



United States  
Department of  
Agriculture

National  
Agricultural  
Statistics  
Service



ISSN: 1948-9048

# Citrus Fruits 2017 Summary

## August 2017

# USDA





## Contents

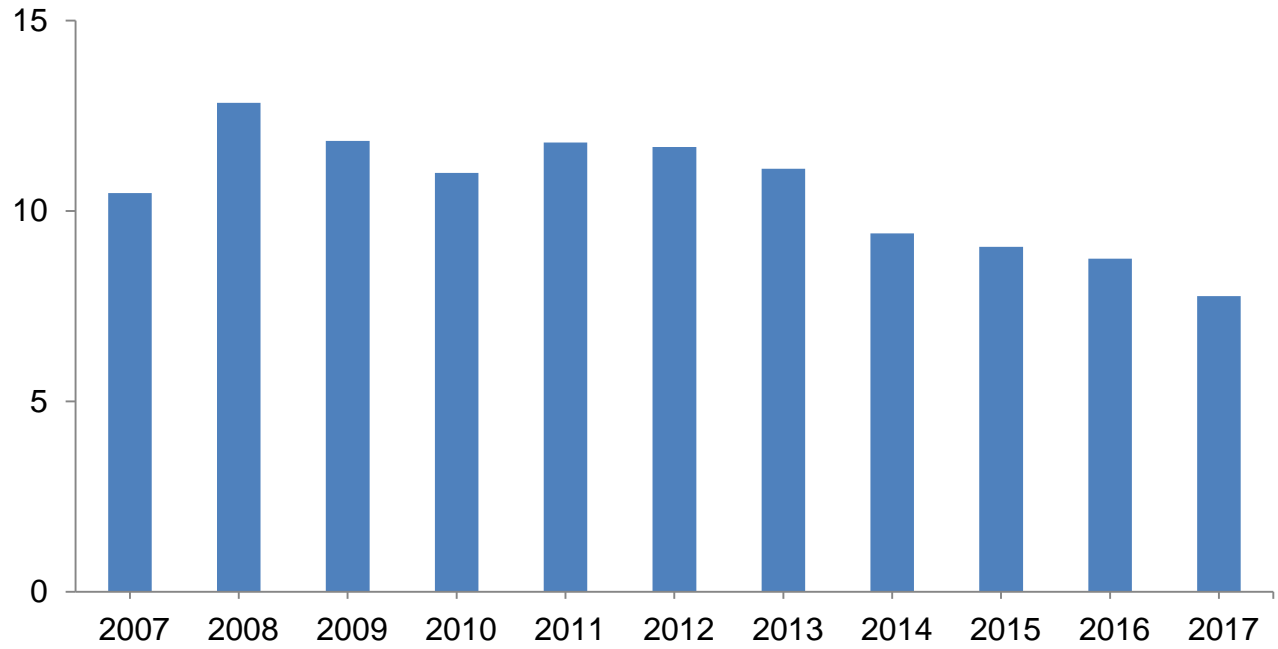
Utilized Citrus Production – United States: 2007-2017.....	6
Citrus Value of Production – United States: 2007-2017.....	6
Citrus Narrative.....	7
Citrus Acreage, Production, Utilization, and Value – States and United States: 2014-2015, 2015-2016, and 2016-2017 .....	8
Citrus Acreage, Production, Utilization, and Value by Crop – United States: 2014-2015, 2015-2016, and 2016-2017 .....	9
Orange Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2014-2015, 2015-2016, and 2016-2017 .....	10
Frozen Concentrated Orange Juice Yield – Florida: 2014-2015, 2015-2016, and 2016-2017 .....	11
Bearing Acres of Oranges – United States: 2007-2017 .....	12
Utilized Orange Production – United States: 2007-2017.....	12
Grapefruit Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2014-2015, 2015-2016, and 2016-2017 .....	13
Lemon, Tangelo, Tangerine and Mandarin Acreage, Yield, Utilization, Price, and Value – States and United States: 2014-2015, 2015-2016, and 2016-2017 .....	14
Citrus Prices Narrative.....	15
Orange Average Prices and Equivalent Returns by Type and Season – California: 2015-2016 and 2016-2017 .....	16
Orange Average Prices and Equivalent Returns by Type and Season – Florida: 2015-2016 and 2016-2017 .....	18
Orange Average Prices and Equivalent Returns by Type and Season – Florida: 2015-2016 and 2016-2017 (continued).....	19
Orange Average Prices and Equivalent Returns by Type and Season – Texas: 2016-2017.....	20
Orange Average Prices and Equivalent Returns by Season – United States: 2015-2016 and 2016-2017 .....	21
Grapefruit Average Prices and Equivalent Returns by Season – California: 2015-2016 and 2016-2017 .....	22
Grapefruit Average Prices and Equivalent Returns by Type and Season – Florida: 2015-2016 and 2016-2017 .....	23
Grapefruit Average Prices and Equivalent Returns by Season – Texas: 2015-2016 and 2016-2017 .....	25
Grapefruit Average Prices and Equivalent Returns by Season – United States: 2015-2016 and 2016-2017 .....	25
Lemon Average Prices and Equivalent Returns by Season – California: 2015-2016 and 2016-2017.....	26
Lemon Average Prices and Equivalent Returns by Season – United States: 2015-2016 and 2016-2017.....	27

Tangelo Average Prices and Equivalent Returns by Season – Florida: 2015-2016 and 2016-2017 .....	27
Tangerine and Mandarin Average Prices and Equivalent Returns by Season – Florida: 2015-2016 and 2016-2017.....	28
Tangerine and Mandarin Average Prices and Equivalent Returns by Season – United States: 2015-2016 and 2016-2017.....	28
Marketing Year Average Prices Received for Oranges – States and United States: 2015-2016 and 2016-2017 .....	29
Marketing Year Average Prices Received for Grapefruit – States and United States: 2015-2016 and 2016-2017 .....	30
Marketing Year Average Prices Received for Lemons, Tangelos, Tangerines and Mandarins – States and United States: 2015-2016 and 2016-2017 .....	31
Terms and Definitions.....	30
Marketing Year Average Prices and Value of Production .....	30
Box Weights by Crop - States: 2014-2015, 2015-2016, and 2016-2017 .....	33
Marketing Seasons .....	31
Statistical Methodology.....	32
Information Contacts.....	32

**This page intentionally left blank.**

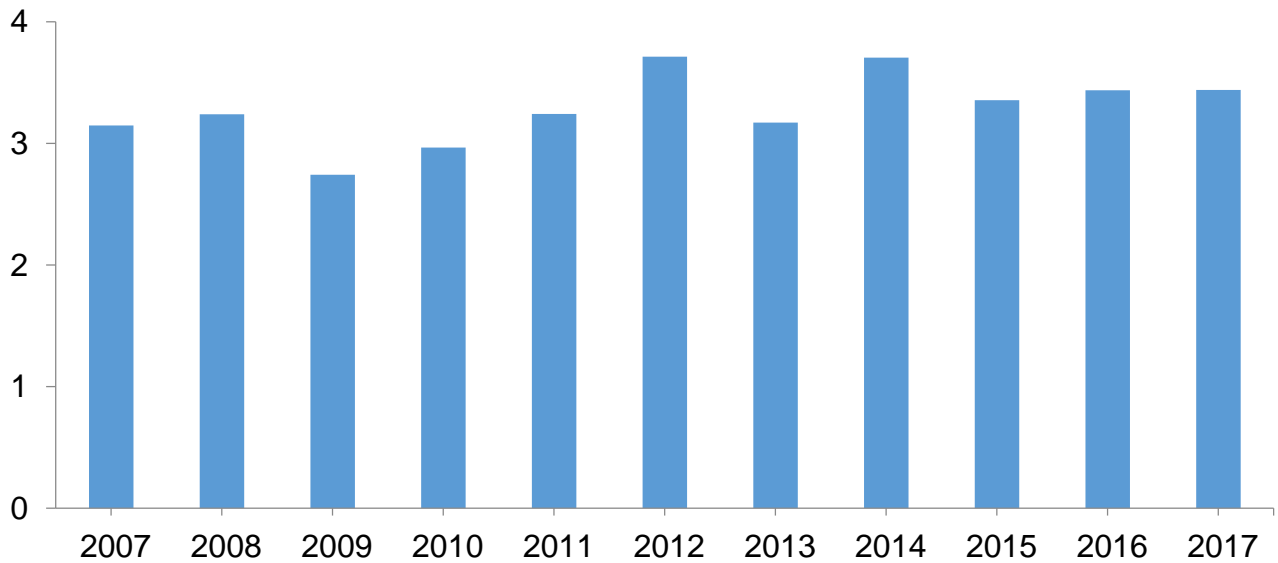
## Utilized Citrus Production – United States

Million tons



## Citrus Value of Production – United States

Billion dollars  
(PHD equivalents)



## **Citrus Utilized Production Down 11 Percent, Value Up Slightly**

Citrus utilized production for the 2016-17 season totaled 7.77 million tons, down 11 percent from the 2015-16 season and 56 percent lower than the record high production of 17.8 million tons for the 1997-98 season. California totaled 51 percent of total United States citrus production; Florida accounted for 45 percent, while Texas and Arizona produced the remaining 4 percent.

Utilized citrus production in California decreased 6 percent from the 2015-16 season. California's all orange production, at 50.3 million boxes, is 14 percent lower than the previous season. Grapefruit production is up 5 percent from the 2015-16 season and tangerine and mandarin production is up 10 percent.

Florida's orange production, at 68.8 million boxes, is down 16 percent from the previous season. Grapefruit utilization in Florida, at 7.76 million boxes, is down 28 percent from last season's utilization. Florida's total citrus utilization decreased 17 percent from the previous season. Bearing citrus acreage, at 410,700 acres, is 24,600 acres below the 2015-16 season.

The value of the 2016-17 United States citrus crop increased slightly from last season, to \$3.44 billion (packinghouse-door equivalent). Total value of production for 2016-17 is higher for lemons and for tangerines and mandarins. Orange value of production decreased 4 percent from last season and grapefruit value is down 2 percent. Tangerine and mandarin value of production is 15 percent higher than last season (if tangelos were included) and lemon value of production is up 2 percent. Beginning in 2016-2017, tangelos are included in tangerines and mandarins for Florida.

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 2016-17 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 2016-17 season will be published in the April 2018 *Crop Production*.

**Citrus Acreage, Production, Utilization, and Value – States and United States: 2014-2015, 2015-2016, and 2016-2017**

State and season	Bearing acreage	Production			Value of production <sup>1</sup>
		Total	Utilization		
			Fresh	Processed	
	(acres)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 dollars)
<b>Arizona</b>					
2014-2015 .....	9,500	87	56	31	63,375
2015-2016 <sup>2</sup> .....	7,500	64	55	9	59,026
2016-2017 <sup>2</sup> .....	7,300	66	55	11	55,487
<b>California</b>					
2014-2015 .....	271,800	3,692	2,779	913	1,877,390
2015-2016 .....	270,500	4,200	3,138	1,062	2,047,451
2016-2017 .....	268,500	3,948	3,119	829	2,264,903
<b>Florida</b>					
2014-2015 .....	459,100	5,049	557	4,492	1,357,919
2015-2016 .....	435,300	4,221	443	3,778	1,248,449
2016-2017 .....	410,700	3,501	319	3,182	1,032,227
<b>Texas</b>					
2014-2015 .....	24,500	232	168	64	55,066
2015-2016 .....	24,500	263	158	105	80,749
2016-2017 .....	24,500	250	162	88	86,578
<b>United States</b>					
2014-2015 .....	764,900	9,060	3,560	5,500	3,353,750
2015-2016 .....	737,800	8,748	3,794	4,954	3,435,675
2016-2017 .....	711,000	7,765	3,655	4,110	3,439,195

<sup>1</sup> Packinghouse-door equivalents.

<sup>2</sup> Beginning in 2015-2016, tangerine and mandarin estimates are discontinued.



**Citrus Acreage, Production, Utilization, and Value by Crop – United States: 2014-2015, 2015-2016, and 2016-2017**

Crop and season	Bearing acreage	Production			Value of production <sup>1</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					
2014-2015 <sup>2</sup> .....	312,000	3,743	1,425	2,318	1,172,009
2015-2016 <sup>2</sup> .....	299,600	3,570	1,669	1,901	1,152,606
2016-2017 .....	288,700	3,103	1,430	1,673	1,107,327
Valencia					
2014-2015 .....	263,900	2,610	372	2,238	791,344
2015-2016 .....	251,800	2,518	358	2,160	774,664
2016-2017 .....	241,200	2,061	428	1,633	737,202
All oranges					
2014-2015 <sup>2</sup> .....	575,900	6,353	1,797	4,556	1,963,353
2015-2016 <sup>2</sup> .....	551,400	6,088	2,027	4,061	1,927,270
2016-2017 .....	529,900	5,164	1,858	3,306	1,844,529
<b>Grapefruit <sup>3</sup></b>					
2014-2015 .....	67,300	910	502	408	216,258
2015-2016 .....	64,100	803	436	367	254,318
2016-2017 .....	60,400	682	393	289	249,960
<b>Lemons</b>					
2014-2015 .....	55,300	904	612	292	696,835
2015-2016 .....	54,500	904	695	209	755,086
2016-2017 .....	54,300	886	711	175	773,233
<b>Tangelos</b>					
2014-2015 .....	3,000	30	16	14	9,221
2015-2016 .....	2,500	18	11	7	8,784
2016-2017 <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)
<b>Tangerines and mandarins</b>					
2014-2015 .....	63,400	863	633	230	468,083
2015-2016 <sup>5</sup> .....	65,300	935	625	310	490,217
2016-2017 <sup>5 6</sup> .....	66,400	1,033	693	340	571,473

(NA) Not available.

<sup>1</sup> Packinghouse-door equivalents.

<sup>2</sup> Includes small quantities of Temples in Florida.

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

<sup>4</sup> Beginning in 2016-2017, tangelos are included in tangerines and mandarins for Florida.

<sup>5</sup> Beginning in 2015-2016, tangerine and mandarin estimates are discontinued for Arizona.

<sup>6</sup> Beginning in 2016-2017, includes Temples and tangelos in Florida.

# Orange Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2014-2015, 2015-2016, and 2016-2017

[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											
2014-2015 .....	129,000	302	39,000	31,400	7,600	16.29	(D)	(D)	635,394	(D)	(D)
2015-2016 .....	125,000	378	47,200	38,100	9,100	14.65	(D)	(D)	691,350	(D)	(D)
2016-2017 .....	125,000	314	39,300	33,100	6,200	17.97	(D)	(D)	706,121	(D)	(D)
Valencia											
2014-2015 .....	34,000	271	9,200	6,600	2,600	15.00	(D)	(D)	137,962	(D)	(D)
2015-2016 .....	32,000	353	11,300	6,700	4,600	11.94	(D)	(D)	134,944	(D)	(D)
2016-2017 .....	30,000	367	11,000	8,900	2,100	20.69	(D)	(D)	227,624	(D)	(D)
All											
2014-2015 .....	163,000	296	48,200	38,000	10,200	16.04	(D)	(D)	773,356	(D)	(D)
2015-2016 .....	157,000	373	58,500	44,800	13,700	14.12	(D)	(D)	826,294	(D)	(D)
2016-2017 .....	155,000	325	50,300	42,000	8,300	18.56	(D)	(D)	933,745	(D)	(D)
<b>Florida</b>											
Non-Valencia											
2014-2015 <sup>2</sup> .....	177,600	267	47,400	2,815	44,585	11.04	18.05	10.60	523,412	50,811	472,601
2015-2016 <sup>2</sup> .....	169,200	213	36,100	2,199	33,901	12.13	20.35	11.60	438,002	44,750	393,252
2016-2017 .....	158,300	208	33,000	1,503	31,497	11.64	20.85	11.20	384,104	31,338	352,766
Valencia											
2014-2015 .....	227,900	217	49,550	2,155	47,395	13.12	15.75	13.00	650,076	33,941	616,135
2015-2016 .....	217,800	209	45,600	1,731	43,869	13.87	15.75	13.80	632,655	27,263	605,392
2016-2017 .....	209,200	171	35,750	1,338	34,412	14.05	20.55	13.80	502,382	27,496	474,886
All											
2014-2015 <sup>2</sup> .....	405,500	239	96,950	4,970	91,980	12.10	17.05	11.84	1,173,488	84,752	1,088,736
2015-2016 <sup>2</sup> .....	387,000	211	81,700	3,930	77,770	13.10	18.32	12.84	1,070,657	72,013	998,644
2016-2017 .....	367,500	187	68,750	2,841	65,909	12.89	20.71	12.56	886,486	58,834	827,652

See footnote(s) at end of table.

--continued

**Orange Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2014-2015, 2015-2016, and 2016-2017 (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											
2014-2015 .....	5,400	217	1,170	981	189	11.28	(D)	(D)	13,203	(D)	(D)
2015-2016 .....	5,400	250	1,351	1,082	269	17.21	(D)	(D)	23,254	(D)	(D)
2016-2017 .....	5,400	202	1,090	900	190	15.69	(D)	(D)	17,102	(D)	(D)
<b>Valencia</b>											
2014-2015 .....	2,000	141	282	263	19	11.72	(D)	(D)	3,306	(D)	(D)
2015-2016 .....	2,000	170	340	288	52	20.78	(D)	(D)	7,065	(D)	(D)
2016-2017 .....	2,000	140	280	280	-	25.70	(D)	(D)	7,196	(D)	(D)
<b>All</b>											
2014-2015 .....	7,400	196	1,452	1,244	208	11.37	(D)	(D)	16,509	(D)	(D)
2015-2016 .....	7,400	229	1,691	1,370	321	17.93	(D)	(D)	30,319	(D)	(D)
2016-2017 .....	7,400	185	1,370	1,180	190	17.74	(D)	(D)	24,298	(D)	(D)
<b>United States</b>											
Early, midseason, and Navel											
2014-2015 <sup>2</sup> .....	312,000	281	87,570	35,196	52,374	13.23	19.84	9.17	1,172,009	699,414	472,595
2015-2016 <sup>2</sup> .....	299,600	283	84,651	41,381	43,270	13.54	18.37	9.31	1,152,606	759,260	393,346
2016-2017 .....	288,700	254	73,390	35,503	37,887	14.91	21.08	9.63	1,107,327	748,715	358,612
<b>Valencia</b>											
2014-2015 .....	263,900	224	59,032	9,018	50,014	13.38	17.71	12.66	791,344	160,292	631,052
2015-2016 .....	251,800	227	57,240	8,719	48,521	13.56	16.72	13.04	774,664	145,826	628,838
2016-2017 .....	241,200	195	47,030	10,518	36,512	15.53	23.87	13.35	737,202	251,585	485,617
<b>All</b>											
2014-2015 <sup>2</sup> .....	575,900	255	146,602	44,214	102,388	13.29	19.40	10.88	1,963,353	859,706	1,103,647
2015-2016 <sup>2</sup> .....	551,400	257	141,891	50,100	91,791	13.55	18.07	11.30	1,927,270	905,086	1,022,184
2016-2017 .....	529,900	227	120,420	46,021	74,399	15.16	21.73	11.47	1,844,529	1,000,300	844,229

- Represents zero.

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

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

<sup>2</sup> Includes small quantities of Temples in Florida.

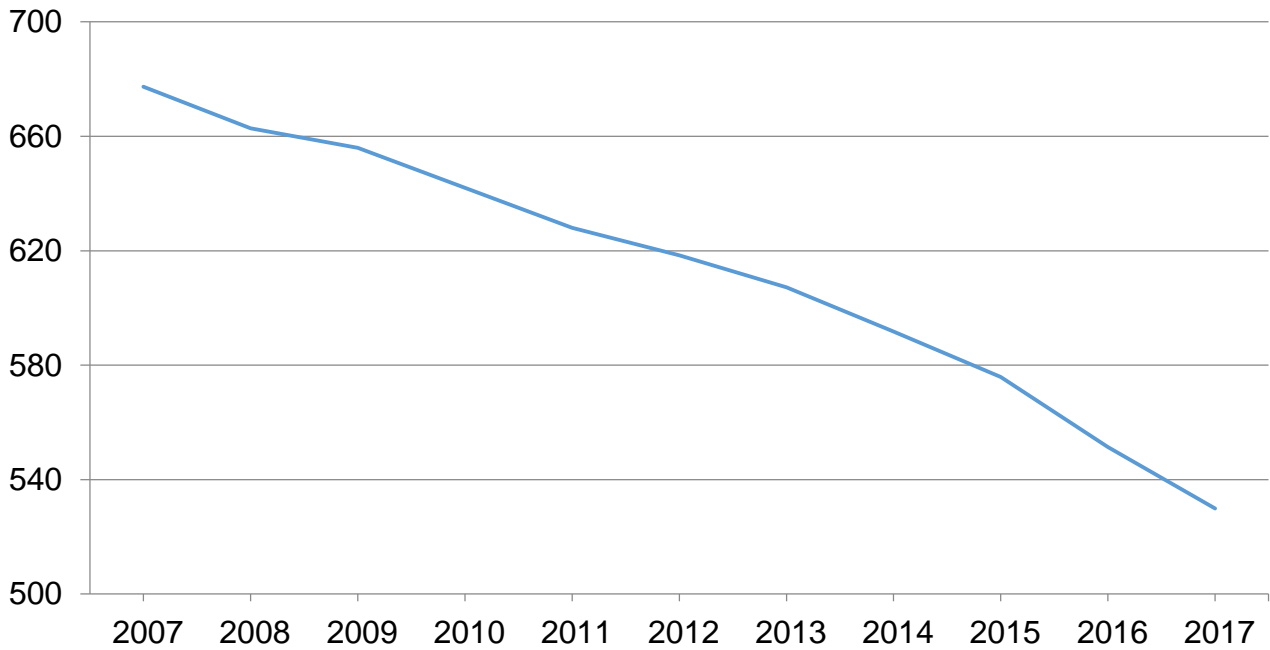
**Frozen Concentrated Orange Juice Yield – Florida: 2014-2015, 2015-2016, and 2016-2017**

[Gallons per box at 42.0 degrees Brix. Source: Florida Department of Citrus]

Season	Early and midseason	Valencia	All
	(gallons per box)	(gallons per box)	(gallons per box)
2014-2015 .....	1.41955	1.58415	1.50220
2015-2016 .....	1.34705	1.47298	1.40553
2016-2017 .....	1.33660	1.53650	1.41662

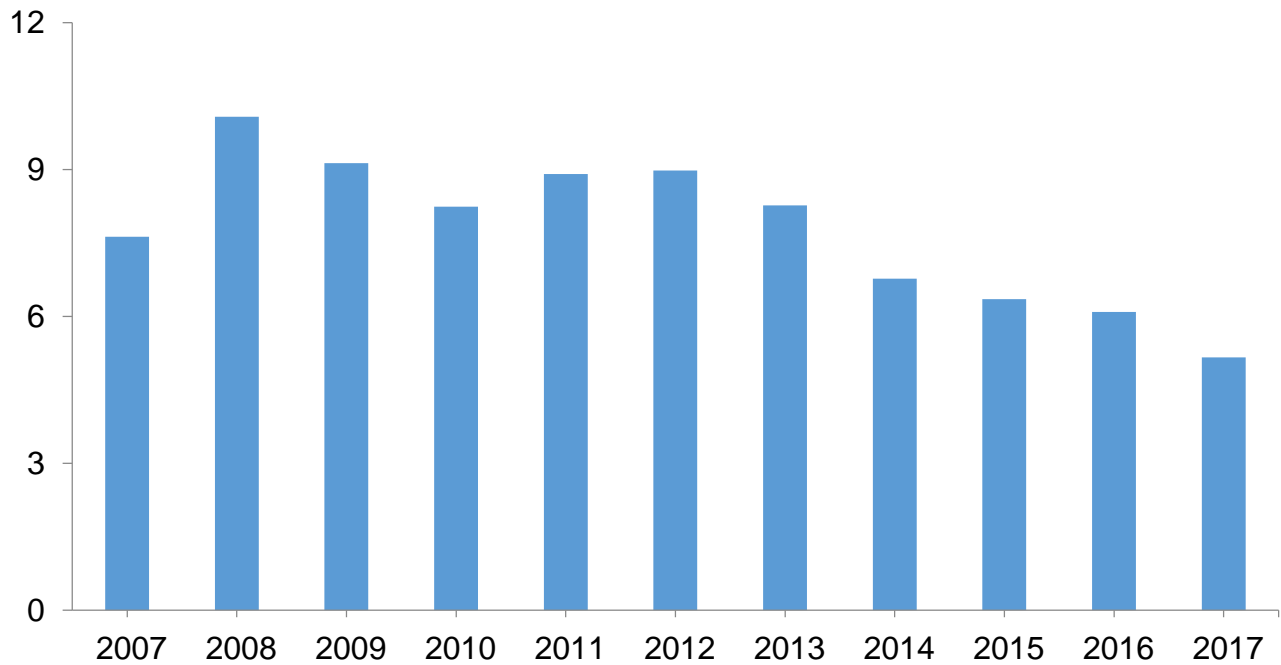
## Bearing Acres of Oranges – United States

Thousand acres



## Utilized Orange Production – United States

Million tons



## Grapefruit Acreage, Yield, Utilization, Price, and Value by Type – States and United States: 2014-2015, 2015-2016, and 2016-2017

[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>											
2014-2015 .....	9,800	490	4,800	3,600	1,200	10.50	(D)	(D)	50,388	(D)	(D)
2015-2016 .....	9,500	400	3,800	3,160	640	17.81	(D)	(D)	67,664	(D)	(D)
2016-2017 .....	9,500	421	4,000	3,280	720	19.52	(D)	(D)	78,087	(D)	(D)
<b>Florida</b>											
White <sup>3</sup>											
2014-2015 .....	11,400	285	3,250	632	2,618	8.09	14.70	6.49	26,281	9,290	16,991
2015-2016 .....	9,600	259	2,490	587	1,903	11.13	20.00	8.39	27,706	11,740	15,966
2016-2017 .....	8,100	183	1,480	406	1,074	12.36	21.10	9.05	18,287	8,567	9,720
Red											
2014-2015 .....	29,000	333	9,650	5,076	4,574	10.47	14.20	6.33	101,032	72,079	28,953
2015-2016 .....	27,900	298	8,310	4,359	3,951	13.06	17.10	8.60	108,518	74,539	33,979
2016-2017 .....	25,700	244	6,280	3,131	3,149	14.54	18.30	10.80	91,306	57,297	34,009
All											
2014-2015 .....	40,400	319	12,900	5,708	7,192	9.87	14.26	6.39	127,313	81,369	45,944
2015-2016 .....	37,500	288	10,800	4,946	5,854	12.61	17.44	8.53	136,224	86,279	49,945
2016-2017 .....	33,800	230	7,760	3,537	4,223	14.12	18.62	10.35	109,593	65,864	43,729
<b>Texas</b>											
2014-2015 .....	17,100	249	4,250	2,887	1,363	9.07	(D)	(D)	38,557	(D)	(D)
2015-2016 .....	17,100	281	4,800	2,500	2,300	10.51	(D)	(D)	50,430	(D)	(D)
2016-2017 .....	17,100	281	4,800	2,800	2,000	12.98	(D)	(D)	62,280	(D)	(D)
<b>United States</b> <sup>2</sup>											
2014-2015 .....	67,300	326	21,950	12,195	9,755	9.85	13.91	4.87	216,258	169,477	46,781
2015-2016 .....	64,100	303	19,400	10,606	8,794	13.09	18.91	6.15	254,318	201,064	53,254
2016-2017 .....	60,400	274	16,560	9,617	6,943	15.07	20.92	7.08	249,960	201,663	48,297

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

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

<sup>2</sup> Includes pummelos.

<sup>3</sup> Includes seedy grapefruit.

# Lemon, Tangelo, Tangerine and Mandarin Acreage, Yield, Utilization, Price, and Value – States and United States: 2014-2015, 2015-2016, and 2016-2017

[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											
2014-2015 .....	8,300	241	2,000	1,298	702	(D)	(D)	(D)	(D)	(D)	(D)
2015-2016 .....	7,500	213	1,600	1,376	224	(D)	(D)	(D)	(D)	(D)	(D)
2016-2017 .....	7,300	226	1,650	1,383	267	(D)	(D)	(D)	(D)	(D)	(D)
California											
2014-2015 .....	47,000	438	20,600	14,000	6,600	(D)	(D)	(D)	(D)	(D)	(D)
2015-2016 .....	47,000	447	21,000	16,000	5,000	(D)	(D)	(D)	(D)	(D)	(D)
2016-2017 .....	47,000	436	20,500	16,400	4,100	(D)	(D)	(D)	(D)	(D)	(D)
United States											
2014-2015 .....	55,300	409	22,600	15,298	7,302	30.83	(D)	(D)	696,835	(D)	(D)
2015-2016 .....	54,500	415	22,600	17,376	5,224	33.41	(D)	(D)	755,086	(D)	(D)
2016-2017 .....	54,300	408	22,150	17,783	4,367	34.91	(D)	(D)	773,233	(D)	(D)
<b>Tangelos</b>											
Florida											
2014-2015 .....	3,000	222	665	346	319	13.87	20.25	6.94	9,221	7,007	2,214
2015-2016 .....	2,500	156	390	240	150	22.52	32.45	6.64	8,784	7,788	996
2016-2017 <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
<b>Tangerines and mandarins</b>											
Arizona <sup>3</sup>											
2014-2015 .....	1,200	142	170	91	79	(D)	(D)	(D)	(D)	(D)	(D)
2015-2016 <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2016-2017 <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
California <sup>3</sup>											
2014-2015 .....	52,000	360	18,700	13,880	4,820	(D)	(D)	(D)	(D)	(D)	(D)
2015-2016 .....	57,000	381	21,700	14,500	7,200	(D)	(D)	(D)	(D)	(D)	(D)
2016-2017 .....	57,000	419	23,900	16,300	7,600	(D)	(D)	(D)	(D)	(D)	(D)
Florida											
2014-2015 <sup>5</sup> .....	10,200	222	2,265	1,550	715	21.15	27.40	7.59	47,897	42,470	5,427
2015-2016 <sup>5</sup> .....	8,300	170	1,415	958	457	23.17	30.40	8.01	32,784	29,123	3,661
2016-2017 <sup>6</sup> .....	9,400	172	1,620	854	766	22.31	33.00	10.40	36,148	28,182	7,966
United States											
2014-2015 <sup>7</sup> .....	63,400	333	21,135	15,521	5,614	22.13	29.69	1.31	468,083	461,555	6,528
2015-2016 <sup>8</sup> .....	65,300	354	23,115	15,458	7,657	21.23	31.74	-0.01	490,217	490,948	-731
2016-2017 <sup>9</sup> .....	66,400	384	25,520	17,154	8,366	22.39	32.88	1.06	571,473	563,963	7,510

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

(NA) Not available.

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

<sup>2</sup> Beginning in 2016-2017, tangelos are included in tangerines and mandarins for Florida.

<sup>3</sup> Includes tangelos and tangors.

<sup>4</sup> Beginning in 2015-2016 estimates discontinued.

<sup>5</sup> Includes only Fallglo, Sunburst and Honey varieties.

<sup>6</sup> Includes only Fallglo, Sunburst and Honey varieties, Temples, and tangelos.

<sup>7</sup> Includes tangelos and tangors in Arizona and California. Includes only Fallglo, Sunburst, and Honey varieties in Florida.

<sup>8</sup> Includes tangelos and tangors in California. Includes only Fallglo, Sunburst, and Honey varieties in Florida.

<sup>9</sup> Includes tangelos and tangors in California. Includes only Fallglo, Sunburst, and Honey varieties, Temples and tangelos in Florida.

## Citrus Prices

Revised State and United States monthly average prices and equivalent returns, and marketing year average prices for the 2015-16 and 2016-17 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 2016-17 as shown on all citrus tables in this publication refers to the crop which bloomed in 2016 and was marketed during the 2016-17 season. For example, the 2016-17 marketing year average price received by Florida growers for tangerines and mandarins refers to marketings from September 2016 through April 2017. 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 33 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 Type and Season – California: 2015-2016 and 2016-2017

[Only months with reported prices in a given crop year are listed]

Crop, season and month	FOB packed fresh (dollars per box)	Equivalent returns					
		Packinghouse door			On-tree		
		All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)	All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)
<b>Oranges, all</b>							
2015-2016							
September .....	32.00	17.83	22.65	(D)	15.17	20.04	(D)
October .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
November .....	33.40	21.38	23.86	(D)	18.70	21.20	(D)
December .....	31.60	19.76	22.06	(D)	17.08	19.40	(D)
January .....	29.10	16.99	19.56	(D)	14.31	16.90	(D)
February .....	26.50	14.40	16.96	(D)	11.72	14.30	(D)
March .....	25.30	12.92	15.80	(D)	10.22	13.14	(D)
April .....	24.80	11.75	15.31	(D)	9.05	12.65	(D)
May .....	26.30	12.29	16.81	(D)	9.57	14.15	(D)
June .....	26.30	11.04	16.72	(D)	8.31	14.06	(D)
July .....	25.80	10.80	16.22	(D)	8.06	13.56	(D)
August .....	25.50	11.26	15.96	(D)	8.52	13.30	(D)
2016-2017							
September .....	27.10	11.36	17.56	(D)	8.61	14.90	(D)
October .....	(S)	11.32	(S)	(D)	8.58	(S)	(D)
November .....	32.20	20.24	22.47	(D)	17.51	19.76	(D)
December .....	29.40	16.88	19.67	(D)	14.14	16.96	(D)
January .....	28.40	15.97	18.67	(D)	13.24	15.96	(D)
February .....	30.00	17.45	20.27	(D)	14.71	17.56	(D)
March .....	30.90	17.47	21.16	(D)	14.73	18.45	(D)
April .....	31.20	17.56	21.43	(D)	14.81	18.72	(D)
May .....	32.80	19.34	23.11	(D)	16.60	20.40	(D)
June .....	34.10	21.58	24.33	(D)	18.85	21.62	(D)
July .....	36.70	23.11	26.97	(D)	20.37	24.26	(D)
<b>Navel and miscellaneous</b>							
2015-2016							
November .....	33.40	21.38	23.86	(D)	18.70	21.20	(D)
December .....	31.60	19.76	22.06	(D)	17.08	19.40	(D)
January .....	29.10	16.99	19.56	(D)	14.31	16.90	(D)
February .....	26.50	14.40	16.96	(D)	11.72	14.30	(D)
March .....	25.20	12.78	15.66	(D)	10.09	13.00	(D)
April .....	24.60	11.61	15.06	(D)	8.91	12.40	(D)
May .....	26.10	11.80	16.56	(D)	9.09	13.90	(D)
June .....	26.80	10.46	17.26	(D)	7.72	14.60	(D)
July .....	26.80	10.46	17.26	(D)	7.72	14.60	(D)
2016-2017							
November .....	32.20	20.24	22.47	(D)	17.51	19.76	(D)
December .....	29.40	16.88	19.67	(D)	14.14	16.96	(D)
January .....	28.40	15.97	18.67	(D)	13.24	15.96	(D)
February .....	30.00	17.45	20.27	(D)	14.71	17.56	(D)
March .....	30.90	17.54	21.17	(D)	14.80	18.46	(D)
April .....	31.50	17.80	21.77	(D)	15.05	19.06	(D)
May .....	35.60	20.70	25.87	(D)	17.95	23.16	(D)
June .....	36.20	23.11	26.47	(S)	20.38	23.76	(S)

See footnote(s) at end of table.

--continued



**Orange Average Prices and Equivalent Returns by Type and Season – California: 2015-2016 and 2016-2017 (continued)**

[Only months with reported prices in a given crop year are listed]

Crop, season and month	FOB packed fresh (dollars per box)	Equivalent returns					
		Packinghouse door			On-tree		
		All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)	All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)
<b>Valencia</b>							
2016							
March .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
April .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
May .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
June .....	25.30	12.22	15.76	(D)	9.50	13.10	(D)
July .....	24.90	11.06	15.36	(D)	8.33	12.70	(D)
August .....	25.50	11.26	15.96	(D)	8.52	13.30	(D)
September .....	27.10	11.36	17.56	(D)	8.61	14.90	(D)
October .....	26.00	11.32	16.46	(D)	8.58	13.80	(D)
2017							
March .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
April .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
May .....	29.60	17.66	19.87	(D)	14.92	17.16	(D)
June .....	32.90	20.76	23.17	(D)	18.03	20.46	(D)
July .....	36.70	23.11	26.97	(D)	20.37	24.26	(D)

(D) Withheld to avoid disclosing data for individual operations.  
(S) Insufficient number of reports to establish an estimate.

# Orange Average Prices and Equivalent Returns by Type and Season – Florida: 2015-2016 and 2016-2017

[Only months with reported prices in a given crop year are listed]

Crop, 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>Oranges, all</b>							
2015-2016 <sup>1</sup>							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	35.70	(S)	24.55	(S)	(S)	21.45	(S)
November .....	33.20	(S)	22.05	(S)	(S)	18.95	(S)
December .....	30.10	11.81	18.95	11.40	8.67	15.85	8.25
January .....	28.50	11.75	17.31	11.61	8.60	14.20	8.46
February .....	27.10	12.92	15.99	12.79	9.72	12.76	9.59
March .....	25.10	13.80	13.90	13.80	10.55	10.61	10.55
April .....	27.30	13.87	16.15	13.80	10.62	12.85	10.55
May .....	28.70	14.08	17.55	13.90	10.82	14.25	10.65
June .....	28.70	(S)	17.55	(S)	(S)	14.25	(S)
July .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
August .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2016-2017							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	36.00	(S)	24.85	(S)	(S)	21.75	(S)
November .....	31.40	(S)	20.25	(S)	(S)	17.15	(S)
December .....	31.20	10.87	20.05	10.40	7.72	16.95	7.25
January .....	32.00	11.60	20.85	11.40	8.45	17.72	8.25
February .....	30.60	12.32	19.44	12.00	9.16	16.18	8.85
March .....	30.20	13.87	19.04	13.67	10.57	15.74	10.37
April .....	31.80	13.97	20.65	13.80	10.67	17.35	10.50
May .....	34.50	14.10	23.35	13.90	10.80	20.05	10.60
June .....	34.50	(S)	23.35	(S)	(S)	20.05	(S)
July .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
<b>Non-Valencia</b>							
2015-2016 <sup>1</sup>							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	35.70	(S)	24.55	(S)	(S)	21.45	(S)
November .....	33.20	16.43	22.05	(S)	13.31	18.95	(S)
December .....	30.10	11.81	18.95	11.40	8.67	15.85	8.25
January .....	28.50	11.73	17.35	11.60	8.59	14.25	8.45
February .....	28.30	12.14	17.15	12.00	8.99	14.05	8.85
March .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
April .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2016-2017							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	36.00	(S)	24.85	(S)	(S)	21.75	(S)
November .....	31.40	15.10	20.25	(S)	11.97	17.15	(S)
December .....	31.20	10.87	20.05	10.40	7.72	16.95	7.25
January .....	32.00	11.57	20.85	11.40	8.42	17.75	8.25
February .....	32.10	11.99	20.95	11.90	8.84	17.85	8.75
March .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
April .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)

See footnote(s) at end of table.

--continued

**Orange Average Prices and Equivalent Returns by Type and Season – Florida: 2015-2016 and 2016-2017 (continued)**

[Only months with reported prices in a given crop year are listed]

Crop, 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>Valencia</b>							
2016							
January .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
February .....	26.50	13.89	15.35	13.80	10.64	12.05	10.55
March .....	24.90	13.80	13.75	13.80	10.55	10.45	10.55
April .....	27.30	13.87	16.15	13.80	10.62	12.85	10.55
May .....	28.70	14.08	17.55	13.90	10.82	14.25	10.65
June .....	28.70	(S)	17.55	(S)	(S)	14.25	(S)
July .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
August .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2017							
January .....	32.00	(S)	20.85	(S)	(S)	17.55	(S)
February .....	30.20	(S)	19.05	(S)	(S)	15.75	(S)
March .....	30.20	13.90	19.05	13.70	10.60	15.75	10.40
April .....	31.80	13.97	20.65	13.80	10.67	17.35	10.50
May .....	34.50	14.10	23.35	13.90	10.80	20.05	10.60
June .....	34.50	(S)	23.35	(S)	(S)	20.05	(S)
July .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)

(S) Insufficient number of reports to establish an estimate.

<sup>1</sup> Includes small quantities of Temples.

## Orange Average Prices and Equivalent Returns by Type and Season – Texas: 2016-2017

[Only months with reported prices in a given crop year are listed]

Crop, season and month	FOB packed fresh (dollars per box)	Equivalent returns					
		Packinghouse door			On-tree		
		All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)	All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)
<b>Oranges, all</b>							
2015-2016							
October .....	34.70	21.19	23.10	(D)	19.38	21.27	(D)
November .....	32.40	18.20	20.80	(D)	16.40	18.97	(D)
December .....	30.40	14.57	18.80	(D)	12.79	16.97	(D)
January .....	32.80	18.99	21.20	(D)	17.18	19.37	(D)
February .....	32.20	14.87	20.60	(D)	13.10	18.77	(D)
March .....	35.40	20.15	23.81	(D)	18.35	21.98	(D)
April .....	35.00	18.20	23.38	(D)	16.42	21.55	(D)
May .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2016-2017							
October .....	31.30	18.77	19.70	(D)	16.95	17.87	(D)
November .....	30.60	16.51	19.00	(D)	14.70	17.17	(D)
December .....	30.10	15.32	18.50	(D)	13.52	16.67	(D)
January .....	30.50	17.32	18.93	(D)	15.50	17.10	(D)
February .....	34.80	20.86	23.24	(D)	19.05	21.41	(D)
March .....	35.50	19.92	23.93	(D)	18.12	22.10	(D)
April .....	33.70	20.48	22.06	(D)	18.66	20.23	(D)
<b>Early and midseason</b>							
2015-2016							
October .....	34.70	21.19	23.10	(D)	19.38	21.27	(D)
November .....	32.40	18.20	20.80	(D)	16.40	18.97	(D)
December .....	30.40	14.57	18.80	(D)	12.79	16.97	(D)
January .....	32.80	18.99	21.20	(D)	17.18	19.37	(D)
February .....	32.20	14.87	20.60	(D)	13.10	18.77	(D)
March .....	(S)	9.85	(S)	(D)	8.13	(S)	(D)
April .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2016-2017							
October .....	31.30	18.77	19.70	(D)	16.95	17.87	(D)
November .....	30.60	16.51	19.00	(D)	14.70	17.17	(D)
December .....	30.10	15.32	18.50	(D)	13.52	16.67	(D)
January .....	29.20	15.86	17.60	(D)	14.05	15.77	(D)
February .....	29.20	13.08	17.60	(D)	11.30	15.77	(D)
March .....	29.20	9.83	17.60	(D)	8.08	15.77	(D)
April .....	29.20	15.12	17.60	(D)	13.32	15.77	(D)
<b>Valencia</b>							
2016							
March .....	35.70	22.21	24.10	(D)	20.39	22.27	(D)
April .....	35.70	17.77	24.10	(D)	15.98	22.27	(D)
May .....	35.70	24.10	24.10	(S)	22.27	22.27	(S)
2017							
January .....	37.30	25.70	25.70	(S)	23.87	23.87	(S)
February .....	37.30	25.70	25.70	(S)	23.87	23.87	(S)
March .....	37.30	25.70	25.70	(S)	23.87	23.87	(S)
April .....	37.30	25.70	25.70	(S)	23.87	23.87	(S)

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

(S) Insufficient number of reports to establish an estimate.

## Orange Average Prices and Equivalent Returns by Season – United States: 2015-2016 and 2016-2017

[For 2015-2016 includes small quantities of Temples in Florida. 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>2015-2016</b>							
September .....	32.10	17.91	22.69	(D)	15.25	20.07	(D)
October .....	34.60	20.14	24.23	(S)	17.24	21.35	(S)
November .....	33.40	20.31	23.60	(D)	17.54	20.88	(D)
December .....	31.40	13.89	21.60	10.96	10.86	18.88	7.83
January .....	29.00	12.90	19.36	11.18	9.86	16.65	8.04
February .....	26.50	13.54	16.90	11.48	10.55	14.20	8.32
March .....	25.30	13.53	15.66	12.73	10.45	12.95	9.51
April .....	25.00	13.26	15.38	12.58	10.16	12.67	9.36
May .....	26.50	13.33	16.87	11.62	10.30	14.16	8.44
June .....	26.40	11.32	16.76	(D)	8.56	14.07	(D)
July .....	25.80	10.85	16.22	(D)	8.11	13.56	(D)
August .....	25.50	11.38	15.96	(D)	8.62	13.30	(D)
<b>2016-2017</b>							
September .....	27.20	11.42	17.65	(D)	8.66	14.98	(D)
October .....	28.20	12.92	18.27	(D)	10.11	15.52	(D)
November .....	32.10	19.36	22.24	(D)	16.57	19.49	(D)
December .....	29.60	12.67	19.72	9.83	9.64	16.96	6.69
January .....	28.70	12.68	18.83	10.89	9.63	16.09	7.75
February .....	30.00	14.59	20.22	10.80	11.62	17.48	7.68
March .....	30.90	15.42	21.04	12.08	12.35	18.30	8.83
April .....	31.20	14.95	21.37	12.94	11.81	18.62	9.66
May .....	32.90	15.60	23.12	13.09	12.46	20.38	9.82
June .....	34.10	21.35	24.28	(D)	18.53	21.54	(D)
July .....	36.70	23.09	26.93	(D)	20.33	24.21	(D)

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

(S) Insufficient number of reports to establish an estimate.

## Grapefruit Average Prices and Equivalent Returns by Season – California: 2015-2016 and 2016-2017

[Includes pummelos]

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)	
<b>2015-2016</b>							
November .....	(D)	18.54	(D)	(S)	16.17	(D)	(S)
December .....	(D)	20.53	(D)	(S)	18.16	(D)	(S)
January .....	(D)	19.45	(D)	(S)	17.07	(D)	(S)
February .....	(D)	17.56	(D)	(S)	15.17	(D)	(S)
March .....	(D)	16.72	(D)	(D)	14.25	(D)	(D)
April .....	(D)	16.37	(D)	(D)	13.77	(D)	(D)
May .....	(D)	17.99	(D)	(D)	15.43	(D)	(D)
June .....	(D)	16.60	(D)	(D)	13.99	(D)	(D)
July .....	(D)	17.62	(D)	(D)	15.03	(D)	(D)
August .....	(D)	17.45	(D)	(D)	14.78	(D)	(D)
September .....	(S)	(S)	(S)	(D)	(S)	(S)	(D)
October .....	(D)	26.43	(D)	(S)	24.12	(D)	(S)
<b>2016-2017</b>							
November .....	(D)	23.29	(D)	(S)	20.93	(D)	(S)
December .....	(D)	21.92	(D)	(S)	19.51	(D)	(S)
January .....	(D)	19.10	(D)	(S)	16.67	(D)	(S)
February .....	(D)	18.98	(D)	(D)	16.53	(D)	(D)
March .....	(D)	18.13	(D)	(D)	15.49	(D)	(D)
April .....	(D)	18.20	(D)	(D)	15.50	(D)	(D)
May .....	(D)	19.22	(D)	(D)	16.54	(D)	(D)
June .....	(D)	18.00	(D)	(D)	15.25	(D)	(D)
July .....	(D)	16.89	(D)	(D)	14.10	(D)	(D)

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

(S) Insufficient number of reports to establish an estimate.

## Grapefruit Average Prices and Equivalent Returns by Type and Season – Florida: 2015-2016 and 2016-2017

[Only months with reported prices in a given crop year are listed]

Type, season and month	FOB packed fresh (dollars per box)	Equivalent returns					
		Packinghouse door			On-tree		
		All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)	All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)
<b>Grapefruit, all</b>							
2015-2016							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	29.80	16.96	18.95	7.15	14.29	16.35	4.09
November .....	29.40	15.91	18.61	7.91	13.20	16.01	4.87
December .....	27.80	13.40	17.03	8.16	10.63	14.43	5.15
January .....	27.80	12.62	17.03	8.57	9.80	14.43	5.55
February .....	27.80	11.19	16.96	8.68	8.33	14.36	5.71
March .....	26.70	10.62	15.90	8.62	7.76	13.30	5.66
April .....	28.80	13.66	18.00	9.06	10.85	15.40	6.03
May .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
June .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2016-2017							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	36.00	21.77	25.23	(S)	19.08	22.63	(S)
November .....	28.20	14.51	17.43	7.33	11.78	14.83	4.30
December .....	27.70	13.38	16.92	8.72	10.58	14.32	5.66
January .....	29.30	13.61	18.49	10.39	10.74	15.89	7.34
February .....	29.40	13.78	18.60	11.36	10.88	16.00	8.31
March .....	29.60	13.68	18.76	11.68	10.78	16.16	8.66
April .....	(S)	10.89	(S)	10.34	7.98	(S)	7.39
May .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
June .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
<b>Grapefruit, white <sup>1</sup></b>							
2015-2016							
October .....	29.30	16.00	18.40	(S)	13.37	15.80	(S)
November .....	33.50	17.55	22.60	7.45	14.90	20.00	4.70
December .....	30.10	12.69	19.20	7.90	10.00	16.60	5.15
January .....	31.60	12.98	20.70	8.15	10.28	18.10	5.40
February .....	29.40	10.00	18.50	8.55	7.27	15.90	5.80
March .....	29.80	8.79	18.90	8.50	6.05	16.30	5.75
April .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2016-2017							
October .....	32.80	17.14	21.90	(S)	14.46	19.30	(S)
November .....	32.10	15.11	21.20	7.65	12.40	18.60	4.80
December .....	32.00	13.65	21.10	7.65	10.92	18.50	4.80
January .....	31.80	11.95	20.90	8.30	9.17	18.30	5.45
February .....	31.90	12.09	21.00	9.75	9.29	18.40	6.90
March .....	(S)	10.60	(S)	10.30	7.76	(S)	7.45
April .....	(S)	9.08	(S)	8.95	6.23	(S)	6.10
May .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)

See footnote(s) at end of table.

--continued

## Grapefruit Average Prices and Equivalent Returns by Type and Season – Florida: 2015-2016 and 2016-2017 (continued)

[Only months with reported prices in a given crop year are listed]

Type, 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>Grapefruit, red</b>							
2015-2016							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	29.80	17.06	19.00	7.20	14.38	16.40	4.10
November .....	28.90	15.67	18.10	8.00	12.95	15.50	4.90
December .....	27.50	13.56	16.70	8.25	10.77	14.10	5.15
January .....	27.10	12.53	16.30	8.70	9.68	13.70	5.60
February .....	27.50	11.70	16.70	8.75	8.79	14.10	5.65
March .....	26.60	11.42	15.80	8.70	8.51	13.20	5.60
April .....	28.80	14.21	18.00	9.20	11.40	15.40	6.10
May .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
June .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2016-2017							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	36.30	22.23	25.50	(S)	19.54	22.90	(S)
November .....	27.60	14.37	16.80	7.20	11.64	14.20	4.10
December .....	27.20	13.33	16.40	8.95	10.52	13.80	5.85
January .....	28.90	14.00	18.10	11.00	11.12	15.50	7.90
February .....	29.10	14.15	18.30	11.80	11.23	15.70	8.70
March .....	29.50	14.73	18.70	12.40	11.81	16.10	9.30
April .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
May .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
June .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)

(S) Insufficient number of reports to establish an estimate.

<sup>1</sup> Includes seedy grapefruit.



## Grapefruit Average Prices and Equivalent Returns by Season – Texas: 2015-2016 and 2016-2017

[Only months with reported prices in a given crop year are listed]

Season and month	FOB packed fresh (dollars per box)	Equivalent returns					
		Packinghouse door			On-tree		
		All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)	All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)
<b>2015-2016</b>							
October .....	37.14	20.58	25.54	(D)	19.00	23.93	(D)
November .....	31.50	15.29	19.90	(D)	13.72	18.29	(D)
December .....	27.30	11.09	15.70	(D)	9.53	14.09	(D)
January .....	27.80	9.72	16.20	(D)	8.18	14.59	(D)
February .....	30.50	8.72	18.90	(D)	7.20	17.29	(D)
March .....	31.70	8.95	20.10	(D)	7.43	18.49	(D)
April .....	31.70	8.82	20.10	(D)	7.30	18.49	(D)
May .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
<b>2016-2017</b>							
October .....	44.10	28.14	32.50	(D)	26.55	30.89	(D)
November .....	33.40	17.48	21.80	(D)	15.90	20.19	(D)
December .....	31.20	14.02	19.60	(D)	12.46	17.99	(D)
January .....	29.90	11.52	18.30	(D)	9.97	16.69	(D)
February .....	30.20	9.61	18.60	(D)	8.08	16.99	(D)
March .....	32.60	10.53	21.00	(D)	9.00	19.39	(D)
April .....	32.60	10.62	21.00	(D)	9.09	19.39	(D)
May .....	32.60	(S)	21.00	(S)	(S)	19.39	(S)

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

(S) Insufficient number of reports to establish an estimate.

## Grapefruit Average Prices and Equivalent Returns by Season – United States: 2015-2016 and 2016-2017

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

Season and month	FOB packed fresh (dollars per box)	Equivalent returns					
		Packinghouse door			On-tree		
		All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)	All (dollars per box)	Fresh (dollars per box)	Process (dollars per box)
<b>2015-2016</b>							
November .....	28.90	16.29	18.77	7.63	13.63	16.22	4.57
December .....	27.90	14.41	17.97	8.01	11.70	15.43	4.99
January .....	27.80	13.19	17.56	8.49	10.41	15.01	5.46
February .....	27.50	11.48	17.19	8.64	8.65	14.63	5.67
March .....	26.60	11.30	16.83	8.42	8.49	14.32	5.45
April .....	(D)	15.57	(D)	(D)	12.91	(D)	(D)
May .....	(D)	17.84	(D)	(D)	15.26	(D)	(D)
June .....	(D)	16.54	(D)	(D)	13.93	(D)	(D)
July .....	(D)	17.62	(D)	(D)	15.03	(D)	(D)
August .....	(D)	17.45	(D)	(D)	14.78	(D)	(D)
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	36.00	21.77	25.23	6.36	19.08	22.63	3.30
<b>2016-2017</b>							
November .....	28.70	15.81	18.58	7.33	13.14	16.03	4.30
December .....	28.30	14.87	18.47	8.55	12.14	15.94	5.48
January .....	28.90	14.08	18.78	10.32	11.25	16.23	7.26
February .....	28.90	14.42	19.08	11.22	11.57	16.54	8.16
March .....	29.60	14.79	20.51	10.82	11.95	18.03	7.73
April .....	30.60	16.37	23.24	(D)	13.62	20.87	(D)
May .....	(D)	19.12	(D)	(D)	16.44	(D)	(D)
June .....	(D)	17.93	(D)	(D)	15.18	(D)	(D)
July .....	(D)	16.89	(D)	(D)	14.10	(D)	(D)

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

(S) Insufficient number of reports to establish an estimate.

## Lemon Average Prices and Equivalent Returns by Season – California: 2015-2016 and 2016-2017

[Only months with reported prices in a given crop year are listed]

State, 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>California</b>							
<b>2015-2016</b>							
August .....	(S)	(S)	(S)	(D)	(S)	(S)	(D)
September .....	51.60	37.26	41.96	(D)	31.16	35.70	(D)
October .....	55.40	39.39	45.76	(D)	33.33	39.50	(D)
November .....	55.90	35.69	46.26	(D)	29.75	40.00	(D)
December .....	52.30	30.45	42.66	(D)	24.59	36.40	(D)
January .....	50.00	30.06	40.36	(D)	24.15	34.10	(D)
February .....	49.60	28.22	39.96	(D)	22.37	33.70	(D)
March .....	48.30	30.91	38.66	(D)	24.93	32.40	(D)
April .....	48.30	31.08	38.66	(D)	25.09	32.40	(D)
May .....	53.20	37.74	43.56	(D)	31.67	37.30	(D)
June .....	55.90	36.38	46.26	(D)	30.43	40.00	(D)
July .....	53.80	34.32	44.16	(D)	28.37	37.90	(D)
<b>2016-2017</b>							
August .....	(S)	(S)	(S)	(D)	(S)	(S)	(D)
September .....	52.50	37.50	42.67	(D)	31.29	36.28	(D)
October .....	52.40	37.41	42.57	(D)	31.21	36.18	(D)
November .....	49.90	33.66	40.07	(D)	27.50	33.68	(D)
December .....	47.90	29.04	38.07	(D)	22.99	31.68	(D)
January .....	47.50	29.69	37.67	(D)	23.61	31.28	(D)
February .....	47.80	31.45	37.97	(D)	25.31	31.58	(D)
March .....	49.90	30.70	40.07	(D)	24.65	33.68	(D)
April .....	52.80	33.17	42.97	(D)	27.10	36.58	(D)
May .....	55.20	37.44	45.37	(D)	31.30	38.98	(D)
June .....	62.40	47.15	52.57	(D)	40.90	46.18	(D)
July .....	62.00	48.14	52.17	(D)	41.85	45.78	(D)

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

(S) Insufficient number of reports to establish an estimate.

## Lemon Average Prices and Equivalent Returns by Season – United States: 2015-2016 and 2016-2017

[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>2015-2016</b>							
August .....	(S)	(S)	(S)	(D)	(S)	(S)	(D)
September .....	52.10	37.89	42.42	(D)	31.78	36.16	(D)
October .....	55.30	40.41	45.64	(D)	34.31	39.38	(D)
November .....	55.60	36.72	45.99	(D)	30.74	39.73	(D)
December .....	51.90	31.14	42.26	(D)	25.25	36.00	(D)
January .....	49.40	29.88	39.74	(D)	23.96	33.48	(D)
February .....	49.50	28.15	39.88	(D)	22.30	33.62	(D)
March .....	48.30	30.91	38.66	(D)	24.93	32.40	(D)
April .....	48.30	31.08	38.66	(D)	25.09	32.40	(D)
May .....	53.20	37.74	43.56	(D)	31.67	37.30	(D)
June .....	55.90	36.38	46.26	(D)	30.43	40.00	(D)
July .....	53.80	34.32	44.16	(D)	28.37	37.90	(D)
<b>2016-2017</b>							
August .....	(S)	(S)	(S)	(D)	(S)	(S)	(D)
September .....	52.40	38.06	42.59	(D)	31.84	36.20	(D)
October .....	52.20	37.72	42.33	(D)	31.49	35.94	(D)
November .....	50.20	34.04	40.32	(D)	27.88	33.93	(D)
December .....	47.80	29.18	37.99	(D)	23.13	31.60	(D)
January .....	47.10	29.53	37.30	(D)	23.44	30.91	(D)
February .....	47.70	31.26	37.84	(D)	25.12	31.45	(D)
March .....	49.90	30.70	40.07	(D)	24.65	33.68	(D)
April .....	52.80	33.17	42.97	(D)	27.10	36.58	(D)
May .....	55.20	37.44	45.37	(D)	31.30	38.98	(D)
June .....	62.40	47.15	52.57	(D)	40.90	46.18	(D)
July .....	62.00	48.14	52.17	(D)	41.85	45.78	(D)

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

(S) Insufficient number of reports to establish an estimate.

## Tangelo Average Prices and Equivalent Returns by Season – Florida: 2015-2016 and 2016-2017

[Only months with reported prices in a given crop year are listed]

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>2015-2016</b>							
November .....	36.30	19.25	24.65	5.90	14.63	19.85	1.75
December .....	34.50	16.56	22.85	6.25	12.01	18.05	2.10
January .....	62.10	34.14	50.45	7.10	29.59	45.65	2.95
February .....	63.30	25.92	51.65	7.75	21.50	46.85	3.60
March .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
<b>2016-2017</b> <sup>1</sup>							
November .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
December .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
January .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
February .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
March .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

(NA) Not available.

(S) Insufficient number of reports to establish an estimate.

<sup>1</sup> Beginning in 2016-2017, tangelos are included in tangerines and mandarins for Florida.

## Tangerine and Mandarin Average Prices and Equivalent Returns by Season – Florida: 2015-2016 and 2016-2017

[Only months with reported prices in a given crop year are listed]

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>Florida</b>							
2015-2016 <sup>1</sup>							
September .....	45.20	31.80	31.80	(S)	26.60	26.60	(S)
October .....	45.00	25.33	31.60	7.50	20.39	26.40	3.30
November .....	43.70	23.00	30.30	7.32	18.11	25.10	3.12
December .....	44.70	22.20	31.30	7.60	17.39	26.10	3.40
January .....	52.30	32.44	38.90	7.07	27.44	33.70	2.87
February .....	44.10	24.43	30.70	8.41	19.51	25.50	4.21
March .....	36.80	16.23	23.40	8.80	11.52	18.20	4.60
April .....	36.10	17.94	22.70	9.10	13.09	17.50	4.90
May .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
2016-2017 <sup>2 3</sup>							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	46.20	27.87	32.80	8.50	22.87	27.60	4.30
November .....	47.10	26.89	33.70	9.25	21.97	28.50	5.05
December .....	46.20	22.43	32.80	9.15	17.67	27.60	4.95

(S) Insufficient number of reports to establish an estimate.

<sup>1</sup> Includes only Fallglo, Sunburst, and Honey varieties.

<sup>2</sup> Beginning in January 2017, monthly price estimates discontinued.

<sup>3</sup> Includes only Fallglo, Sunburst, and Honey varieties, Temples and tangelos.

## Tangerine and Mandarin Average Prices and Equivalent Returns by Season – United States: 2015-2016 and 2016-2017

[Only months with reported prices in a given crop year are listed. Includes California and Florida]

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>2015-2016 <sup>1</sup></b>							
September .....	45.20	31.80	31.80	(S)	26.60	26.60	(S)
October .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
November .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
December .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
January .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
February .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
March .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
April .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
May .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
<b>2016-2017 <sup>2 3</sup></b>							
September .....	(S)	(S)	(S)	(S)	(S)	(S)	(S)
October .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
November .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)
December .....	(D)	(D)	(D)	(D)	(D)	(D)	(D)

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

(S) Insufficient number of reports to establish an estimate.

<sup>1</sup> Includes tangelos and tangors in California. Includes only Fallglo, Sunburst, and Honey varieties in Florida.

<sup>2</sup> Beginning in January 2017, monthly price estimates discontinued.

<sup>3</sup> Includes tangelos and tangors in California. Includes only Fallglo, Sunburst, and Honey varieties, Temples and tangelos in Florida.

**Marketing Year Average Prices Received for Oranges – States and United States: 2015-2016 and 2016-2017**

State, type, and utilization	2015-2016			2016-2017		
	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)	14.65	11.95	(NA)	17.97	15.23
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
Valencia .....	(NA)	11.94	9.21	(NA)	20.69	17.95
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
All .....	(NA)	14.12	11.42	(NA)	18.56	15.82
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>Florida</b>						
Non-Valencia <sup>1</sup> .....	(NA)	12.13	8.99	(NA)	11.64	8.49
Fresh .....	31.50	20.35	17.25	32.00	20.85	17.75
Processing .....	(NA)	11.60	8.45	(NA)	11.20	8.05
Valencia .....	(NA)	13.87	10.62	(NA)	14.05	10.75
Fresh .....	26.90	15.75	12.45	31.70	20.55	17.25
Processing .....	(NA)	13.80	10.55	(NA)	13.80	10.50
All <sup>1</sup> .....	(NA)	13.10	9.90	(NA)	12.89	9.67
Fresh .....	29.50	18.32	15.14	31.90	20.71	17.51
Processing .....	(NA)	12.84	9.63	(NA)	12.56	9.33
<b>Texas</b>						
Early and midseason .....	(NA)	17.21	15.42	(NA)	15.69	13.89
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
Valencia .....	(NA)	20.78	18.97	(NA)	25.70	23.87
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
All .....	(NA)	17.93	16.13	(NA)	17.74	15.93
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>United States</b>						
Early, midseason, and Navel <sup>1</sup> .....	(NA)	13.54	10.66	(NA)	14.91	11.98
Fresh .....	28.10	18.37	15.70	30.90	21.08	18.38
Processing .....	(NA)	9.31	6.23	(NA)	9.63	6.52
Valencia .....	(NA)	13.56	10.42	(NA)	15.53	12.36
Fresh .....	26.70	16.72	13.95	33.90	23.87	21.10
Processing .....	(NA)	13.04	9.83	(NA)	13.35	10.07
All <sup>1</sup> .....	(NA)	13.55	10.56	(NA)	15.16	12.14
Fresh .....	27.80	18.07	15.39	31.60	21.73	19.01
Processing .....	(NA)	11.30	8.15	(NA)	11.47	8.28

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

(NA) Not available.

<sup>1</sup> In 2015-2016, includes small quantities of Temples in Florida.

**Marketing Year Average Prices Received for Grapefruit – States and United States: 2015-2016 and 2016-2017**

State, type, and utilization	2015-2016			2016-2017		
	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)	17.81	15.27	(NA)	19.52	16.92
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>Florida</b>						
Red .....	(NA)	13.06	10.22	(NA)	14.54	11.69
Fresh .....	27.90	17.10	14.50	29.10	18.30	15.70
Processing .....	(NA)	8.60	5.50	(NA)	10.80	7.70
White <sup>2</sup> .....	(NA)	11.13	8.41	(NA)	12.36	9.57
Fresh .....	30.90	20.00	17.40	32.00	21.10	18.50
Processing .....	(NA)	8.39	5.64	(NA)	9.05	6.20
All .....	(NA)	12.61	9.80	(NA)	14.12	11.29
Fresh .....	28.30	17.44	14.84	29.40	18.62	16.02
Processing .....	(NA)	8.53	5.55	(NA)	10.35	7.32
<b>Texas</b> .....	(NA)	10.51	8.97	(NA)	12.98	11.43
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>United States</b> <sup>1</sup> .....	(NA)	13.09	10.64	(NA)	15.07	12.65
Fresh .....	28.80	18.91	16.63	30.80	20.92	18.68
Processing .....	(NA)	6.15	3.51	(NA)	7.08	4.41

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

(NA) Not available.

<sup>1</sup> Includes pummelos.

<sup>2</sup> Includes seedy grapefruit.

**Marketing Year Average Prices Received for Lemons, Tangelos, Tangerines and Mandarins – States and United States: 2015-2016 and 2016-2017**

Crop, State, and utilization	2015-2016			2016-2017		
	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)	(D)	(D)	(NA)	(D)	(D)
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
California .....	(NA)	(D)	(D)	(NA)	(D)	(D)
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
United States .....	(NA)	33.41	27.44	(NA)	34.91	28.78
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
<b>Tangelos</b>						
Florida <sup>1</sup> .....	(NA)	22.52	17.97	(NA)	(NA)	(NA)
Fresh .....	44.10	32.45	27.65	(NA)	(NA)	(NA)
Processing .....	(NA)	6.64	2.49	(NA)	(NA)	(NA)
<b>Tangerines and mandarins</b>						
California <sup>2</sup> .....	(NA)	(D)	(D)	(NA)	(D)	(D)
Fresh .....	(D)	(D)	(D)	(D)	(D)	(D)
Processing .....	(NA)	(D)	(D)	(NA)	(D)	(D)
Florida <sup>3</sup> .....	(NA)	23.17	18.29	(NA)	22.31	17.59
Fresh .....	43.80	30.40	25.20	46.40	33.00	27.80
Processing .....	(NA)	8.01	3.81	(NA)	10.40	6.20
United States <sup>4</sup> .....	(NA)	21.23	17.70	(NA)	22.39	18.83
Fresh .....	41.00	31.74	28.71	42.30	32.88	29.81
Processing .....	(NA)	-0.01	-4.51	(NA)	1.06	-3.52

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

(NA) Not available.

<sup>1</sup> Beginning in 2016-2017, tangelos are included in tangerines and mandarins.

<sup>2</sup> Includes tangelos and tangors.

<sup>3</sup> In 2015-2016, includes only Fallglo, Sunburst and Honey varieties. In 2016-2017, includes only Fallglo, Sunburst and Honey varieties, Temples, and tangelos.

<sup>4</sup> Includes tangelos and tangors in California. In 2015-2016, includes only Fallglo, Sunburst and Honey varieties in Florida. In 2016-2017, includes only Fallglo, Sunburst and Honey varieties, Temples, and tangelos in Florida.

## Terms and Definitions

**Brix:** A measure of the concentration of soluble solids in juice, mostly sugar content as well as salts, protein, and acid content. It is a quality factor that helps determine when the fruit is ready for harvest.

**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: 2014-2015, 2015-2016, and 2016-2017

State	Crop year		
	2014-2015	2015-2016	2016-2017
	(pounds)	(pounds)	(pounds)
<b>Oranges</b>			
California .....	80	80	80
Florida <sup>1</sup> .....	90	90	90
Texas .....	85	85	85
<b>Grapefruit</b>			
California <sup>2</sup> .....	80	80	80
Florida .....	85	85	85
Texas .....	80	80	80
<b>Lemons</b>			
Arizona .....	80	80	80
California .....	80	80	80
<b>Tangelos</b>			
Florida <sup>3</sup> .....	90	90	(NA)
<b>Tangerines</b>			
Arizona <sup>4 5</sup> .....	80	(NA)	(NA)
California <sup>5</sup> .....	80	80	80
Florida <sup>6</sup> .....	95	95	95

(NA) Not available.

<sup>1</sup> Includes Temples in 2014-2015 and 2015-2016.

<sup>2</sup> Includes pummelos.

<sup>3</sup> Beginning in 2016-2017, tangelos are included in tangerines and mandarins.

<sup>4</sup> Beginning in 2015-2016 estimates discontinued.

<sup>5</sup> Includes tangelos and tangors.

<sup>6</sup> Beginning in 2016-2017, Temples and tangelos are included.

## Marketing Seasons

### Oranges, Early, midseason, and Navel:

California.....	November 1 to June 15
Florida (including Temples).....	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 March 31
California.....	August 1 to July 31

### Tangelos:

Florida .....	October 15 to March 15
---------------	------------------------

### Tangerines:

Arizona (including tangelos and tangors).....	November 1 to February 28
California (including tangelos and tangors) .....	November 1 to May 15
Florida .....	September 15 to April 30

## Statistical Methodology

**Survey Procedures:** Grower, packer, and objective measurement surveys are used to collect acreage, production, yield, price, and value data. Grower and packer 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, packer, 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 and packer 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@nass.usda.gov](mailto:nass@nass.usda.gov)

Lance Honig, Chief, Crops Branch .....	(202) 720-2127
Jorge Garcia-Pratts, Head, Fruits, Vegetables and Special Crops Section.....	(202) 720-2127
Vincent Davis – Bananas, Cherries, Garlic, Lettuce, Mint, Papaya, Pears, Strawberries, Taro, Tomatoes .....	(202) 720-2157
Fleming Gibson – Avocados, Cauliflower, Celery, Citrus, Coffee, Dates, Figs, Kiwifruit, Nectarines, Olives, Watermelons .....	(202) 720-5412
Greg Lemmons – Blackberries, Blueberries, Boysenberries, Cranberries, Cucumbers, Potatoes, Pumpkins, Raspberries, Squash, Sugarbeets, Sugarcane, Sweet Potatoes .....	(202) 720-4285
Dan Norris – Artichokes, Austrian Winter Peas, Cantaloupes, Dry Beans, Dry Edible Peas, Honeydews, Lentils, Mushrooms, Peaches, Snap Beans .....	(202) 720-3250
Daphne Schaubert – Bell Peppers, Broccoli, Cabbage, Chile Peppers, Floriculture, Grapes, Hops, Maple Syrup, Tree Nuts, Spinach .....	(202) 720-4215
Chris Singh – Apples, Apricots, Asparagus, Carrots, Lima Beans, Onions, Plums, Prunes, Sweet Corn, Tobacco .....	(202) 720-4288

## 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.

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@nass.usda.gov](mailto:nass@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 [http://www.ascr.usda.gov/complaint\\_filing\\_cust.html](http://www.ascr.usda.gov/complaint_filing_cust.html), 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).

## **USDA NASS Data Users' Meeting Tuesday, October 24, 2017**

**Embassy Suites Hotel Kansas City Plaza  
220 West 43<sup>rd</sup> Street  
Kansas City, MO 64111  
816-756-1720**

USDA's National Agricultural Statistics Service will hold an open forum for users of U.S. domestic and international agriculture data. NASS is organizing the 2017 Data Users' Meeting in cooperation with five other USDA agencies Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board and the Census Bureau's Foreign Trade Division. Agency representatives will provide updates on recent and pending changes in statistical and information programs important to agriculture, answer questions, and welcome comments and input from data users.

For registration details or additional information about the Data Users' Meeting, see the meeting page on the NASS website ([https://www.nass.usda.gov/Education\\_and\\_Outreach/Meeting/index.php](https://www.nass.usda.gov/Education_and_Outreach/Meeting/index.php)) or contact Zisa Lubarov-Walton (NASS) at 202-720-8141 or at [zisa.lubarov-walton@nass.usda.gov](mailto:zisa.lubarov-walton@nass.usda.gov).

The Data Users' Meeting precedes the Industry Outlook Conference at the same location on Wednesday, October 25, 2017. The outlook meeting brings together analysts from various commodity sectors to discuss developments and trends. For registration details or additional information about the Industry Outlook Conference, see the conference page on the LMIC website (<http://lmic.info/page/meetings>) or contact James Robb at (303) 716-9933.