United States Department of Agriculture
National Agricultural Statistics Service

CITRUS

JULY FORECAST
FORECAST COMPONENTS

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July 12, 2023

Florida All Orange Production Up 1 Percent
Florida Non-Valencia Orange Production Unchanged
Florida Valencia Orange Production Up 1 Percent
Florida All Grapefruit Production Down 1 Percent
Florida All Tangerine and Tangelo Production Down 2 Percent

The first forecast of the 2023-2024 season will be released at 12:00 p.m. ET on October 12, 2023

Citrus Production by Type – States and United States

Crop and State	Production [1]		2022-2023 Forecasted Production [1]	
	2020-2021	2021-2022	June	July
	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)
Non-Valencia Oranges [2]				
Florida	**22,700**	**18,250**	**6,150**	**6,150**
California	41,300	31,500	37,000	37,000
Texas	1,000	170	700	570
United States	65,000	49,920	43,850	43,720
Valencia Oranges				
Florida	**30,250**	**22,950**	**9,600**	**9,700**
California	7,700	7.600	8,100	7,000
Texas	50	30	350	560
United States	38,000	30,580	18,050	17,260
All Oranges				
Florida	**52,950**	**41,200**	**15,750**	**15,850**
California	49,000	39,100	45,100	44,000
Texas	1,050	200	1,050	1,130
United States	103,000	80,500	61,900	60,980
Grapefruit				
Florida-All	**4,100**	**3,330**	**1,820**	**1,810**
Red	**3,480**	**2,830**	**1,570**	**1,560**
White	**620**	**500**	**250**	**250**
California [3]	4,200	4,100	4,200	4,200
Texas	2,400	1,700	2,400	2,230
United States	10,700	9,130	8,420	8,240
Lemons				
Arizona	750	1,250	1,700	1,400
California	20,100	25,200	23,000	20,000
United States	20,850	26,450	24,700	21,400
Tangerines and Tangelos				
Florida	**890**	**750**	**490**	**480**
California	28,800	17,500	21,000	22,000
United States	29,690	18,250	21,490	22,480

[1] Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California and Texas-80, Florida-85; lemons-80; and tangerines and mandarins in California-80, Florida-95.
[2] Early non-Valencia (including Navel) and mid-season non-Valencia varieties in Florida; Navel and miscellaneous varieties in California; Early and mid-season varieties in Texas.
[3] Includes pummelos in California.

Citrus Forecast

The 2022-2023 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 15.9 million boxes. The total is comprised of 6.15 million boxes of non-Valencia oranges (early, mid-season, and Navel varieties), unchanged from the June forecast, and 9.70 million boxes of Valencia oranges, up 100,000 boxes from the June forecast. The forecast of all Florida grapefruit production is lowered 10,000 boxes to 1.81 million boxes. Of the total grapefruit forecast, 250,000 boxes are white, and 1.56 million boxes are the red varieties. The Florida all tangerine and tangelo forecast is now 480,000 boxes.

Forecast Components of Production from Objective Surveys – Florida: 2018-2019 through 2022-2023

Fruit type and crop year	Number bearing trees	Sample survey averages		
		Fruit per tree	Percent drop [1]	Fruit per box [1]
	(1,000 trees)	(number)	(percent)	(number)
Early and Midseason non-Valencia Oranges [2]				
2018-2019	19,666	813	26	334
2019-2020	19,535	774	28	315
2020-2021	18,778	591	43	277
2021-2022	17,206	571	39	326
2022-2023	15,841	474	76	333
Navel Oranges				
2018-2019	944	213	27	146
2019-2020	920	237	26	142
2020-2021	898	185	37	132
2021-2022	756	155	28	138
2022-2023	653	106	69	137
Valencia Oranges				
2018-2019	29,097	608	25	265
2019-2020	29,690	537	30	252
2020-2021	30,069	441	41	246
2021-2022	28,679	395	51	274
2022-2023	27,465	323	70	294
Red Grapefruit				
2018-2019	2,430	375	34	137
2019-2020	2,174	422	29	116
2020-2021	1,956	371	33	115
2021-2022	1,731	393	28	127
2022-2023	1,574	381	45	140
White Grapefruit [3]				
2018-2019	478	363	22	124
2019-2020	419	461	29	108
2020-2021	329	407	32	123
2021-2022	234	470	16	104
2022-2023	180	448	34	112

[1] Averages at cut-off month—January 1 for early-midseason oranges, December 1 for Navels, April 1 for Valencia, 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 2018-2019 through the 2022-2023 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.

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