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Citrus Fruits 2023 Summary

August 2023

USDA

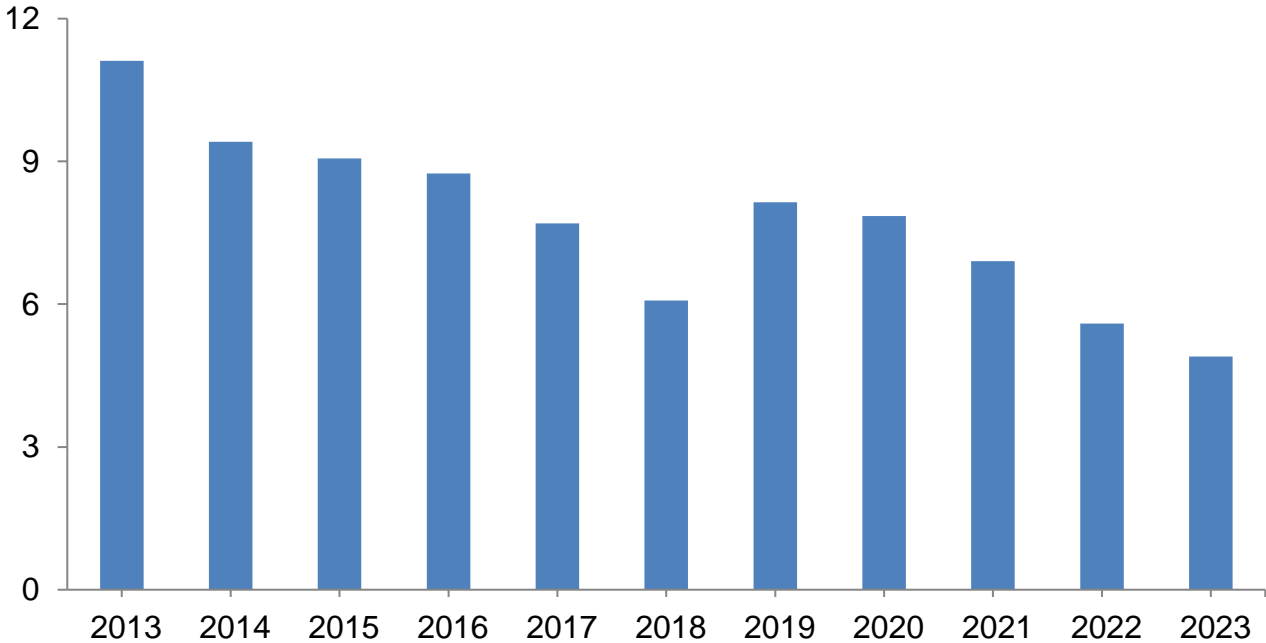


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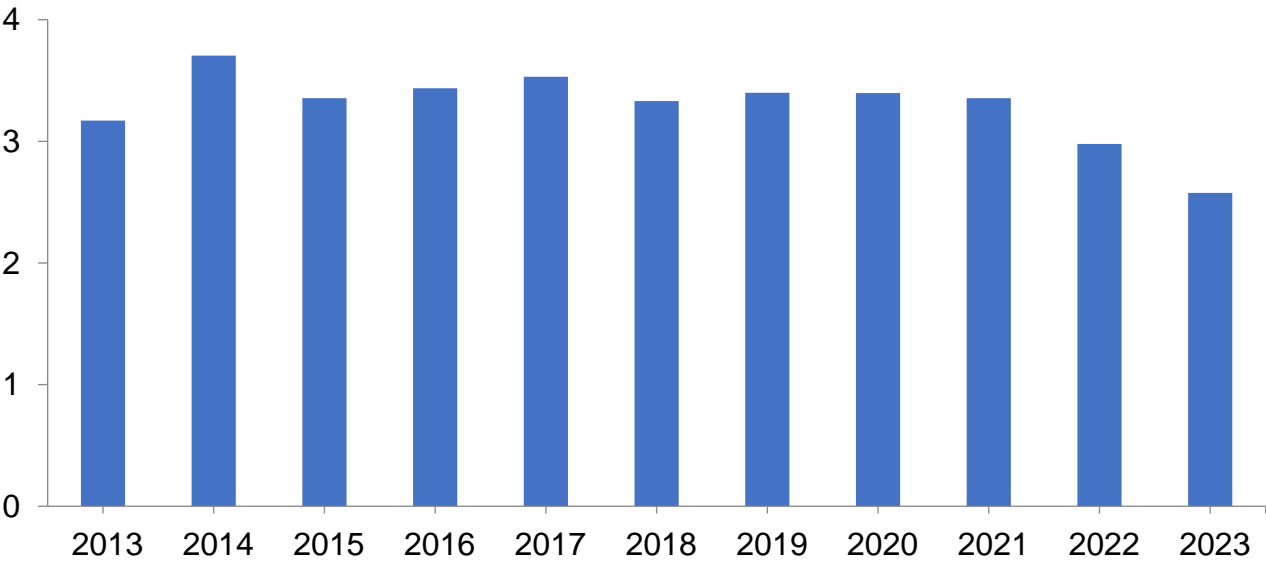
Utilized Citrus Production – United States

Million tons



Citrus Value of Production – United States

Billion dollars
(PHD equivalents)



Citrus Utilized Production Down 12 Percent, Value Down 13 Percent

Citrus utilized production for the 2022-23 season totaled 4.90 million tons, down 12 percent from the 2021-22 season. California accounted for 79 percent of total United States citrus production; Florida totaled 17 percent, and Texas and Arizona produced the remaining 4 percent.

California's utilized citrus production, increased 13 percent from the 2021-22 season. California's all orange production, at 43.2 million boxes, is 10 percent higher than the previous season. Tangerine and mandarin production in California is up 35 percent from last season. California's lemon production was increased 5 percent from the previous season. Grapefruit production is down 2 percent from the 2021-22 season.

Florida's orange production, at 15.8 million boxes, is down 62 percent from the previous season. Grapefruit utilization in Florida, at 1.81 million boxes, is down 46 percent from last season's utilization. Florida's total citrus utilization decreased 60 percent from the previous season. Bearing citrus acreage, at 298,400 acres, is 41,800 acres below the 2021-22 season.

Utilized production of citrus in Texas is up 82 percent from the 2021-22 season. Orange production is up significantly from the previous season and grapefruit production increased 32 percent. Arizona's lemon production is up 12 percent.

The value of the 2022-23 United States citrus crop decreased 13 percent from last season, to \$2.58 billion (packinghouse-door equivalent). Orange value of production decreased 36 percent from last season and grapefruit value is up 8 percent. Tangerine and mandarin value of production is 14 percent higher than last season and lemon value of production is up 5 percent.

Overall comparisons discussed above are based on similar fruit types. The revised production and utilization estimates are based on all data available at the end of the marketing season, including information from marketing orders, shipments, and processor records. Allowances are made for recorded local utilization and home use. Estimates for the 2022-23 California Valencia oranges and grapefruit are preliminary, since the marketing season is not complete at publication time. Revisions to the utilized production estimates for all citrus for the 2022-23 season will be published in the April 2024 Crop Production.

Citrus Acreage, Production, Utilization, and Value – States and United States: 2020-2021, 2021-2022, and 2022-2023

State and season	Bearing acreage	Production ¹			Value of production ²
		Total	Utilization		
			Fresh	Processed	
	(acres)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 dollars)
Arizona					
2020-2021	7,000	30	24	6	20,931
2021-2022	6,700	50	34	16	31,517
2022-2023	6,400	56	39	17	31,909
California					
2020-2021	266,900	4,136	3,056	1,080	2,463,888
2021-2022	266,100	3,436	2,496	940	2,237,396
2022-2023	267,000	3,896	2,812	1,084	2,215,213
Florida					
2020-2021	369,500	2,599	259	2,339	802,751
2021-2022	340,200	2,032	219	1,813	671,940
2022-2023	298,400	811	133	677	263,021
Texas					
2020-2021	22,800	141	92	49	67,471
2021-2022	18,000	76	38	38	37,714
2022-2023	16,400	138	86	51	66,374
United States					
2020-2021	666,200	6,906	3,431	3,474	3,355,041
2021-2022	631,000	5,594	2,787	2,807	2,978,567
2022-2023	588,200	4,901	3,070	1,829	2,576,517

¹ Some totals may not add due to rounding.

² Packinghouse-door equivalents.

Citrus Acreage, Production, Utilization, and Value by Crop – United States: 2020-2021, 2021-2022, and 2022-2023

Crop and season	Bearing acreage	Production ¹			Value of production ²
		Total	Utilization		
			Fresh	Processed	
	(acres)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 dollars)
Oranges					
Early, midseason, and Navel					
2020-2021	259,500	2,717	1,338	1,378	1,057,805
2021-2022	241,400	2,088	1,120	968	1,011,499
2022-2023	220,300	1,761	1,188	572	743,485
Valencia					
2020-2021	232,200	1,671	295	1,376	553,947
2021-2022	219,700	1,338	279	1,059	517,915
2022-2023	199,900	726	255	470	241,308
All oranges					
2020-2021	491,700	4,388	1,633	2,754	1,611,752
2021-2022	461,100	3,426	1,399	2,027	1,529,414
2022-2023	420,200	2,487	1,443	1,042	984,793
Grapefruit ³					
2020-2021	42,700	438	286	152	231,672
2021-2022	37,000	374	179	195	157,715
2022-2023	32,600	327	208	119	169,921
Lemons					
2020-2021	57,000	886	712	174	661,623
2021-2022	57,700	1,058	686	372	586,304
2022-2023	59,400	1,116	743	373	614,928
Tangerines and mandarins ⁴					
2020-2021	74,800	1,194	800	394	849,994
2021-2022	75,200	736	523	213	705,134
2022-2023	76,000	971	676	295	806,875

¹ Some totals may not add due to rounding.

² Packinghouse-door equivalents.

³ Includes pummelos in California.

⁴ Includes tangelos.

Orange Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2020-2021, 2021-2022, and 2022-2023

[See Statistical Methodology for net weight per box and price per box calculations]

State, type, and season	Bearing acreage	Yield per acre	Utilization of production			Price per box ¹			Value of production		
			Total	Fresh	Processed	All	Fresh	Processed	Total	Fresh	Processed
	(acres)	(boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(dollars)	(dollars)	(dollars)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
California											
Navel and miscellaneous											
2020-2021	115,000	359	41,300	30,900	10,400	18.40	(D)	(D)	760,051	(D)	(D)
2021-2022	112,000	281	31,500	26,400	5,100	24.25	(D)	(D)	763,929	(D)	(D)
2022-2023	111,000	329	36,500	28,400	8,100	18.23	(D)	(D)	665,145	(D)	(D)
Valencia											
2020-2021	26,000	296	7,700	5,400	2,300	15.77	(D)	(D)	121,438	(D)	(D)
2021-2022	26,000	292	7,600	5,500	2,100	24.18	(D)	(D)	183,820	(D)	(D)
2022-2023	25,000	268	6,700	5,000	1,700	16.05	(D)	(D)	107,559	(D)	(D)
All											
2020-2021	141,000	348	49,000	36,300	12,700	17.99	(D)	(D)	881,489	(D)	(D)
2021-2022	138,000	283	39,100	31,900	7,200	24.24	(D)	(D)	947,749	(D)	(D)
2022-2023	136,000	318	43,200	33,400	9,800	17.89	(D)	(D)	772,704	(D)	(D)
Florida											
Non-Valencia											
2020-2021	138,700	164	22,700	1,538	21,162	12.18	18.81	11.70	276,525	28,930	247,595
2021-2022	125,400	146	18,250	1,334	16,916	13.38	18.37	12.99	244,245	24,506	219,739
2022-2023	105,700	58	6,150	741	5,409	11.92	21.84	10.56	73,302	16,183	57,119
Valencia											
2020-2021	204,200	148	30,250	1,732	28,518	14.29	18.94	14.00	432,056	32,804	399,252
2021-2022	191,700	120	22,950	1,279	21,671	14.53	19.76	14.23	333,651	25,273	308,378
2022-2023	172,600	56	9,650	871	8,779	12.85	20.41	12.10	124,003	17,777	106,226
All											
2020-2021	342,900	155	52,950	3,270	49,680	13.38	18.88	13.02	708,581	61,734	646,847
2021-2022	317,100	130	41,200	2,613	38,587	14.03	19.05	13.69	577,896	49,779	528,117
2022-2023	278,300	57	15,800	1,612	14,188	12.49	21.07	11.51	197,305	33,960	163,345

See footnote(s) at end of table.

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Orange Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2020-2021, 2021-2022, and 2022-2023 (continued)

[See Statistical Methodology for net weight per box and price per box calculations]

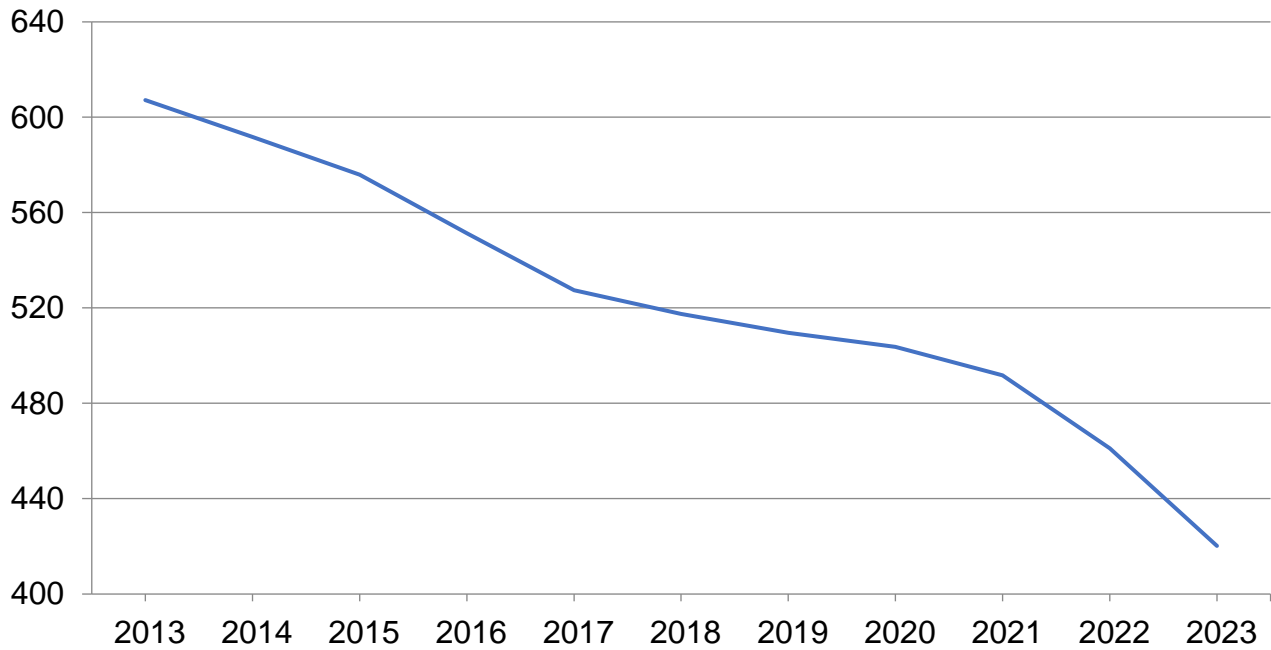
State, type, and season	Bearing acreage	Yield per acre	Utilization of production			Price per box ¹			Value of production		
			Total	Fresh	Processed	All	Fresh	Processed	Total	Fresh	Processed
	(acres)	(boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(dollars)	(dollars)	(dollars)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
Texas											
Early and midseason											
2020-2021	5,800	173	1,000	776	224	21.23	(D)	(D)	21,229	(D)	(D)
2021-2022	4,000	43	170	96	74	19.56	(D)	(D)	3,325	(D)	(D)
2022-2023	3,600	158	570	455	115	8.84	(D)	(D)	5,038	(D)	(D)
Valencia											
2020-2021	2,000	25	50	17	33	9.06	(D)	(D)	453	(D)	(D)
2021-2022	2,000	15	30	19	11	14.80	(D)	(D)	444	(D)	(D)
2022-2023	2,300	243	560	387	173	17.41	(D)	(D)	9,746	(D)	(D)
All											
2020-2021	7,800	135	1,050	793	257	20.65	(D)	(D)	21,682	(D)	(D)
2021-2022	6,000	33	200	115	85	18.85	(D)	(D)	3,769	(D)	(D)
2022-2023	5,900	192	1,130	842	288	13.08	(D)	(D)	14,784	(D)	(D)
United States											
Early, midseason, and Navel											
2020-2021	259,500	250	65,000	33,214	31,786	16.27	24.33	7.85	1,057,805	808,221	249,584
2021-2022	241,400	207	49,920	27,830	22,090	20.26	28.41	10.00	1,011,499	790,615	220,884
2022-2023	220,300	196	43,220	29,596	13,624	17.20	22.73	5.19	743,485	672,727	70,758
Valencia											
2020-2021	232,200	164	38,000	7,149	30,851	14.58	20.75	13.15	553,947	148,360	405,587
2021-2022	219,700	139	30,580	6,798	23,782	16.94	29.32	13.40	517,915	199,326	318,589
2022-2023	199,900	85	16,910	6,258	10,652	14.27	20.22	10.77	241,308	126,561	114,747
All											
2020-2021	491,700	209	103,000	40,363	62,637	15.65	23.70	10.46	1,611,752	956,581	655,171
2021-2022	461,100	175	80,500	34,628	45,872	19.00	28.59	11.76	1,529,414	989,941	539,473
2022-2023	420,200	143	60,130	35,854	24,276	16.38	22.29	7.64	984,793	799,288	185,505

(D) Withheld to avoid disclosing data for individual operations.

¹ Equivalent packinghouse-door returns.

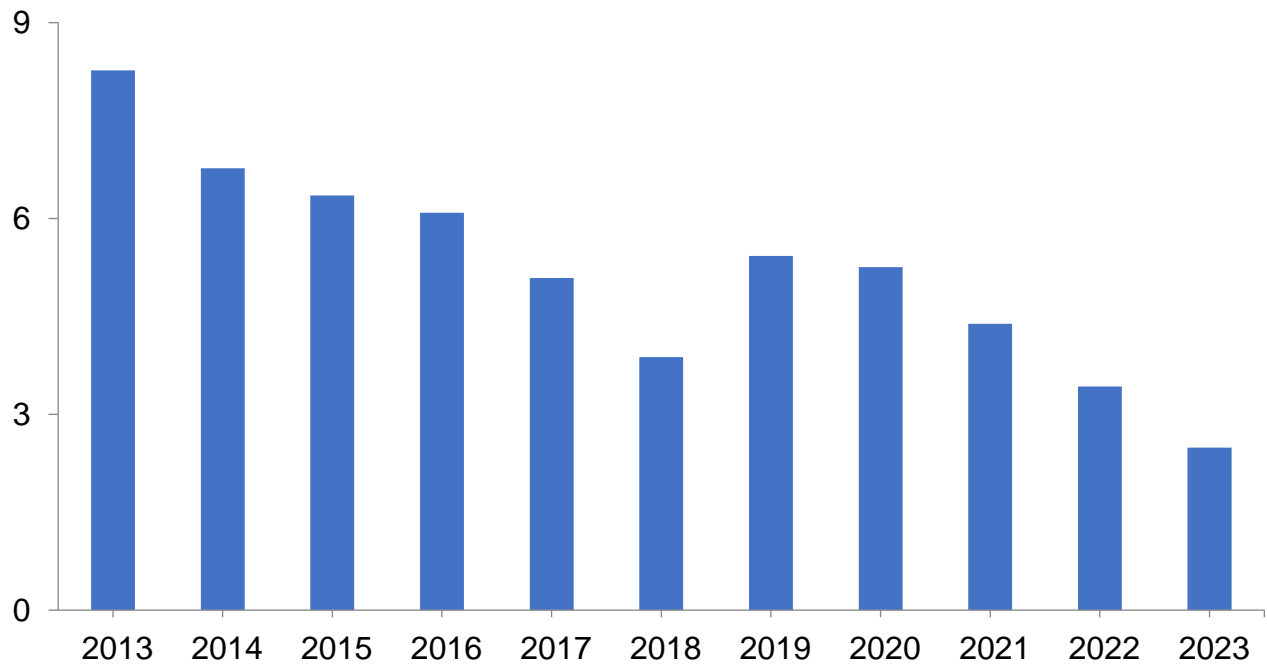
Bearing Acres of Oranges – United States

Thousand acres



Utilized Orange Production – United States

Million tons



Grapefruit Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2020-2021, 2021-2022, and 2022-2023

[See Statistical Methodology for net weight per box and price per box calculations]

State, type, and season	Bearing acreage	Yield per acre	Utilization of production			Price per box ¹			Value of production		
			Total	Fresh	Processed	All	Fresh	Processed	Total	Fresh	Processed
	(acres)	(boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(dollars)	(dollars)	(dollars)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
California ²											
2020-2021	8,900	472	4,200	3,600	600	27.09	(D)	(D)	113,802	(D)	(D)
2021-2022	9,100	450	4,100	1,700	2,400	13.02	(D)	(D)	53,360	(D)	(D)
2022-2023	9,000	444	4,000	2,800	1,200	17.91	(D)	(D)	71,624	(D)	(D)
Florida											
2020-2021	18,800	218	4,100	1,987	2,113	17.58	25.27	10.35	72,081	50,211	21,870
2021-2022	15,900	209	3,330	1,826	1,504	21.14	28.05	12.76	70,410	51,219	19,191
2022-2023	13,100	138	1,810	1,067	743	25.80	33.26	15.10	46,707	35,488	11,219
Texas											
2020-2021	15,000	160	2,400	1,450	950	19.08	(D)	(D)	45,789	(D)	(D)
2021-2022	12,000	142	1,700	830	870	19.97	(D)	(D)	33,945	(D)	(D)
2022-2023	10,500	214	2,250	1,277	973	22.93	(D)	(D)	51,590	(D)	(D)
United States ²											
2020-2021	42,700	251	10,700	7,037	3,663	21.65	29.53	6.52	231,672	207,772	23,900
2021-2022	37,000	247	9,130	4,356	4,774	17.27	31.00	4.75	157,715	135,044	22,671
2022-2023	32,600	247	8,060	5,144	2,916	21.08	29.98	5.39	169,921	154,205	15,716

(D) Withheld to avoid disclosing data for individual operations.

¹ Equivalent packinghouse-door returns.

² Includes pummelos in California.

Lemon, Tangerine and Mandarin Acreage, Yield, Utilization, Price, and Value – States and United States: 2020-2021, 2021-2022, and 2022-2023

[See Statistical Methodology for net weight per box and price per box calculations]

Crop, State, and season	Bearing acreage	Yield per acre	Utilization of production			Price per box ¹			Value of production		
			Total	Fresh	Processed	All	Fresh	Processed	Total	Fresh	Processed
	(acres)	(boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(dollars)	(dollars)	(dollars)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
Lemons											
Arizona											
2020-2021	7,000	107	750	588	162	27.91	(D)	(D)	20,931	(D)	(D)
2021-2022	6,700	187	1,250	849	401	25.21	(D)	(D)	31,517	(D)	(D)
2022-2023	6,400	219	1,400	974	426	22.80	(D)	(D)	31,909	(D)	(D)
California											
2020-2021	50,000	428	21,400	17,200	4,200	29.94	(D)	(D)	640,692	(D)	(D)
2021-2022	51,000	494	25,200	16,300	8,900	22.02	(D)	(D)	554,787	(D)	(D)
2022-2023	53,000	500	26,500	17,600	8,900	22.00	(D)	(D)	583,019	(D)	(D)
United States											
2020-2021	57,000	389	22,150	17,788	4,362	29.87	(D)	(D)	661,623	(D)	(D)
2021-2022	57,700	458	26,450	17,149	9,301	22.17	(D)	(D)	586,304	(D)	(D)
2022-2023	59,400	470	27,900	18,574	9,326	22.04	(D)	(D)	614,928	(D)	(D)
Tangerines and mandarins ²											
California											
2020-2021	67,000	430	28,800	19,300	9,500	28.75	(D)	(D)	827,905	(D)	(D)
2021-2022	68,000	257	17,500	12,500	5,000	38.94	(D)	(D)	681,500	(D)	(D)
2022-2023	69,000	344	23,700	16,500	7,200	33.24	(D)	(D)	787,866	(D)	(D)
Florida											
2020-2021	7,800	114	890	599	291	24.82	33.55	6.85	22,089	20,096	1,993
2021-2022	7,200	104	750	484	266	31.51	44.05	8.70	23,634	21,320	2,314
2022-2023	7,000	69	480	335	145	39.60	54.10	6.10	19,009	18,124	885
United States											
2020-2021	74,800	397	29,690	19,899	9,791	28.63	42.72	0.00	849,994	849,996	-2
2021-2022	75,200	243	18,250	12,984	5,266	38.64	54.30	0.01	705,134	705,070	64
2022-2023	76,000	318	24,180	16,835	7,345	33.37	46.96	2.21	806,875	790,654	16,221

(D) Withheld to avoid disclosing data for individual operations.

¹ Equivalent packinghouse-door returns.

² Includes tangelos.

Citrus Prices

Revised State and United States monthly average prices and equivalent returns, and marketing year average prices for the 2021-22 and 2022-23 citrus crops are shown on the following pages. Revised monthly prices refer to all fruit sold in a given month regardless of the crop year in which the fruit was harvested.

Marketing year average prices refer to the prices received by growers for the entire marketing season for any one crop year. The crop year 2022-23 as shown on all citrus tables in this publication refers to the crop which bloomed in 2022 and was marketed during the 2022-23 season. For example, the 2022-23 marketing year average price received by Florida growers for grapefruit refers to marketings from September 2022 through June 2023. In some years the season may vary a month or two, but a price was estimated only for those months with sufficient movement.

Monthly and marketing year average prices are weighted by box size at the United States level for oranges, grapefruit, and tangerines and mandarins. See page 22 for approximate net contents per box at the State level.

Citrus prices are based on weighted average F.O.B. packed prices received for fresh fruit and weighted average prices received at the processing plant door for processing fruit. Equivalent returns for fresh and processed fruits are calculated at the packinghouse-door level and on-tree level by deducting hauling, picking, sorting, grading, packing, cooling, marketing, and other costs from the two base prices. In some cases, this results in negative returns.

Orange Average Prices and Equivalent Returns by Season – United States: 2021-2022 and 2022-2023

[Includes California, Florida, and Texas]

Season and month	FOB packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Process	All	Fresh	Process
	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)
2021-2022							
September	32.80	15.51	22.27	(D)	12.49	19.33	(D)
October	36.30	21.03	25.48	(D)	18.00	22.48	(D)
November	36.60	21.24	25.84	4.91	18.21	22.84	1.79
December	36.30	15.01	25.54	9.44	11.95	22.57	6.35
January	37.50	15.57	26.89	9.72	12.51	23.91	6.62
February	39.30	18.43	28.64	10.03	15.37	25.66	6.89
March	39.10	17.54	27.95	10.39	14.47	24.97	7.25
April	39.70	17.95	29.11	10.77	14.87	26.14	7.62
May	41.90	20.86	31.32	9.29	17.80	28.35	6.14
June	44.00	24.69	33.44	(D)	21.66	30.46	(D)
July	41.90	22.40	31.27	(D)	19.36	28.31	(D)
August	42.50	22.05	31.77	(D)	19.04	28.83	(D)
2022-2023							
September	44.50	31.50	44.36	(D)	31.38	44.32	(D)
October	44.40	29.15	37.81	5.14	27.34	35.99	3.32
November	36.50	20.74	25.75	(D)	17.77	22.82	(D)
December	34.50	15.94	23.81	9.06	12.91	20.89	5.92
January	34.30	17.87	23.63	6.12	14.88	20.70	3.00
February	32.30	16.89	21.62	(D)	13.90	18.69	(D)
March	31.20	14.64	20.58	8.75	11.55	17.64	5.51
April	32.60	15.96	23.23	9.07	13.06	20.64	5.88
May	34.50	19.61	26.93	4.50	17.36	24.82	1.96
June	34.90	17.68	23.85	3.53	14.61	20.82	0.36
July	31.70	17.15	20.75	(D)	14.03	17.69	(D)

(D) Withheld to avoid disclosing data for individual operations.

Grapefruit Average Prices and Equivalent Returns by Season – United States: 2021-2022 and 2022-2023

[Includes pummelos in California. Includes California, Florida, and Texas]

Season and month	FOB packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Process	All	Fresh	Process
	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)
2021-2022							
September	(D)	29.30	(D)	(D)	26.59	(D)	(D)
October	(D)	28.49	(D)	(D)	25.56	(D)	(D)
November	47.20	22.04	35.18	(D)	19.02	32.62	(D)
December	43.90	19.16	31.90	5.00	16.22	29.37	1.61
January	43.20	18.04	31.23	7.14	15.12	28.78	3.84
February	41.50	15.65	29.20	7.67	12.47	26.58	4.16
March	40.10	13.86	28.02	6.28	10.59	25.26	2.73
April	42.00	19.61	33.05	2.78	16.82	30.61	-0.44
May	(D)	10.37	(D)	(D)	6.79	(D)	(D)
June	(D)	22.18	(D)	(D)	19.24	(D)	(D)
July	(D)	16.36	(D)	(D)	13.17	(D)	(D)
August	(D)	15.25	(D)	(D)	11.99	(D)	(D)
2022-2023							
September	(D)	16.43	(D)	(D)	13.17	(D)	(D)
October	(D)	18.14	(D)	(D)	14.58	(D)	(D)
November	46.80	30.13	35.46	8.03	27.42	32.99	4.35
December	44.50	25.27	33.43	7.03	22.66	31.03	3.96
January	44.00	23.61	32.97	7.92	20.98	30.63	4.80
February	42.00	20.12	31.21	7.64	17.55	28.88	4.79
March	40.90	19.63	30.74	4.74	17.24	28.44	2.23
April	(D)	18.15	(D)	(D)	15.28	(D)	(D)
May	(D)	20.28	(D)	(D)	17.30	(D)	(D)
June	(D)	17.18	(D)	(D)	14.04	(D)	(D)
July	(D)	15.17	(D)	(D)	11.96	(D)	(D)

(D) Withheld to avoid disclosing data for individual operations.

Lemon Average Prices and Equivalent Returns by Season – United States: 2021-2022 and 2022-2023

[Includes Arizona and California]

Season and month	FOB packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Process	All	Fresh	Process
	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)
2021-2022							
August	52.40	32.44	41.76	(D)	25.87	34.84	(D)
September	51.00	35.28	40.36	(D)	28.56	33.44	(D)
October	48.20	32.42	37.55	(D)	25.72	30.63	(D)
November	45.50	29.00	34.90	(D)	22.35	27.98	(D)
December	46.20	26.32	35.59	(D)	19.81	28.67	(D)
January	44.10	24.64	33.44	(D)	18.13	26.52	(D)
February	44.30	19.26	33.68	(D)	13.00	26.76	(D)
March	43.10	20.46	32.45	(D)	14.09	25.53	(D)
April	38.70	19.06	28.06	(D)	12.63	21.14	(D)
May	39.40	18.18	28.76	(D)	11.84	21.84	(D)
June	40.10	17.90	29.46	(D)	11.60	22.54	(D)
July	40.30	15.27	29.66	(D)	9.06	22.74	(D)
2022-2023							
August	40.30	22.13	29.23	(D)	15.30	22.03	(D)
September	41.60	23.98	30.53	(D)	17.12	23.33	(D)
October	46.90	31.52	35.84	(D)	24.51	28.64	(D)
November	46.00	29.31	34.92	(D)	22.36	27.72	(D)
December	42.70	24.39	31.63	(D)	17.55	24.43	(D)
January	42.30	22.73	31.25	(D)	15.97	24.05	(D)
February	40.50	16.82	29.46	(D)	10.30	22.26	(D)
March	39.60	17.25	28.53	(D)	10.67	21.33	(D)
April	42.10	20.42	31.03	(D)	13.75	23.83	(D)
May	42.90	18.71	31.83	(D)	12.15	24.63	(D)
June	45.50	19.78	34.43	(D)	13.23	27.23	(D)
July	46.80	27.92	35.73	(D)	21.07	28.53	(D)

(D) Withheld to avoid disclosing data for individual operations.

Marketing Year Average Prices Received for Oranges – States and United States: 2021-2022 and 2022-2023

State, type, and utilization	2021-2022			2022-2023		
	FOB packed	Equiv. PHD	Equiv. on-tree	FOB packed	Equiv. PHD	Equiv. on-tree
	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)
California						
Navel and miscellaneous	(NA)	24.25	21.28	(NA)	18.23	15.12
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
Valencia	(NA)	24.18	21.19	(NA)	16.05	12.94
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
All	(NA)	24.24	21.26	(NA)	17.89	14.78
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
Florida						
Non-Valencia	(NA)	13.38	9.65	(NA)	11.92	8.15
Fresh	32.30	18.37	14.87	35.80	21.84	18.34
Processing	(NA)	12.99	9.24	(NA)	10.56	6.76
Valencia	(NA)	14.53	10.74	(NA)	12.85	9.05
Fresh	33.70	19.76	16.01	34.40	20.41	16.66
Processing	(NA)	14.23	10.43	(NA)	12.10	8.30
All	(NA)	14.03	10.26	(NA)	12.49	8.70
Fresh	33.00	19.05	15.43	35.00	21.07	17.43
Processing	(NA)	13.69	9.91	(NA)	11.51	7.71
Texas						
Early and midseason	(NA)	19.56	17.81	(NA)	8.84	7.04
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
Valencia	(NA)	14.80	13.03	(NA)	17.41	15.63
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
All	(NA)	18.85	17.10	(NA)	13.08	11.30
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
United States						
Early, midseason, and Navel	(NA)	20.26	17.02	(NA)	17.20	14.02
Fresh	39.10	28.41	25.45	33.80	22.73	19.68
Processing	(NA)	10.00	6.40	(NA)	5.19	1.73
Valencia	(NA)	16.94	13.34	(NA)	14.27	10.81
Fresh	36.20	29.32	26.23	36.30	20.22	17.14
Processing	(NA)	13.40	9.66	(NA)	10.77	7.09
All	(NA)	19.00	15.62	(NA)	16.38	13.12
Fresh	38.80	28.59	25.60	34.10	22.29	19.23
Processing	(NA)	11.76	8.09	(NA)	7.64	4.08

(D) Withheld to avoid disclosing data for individual operations.
(NA) Not available.

Marketing Year Average Prices Received for Grapefruit – States and United States: 2021-2022 and 2022-2023

State, type, and utilization	2021-2022			2022-2023		
	FOB packed	Equiv. PHD	Equiv. on-tree	FOB packed	Equiv. PHD	Equiv. on-tree
	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)
California ¹	(NA)	13.02	9.59	(NA)	17.91	14.79
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
Florida	(NA)	21.14	17.64	(NA)	25.80	22.25
Fresh	40.90	28.05	25.05	46.10	33.26	30.26
Processing	(NA)	12.76	8.65	(NA)	15.10	10.75
Texas	(NA)	19.97	18.43	(NA)	22.93	21.38
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
United States ¹	(NA)	17.27	14.18	(NA)	21.08	18.30
Fresh	41.70	31.00	28.44	40.30	29.98	27.51
Processing	(NA)	4.75	1.16	(NA)	5.39	2.07

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

¹ Includes pummelos.

Marketing Year Average Prices Received for Lemons, Tangerines and Mandarins – States and United States: 2021-2022 and 2022-2023

Crop, State, and utilization	2021-2022			2022-2023		
	FOB packed	Equiv. PHD	Equiv. on-tree	FOB packed	Equiv. PHD	Equiv. on-tree
	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)	(dollars per box)
Lemons						
Arizona	(NA)	25.21	18.75	(NA)	22.80	16.05
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
California	(NA)	22.02	15.60	(NA)	22.00	15.30
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
United States	(NA)	22.17	15.74	(NA)	22.04	15.33
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
Tangerines and mandarins ¹						
California	(NA)	38.94	35.25	(NA)	33.24	29.37
Fresh	(D)	(D)	(D)	(D)	(D)	(D)
Processing	(NA)	(D)	(D)	(NA)	(D)	(D)
Florida	(NA)	31.51	25.58	(NA)	39.60	33.63
Fresh	60.00	44.05	38.10	70.10	54.10	48.10
Processing	(NA)	8.70	2.80	(NA)	6.10	0.20
United States	(NA)	38.64	34.85	(NA)	33.37	29.45
Fresh	64.04	54.30	51.03	57.36	46.96	43.61
Processing	(NA)	0.01	-5.03	(NA)	2.21	-3.01

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

¹ Includes tangelos.

Terms and Definitions

Citrus crop year: Begins with the bloom of the first year listed and ends with the year harvest is completed.

Equivalent on-tree (EOT) price: Represents the PHD price minus picking and hauling costs.

Freight on board (FOB) price: A commercial price term that signifies a contractual agreement between a buyer and a seller to have the subject of a sale delivered to a designated place, usually either the "place of shipment" or the "place of destination," without expense to the buyer. This term indicates delivery will be made on board or into a carrier by the shipper without charge. The abbreviation FOB is usually followed by a shipping point or destination. Reports from fresh fruit sales organizations and from citrus packers provide data for an average FOB price.

Packinghouse door (PHD) price: The packinghouse door is generally referred to as the point of first sale. PHD prices are calculated by subtracting costs incurred through the packinghouse from the FOB price. These costs may include sorting, grading, packing, cooling, etc.

Marketing Year Average Prices and Value of Production

State level marketing year average (MYA), or price per box, for fresh and processed sales are the weighted average of monthly sales that occur during a crop's marketing season, adjusted to the packinghouse-door level. The "all" sales MYA price is derived by dividing the "all" sales value by the "all" sales boxes. MYA prices at the United States level for commodities with different State box weights are computed as follows:

$$\text{Fresh Market MYAP} = \frac{\sum(\text{State Fresh Value} * \text{State Box Weight})}{\sum(\text{State Fresh Boxes} * \text{State Box Weight})}$$

$$\text{Process Market MYAP} = \frac{\sum(\text{State Process Value} * \text{State Box Weight})}{\sum(\text{State Process Boxes} * \text{State Box Weight})}$$

$$\text{"All" Sales MYAP} = \frac{\sum(\text{State All Value} * \text{State Box Weight})}{\sum(\text{State All Boxes} * \text{State Box Weight})}$$

For commodities with the same box weights across all States, the United States MYA prices are derived by dividing the sum of States' values by the sum of States' boxes.

United States value of production for a given commodity is the sum of the States' values for that commodity. The State level value of production for each commodity is computed as follows:

$$\text{Fresh Market Value} = \text{Fresh Market MYAP} * \text{Fresh Market Boxes}$$

$$\text{Process Market Value} = \text{Process Market MYAP} * \text{Process Market Boxes}$$

$$\text{"All" Sales Value} = \text{Fresh Market Value} + \text{Process Market Value}$$

Citrus prices are based on weighted average FOB packed prices received for fresh fruit and weighted average prices received at the processing plant door for processing fruit. Equivalent returns for fresh and processed fruit are calculated at the packinghouse-door level by deducting sorting, grading, packing, cooling, marketing, and other costs from the two base prices. In some cases, this results in negative returns.

Box Weights by Crop - States: 2020-2021, 2021-2022, and 2022-2023

State	Crop year		
	2020-2021	2021-2022	2022-2023
	(pounds)	(pounds)	(pounds)
Oranges			
California	80	80	80
Florida	90	90	90
Texas	85	85	85
Grapefruit			
California ¹	80	80	80
Florida	85	85	85
Texas	80	80	80
Lemons			
Arizona	80	80	80
California	80	80	80
Tangerines and mandarins ²			
California	80	80	80
Florida	95	95	95

¹ Includes pummelos.

² Includes tangelos.

Marketing Seasons

Oranges, Early, midseason, and Navel:

California.....	October 1 to June 15
Florida	October 1 to March 31
Texas	October 1 to April 30

Oranges, Valencia:

California.....	March 15 to October 31
Florida	January 1 to July 31
Texas	January 15 to May 31

Grapefruit:

California (including pummelos)	November 1 to October 31
Florida	September 15 to June 30
Texas	October 1 to May 31

Lemons:

Arizona	September 1 to February 28
California.....	August 1 to July 31

Tangerines and mandarins (including tangelos):

California.....	October 1 to May 15
Florida	September 15 to April 30

Statistical Methodology

Survey Procedures: Grower and objective measurement surveys are used to collect acreage, production, yield, price, and value data. Grower surveys are conducted by mail, telephone, and personal interview. Objective measurement data is collected in citrus groves.

Estimating Procedures: Information obtained from the citrus grower and objective measurement surveys along with administrative data is used to establish estimates of bearing acres, production, yield, price, and value. These estimates are reviewed for errors, reasonableness, and consistency with historical estimates.

Revision Policy: Current season estimates are open for revision in April and August.

Reliability: The citrus grower surveys are subject to non-sampling errors such as omission, duplication, and mistakes in reporting, recording, and processing the data. These errors cannot be measured directly, but are minimized through rigid quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov

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Deonne Holiday – Almonds, Carrots, Coffee, Cranberries, Garlic, Onions, Plums, Prunes, Tobacco.....	(202) 720-4288
Bret Holliman – Apricots, Chickpeas, Nectarines, Peaches, Snap Beans, Sweet Corn, Tomatoes.....	(202) 720-7235
Robert Little – Blueberries, Cabbage, Dry Beans, Lettuce, Macadamia, Maple Syrup, Pears, Raspberries, Spinach	(202) 720-3250
Krishna Rizal – Artichokes, Asparagus, Celery, Grapefruit, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges, Pistachios	(202) 720-5412
Chris Singh – Apples, Cucumbers, Hazelnuts, Potatoes, Pumpkins, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes	(202) 720-4285
Antonio Torres – Cantaloupes, Dry Edible Peas, Grapes, Green Peas, Honeydews, Lentils, Sweet Cherries, Tart Cherries, Walnuts, Watermelons	(202) 720-2157
Chris Wallace – Avocados, Bell Peppers, Broccoli, Cauliflower, Chile Peppers, Dates, Floriculture, Hops, Papayas, Pecans.....	(202) 720-4215

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