



United States  
Department of  
Agriculture

National  
Agricultural  
Statistics  
Service



ISSN: 1948-9048

# Citrus Fruits 2024 Summary

## August 2024

# USDA





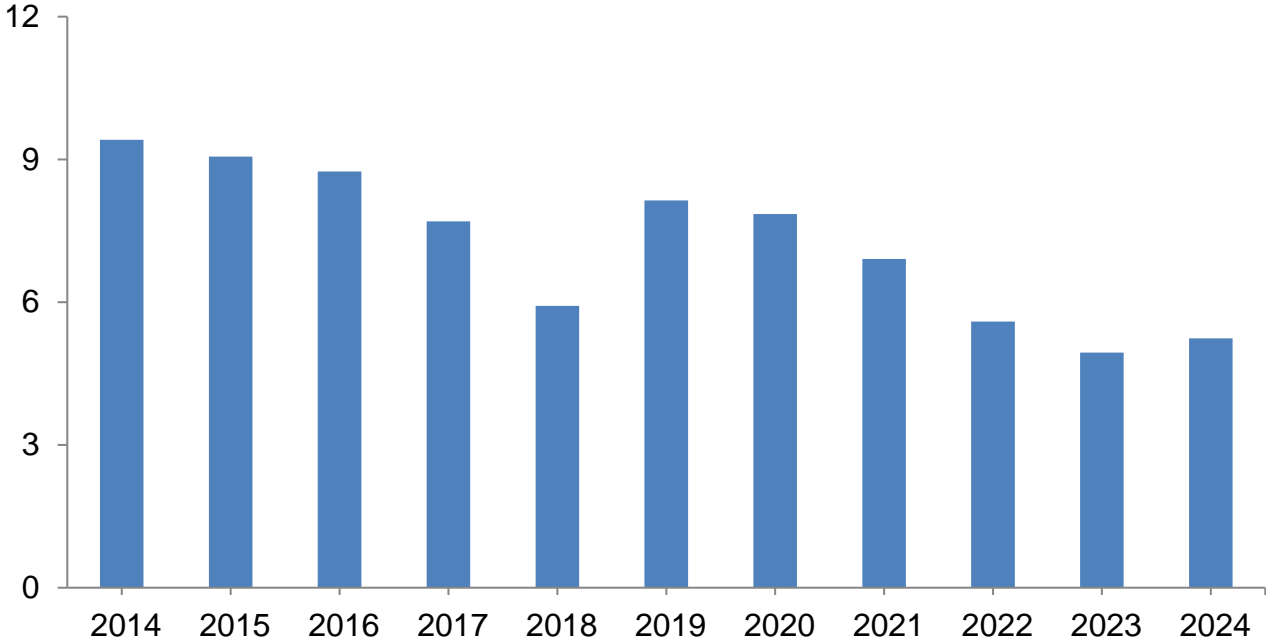
## Contents

Utilized Citrus Production – United States Chart .....	5
Citrus Value of Production – United States Chart .....	5
Citrus Narrative.....	6
Citrus Acreage, Production, Utilization, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024 .....	7
Citrus Acreage, Production, Utilization, and Value by Crop – United States: 2021-2022, 2022-2023, and 2023-2024 .....	8
Orange Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2021-2022, 2022-2023, and 2023-2024 .....	9
Bearing Acres of Oranges – United States Chart.....	11
Utilized Orange Production – United States Chart .....	11
Grapefruit Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2021-2022, 2022-2023, and 2023-2024 .....	12
Lemon, Tangerine and Mandarin Acreage, Yield, Utilization, Price, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024.....	13
Citrus Prices Narrative.....	14
Orange Average Prices and Equivalent Returns by Season – United States: 2022-2023 and 2023-2024.....	15
Grapefruit Average Prices and Equivalent Returns by Season – United States: 2022-2023 and 2023-2024 .....	16
Lemon Average Prices and Equivalent Returns by Season – United States: 2022-2023 and 2023-2024.....	17
Marketing Year Average Prices Received for Oranges – States and United States: 2022-2023 and 2023-2024.....	18
Marketing Year Average Prices Received for Grapefruit – States and United States: 2022-2023 and 2023-2024.....	19
Marketing Year Average Prices Received for Lemons, Tangerines and Mandarins – States and United States: 2022-2023 and 2023-2024 .....	20
Terms and Definitions.....	21
Marketing Year Average Prices and Value of Production.....	21
Box Weights by Crop - States: 2021-2022, 2022-2023, and 2023-2024.....	22
Marketing Seasons .....	23
Statistical Methodology .....	23
Information Contacts .....	24



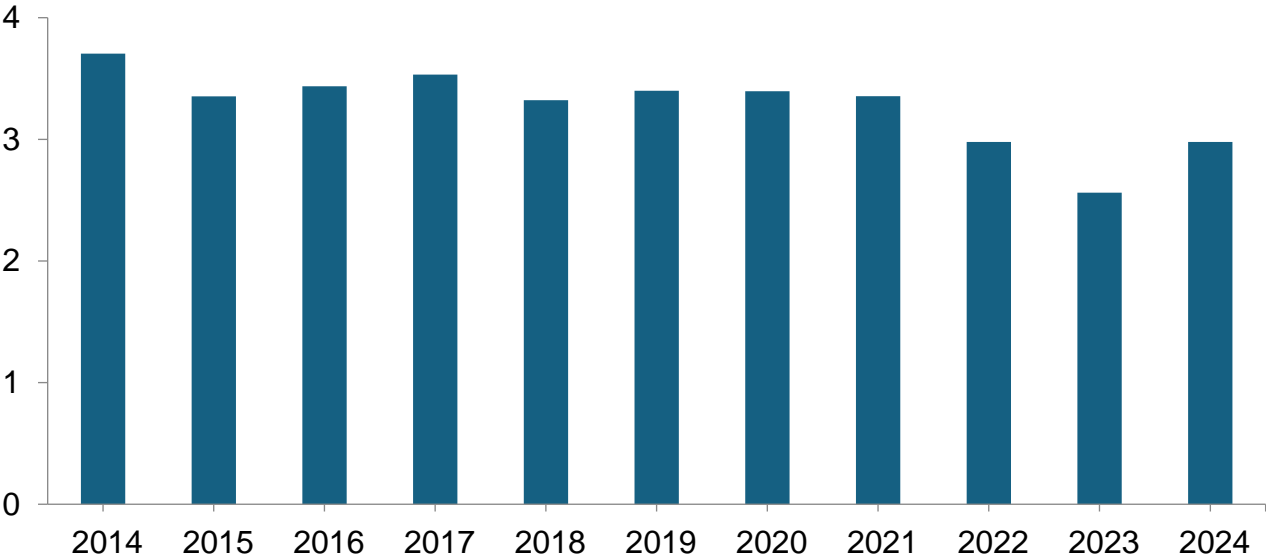
# Utilized Citrus Production – United States

Million tons



# Citrus Value of Production – United States

Billion dollars  
(PHD equivalents)



## **Citrus Utilized Production Up 6 Percent, Value Up 16 Percent**

Citrus utilized production for the 2023-24 season totaled 5.24 million tons, up 6 percent from the 2022-23 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 5 percent from the 2022-23 season. California's all orange production, at 47.5 million boxes, is 7 percent higher than the previous season. Tangerine and mandarin production in California is up 17 percent from last season. California's lemon production was decreased 5 percent from the previous season. Grapefruit production is down 4 percent from the 2022-23 season.

Florida's orange production, at 18.0 million boxes, is up 14 percent from the previous season. Grapefruit utilization in Florida, at 1.79 million boxes, is down 1 percent from last season's utilization. Florida's total citrus utilization increased 11 percent from the previous season. Bearing citrus acreage, at 249,800 acres, is 48,600 acres below the 2022-23 season.

Utilized production of citrus in Texas is up 6 percent from the 2022-23 season. Orange production is up 4 percent from the previous season and grapefruit production increased 7 percent. Arizona's lemon production is down 32 percent.

The value of the 2023-24 United States citrus crop increased 16 percent from last season, to \$2.98 billion (packinghouse-door equivalent). Orange value of production increased 2 percent from last season and grapefruit value is up 4 percent. Tangerine and mandarin value of production is 34 percent higher than last season and lemon value of production is up 22 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 2023-24 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 2023-24 season will be published in the April 2025 Crop Production.

**Citrus Acreage, Production, Utilization, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024**

State and season	Bearing acreage	Production <sup>1</sup>			Value of production <sup>2</sup>
		Total	Utilization		
			Fresh	Processed	
	(acres)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 dollars)
<b>Arizona</b>					
2021-2022 .....	4,300	50	34	16	31,517
2022-2023 .....	3,900	56	39	17	31,909
2023-2024 .....	3,100	38	31	7	28,977
<b>California</b>					
2021-2022 .....	264,500	3,436	2,496	940	2,237,396
2022-2023 .....	266,100	3,936	2,784	1,152	2,179,376
2023-2024 .....	266,200	4,152	2,760	1,392	2,558,099
<b>Florida</b>					
2021-2022 .....	340,200	2,032	219	1,813	671,940
2022-2023 .....	298,400	812	132	680	285,297
2023-2024 .....	249,800	905	146	760	307,567
<b>Texas</b>					
2021-2022 .....	16,700	76	38	38	37,714
2022-2023 .....	15,100	138	85	52	65,359
2023-2024 .....	13,400	146	83	63	84,684
<b>United States</b>					
2021-2022 .....	625,700	5,594	2,787	2,807	2,978,567
2022-2023 .....	583,500	4,942	3,040	1,901	2,561,941
2023-2024 .....	532,500	5,241	3,020	2,222	2,979,327

<sup>1</sup> Some totals may not add due to rounding.

<sup>2</sup> Packinghouse-door equivalents.

**Citrus Acreage, Production, Utilization, and Value by Crop – United States: 2021-2022, 2022-2023, and 2023-2024**

Crop and season	Bearing acreage	Production <sup>1</sup>			Value of production <sup>2</sup>
		Total	Utilization		
			Fresh	Processed	
	(acres)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 dollars)
<b>Oranges</b>					
Early, midseason, and Navel					
2021-2022 .....	240,100	2,088	1,120	968	1,011,499
2022-2023 .....	220,300	1,741	1,156	584	738,174
2023-2024 .....	197,800	1,861	1,019	842	710,507
Valencia					
2021-2022 .....	220,700	1,338	279	1,059	517,915
2022-2023 .....	200,600	803	302	501	307,407
2023-2024 .....	174,300	897	303	594	356,062
All oranges					
2021-2022 .....	460,800	3,426	1,399	2,027	1,529,414
2022-2023 .....	420,900	2,544	1,458	1,085	1,045,581
2023-2024 .....	372,100	2,758	1,322	1,436	1,066,569
<b>Grapefruit <sup>3</sup></b>					
2021-2022 .....	35,400	374	179	195	157,715
2022-2023 .....	31,700	347	219	128	173,375
2023-2024 .....	29,600	344	211	133	179,751
<b>Lemons</b>					
2021-2022 .....	56,300	1,058	686	372	586,304
2022-2023 .....	56,900	1,088	699	389	571,381
2023-2024 .....	56,100	1,022	739	283	698,343
<b>Tangerines and mandarins <sup>4</sup></b>					
2021-2022 .....	73,200	736	523	213	705,134
2022-2023 .....	74,000	963	664	299	771,604
2023-2024 .....	74,700	1,117	748	370	1,034,664

<sup>1</sup> Some totals may not add due to rounding.

<sup>2</sup> Packinghouse-door equivalents.

<sup>3</sup> Includes pummelos in California.

<sup>4</sup> Includes tangelos.



**Orange Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2021-2022, 2022-2023, and 2023-2024**

[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 <sup>1</sup>			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)
<b>California</b>											
Navel and miscellaneous											
2021-2022 .....	111,000	284	31,500	26,400	5,100	24.25	(D)	(D)	763,929	(D)	(D)
2022-2023 .....	111,000	325	36,000	27,600	8,400	18.07	(D)	(D)	650,592	(D)	(D)
2023-2024 .....	110,000	347	38,200	24,000	14,200	16.10	(D)	(D)	614,912	(D)	(D)
Valencia											
2021-2022 .....	26,000	292	7,600	5,500	2,100	24.19	(D)	(D)	183,820	(D)	(D)
2022-2023 .....	25,500	338	8,600	6,200	2,400	18.24	(D)	(D)	156,898	(D)	(D)
2023-2024 .....	25,500	365	9,300	6,300	3,000	20.51	(D)	(D)	190,761	(D)	(D)
All											
2021-2022 .....	137,000	285	39,100	31,900	7,200	24.24	(D)	(D)	947,749	(D)	(D)
2022-2023 .....	136,500	327	44,600	33,800	10,800	18.11	(D)	(D)	807,490	(D)	(D)
2023-2024 .....	135,500	351	47,500	30,300	17,200	16.96	(D)	(D)	805,673	(D)	(D)
<b>Florida</b>											
Non-Valencia											
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	13.42	19.64	12.57	82,544	14,553	67,991
2023-2024 .....	85,000	80	6,760	798	5,962	12.38	22.13	11.07	83,659	17,660	65,999
Valencia											
2021-2022 .....	191,700	120	22,950	1,279	21,671	14.54	19.76	14.23	333,651	25,273	308,378
2022-2023 .....	172,600	56	9,670	836	8,834	14.56	18.22	14.21	140,763	15,232	125,531
2023-2024 .....	146,300	77	11,200	954	10,246	14.01	18.55	13.59	156,940	17,697	139,243
All											
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	15,820	1,577	14,243	14.12	18.89	13.59	223,307	29,785	193,522
2023-2024 .....	231,300	78	17,960	1,752	16,208	13.40	20.18	12.66	240,599	35,357	205,242

See footnote(s) at end of table.

--continued

**Orange Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2021-2022, 2022-2023, and 2023-2024 (continued)**

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

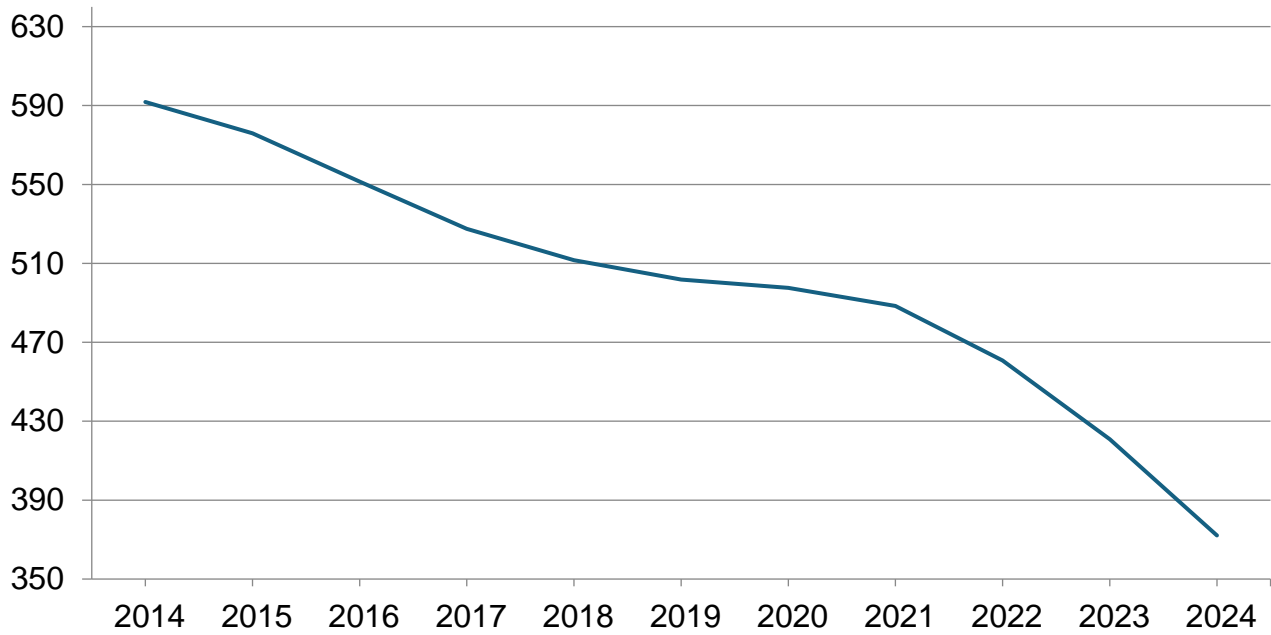
State, type, and season	Bearing acreage	Yield per acre	Utilization of production			Price per box <sup>1</sup>			Value of production		
			Total	Fresh	Processed	All	Fresh	Processed	Total	Fresh	Processed
	(acres)	(boxes)	(1,000 boxes)	(1,000 boxes)	(1,000 boxes)	(dollars)	(dollars)	(dollars)	(1,000 dollars)	(1,000 dollars)	(1,000 dollars)
<b>Texas</b>											
Early and midseason											
2021-2022 .....	3,700	46	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)
2023-2024 .....	2,800	246	690	545	145	17.30	(D)	(D)	11,936	(D)	(D)
Valencia											
2021-2022 .....	3,000	10	30	19	11	14.80	(D)	(D)	444	(D)	(D)
2022-2023 .....	2,500	224	560	387	173	17.40	(D)	(D)	9,746	(D)	(D)
2023-2024 .....	2,500	196	490	194	296	17.06	(D)	(D)	8,361	(D)	(D)
All											
2021-2022 .....	6,700	30	200	115	85	18.85	(D)	(D)	3,769	(D)	(D)
2022-2023 .....	6,100	185	1,130	842	288	13.08	(D)	(D)	14,784	(D)	(D)
2023-2024 .....	5,300	223	1,180	739	441	17.20	(D)	(D)	20,297	(D)	(D)
<b>United States</b>											
Early, midseason, and Navel											
2021-2022 .....	240,100	208	49,920	27,830	22,090	20.26	28.41	10.00	1,011,499	790,615	220,884
2022-2023 .....	220,300	194	42,720	28,796	13,924	17.28	22.78	5.90	738,174	656,049	82,125
2023-2024 .....	197,800	231	45,650	25,343	20,307	15.56	22.41	7.02	710,507	568,052	142,455
Valencia											
2021-2022 .....	220,700	139	30,580	6,798	23,782	16.94	29.32	13.40	517,915	199,326	318,589
2022-2023 .....	200,600	94	18,830	7,423	11,407	16.33	22.85	12.08	307,407	169,584	137,823
2023-2024 .....	174,300	120	20,990	7,448	13,542	16.96	26.13	11.92	356,062	194,635	161,427
All											
2021-2022 .....	460,800	175	80,500	34,628	45,872	19.00	28.59	11.76	1,529,414	989,941	539,473
2022-2023 .....	420,900	146	61,550	36,219	25,331	16.99	22.80	8.68	1,045,581	825,633	219,948
2023-2024 .....	372,100	179	66,640	32,791	33,849	16.00	23.26	8.97	1,066,569	762,687	303,882

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

<sup>1</sup> Equivalent packinghouse-door returns.

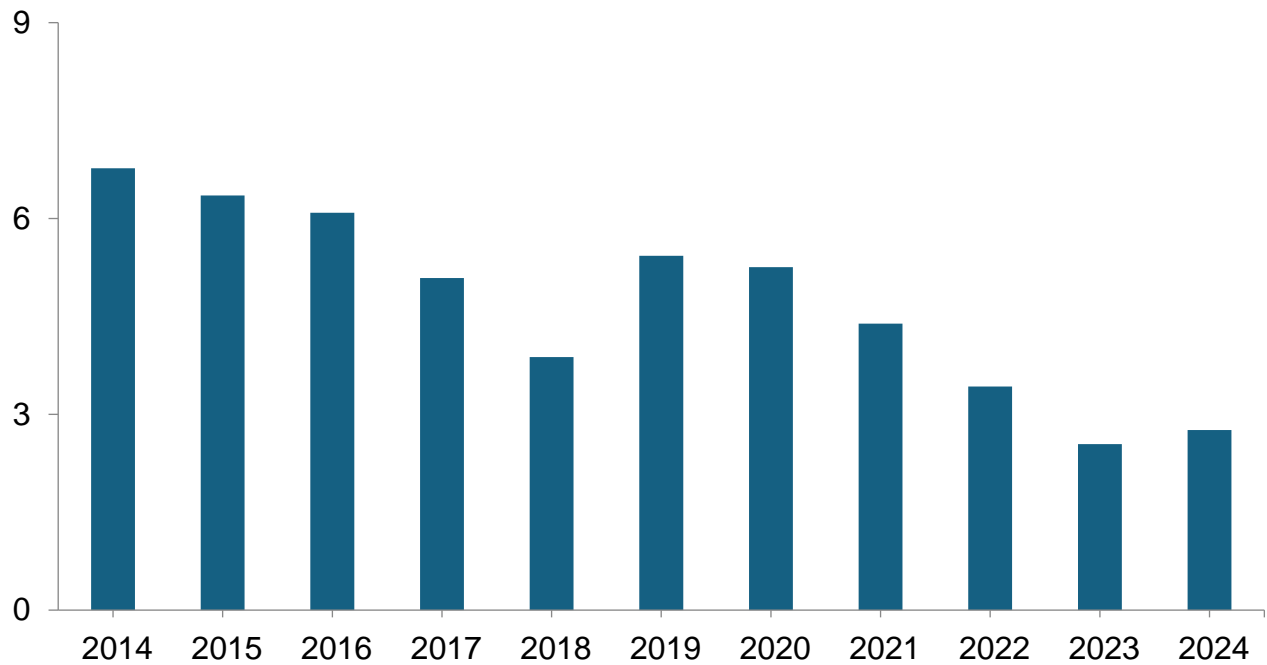
## Bearing Acres of Oranges – United States

Thousand acres



## Utilized Orange Production – United States

Million tons



**Grapefruit Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2021-2022, 2022-2023, and 2023-2024**

[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 <sup>1</sup>			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)
<b>California</b> <sup>2</sup>											
2021-2022 .....	9,500	432	4,100	1,700	2,400	13.01	(D)	(D)	53,360	(D)	(D)
2022-2023 .....	9,600	469	4,500	3,100	1,400	17.62	(D)	(D)	79,309	(D)	(D)
2023-2024 .....	9,700	443	4,300	2,700	1,600	16.39	(D)	(D)	70,489	(D)	(D)
<b>Florida</b>											
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	24.03	30.51	14.72	43,491	32,554	10,937
2023-2024 .....	11,800	152	1,790	1,201	589	25.07	29.93	15.16	44,875	35,946	8,929
<b>Texas</b>											
2021-2022 .....	10,000	170	1,700	830	870	19.97	(D)	(D)	33,945	(D)	(D)
2022-2023 .....	9,000	250	2,250	1,250	1,000	22.48	(D)	(D)	50,575	(D)	(D)
2023-2024 .....	8,100	296	2,400	1,300	1,100	26.83	(D)	(D)	64,387	(D)	(D)
<b>United States</b> <sup>2</sup>											
2021-2022 .....	35,400	258	9,130	4,356	4,774	17.27	31.00	4.75	157,715	135,044	22,671
2022-2023 .....	31,700	270	8,560	5,417	3,143	20.25	29.04	5.11	173,375	157,324	16,051
2023-2024 .....	29,600	287	8,490	5,201	3,289	21.17	31.25	5.23	179,751	162,550	17,201

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

<sup>1</sup> Equivalent packinghouse-door returns.

<sup>2</sup> Includes pummelos in California.

## Lemon, Tangerine and Mandarin Acreage, Yield, Utilization, Price, and Value – States and United States: 2021-2022, 2022-2023, and 2023-2024

[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 <sup>1</sup>			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)
<b>Lemons</b>											
Arizona											
2021-2022 .....	4,300	290	1,250	849	401	25.21	(D)	(D)	31,517	(D)	(D)
2022-2023 .....	3,900	357	1,400	974	426	22.79	(D)	(D)	31,909	(D)	(D)
2023-2024 .....	3,100	299	950	770	180	30.50	(D)	(D)	28,977	(D)	(D)
California											
2021-2022 .....	52,000	485	25,200	16,300	8,900	22.02	(D)	(D)	554,787	(D)	(D)
2022-2023 .....	53,000	487	25,800	16,500	9,300	20.91	(D)	(D)	539,472	(D)	(D)
2023-2024 .....	53,000	464	24,600	17,700	6,900	27.21	(D)	(D)	669,366	(D)	(D)
United States											
2021-2022 .....	56,300	470	26,450	17,149	9,301	22.17	(D)	(D)	586,304	(D)	(D)
2022-2023 .....	56,900	478	27,200	17,474	9,726	21.01	(D)	(D)	571,381	(D)	(D)
2023-2024 .....	56,100	455	25,550	18,470	7,080	27.33	(D)	(D)	698,343	(D)	(D)
<b>Tangerines and mandarins <sup>2</sup></b>											
California											
2021-2022 .....	66,000	265	17,500	12,500	5,000	38.94	(D)	(D)	681,500	(D)	(D)
2022-2023 .....	67,000	351	23,500	16,200	7,300	32.05	(D)	(D)	753,105	(D)	(D)
2023-2024 .....	68,000	403	27,400	18,300	9,100	36.96	(D)	(D)	1,012,571	(D)	(D)
Florida											
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	38.54	51.65	8.25	18,499	17,303	1,196
2023-2024 .....	6,700	67	450	329	121	49.10	64.45	7.35	22,093	21,204	889
United States											
2021-2022 .....	73,200	249	18,250	12,984	5,266	38.64	54.30	0.01	705,134	705,070	64
2022-2023 .....	74,000	324	23,980	16,535	7,445	32.18	45.55	2.48	771,604	753,107	18,497
2023-2024 .....	74,700	373	27,850	18,629	9,221	37.15	52.23	6.69	1,034,664	972,987	61,677

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

<sup>1</sup> Equivalent packinghouse-door returns.

<sup>2</sup> Includes tangelos.

## Citrus Prices

Revised State and United States monthly average prices and equivalent returns, and marketing year average prices for the 2022-23 and 2023-24 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 2023-24 as shown on all citrus tables in this publication refers to the crop which bloomed in 2023 and was marketed during the 2023-24 season. For example, the 2023-24 marketing year average price received by Florida growers for grapefruit refers to marketings from September 2023 through June 2024. 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: 2022-2023 and 2023-2024

[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)
<b>2022-2023</b>							
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 .....	31.30	14.65	20.60	8.73	11.56	17.67	5.50
April .....	32.60	15.98	23.26	9.07	13.08	20.67	5.88
May .....	34.50	19.61	26.93	4.50	17.37	24.83	1.96
June .....	35.00	17.72	23.93	3.51	14.67	20.92	0.37
July .....	31.70	17.15	20.75	(D)	14.03	17.69	(D)
August .....	33.60	17.19	22.65	(D)	14.06	19.59	(D)
<b>2023-2024</b>							
September .....	36.20	19.33	25.03	(D)	16.15	21.91	(D)
October .....	39.30	20.46	27.33	(D)	17.25	24.24	(D)
November .....	40.00	23.53	28.73	(D)	20.40	25.66	(D)
December .....	37.20	13.37	25.36	10.62	9.74	22.38	6.85
January .....	34.10	14.18	22.14	9.99	10.77	19.18	6.34
February .....	38.60	17.86	26.54	11.40	14.57	23.49	7.93
March .....	33.90	16.83	22.18	15.30	13.25	18.99	11.61
April .....	34.30	13.88	22.30	12.27	10.26	19.05	8.57
May .....	34.70	15.05	23.08	(D)	11.68	19.88	(D)
June .....	34.10	17.69	22.65	(D)	14.45	19.49	(D)
July .....	41.40	24.06	30.25	(D)	20.82	27.13	(D)

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

## Grapefruit Average Prices and Equivalent Returns by Season – United States: 2022-2023 and 2023-2024

[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)
<b>2022-2023</b>							
September .....	(D)	16.43	(D)	(D)	13.17	(D)	(D)
October .....	(D)	17.28	(D)	(D)	13.74	(D)	(D)
November .....	46.80	26.97	34.31	5.77	24.21	31.82	2.23
December .....	46.10	24.29	33.44	7.10	21.78	31.05	4.36
January .....	45.30	22.66	32.89	7.75	20.17	30.58	5.02
February .....	45.30	18.73	32.67	7.05	16.32	30.42	4.51
March .....	43.50	18.25	32.20	4.44	15.92	29.99	2.00
April .....	(D)	17.05	(D)	(D)	14.14	(D)	(D)
May .....	(D)	19.78	(D)	(D)	16.77	(D)	(D)
June .....	(D)	19.25	(D)	(D)	16.26	(D)	(D)
July .....	(D)	17.43	(D)	(D)	14.39	(D)	(D)
August .....	(D)	14.97	(D)	(D)	11.80	(D)	(D)
<b>2023-2024</b>							
September .....	(D)	19.21	(D)	(D)	16.04	(D)	(D)
October .....	48.00	28.02	34.86	5.14	25.03	32.15	1.17
November .....	53.60	34.28	40.14	9.36	31.71	37.67	6.35
December .....	54.10	30.13	40.87	8.03	27.85	38.47	5.99
January .....	52.10	25.89	39.23	6.68	23.61	36.94	4.41
February .....	47.60	21.37	34.67	6.60	19.10	32.37	4.35
March .....	47.00	18.01	34.76	4.93	15.85	32.50	2.84
April .....	42.90	16.87	33.11	(D)	14.80	30.84	(D)
May .....	(D)	17.94	(D)	(D)	14.73	(D)	(D)
June .....	(D)	14.27	(D)	(D)	10.94	(D)	(D)
July .....	(D)	12.23	(D)	(D)	8.80	(D)	(D)

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



## Lemon Average Prices and Equivalent Returns by Season – United States: 2022-2023 and 2023-2024

[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)
<b>2022-2023</b>							
August .....	40.30	18.58	29.23	(D)	11.94	22.03	(D)
September .....	41.60	20.39	30.53	(D)	13.72	23.33	(D)
October .....	47.20	24.73	36.14	(D)	18.02	28.94	(D)
November .....	45.90	23.95	34.82	(D)	17.24	27.62	(D)
December .....	42.60	21.50	31.52	(D)	14.81	24.32	(D)
January .....	42.20	20.50	31.13	(D)	13.85	23.93	(D)
February .....	40.50	19.28	29.46	(D)	12.63	22.26	(D)
March .....	39.60	18.67	28.53	(D)	12.01	21.33	(D)
April .....	42.10	20.73	31.03	(D)	14.05	23.83	(D)
May .....	42.90	21.33	31.83	(D)	14.65	24.63	(D)
June .....	45.50	22.76	34.43	(D)	16.08	27.23	(D)
July .....	46.80	24.02	35.73	(D)	17.33	28.53	(D)
<b>2023-2024</b>							
August .....	51.20	35.11	39.91	(D)	27.96	32.57	(D)
September .....	56.60	42.37	45.28	(D)	35.13	37.94	(D)
October .....	59.40	44.77	48.06	(D)	37.54	40.72	(D)
November .....	52.50	37.53	41.25	(D)	30.34	33.91	(D)
December .....	48.10	29.28	36.77	(D)	22.26	29.43	(D)
January .....	43.30	22.56	31.99	(D)	15.69	24.65	(D)
February .....	41.50	20.88	30.23	(D)	14.04	22.90	(D)
March .....	41.90	19.04	30.61	(D)	12.30	23.27	(D)
April .....	42.50	17.81	31.21	(D)	11.13	23.87	(D)
May .....	45.80	23.18	34.51	(D)	16.38	27.17	(D)
June .....	51.10	29.35	39.81	(D)	22.42	32.47	(D)
July .....	50.00	29.12	38.71	(D)	22.16	31.37	(D)

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

**Marketing Year Average Prices Received for Oranges – States and United States: 2022-2023 and 2023-2024**

State, type, and utilization	2022-2023			2023-2024		
	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)
<b>California</b>						
Navel and miscellaneous .....	(NA)	18.07	14.97	(NA)	16.10	12.90
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
Valencia .....	(NA)	18.24	15.13	(NA)	20.51	17.32
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
All .....	(NA)	18.11	15.00	(NA)	16.96	13.77
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>Florida</b>						
Non-Valencia .....	(NA)	13.42	9.24	(NA)	12.38	8.19
Fresh .....	(NA)	19.64	15.59	38.30	22.13	18.08
Processing .....	(NA)	12.57	8.37	(NA)	11.07	(D)
Valencia .....	(NA)	14.56	10.05	(NA)	14.01	9.51
Fresh .....	34.40	18.22	13.67	34.70	18.55	14.00
Processing .....	(NA)	14.21	9.71	(NA)	13.59	9.09
All .....	(NA)	14.12	9.74	(NA)	13.40	9.01
Fresh .....	35.10	18.89	14.57	36.30	20.18	15.86
Processing .....	(NA)	13.59	9.20	(NA)	12.66	8.27
<b>Texas</b>						
Early and midseason .....	(NA)	8.84	7.04	(NA)	17.30	15.51
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
Valencia .....	(NA)	17.40	15.63	(NA)	17.06	15.34
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
All .....	(NA)	13.08	11.30	(NA)	17.20	15.44
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>United States</b>						
Early, midseason, and Navel .....	(NA)	17.28	14.04	(NA)	15.56	12.24
Fresh .....	33.90	22.78	19.72	34.20	22.41	19.29
Processing .....	(NA)	5.90	2.29	(NA)	7.02	3.44
Valencia .....	(NA)	16.33	12.54	(NA)	16.96	13.11
Fresh .....	37.00	22.85	19.68	37.30	26.13	22.86
Processing .....	(NA)	12.08	7.89	(NA)	11.92	7.74
All .....	(NA)	16.99	13.58	(NA)	16.00	12.51
Fresh .....	34.10	22.80	19.71	36.80	23.26	20.10
Processing .....	(NA)	8.68	4.81	(NA)	8.97	5.16

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

**Marketing Year Average Prices Received for Grapefruit – States and United States: 2022-2023 and 2023-2024**

State, type, and utilization	2022-2023			2023-2024		
	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)
<b>California</b> <sup>1</sup> .....	(NA)	17.62	14.49	(NA)	16.39	13.11
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>Florida</b> .....	(NA)	24.03	20.79	(NA)	25.07	21.87
Fresh .....	46.10	30.51	27.46	45.50	29.93	26.88
Processing .....	(NA)	14.72	11.22	(NA)	15.16	11.66
<b>Texas</b> .....	(NA)	22.48	20.93	(NA)	26.83	25.36
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>United States</b> <sup>1</sup> .....	(NA)	20.25	17.52	(NA)	21.17	18.42
Fresh .....	40.80	29.04	26.55	46.10	31.25	28.74
Processing .....	(NA)	5.11	1.95	(NA)	5.23	2.09

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

(NA) Not available.

<sup>1</sup> Includes pummelos.

**Marketing Year Average Prices Received for Lemons, Tangerines and Mandarins – States and United States: 2022-2023 and 2023-2024**

Crop, State, and utilization	2022-2023			2023-2024		
	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)
<b>Lemons</b>						
Arizona .....	(NA)	22.79	16.04	(NA)	30.50	23.45
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
California .....	(NA)	20.91	14.24	(NA)	27.21	20.29
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
United States .....	(NA)	21.01	14.33	(NA)	27.33	20.41
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>Tangerines and mandarins <sup>1</sup></b>						
California .....	(NA)	32.05	28.16	(NA)	36.96	32.94
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
Florida .....	(NA)	38.54	33.24	(NA)	49.10	43.73
Fresh .....	70.30	51.65	46.20	83.10	64.45	59.00
Processing .....	(NA)	8.25	3.30	(NA)	7.35	2.20
United States .....	(NA)	32.18	28.26	(NA)	37.15	33.12
Fresh .....	56.00	45.55	42.20	62.86	52.23	48.82
Processing .....	(NA)	2.48	-2.71	(NA)	6.69	1.39

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

(NA) Not available.

<sup>1</sup> 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: 2021-2022, 2022-2023, and 2023-2024**

State	Crop year		
	2021-2022	2022-2023	2023-2024
	(pounds)	(pounds)	(pounds)
<b>Oranges</b>			
California .....	80	80	80
Florida .....	90	90	90
Texas .....	85	85	85
<b>Grapefruit</b>			
California <sup>1</sup> .....	80	80	80
Florida .....	85	85	85
Texas .....	80	80	80
<b>Lemons</b>			
Arizona .....	80	80	80
California .....	80	80	80
<b>Tangerines and mandarins <sup>2</sup></b>			
California .....	80	80	80
Florida .....	95	95	95

<sup>1</sup> Includes pummelos.

<sup>2</sup> 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](mailto:nass@usda.gov)

Fleming Gibson, Acting Chief, Crops Branch .....	(202) 720-2127
Joshua Bates, Acting Head, Fruits, Vegetables and Special Crops Section .....	(202) 720-2127
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



## Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: [www.nass.usda.gov](http://www.nass.usda.gov).
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit [www.nass.usda.gov](http://www.nass.usda.gov) and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist [notifications@usda-esmis.library.cornell.edu](mailto:notifications@usda-esmis.library.cornell.edu) in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: [nass@usda.gov](mailto:nass@usda.gov).

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees, and applicants for employment on the basis of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases will apply to all programs and/or employment activities.)

If you wish to file a Civil Rights program complaint of discrimination, complete the [USDA Program Discrimination Complaint Form](#) (PDF), found online at [www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer](http://www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer), or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at [program.intake@usda.gov](mailto:program.intake@usda.gov).