



# Crop Production

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## **Cotton Production Down 3 Percent from November Forecast Orange Production Unchanged from October Forecast**

**All cotton** production is forecast at 20.2 million 480-pound bales, down 3 percent from the previous forecast but up 10 percent from 2018. Based on conditions as of December 1, yields are expected to average 775 pounds per harvested acre, down 24 pounds from the previous forecast and down 89 pounds from 2018. Upland cotton production is forecast at 19.5 million 480-pound bales, down 3 percent from the previous forecast but up 11 percent from 2018. Pima cotton production is forecast at 726,000 bales, down 3 percent from the previous forecast and down 9 percent from 2018. All cotton area harvested is forecast at 12.5 million acres, unchanged from the previous forecast but up 23 percent from 2018.

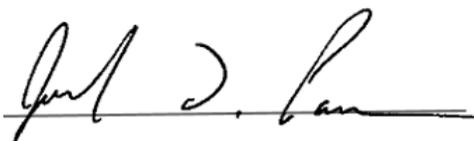
**The United States all orange** forecast for the 2019-2020 season is 5.33 million tons, unchanged from the previous forecast and virtually unchanged from the 2018-2019 final utilization. The Florida all orange forecast, at 74.0 million boxes (3.33 million tons), is unchanged from the previous forecast but up 3 percent from last season's final utilization. Early, midseason, and Navel varieties in Florida are forecast at 32.0 million boxes (1.44 million tons), unchanged from the previous forecast but up 5 percent from last season's final utilization. The Florida Valencia orange forecast, at 42.0 million boxes (1.89 million tons), is unchanged from the previous forecast but up 2 percent from last season's final utilization. California and Texas orange production forecasts were carried forward from the previous forecast.

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This report was approved on December 10, 2019.



Secretary of Agriculture  
Designate  
Stephen L. Censky



Agricultural Statistics Board  
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Joseph L. Parsons

## Contents

Cotton Area Harvested, Yield, and Production by Type – States and United States: 2018 and Forecasted December 1, 2019 .....	4
Cottonseed Production – United States: 2018 and Forecasted December 1, 2019 .....	5
Cotton Production – United States Chart .....	5
Utilized Production of Citrus Fruits by Crop – States and United States: 2018-2019 and Forecasted December 1, 2019 .....	6
Sugarcane for Sugar and Seed Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted December 1, 2019 .....	7
Pecan Production by Variety – States and United States: 2018 and Forecasted December 1, 2019.....	8
Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019.....	10
Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019 .....	12
Fruits and Nuts Production in Domestic Units – United States: 2019 and 2020 .....	14
Fruits and Nuts Production in Metric Units – United States: 2019 and 2020.....	15
Cotton Cumulative Boll Counts – Selected States: 2015-2019 .....	16
Percent of Normal Precipitation Map .....	17
Departure from Normal Temperature Map .....	17
November Weather Summary.....	18
November Agricultural Summary.....	18
Crop Comments .....	19
Statistical Methodology .....	21
Information Contacts .....	23

**Cotton Area Harvested, Yield, and Production by Type – States and United States: 2018 and Forecasted December 1, 2019**

Type and State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2018	2019	2018	2019		2018	2019
				November 1	December 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) <sup>2</sup>	(1,000 bales) <sup>2</sup>
<b>Upland</b>							
Alabama .....	497.0	535.0	858	969	987	888.0	1,100.0
Arizona .....	159.0	159.0	1,319	1,555	1,525	437.0	505.0
Arkansas .....	480.0	610.0	1,133	1,102	1,102	1,133.0	1,400.0
California .....	47.0	54.0	1,910	1,778	1,644	187.0	185.0
Florida .....	93.0	111.0	532	930	886	103.0	205.0
Georgia .....	1,305.0	1,390.0	719	932	898	1,955.0	2,600.0
Kansas .....	152.0	160.0	1,077	840	840	341.0	280.0
Louisiana .....	189.0	270.0	1,067	1,031	1,031	420.0	580.0
Mississippi .....	615.0	710.0	1,141	1,082	1,082	1,462.0	1,600.0
Missouri .....	322.0	368.0	1,373	1,265	1,330	921.0	1,020.0
New Mexico .....	56.0	45.0	977	1,173	1,227	114.0	115.0
North Carolina .....	415.0	495.0	812	931	989	702.0	1,020.0
Oklahoma .....	550.0	575.0	595	609	543	682.0	650.0
South Carolina .....	275.0	295.0	733	814	814	420.0	500.0
Tennessee .....	355.0	400.0	1,041	1,116	1,104	770.0	920.0
Texas .....	4,350.0	6,000.0	756	568	528	6,850.0	6,600.0
Virginia .....	97.0	104.0	896	923	923	181.0	200.0
United States .....	9,957.0	12,281.0	847	784	761	17,566.0	19,480.0
<b>American Pima</b>							
Arizona .....	14.5	8.0	943	1,020	900	28.5	15.0
California .....	210.0	204.0	1,662	1,647	1,600	727.0	680.0
New Mexico .....	6.8	5.4	812	800	889	11.5	10.0
Texas .....	17.5	11.0	933	916	916	34.0	21.0
United States .....	248.8	228.4	1,545	1,570	1,526	801.0	726.0
<b>All</b>							
Alabama .....	497.0	535.0	858	969	987	888.0	1,100.0
Arizona .....	173.5	167.0	1,288	1,529	1,495	465.5	520.0
Arkansas .....	480.0	610.0	1,133	1,102	1,102	1,133.0	1,400.0
California .....	257.0	258.0	1,707	1,674	1,609	914.0	865.0
Florida .....	93.0	111.0	532	930	886	103.0	205.0
Georgia .....	1,305.0	1,390.0	719	932	898	1,955.0	2,600.0
Kansas .....	152.0	160.0	1,077	840	840	341.0	280.0
Louisiana .....	189.0	270.0	1,067	1,031	1,031	420.0	580.0
Mississippi .....	615.0	710.0	1,141	1,082	1,082	1,462.0	1,600.0
Missouri .....	322.0	368.0	1,373	1,265	1,330	921.0	1,020.0
New Mexico .....	62.8	50.4	959	1,133	1,190	125.5	125.0
North Carolina .....	415.0	495.0	812	931	989	702.0	1,020.0
Oklahoma .....	550.0	575.0	595	609	543	682.0	650.0
South Carolina .....	275.0	295.0	733	814	814	420.0	500.0
Tennessee .....	355.0	400.0	1,041	1,116	1,104	770.0	920.0
Texas .....	4,367.5	6,011.0	757	569	529	6,884.0	6,621.0
Virginia .....	97.0	104.0	896	923	923	181.0	200.0
United States .....	10,205.8	12,509.4	864	799	775	18,367.0	20,206.0

<sup>1</sup> Production ginned and to be ginned.

<sup>2</sup> 480-pound net weight bale.

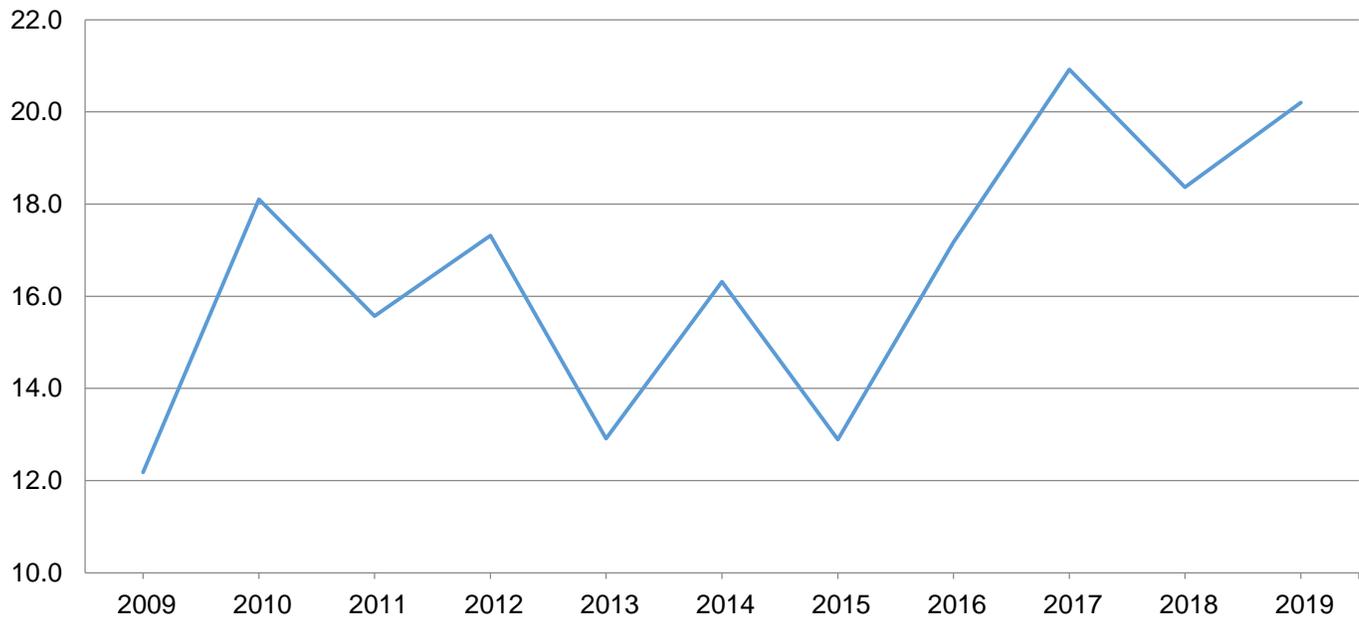
## Cottonseed Production – United States: 2018 and Forecasted December 1, 2019

State	Production	
	2018 (1,000 tons)	2019 <sup>1</sup> (1,000 tons)
United States .....	5,631.0	6,266.0

<sup>1</sup> Based on a 3-year average lint-seed ratio.

## Cotton Production - United States

Million bales



## Utilized Production of Citrus Fruits by Crop – States and United States: 2018-2019 and Forecasted December 1, 2019

[The crop year begins with the bloom of the first year shown and ends with the completion of harvest the following year.]

Crop and State	Utilized production boxes <sup>1</sup>		Utilized production ton equivalent	
	2018-2019 (1,000 boxes)	2019-2020 (1,000 boxes)	2018-2019 (1,000 tons)	2019-2020 (1,000 tons)
<b>Oranges</b>				
California, all <sup>2</sup> .....	49,800	47,000	1,992	1,880
Early, mid, and Navel <sup>3</sup> .....	40,800	38,000	1,632	1,520
Valencia .....	9,000	9,000	360	360
Florida, all .....	71,750	74,000	3,229	3,330
Early, mid, and Navel <sup>3</sup> .....	30,400	32,000	1,368	1,440
Valencia .....	41,350	42,000	1,861	1,890
Texas, all <sup>2</sup> .....	2,500	2,700	106	115
Early, mid, and Navel <sup>3</sup> .....	2,210	2,050	94	87
Valencia .....	290	650	12	28
United States, all .....	124,050	123,700	5,327	5,325
Early, mid, and Navel <sup>3</sup> .....	73,410	72,050	3,094	3,047
Valencia .....	50,640	51,650	2,233	2,278
<b>Grapefruit</b>				
California <sup>2</sup> .....	3,200	4,200	128	168
Florida, all .....	4,510	4,900	192	208
Red .....	3,740	4,100	159	174
White .....	770	800	33	34
Texas <sup>2</sup> .....	6,100	5,700	244	228
United States .....	13,810	14,800	564	604
<b>Tangerines and mandarins <sup>4</sup></b>				
California <sup>2</sup> .....	26,000	23,000	1,040	920
Florida .....	990	1,050	47	50
United States .....	26,990	24,050	1,087	970
<b>Lemons <sup>2</sup></b>				
Arizona .....	1,350	1,400	54	56
California .....	22,800	20,000	912	800
United States .....	24,150	21,400	966	856

<sup>1</sup> Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California-80, Florida-85, Texas-80; tangerines and mandarins in California-80, Florida-95; lemons-80.

<sup>2</sup> Estimates for current year carried forward from an earlier forecast.

<sup>3</sup> Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

<sup>4</sup> Includes tangelos and tangors.

**Sugarcane for Sugar and Seed Area Harvested, Yield, and Production – States and United States:  
2018 and Forecasted December 1, 2019**

State	Area harvested		Yield per acre <sup>1</sup>			Production <sup>1</sup>	
	2018	2019	2018	2019		2018	2019
				November 1	December 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida .....	412.3	408.3	41.9	44.1	42.5	17,256	17,353
Louisiana .....	448.5	470.4	35.4	31.0	30.0	15,861	14,112
Texas .....	38.9	33.6	36.6	37.2	36.6	1,425	1,230
United States .....	899.7	912.3	38.4	37.1	35.8	34,542	32,695

<sup>1</sup> Net tons.

**Pecan Production by Variety – States and United States: 2018 and Forecasted December 1, 2019**

State and variety	Utilized production (in-shell basis)	
	2018 (1,000 pounds)	2019 (1,000 pounds)
Alabama <sup>1</sup> .....	1,600	(NA)
Improved .....	1,490	(NA)
Native and seedling .....	110	(NA)
Arizona .....	27,900	38,000
Improved .....	27,900	38,000
California <sup>1</sup> .....	3,700	(NA)
Improved .....	3,700	(NA)
Georgia .....	70,000	67,000
Improved .....	70,000	67,000
Louisiana <sup>1</sup> .....	6,030	(NA)
Improved .....	2,510	(NA)
Native and seedling .....	3,520	(NA)
New Mexico .....	91,100	97,000
Improved .....	91,100	97,000
Oklahoma .....	9,000	18,000
Improved .....	2,970	4,500
Native and seedling .....	6,030	13,500
Texas .....	33,600	41,000
Improved .....	28,800	35,000
Native and seedling .....	4,800	6,000
United States .....	242,930	261,000
Improved .....	228,470	241,500
Native and seedling .....	14,460	19,500

(NA) Not available.

<sup>1</sup> Estimates discontinued in 2019.

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## Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Grains and hay</b>				
Barley .....	2,548	2,721	1,982	2,182
Corn for grain <sup>1</sup> .....	89,129	89,942	81,740	81,815
Corn for silage .....	(NA)		6,113	
Hay, all .....	(NA)	(NA)	52,839	52,773
Alfalfa .....	(NA)	(NA)	16,608	16,828
All other .....	(NA)	(NA)	36,231	35,945
Oats .....	2,746	2,810	865	826
Proso millet .....	443	433	403	
Rice .....	2,946	2,540	2,915	2,477
Rye .....	2,011	1,865	273	310
Sorghum for grain <sup>1</sup> .....	5,690	5,260	5,061	4,715
Sorghum for silage .....	(NA)		264	
Wheat, all .....	47,815	45,158	39,612	37,162
Winter .....	32,542	31,159	24,742	24,327
Durum .....	2,073	1,339	1,974	1,175
Other spring .....	13,200	12,660	12,896	11,660
<b>Oilseeds</b>				
Canola .....	1,990.7	2,040.0	1,942.5	1,994.0
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	208	355	198	340
Mustard seed .....	102.5	110.0	97.5	104.5
Peanuts .....	1,425.5	1,425.0	1,373.5	1,383.0
Rapeseed .....	5.7	14.8	5.4	14.0
Safflower .....	167.5	153.0	156.4	145.5
Soybeans for beans .....	89,167	76,457	87,594	75,626
Sunflower .....	1,301.0	1,358.8	1,217.4	1,306.9
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all .....	14,100.3	13,761.5	10,205.8	12,509.4
Upland .....	13,850.0	13,531.0	9,957.0	12,281.0
American Pima .....	250.3	230.5	248.8	228.4
Sugarbeets .....	1,113.1	1,134.9	1,095.4	971.2
Sugarcane .....	(NA)	(NA)	899.7	912.3
Tobacco .....	(NA)	(NA)	291.4	228.6
<b>Dry beans, peas, and lentils</b>				
Austrian winter peas <sup>2</sup> .....	16.4	(NA)	10.9	(NA)
Chickpeas <sup>3</sup> .....	859.6	445.2	842.8	437.0
Dry edible beans <sup>3</sup> .....	2,081.0	1,307.5	2,016.0	1,260.5
Dry edible peas <sup>2</sup> .....	856.5	1,097.0	807.9	1,046.0
Lentils .....	780.0	481.0	718.0	459.0
Wrinkled seed peas <sup>2</sup> .....	(NA)	(NA)	(NA)	(NA)
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	55.0	55.8
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		58.5	
Potatoes .....	1,026.5	961.8	1,014.8	938.9
Spearmint oil .....	(NA)		20.8	
Taro (Hawaii) <sup>4</sup> .....	(NA)	(NA)	0.3	(NA)

See footnote(s) at end of table.

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## Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year.  
Blank data cells indicate estimation period has not yet begun]

Crop	Yield per acre		Production		
	2018	2019	2018 (1,000)	2019 (1,000)	
<b>Grains and hay</b>					
Barley .....	bushels	77.5	77.7	153,527	169,566
Corn for grain .....	bushels	176.4	167.0	14,420,101	13,661,005
Corn for silage .....	tons	19.9		121,361	
Hay, all .....	tons	2.34	2.48	123,600	130,932
Alfalfa .....	tons	3.17	3.22	52,634	54,219
All other .....	tons	1.96	2.13	70,966	76,713
Oats .....	bushels	64.9	64.3	56,130	53,148
Proso millet .....	bushels	29.8		11,991	
Rice <sup>5</sup> .....	cwt	7,692	7,587	224,211	187,936
Rye .....	bushels	30.9	34.3	8,432	10,622
Sorghum for grain .....	bushels	72.1	75.9	364,986	357,640
Sorghum for silage .....	tons	12.6		3,326	
Wheat, all .....	bushels	47.6	51.7	1,885,156	1,920,139
Winter .....	bushels	47.9	53.6	1,183,939	1,304,003
Durum .....	bushels	39.5	45.7	77,985	53,756
Other spring .....	bushels	48.3	48.2	623,232	562,380
<b>Oilseeds</b>					
Canola .....	pounds	1,861	1,860	3,615,440	3,709,110
Cottonseed .....	tons	(X)	(X)	5,631.0	6,266.0
Flaxseed .....	bushels	22.6		4,466	
Mustard seed .....	pounds	750		73,078	
Peanuts .....	pounds	4,001	4,080	5,495,935	5,642,700
Rapeseed .....	pounds	1,524		8,230	
Safflower .....	pounds	1,511		236,380	
Soybeans for beans .....	bushels	50.6	46.9	4,428,150	3,549,977
Sunflower .....	pounds	1,731	1,724	2,107,045	2,252,700
<b>Cotton, tobacco, and sugar crops</b>					
Cotton, all <sup>5</sup> .....	bales	864	775	18,367.0	20,206.0
Upland <sup>5</sup> .....	bales	847	761	17,566.0	19,480.0
American Pima <sup>5</sup> .....	bales	1,545	1,526	801.0	726.0
Sugarbeets .....	tons	30.3	30.4	33,145	29,498
Sugarcane .....	tons	38.4	35.8	34,542	32,695
Tobacco .....	pounds	1,830	1,960	533,241	448,062
<b>Dry beans, peas, and lentils</b>					
Austrian winter peas <sup>2 5</sup> .....	cwt	1,138	(NA)	124	(NA)
Chickpeas <sup>3 5</sup> .....	cwt	1,512	1,642	12,742	7,174
Dry edible beans <sup>3 5</sup> .....	cwt	1,860	1,889	37,494	23,812
Dry edible peas <sup>2 5</sup> .....	cwt	1,972	2,131	15,929	22,289
Lentils <sup>5</sup> .....	cwt	1,171	1,428	8,408	6,553
Wrinkled seed peas <sup>2</sup> .....	cwt	(NA)	(NA)	389	(NA)
<b>Potatoes and miscellaneous</b>					
Hops .....	pounds	1,943	1,906	106,906.7	106,371.0
Maple syrup .....	gallons	(NA)	(NA)	4,199	4,240
Mushrooms .....	pounds	(NA)	(NA)	917,235	846,491
Peppermint oil .....	pounds	92		5,377	
Potatoes .....	cwt	443	450	450,020	422,451
Spearmint oil .....	pounds	124		2,571	
Taro (Hawaii) <sup>4</sup> .....	pounds	9,630	(NA)	2,985	(NA)

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Beginning in 2019, Austrian winter peas and wrinkled seed peas are included in dry edible peas.

<sup>3</sup> Beginning in 2019, chickpeas are excluded from dry edible beans.

<sup>4</sup> Estimates discontinued in 2019.

<sup>5</sup> Yield in pounds.

## Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2018	2019	2018	2019
	(hectares)	(hectares)	(hectares)	(hectares)
<b>Grains and hay</b>				
Barley .....	1,031,150	1,101,160	802,100	883,030
Corn for grain <sup>1</sup> .....	36,069,620	36,398,630	33,079,360	33,109,710
Corn for silage .....	(NA)		2,473,870	
Hay, all <sup>2</sup> .....	(NA)	(NA)	21,383,410	21,356,710
Alfalfa .....	(NA)	(NA)	6,721,090	6,810,120
All other .....	(NA)	(NA)	14,662,320	14,546,580
Oats .....	1,111,280	1,137,180	350,060	334,270
Proso millet .....	179,280	175,230	163,090	
Rice .....	1,192,220	1,027,910	1,179,670	1,002,420
Rye .....	813,830	754,750	110,480	125,450
Sorghum for grain <sup>1</sup> .....	2,302,690	2,128,670	2,048,140	1,908,110
Sorghum for silage .....	(NA)		106,840	
Wheat, all <sup>2</sup> .....	19,350,250	18,274,990	16,030,580	15,039,090
Winter .....	13,169,420	12,609,740	10,012,840	9,844,890
Durum .....	838,920	541,880	798,860	475,510
Other spring .....	5,341,910	5,123,380	5,218,880	4,718,690
<b>Oilseeds</b>				
Canola .....	805,620	825,570	786,110	806,950
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	84,180	143,660	80,130	137,590
Mustard seed .....	41,480	44,520	39,460	42,290
Peanuts .....	576,890	576,680	555,840	559,690
Rapeseed .....	2,310	5,990	2,190	5,670
Safflower .....	67,790	61,920	63,290	58,880
Soybeans for beans .....	36,084,990	30,941,380	35,448,420	30,605,090
Sunflower .....	526,500	549,890	492,670	528,890
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	5,706,250	5,569,140	4,130,190	5,062,430
Upland .....	5,604,960	5,475,860	4,029,500	4,970,000
American Pima .....	101,290	93,280	100,690	92,430
Sugarbeets .....	450,460	459,280	443,300	393,030
Sugarcane .....	(NA)	(NA)	364,100	369,200
Tobacco .....	(NA)	(NA)	117,940	92,520
<b>Dry beans, peas, and lentils</b>				
Austrian winter peas <sup>3</sup> .....	6,640	(NA)	4,410	(NA)
Chickpeas <sup>4</sup> .....	347,870	180,170	341,070	176,850
Dry edible beans <sup>4</sup> .....	842,160	529,130	815,860	510,110
Dry edible peas <sup>3</sup> .....	346,620	443,940	326,950	423,310
Lentils .....	315,660	194,660	290,570	185,750
Wrinkled seed peas <sup>3</sup> .....	(NA)	(NA)	(NA)	(NA)
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	22,270	22,580
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		23,670	
Potatoes .....	415,410	389,230	410,680	379,960
Spearmint oil .....	(NA)		8,420	
Taro (Hawaii) <sup>5</sup> .....	(NA)	(NA)	130	(NA)

See footnote(s) at end of table.

--continued

## Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year.  
Blank data cells indicate estimation period has not yet begun]

Crop	Yield per hectare		Production	
	2018	2019	2018	2019
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
<b>Grains and hay</b>				
Barley .....	4.17	4.18	3,342,660	3,691,860
Corn for grain .....	11.07	10.48	366,287,440	347,005,510
Corn for silage .....	44.50		110,096,850	
Hay, all <sup>2</sup> .....	5.24	5.56	112,128,030	118,779,510
Alfalfa .....	7.10	7.22	47,748,760	49,186,650
All other .....	4.39	4.78	64,379,270	69,592,860
Oats .....	2.33	2.31	814,720	771,440
Proso millet .....	1.67		271,950	
Rice .....	8.62	8.50	10,170,040	8,524,630
Rye .....	1.94	2.15	214,180	269,810
Sorghum for grain .....	4.53	4.76	9,271,070	9,084,470
Sorghum for silage .....	28.24		3,017,300	
Wheat, all <sup>2</sup> .....	3.20	3.47	51,305,540	52,257,620
Winter .....	3.22	3.60	32,221,540	35,489,150
Durum .....	2.66	3.08	2,122,400	1,463,000
Other spring .....	3.25	3.24	16,961,600	15,305,480
<b>Oilseeds</b>				
Canola .....	2.09	2.08	1,639,940	1,682,420
Cottonseed .....	(X)	(X)	5,108,360	5,684,420
Flaxseed .....	1.42		113,440	
Mustard seed .....	0.84		33,150	
Peanuts .....	4.48	4.57	2,492,910	2,559,490
Rapeseed .....	1.71		3,730	
Safflower .....	1.69		107,220	
Soybeans for beans .....	3.40	3.16	120,514,490	96,614,540
Sunflower .....	1.94	1.93	955,740	1,021,810
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	0.97	0.87	3,998,940	4,399,340
Upland .....	0.95	0.85	3,824,550	4,241,270
American Pima .....	1.73	1.71	174,400	158,070
Sugarbeets .....	67.83	68.09	30,068,640	26,760,140
Sugarcane .....	86.06	80.34	31,335,980	29,660,410
Tobacco .....	2.05	2.20	241,870	203,240
<b>Dry beans, peas, and lentils</b>				
Austrian winter peas <sup>3</sup> .....	1.28	(NA)	5,620	(NA)
Chickpeas <sup>4</sup> .....	1.69	1.84	577,970	325,410
Dry edible beans <sup>4</sup> .....	2.08	2.12	1,700,700	1,080,090
Dry edible peas <sup>3</sup> .....	2.21	2.39	722,530	1,011,010
Lentils .....	1.31	1.60	381,380	297,240
Wrinkled seed peas <sup>3</sup> .....	(NA)	(NA)	17,640	(NA)
<b>Potatoes and miscellaneous</b>				
Hops .....	2.18	2.14	48,490	48,250
Maple syrup .....	(NA)	(NA)	21,000	21,200
Mushrooms .....	(NA)	(NA)	416,050	383,960
Peppermint oil .....	0.10		2,440	
Potatoes .....	49.70	50.43	20,412,570	19,162,060
Spearmint oil .....	0.14		1,170	
Taro (Hawaii) <sup>5</sup> .....	10.80	(NA)	1,350	(NA)

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Total may not add due to rounding.

<sup>3</sup> Beginning in 2019, Austrian winter peas and wrinkled seed peas are included in dry edible peas.

<sup>4</sup> Beginning in 2019, chickpeas are excluded from dry edible beans.

<sup>5</sup> Estimates discontinued in 2019.

## Fruits and Nuts Production in Domestic Units – United States: 2019 and 2020

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2020 crop year, except citrus which is for the 2019-2020 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2019	2020
<b>Citrus <sup>1</sup></b>		
Grapefruit ..... 1,000 tons	564	604
Lemons ..... 1,000 tons	966	856
Oranges ..... 1,000 tons	5,327	5,325
Tangerines and mandarins ..... 1,000 tons	1,087	970
<b>Noncitrus</b>		
Apples, commercial ..... million pounds	10,630.0	
Apricots ..... tons	64,500	
Avocados ..... tons		
Blueberries, Cultivated ..... 1,000 pounds		
Blueberries, Wild (Maine) ..... 1,000 pounds		
Cherries, Sweet ..... tons	362,000	
Cherries, Tart ..... million pounds	290.2	
Coffee (Hawaii) ..... 1,000 pounds		
Cranberries ..... barrel	9,040,000	
Dates ..... tons		
Grapes ..... tons	7,500,000	
Kiwifruit (California) ..... tons		
Nectarines (California) ..... tons		
Olives (California) ..... tons		
Papayas (Hawaii) ..... 1,000 pounds		
Peaches ..... tons	733,500	
Pears ..... tons	805,000	
Plums (California) ..... tons		
Prunes (California) ..... tons	110,000	
Raspberries, all ..... 1,000 pounds		
Strawberries ..... 1,000 cwt		
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) ..... 1,000 pounds	2,200,000	
Hazelnuts, in-shell (Oregon) ..... tons	49,000	
Macadamias (Hawaii) ..... 1,000 pounds		
Pecans, in-shell ..... 1,000 pounds	261,000	
Pistachios (California) ..... 1,000 pounds		
Walnuts, in-shell (California) ..... tons	630,000	

<sup>1</sup> Production years are 2018-2019 and 2019-2020.

## Fruits and Nuts Production in Metric Units – United States: 2019 and 2020

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2020 crop year, except citrus which is for the 2019-2020 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2019 (metric tons)	2020 (metric tons)
<b>Citrus<sup>1</sup></b>		
Grapefruit .....	511,650	547,940
Lemons .....	876,340	776,550
Oranges .....	4,832,570	4,830,760
Tangerines and mandarins .....	986,110	879,970
<b>Noncitrus</b>		
Apples, commercial .....	4,821,690	
Apricots .....	58,510	
Avocados .....		
Blueberries, Cultivated .....		
Blueberries, Wild (Maine) .....		
Cherries, Sweet .....	328,400	
Cherries, Tart .....	131,630	
Coffee (Hawaii) .....		
Cranberries .....	410,050	
Dates .....		
Grapes .....	6,803,890	
Kiwifruit (California) .....		
Nectarines (California) .....		
Olives (California) .....		
Papayas (Hawaii) .....		
Peaches .....	665,420	
Pears .....	730,280	
Plums (California) .....		
Prunes (California) .....	99,790	
Raspberries, all .....		
Strawberries .....		
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) .....	997,900	
Hazelnuts, in-shell (Oregon) .....	44,450	
Macadamias (Hawaii) .....		
Pecans, in-shell .....	118,390	
Pistachios (California) .....		
Walnuts, in-shell (California) .....	571,530	

<sup>1</sup> Production years are 2018-2019 and 2019-2020.

## Cotton Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in four cotton-producing States during 2019. Randomly selected plots in cotton fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

### Cotton Cumulative Boll Counts – Selected States: 2015-2019

[Includes small bolls (less than one inch in diameter), large unopened bolls (at least one inch in diameter), open bolls, partially opened bolls, and burrs per 40 feet of row. November, December, and Final exclude small bolls. Blank data cells indicate estimation period has not yet begun]

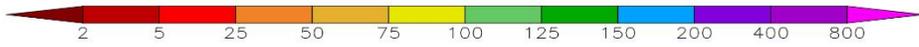
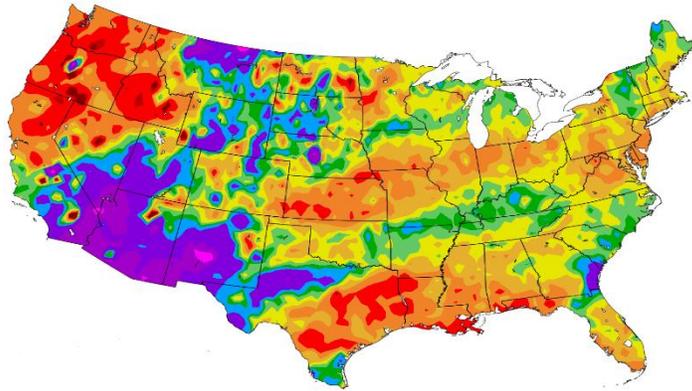
State and month	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>					
September .....	763	800	911	891	900
October .....	769	769	839	910	896
November .....	856	779	825	892	925
December .....	856	779	825	892	900
Final .....	856	779	825	892	
<b>Georgia</b>					
September .....	645	562	593	605	598
October .....	630	668	608	737	783
November .....	748	719	680	712	790
December .....	759	725	684	719	799
Final .....	759	725	684	713	
<b>Louisiana <sup>1</sup></b>					
September .....	676	654	648	759	(NA)
October .....	776	760	667	734	(NA)
November .....	794	784	665	739	(NA)
December .....	793	784	665	739	(NA)
Final .....	793	784	665	739	
<b>Mississippi</b>					
September .....	887	953	904	871	944
October .....	839	942	810	895	895
November .....	898	974	804	846	904
December .....	898	974	797	846	901
Final .....	898	974	797	846	
<b>North Carolina <sup>1</sup></b>					
September .....	551	558	637	601	(NA)
October .....	620	599	705	641	(NA)
November .....	624	660	769	714	(NA)
December .....	632	660	769	719	(NA)
Final .....	632	660	769	719	
<b>Texas</b>					
September .....	566	467	592	570	458
October .....	442	474	602	576	438
November .....	481	528	603	553	456
December .....	492	547	615	583	459
Final .....	495	546	614	582	
<b>4-State <sup>2</sup></b>					
September .....	601	532	633	627	551
October .....	581	554	635	661	562
November .....	571	604	649	640	579
December .....	581	618	656	659	580
Final .....	583	618	656	657	

(NA) Not available.

<sup>1</sup> Objective yield survey discontinued in 2019.

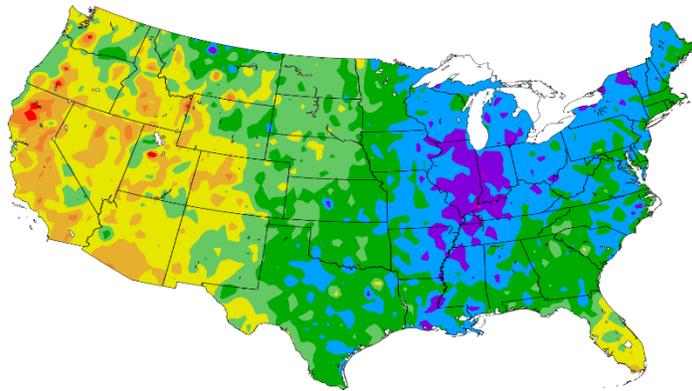
<sup>2</sup> 6-State total prior to 2019.

Percent of Normal Precipitation (%)  
11/1/2019 – 11/30/2019



NOAA Regional Climate Centers

Departure from Normal Temperature (F)  
11/1/2019 – 11/30/2019



NOAA Regional Climate Centers

## November Weather Summary

Late-month storms delivered drought-easing precipitation to the Southwest, while early-season snowpack languished in the Northwest amid an extended spell of mild, mostly dry weather. Snowpack was greater than 400 percent of the early-December average in much of Arizona, but less than 50 percent of average in many river basins across Oregon, Washington, and northern Idaho.

The Southwestern storminess, which peaked from November 19-21 and 26-29, later reached other parts of the country. As a result, late-November snowfall curtailed fieldwork, including corn, soybean, and sunflower harvest efforts, across the northern Plains and upper Midwest. The Nation's corn harvest was 89 percent complete by December 1—the least progress on that date since 2009, when 82 percent had been harvested.

Prior to the late-month fieldwork stoppage across large sections of the northern Plains and Midwest, there had been some harvest opportunities. Ironically, one of the best periods for fieldwork occurred around mid-month, when a sharp but short-lived cold snap caused upper Midwestern soils to freeze. Still, the Nation's sunflower harvest was just 65 percent complete by December 1, easily the least progress on that date in the last two decades.

Meanwhile, periodic showers generally eased Southeastern drought but caused only minor fieldwork delays, allowing harvesting for crops such as cotton and peanuts to near completion. However, showers mostly bypassed southern Florida, where short-term dryness intensified during November.

Farther west, patchy drought and periodic cold outbreaks across the southern half of the Plains led to some stress on rangeland, pastures, and winter wheat. By November 24, Texas led the Nation (among major production states) with 28 percent of its wheat rated in very poor to poor condition, twice the national value of 14 percent. In early December, 45 percent of Texas' rangeland and pastures were rated very poor to poor.

## November Agricultural Summary

November was cooler than average for most of the Eastern half of the Nation with the exception of much of Central and Southern Florida. Temperatures averaged 5°F or more below normal for much of the Great Lakes, Northeast, Middle Mississippi Valley, and Ohio Valley. In contrast, much of the Nation west of the Rockies was warmer than average with temperatures averaging 5°F or more above normal in parts of California, Idaho, Oregon, Texas, and Utah. During the month of November, much of the western half of the United States remained dry except for areas of the Pacific Northwest and the Southwest, where parts of Arizona and Washington received 6 inches of rain or more. Much of the Eastern half of the Nation received 2 inches or more of rain, with parts of Arkansas, Kentucky, Missouri, Oklahoma, and Tennessee receiving more than 6 inches of rain.

By November 3, ninety-six percent of this year's corn acreage had reached maturity, 4 percentage points behind both the previous year and the 5-year average. Fifty-two percent of the 2019 acreage was harvested by November 3, twenty-two percentage points behind the previous year and 23 percentage points behind the 5-year average. Overall, 58 percent of the Nation's corn acreage was rated in good to excellent condition on November 3, ten percentage points below the same time last year. By November 17, seventy-six percent of the 2019 acreage was harvested, 13 percentage points behind the previous year and 16 percentage points behind the 5-year average. Eighty-nine percent of the acreage was harvested by December 1, eight percentage points behind the previous year and 9 percentage points behind the 5-year average.

Soybean harvest across the Nation was 75 percent complete by November 3, six percentage points behind the previous year and 12 percentage points behind the 5-year average. By November 17, soybean harvest across the Nation was 91 percent complete, identical to the previous year but 4 percentage points behind the 5-year average. Soybean harvest across the Nation was 96 percent complete by December 1, one percentage point behind the previous year and 3 percentage points behind the 5-year average.

By November 3, eighty-nine percent of the Nation's intended 2020 winter wheat acreage was sown, 6 percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. Seventy-one percent of the Nation's winter wheat acreage was emerged by November 3, two percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Nationwide, producers had sown 95 percent of the intended 2020 winter wheat acreage by November 17, three percentage points ahead of the previous year but equal to the 5-year average. By November 17, eighty-three percent of the winter wheat acreage had emerged, 3 percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Eighty-seven percent of the Nation's winter wheat acreage had emerged by November 24, two percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Overall, 52 percent of the 2020 winter wheat acreage was reported in good to excellent condition by November 24, three percentage points below the same time last year.

Fifty-three percent of the Nation's cotton acreage was harvested by November 3, five percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. By November 17, sixty-eight percent of the Nation's cotton acreage was harvested, 10 percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. Eighty-three percent of the Nation's cotton acreage was harvested by December 1, nine percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average.

By November 3, seventy-eight percent of the 2019 sorghum acreage was harvested, 16 percentage points ahead of the previous year and 6 percentage points ahead of the 5-year average. Ninety-three percent of the Nation's sorghum acreage was harvested by November 17, fourteen percentage points ahead of the previous year and 6 percentage points ahead of the 5-year average. By November 24, ninety-seven percent of the Nation's sorghum acreage was harvested, 9 percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average.

Eighty-four percent of the Nation's peanut acreage was harvested as of November 3, ten percentage points ahead of the previous year and 6 percentage points ahead of the 5-year average. By November 17, ninety-three percent of the Nation's peanut acreage was harvested, 8 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Ninety-six percent of the Nation's peanut acreage was harvested as of November 24, six percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average.

By November 3, sugarbeet producers had harvested 70 percent of the Nation's acreage, 20 percentage points behind the previous year and 21 percentage points behind the 5-year average. Sugarbeet producers had harvested 96 percent of the Nation's acreage by November 10, one percentage point ahead of the previous year but unchanged from the 5-year average.

Thirty-one percent of this year's sunflower crop was harvested by November 3, eighteen percentage points behind the previous year and 31 percentage points behind the 5-year average. By November 17, forty-seven percent of this year's sunflower acreage was harvested, 21 percentage points behind the previous year and 36 percentage points behind the 5-year average. Sixty-five percent of this year's sunflower crop was harvested by December 1, sixteen percentage points behind the previous year and 29 percentage points behind the 5-year average.

## **Crop Comments**

**Cotton:** Upland harvested area for the Nation is expected to total 12.3 million acres, unchanged from the previous forecast but up 23 percent from last year. Expected Pima harvested area, at 228,400 acres, is unchanged from the previous forecast but down 8 percent from last year.

Harvest progressed well throughout the cotton producing region during November. As of December 1, eighty-three percent of the cotton acreage was harvested, 9 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. At that time, harvest progress was ahead of the five-year average by 7 percentage points or more in Alabama, Arizona, Kansas, Oklahoma, South Carolina, and Texas. If realized, the forecasted yield for all cotton in New Mexico and Tennessee will be a record high.

Ginnings totaled 12,929,650 running bales prior to December 1, compared with 10,264,950 running bales ginned prior to the same date last year.

**Grapefruit:** The United States 2019-2020 grapefruit crop is forecast at 604,000 tons, up 2 percent from the previous forecast and up 7 percent from last season's final utilization. In Florida, expected production, at 4.90 million boxes (208,000 tons), is up 6 percent from the previous forecast and up 9 percent from last year. California and Texas grapefruit production forecasts were carried forward from the previous forecast.

**Tangerines and mandarins:** The United States tangerine and mandarin crop is forecast at 970,000 tons, unchanged from the previous forecast but down 11 percent from last season's final utilization. The Florida tangerine and mandarin forecast is unchanged from the previous forecast but up 6 percent from last year. The California tangerine and mandarin forecast was carried forward from the previous forecast.

**Sugarcane:** Production of sugarcane for sugar and seed in 2019 is forecast at 32.7 million tons, down 4 percent from last month and 5 percent below last year. Producers intend to harvest 912,300 acres for sugar and seed during the 2019 crop year, down 1 percent from last month but up 1 percent from last year. Yields for sugar and seed are expected to average 35.8 tons per acre, down 1.3 tons from last month and down 2.6 tons from 2018.

In Louisiana, harvest was 71 percent complete as of the week ending December 1. Reported sugar yields were lower than the previous month and sugar recovery dropped due to a mid-November freeze.

**Pecans:** Production is forecast at 261 million pounds (utilized, in-shell basis), down 7 percent from the previous forecast, but up 13 percent for comparable States in 2018. Improved varieties are expected to produce 242 million pounds or 93 percent of the total. The native and seedling varieties are expected to produce 19.5 million pounds, making up the remaining 7 percent of production.

Beginning in 2019, pecan estimates were discontinued in Alabama, California, and Louisiana.

## Statistical Methodology

**Cotton survey procedures:** Objective yield surveys were conducted between November 24 and December 1 to gather information on expected yields as of December 1. The objective yield survey for cotton was conducted in producing States that usually account for approximately 67 percent of the United States production. At crop maturity, the fruit is harvested and weighed. After the farm operator has harvested the sample field, another plot is sampled to obtain current year harvesting loss.

**Orange survey procedures:** In August and September, the number of bearing trees and the number of fruit per tree is determined. In August and subsequent months, fruit size measurement and fruit droppage surveys are conducted, which combined with the previous components are used to develop the current forecast of production. California and Texas conduct grower on a quarterly basis for the forecast, in October, January, April, and July. California conducts an objective measurement survey in September for Navel oranges and in March for Valencia oranges.

**Cotton estimating procedures:** National and State level objective yield estimates for cotton were reviewed for errors, reasonableness, and consistency with historical estimates. For cotton, reports from cotton ginners in each State were also considered. Each cotton Regional Field Office submits its analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the survey data and the State analyses to prepare the published December 1 forecast.

**Orange estimating procedures:** State level objective yield estimates for Florida oranges were reviewed for errors, reasonableness, and consistency with historical estimates. The Florida Field Office submits its analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the Florida objective yield survey data and their analyses to prepare the published December 1 forecast. The December 1 orange production forecasts for California and Texas were carried forward from October.

**Revision policy:** The December 1 production forecasts will not be revised. For cotton, a new estimate will be made in January followed by end-of-season revisions in May. Administrative records are reviewed and revisions are made, if data relationships warrant changes. Harvested acres may be revised any time a production forecast is made, if there is strong evidence that the intended harvested area has changed since the last estimate.

For oranges, the December 1 production forecasts will not be revised. A new forecast will be made each month throughout the growing season. End-of-season estimates will be published in the *Citrus Fruits Summary* released in August. The production 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.

**Reliability:** To assist users in evaluating the reliability of the December 1 production forecasts, the "Root Mean Square Error," a statistical measure based on past performance, is computed. The deviation between the December 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of squared percentage deviations for the latest 20-year period is computed. The square root of the average becomes statistically the "Root Mean Square Error." Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year's forecast are not different from those influencing recent years.

The "Root Mean Square Error" for the December 1 cotton production forecast is 2.3 percent. This means that chances are 2 out of 3 that the current cotton production forecast will not be above or below the final estimate by more than 2.3 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 3.9 percent.

Changes between the December 1 cotton forecast and the final estimates during the past 20 years have averaged 285,000 bales, ranging from 40,000 to 775,000 bales. The December 1 forecast for cotton has been below the final estimate 9 times and above 11 times. The difference does not imply that the December 1 forecasts this year are likely to understate or overstate final production.

The "Root Mean Square Error" for the December 1 orange production forecast is 6.5 percent. However, if you exclude the three abnormal production years (three hurricane seasons), the "Root Mean Square Error" is 6.6 percent. This means that chances are 2 out of 3 that the current orange production forecast will not be above or below the final estimate by more than 6.5 percent, or 6.6 percent excluding abnormal seasons. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 11.2 percent, or 11.5 percent excluding abnormal seasons.

Changes between the December 1 orange forecast and the final estimates during the past 20 years have averaged 408,000 tons (407,000 tons excluding abnormal seasons), ranging from 21,000 tons to 1.01 million tons regardless of exclusion. The December 1 forecast for oranges has been below the final estimate 5 times and above 15 times (below 5 times and above 12 times, excluding abnormal seasons). The difference does not imply that the December 1 forecasts this year are likely to understate or overstate final production.

## USDA, National Agricultural Statistics Service 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)

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James Johanson – County Estimates, Hay.....	(202) 690-8533
Jeff Lemmons – Oats, Soybeans.....	(202) 690-3234
Sammy Neal – Peanuts, Rice.....	(202) 720-7688
Irwin Anolik – Crop Weather, Barley.....	(202) 720-7621
Jean Porter – Rye, Wheat.....	(202) 720-8068
Chris Singh – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds.....	(202) 720-7369
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Joshua Bates– Almonds, Apples, Apricots, Asparagus, Carrots, Coffee, Onions, Plums, Prunes, Sweet Corn, Tobacco.....	(202) 720-4288
Jorge Garcia-Pratts – Dry Beans, Garlic, Hazelnuts, Honeydews, Kiwifruit, Lettuce, Maple Syrup, Mint, Pears, Sweet Cherries, Tart Cherries, Tomatoes.....	(202) 720-2127
Fleming Gibson – Cauliflower, Celery, Grapefruit, Lemons, Macadamia, Mandarins and tangerines, Mushrooms, Olives, Oranges.....	(202) 720-5412
Greg Lemmons –Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins, Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes, Tame Blueberries, Wild Blueberries.....	(202) 720-4285
Dan Norris – Artichokes, Cantaloupes, Dry Edible Peas, Green Peas, Lentils, Nectarines, Papayas, Peaches, Snap Beans, Spinach, Walnuts, Watermelons.....	(202) 720-3250
Dawn Smoker – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas, Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans.....	(202) 720-4215

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