2	0.5	0.9	1.7	2.2	1.4
Western.....	0.2	0.5	1.1	1.1	1.9	1.2
Southern.....	0.2	0.4	0.7	1.0	1.0	0.7
Average ¹	0.4	0.7	1.2	1.4	1.8	1.3
Indian River.....	0.4	0.6	0.9	1.1	1.8	1.3
Northern & Central.....	0.4	0.8	1.1	1.7	2.0	1.5
Western.....	0.4	0.7	1.3	1.4	2.0	1.4
Southern.....	0.3	0.6	1.0	1.2	1.4	1.0

X Not applicable.

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:
2016-2017 through 2020-2021**

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)
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
2017-2018	0.5	0.6	0.7	1.0	1.0	0.9
Indian River	1.0	1.1	1.1	1.3	1.2	1.2
Northern & Central	0.8	0.6	0.9	1.3	1.6	1.3
Western	0.2	0.4	0.8	1.0	0.9	0.8
Southern	0.4	0.8	0.4	0.7	0.6	0.6
2018-2019	0.7	1.2	1.3	1.7	1.6	1.4
Indian River	1.0	2.0	1.4	1.9	1.4	1.5
Northern & Central	0.8	1.1	1.4	1.7	1.9	1.5
Western	0.5	1.2	1.2	1.9	1.7	1.5
Southern	0.7	1.2	1.1	1.4	1.3	1.2
2019-2020	0.5	1.2	1.1	1.6	1.4	1.3
Indian River	0.6	2.9	2.4	2.4	1.7	1.9
Northern & Central	0.5	1.0	1.1	1.6	1.9	1.4
Western	0.7	0.9	0.9	1.6	1.3	1.2
Southern	0.5	1.4	1.2	1.4	1.2	1.1
2020-2021	0.4	0.7	0.9	1.4	1.1	1.0
Indian River	0.8	0.7	1.8	1.8	1.3	1.4
Northern & Central	0.4	0.7	0.9	1.7	1.6	1.2
Western	0.4	0.9	0.9	1.3	1.2	1.1
Southern	0.4	0.6	0.7	1.1	0.8	0.7
Average ¹	0.5	0.9	1.0	1.4	1.3	1.2
Indian River	0.9	1.6	1.6	1.4	1.3	1.4
Northern & Central	0.5	0.9	1.1	1.5	1.7	1.3
Western	0.4	0.9	1.0	1.5	1.3	1.2
Southern	0.5	1.0	1.0	1.6	1.2	1.2

¹ Average weighted by bearing trees.

**Red Grapefruit Estimated Boxes of Fruit per Tree, by Age Group and Production Area – Florida:
2016-2017 through 2020-2021**

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)
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
2017-2018	0.7	0.4	0.5	1.2	1.4	1.1
Indian River.....	0.8	0.4	0.6	1.6	1.8	1.5
Northern & Central	0.1	0.1	0.1	0.2	0.2	0.2
Western.....	0.4	1.0	1.0	-	1.5	0.9
Southern.....	0.5	0.3	0.4	0.3	0.5	0.4
2018-2019	0.6	0.7	1.0	1.4	2.0	1.5
Indian River.....	0.7	0.8	1.3	1.5	2.3	1.8
Northern & Central	0.4	0.1	0.7	1.4	1.0	0.9
Western.....	0.6	0.5	0.9	1.3	1.4	1.0
Southern.....	0.3	0.5	0.7	1.3	1.5	1.2
2019-2020	0.6	1.5	1.9	1.9	2.1	1.9
Indian River.....	0.8	1.8	2.5	2.1	2.4	2.1
Northern & Central	0.2	0.2	0.6	0.5	0.7	0.7
Western.....	0.3	0.8	1.5	1.7	2.4	1.4
Southern.....	0.2	1.4	1.3	1.7	1.8	1.5
2020-2021	0.6	0.6	1.5	1.6	2.3	1.8
Indian River.....	0.7	0.6	2.0	1.7	2.7	2.1
Northern & Central	0.3	0.4	0.5	0.8	1.1	0.9
Western.....	1.2	1.2	2.0	2.7	1.5	1.5
Southern.....	0.3	0.4	0.8	1.7	1.5	1.2
Average ¹	0.7	1.0	1.2	1.6	2.1	1.7
Indian River.....	0.8	1.1	1.5	1.8	2.4	2.0
Northern & Central	0.2	0.6	0.6	1.2	1.3	1.1
Western.....	0.6	1.0	1.3	1.5	2.0	1.3
Southern.....	0.4	0.7	0.8	1.2	1.3	1.0

- Represents zero.

¹ Average weighted by bearing trees.

**White Grapefruit Estimated Boxes of Fruit per Tree, by Age Group and Production Area – Florida:
2016-2017 through 2020-2021**

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)
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
2017-2018	0.3	0.3	0.6	0.9	1.1	1.0
Indian River	0.2	0.3	0.6	0.9	1.2	1.1
Northern & Central	0.3	0.2	0.5	0.8	0.7	0.6
Western	(X)	(X)	(X)	-	(X)	-
Southern	(X)	1.0	(X)	1.2	1.2	1.2
2018-2019	0.5	1.1	0.4	1.4	1.7	1.6
Indian River	0.4	1.0	1.0	1.5	1.8	1.7
Northern & Central	1.0	1.2	-	1.7	1.1	1.1
Western	(X)	(X)	(X)	1.0	(X)	1.5
Southern	(X)	(X)	(X)	0.3	1.1	1.1
2019-2020	0.3	1.3	0.5	1.3	2.0	1.9
Indian River	0.3	1.0	0.7	1.5	2.2	2.1
Northern & Central	-	2.0	0.4	1.0	1.2	1.1
Western	(X)	(X)	(X)	(X)	0.3	0.3
Southern	(X)	(X)	(X)	-	0.7	0.7
2020-2021	0.7	1.0	0.7	1.6	2.0	1.9
Indian River	0.8	1.0	1.0	1.8	2.2	2.1
Northern & Central	-	1.0	0.3	0.5	1.0	0.9
Western	0.5	(X)	(X)	(X)	0.5	0.5
Southern	(X)	(X)	(X)	2.0	0.9	1.0
Average ¹	0.3	0.7	1.1	1.0	1.7	1.6
Indian River	0.3	0.7	0.8	1.0	1.8	1.7
Northern & Central	0.4	0.7	1.4	1.0	1.2	1.1
Western	0.5	(X)	(X)	0.8	2.2	1.3
Southern	1.0	1.0	1.3	1.1	1.2	1.2

- Represents zero.

X Not applicable.

¹ Average weighted by bearing trees.

Citrus Equivalent Return per Box, by Variety and Utilization – Florida: Crop Years 2018-2019 through 2020-2021

[2019-2020 is revised to reflect final payments in cooperative and participation plans and changes in pick, haul and packing charges. 2020-2021 preliminary prices are based on cash sales only]

Fruit type	Methods of sale			Fruit type	Methods of sale		
	Fresh (dollars)	Processing (dollars)	All (dollars)		Fresh (dollars)	Processing (dollars)	All (dollars)
Oranges				Tangerines and Tangelos			
Navel				Early ²			
2018-2019	21.55	4.75	14.54	2018-2019.....	24.10	3.50	18.25
2019-2020	13.20	7.60	10.67	2019-2020.....	23.95	-0.25	18.09
2020-2021	20.70	7.20	15.39	2020-2021.....	(X)	(X)	(X)
Non-Val (Excl. Navel)				Royal			
2018-2019	12.75	9.60	9.71	2018-2019.....	22.90	7.05	10.88
2019-2020	9.00	7.80	7.84	2019-2020.....	19.25	0.70	4.42
2020-2021	14.40	7.70	8.06	2020-2021.....	(X)	(X)	(X)
Non-Valencia				Other Tangerines			
2018-2019	15.35	9.60	9.85	2018-2019.....	32.60	4.20	20.71
2019-2020	10.19	7.81	7.93	2019-2020.....	37.35	0.10	26.55
2020-2021	15.86	7.71	8.26	2020-2021.....	(X)	(X)	(X)
Valencia				Honey			
2018-2019	13.45	12.50	12.56	2018-2019.....	26.30	4.75	17.57
2019-2020	10.45	10.32	10.33	2019-2020.....	28.85	-0.10	19.78
2020-2021	15.84	10.16	10.47	2020-2021.....	(X)	(X)	(X)
All Oranges				Tangelos			
2018-2019	14.49	11.29	11.41	2018-2019.....	22.70	3.45	12.32
2019-2020	10.33	9.22	9.27	2019-2020.....	36.40	1.45	18.27
2020-2021	15.85	9.11	9.53	2020-2021.....	(X)	(X)	(X)
Grapefruit				All Tangerines and Tangelos			
Red				2018-2019.....	27.25	4.63	17.04
2018-2019	20.75	9.45	14.56	2019-2020.....	32.50	0.50	20.52
2019-2020	16.15	5.92	10.81	2020-2021.....	28.70	-0.50	19.15
2020-2021	22.95	6.65	15.26				
White ¹							
2018-2019	26.70	9.60	14.48				
2019-2020	10.85	7.07	8.00				
2020-2021	24.55	5.83	10.30				
All Grapefruit							
2018-2019	21.43	9.48	14.57				
2019-2020	15.67	6.19	10.36				
2020-2021	23.07	6.45	14.51				

X Not applicable.

¹ Includes seedy grapefruit.

² Fallglo, Early Pride and Sunburst varieties

Citrus Bearing Trees by Variety and Age Group – Florida: Crop Year 2020-2021

Fruit type	Age 1 2015-2017	Age 2 2012-2014	Age 3 2007-2011	Age 4 1997-2006	Age 5 1996 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.....	2,129	2,734	3,063	4,877	6,873	19,676
Valencia Oranges.....	5,027	2,983	3,450	7,082	11,527	30,069
Red Grapefruit.....	98	312	240	191	1,115	1,956
White Grapefruit ¹	5	5	5	17	297	329

¹ Includes seedy grapefruit.