

This page was originally part of the July 2021 release. Revisions to the 2020-2021 bearing trees have led to the recalculation of yield components. Original numbers have been struck out with the revised figures placed to the left where applicable.

Forecast Components of Production from Objective Surveys – Florida: 2016-2017 through 2020-2021

Fruit type and crop year	Number bearing trees (1,000 trees)	Sample survey averages		
		Fruit per tree (number)	Percent drop ¹ (percent)	Fruit per box ¹ (number)
Early-Midseason (non-Valencia) Oranges ²				
2016-2017.....	20,318	765	26	316
2017-2018.....	20,119	746	61	287
2018-2019.....	19,666	813	26	334
2019-2020.....	19,535	774	28	315
2020-2021.....	18,778 19,050	591 590	43	277
Navel Oranges				
2016-2017.....	929	219	27	147
2017-2018.....	939	254	68	142
2018-2019.....	944	213	27	146
2019-2020.....	920	237	26	142
2020-2021.....	898 902	185 194	37	132
Valencia Oranges				
2016-2017.....	28,836	451	30	242
2017-2018.....	28,975	512	52	236
2018-2019.....	29,097	608	25	265
2019-2020.....	29,690	537	30	252
2020-2021.....	30,069 30,169	441	41	246
Red Grapefruit				
2016-2017.....	2,962	396	35	132
2017-2018.....	2,773	387	51	108
2018-2019.....	2,430	375	34	137
2019-2020.....	2,174	422	29	116
2020-2021.....	1,956 1,983	371 372	33 32	115 116
White Grapefruit ³				
2016-2017.....	834	413	43	143
2017-2018.....	667	393	66	107
2018-2019.....	478	363	22	124
2019-2020.....	419	461	29	108
2020-2021.....	329 376	407 409	32	123

¹ Averages at cut-off month—January 1 for early-midseason (non-Valencia) oranges, December 1 for Navels, April 1 for Valencias, and February 1 for grapefruit.

² Excludes Navels.

³ Includes seedy grapefruit in number of bearing trees.

The above table shows the production components used for the 2016-2017 through the 2020-2021 forecast seasons. Bearing trees are estimated at the beginning of each forecast season using the most updated tree inventory with an allowance for expected attrition. Revisions are made to the historic series where applicable. Fruit per tree is the weighted average obtained from the annual Limb Count survey conducted during a ten-week period from mid-July to mid-September. Survey averages for each tree age group within an area are weighted by the estimated number of bearing trees for each age group. Fruit size measurements and drop observations are obtained from monthly surveys. The average drop percentages are from the final month used in the forecast model. Average fruit sizes were also obtained from the same survey period and have been converted in the table to estimated number of fruit needed to fill a 1-3/5 bushel box. These four factors are the primary components used in the initial October forecast and in following months up to the "cut-off" for each fruit type.

$$\text{Direct Expansion} = \frac{\text{Bearing Trees} \times \text{Fruit per Tree} \times \text{Percent Remaining at Harvest}}{\text{Pieces of Fruit per Box}}$$