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Cotton Production Down 7 Percent from November Forecast Orange Production Down 1 Percent from October Forecast

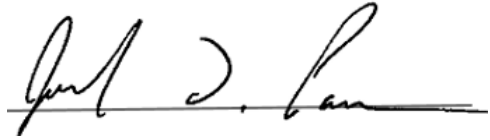
All cotton production is forecast at 15.9 million 480-pound bales, down 7 percent from the previous forecast and down 20 percent from 2019. Based on conditions as of December 1, yields are expected to average 850 pounds per harvested acre, down 61 pounds from the previous forecast but up 27 pounds from 2019. Upland cotton production is forecast at 15.4 million 480-pound bales, down 7 percent from the previous forecast and down 20 percent from 2019. Pima cotton production is forecast at 554,000 bales, down 1 percent from the previous forecast and down 19 percent from 2019. All cotton area harvested is forecast at 9.01 million acres, unchanged from the previous forecast but down 22 percent from 2019.

The United States all orange forecast for the 2020-2021 season is 4.60 million tons, down 1 percent from the previous forecast and down 12 percent from the 2019-2020 final utilization. The Florida all orange forecast, at 56.0 million boxes (2.52 million tons), is down 2 percent from the previous forecast and down 17 percent from last season's final utilization. In Florida, early, midseason, and Navel varieties are forecast at 22.0 million boxes (990,000 tons), down 4 percent from the previous forecast and down 26 percent from last season's final utilization. The Florida Valencia orange forecast, at 34.0 million boxes (1.53 million tons), is unchanged from the previous forecast but down 10 percent from last season's final utilization.

This report was approved on December 10, 2020.



Secretary of Agriculture
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Cotton Area Harvested, Yield, and Production by Type – States and United States: 2019 and Forecasted December 1, 2020

Type and State	Area harvested		Yield per acre			Production ¹	
	2019	2020	2019	2020		2019	2020
				November 1	December 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) ²	(1,000 bales) ²
Upland							
Alabama	532.0	445.0	928	890	852	1,028.0	790.0
Arizona	158.0	123.0	1,154	1,385	1,385	380.0	355.0
Arkansas	610.0	520.0	1,185	1,200	1,200	1,506.0	1,300.0
California	53.0	40.0	1,576	1,620	1,620	174.0	135.0
Florida	110.0	98.0	895	759	686	205.0	140.0
Georgia	1,380.0	1,190.0	953	968	928	2,740.0	2,300.0
Kansas	151.0	195.0	890	788	788	280.0	320.0
Louisiana	270.0	165.0	1,035	1,164	1,018	582.0	350.0
Mississippi	700.0	525.0	1,112	1,198	1,152	1,621.0	1,260.0
Missouri	368.0	287.0	1,193	1,146	1,238	915.0	740.0
New Mexico	45.0	35.0	821	1,029	960	77.0	70.0
North Carolina	500.0	340.0	998	819	805	1,040.0	570.0
Oklahoma	460.0	460.0	688	803	751	659.0	720.0
South Carolina	295.0	185.0	809	843	817	497.0	315.0
Tennessee	405.0	275.0	1,138	1,117	1,187	960.0	680.0
Texas	5,250.0	3,850.0	578	761	648	6,320.0	5,200.0
Virginia	102.0	79.0	1,144	972	911	243.0	150.0
United States	11,389.0	8,812.0	810	901	839	19,227.0	15,395.0
American Pima							
Arizona	7.5	6.5	800	1,108	1,108	12.5	15.0
California	201.0	146.0	1,545	1,529	1,562	647.0	475.0
New Mexico	5.0	10.8	864	889	756	9.0	17.0
Texas	10.0	30.0	816	912	752	17.0	47.0
United States	223.5	193.3	1,472	1,383	1,376	685.5	554.0
All							
Alabama	532.0	445.0	928	890	852	1,028.0	790.0
Arizona	165.5	129.5	1,138	1,371	1,371	392.5	370.0
Arkansas	610.0	520.0	1,185	1,200	1,200	1,506.0	1,300.0
California	254.0	186.0	1,551	1,548	1,574	821.0	610.0
Florida	110.0	98.0	895	759	686	205.0	140.0
Georgia	1,380.0	1,190.0	953	968	928	2,740.0	2,300.0
Kansas	151.0	195.0	890	788	788	280.0	320.0
Louisiana	270.0	165.0	1,035	1,164	1,018	582.0	350.0
Mississippi	700.0	525.0	1,112	1,198	1,152	1,621.0	1,260.0
Missouri	368.0	287.0	1,193	1,146	1,238	915.0	740.0
New Mexico	50.0	45.8	826	996	912	86.0	87.0
North Carolina	500.0	340.0	998	819	805	1,040.0	570.0
Oklahoma	460.0	460.0	688	803	751	659.0	720.0
South Carolina	295.0	185.0	809	843	817	497.0	315.0
Tennessee	405.0	275.0	1,138	1,117	1,187	960.0	680.0
Texas	5,260.0	3,880.0	578	762	649	6,337.0	5,247.0
Virginia	102.0	79.0	1,144	972	911	243.0	150.0
United States	11,612.5	9,005.3	823	911	850	19,912.5	15,949.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

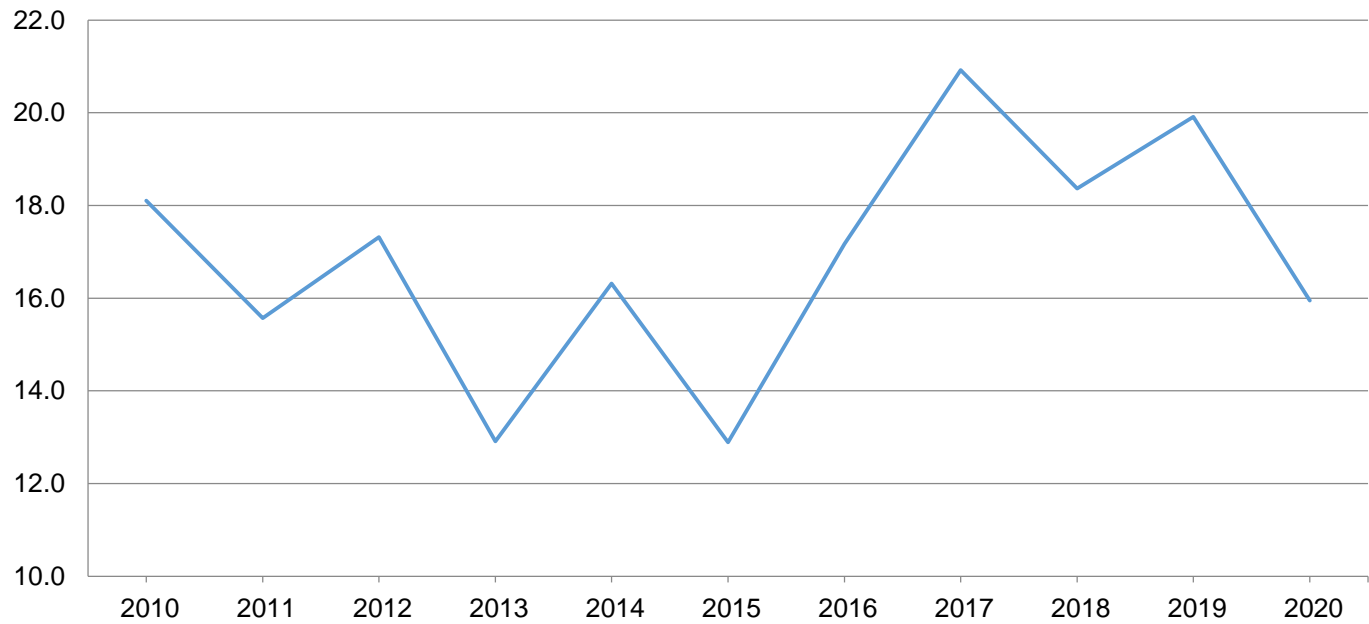
Cottonseed Production – United States: 2019 and Forecasted December 1, 2020

State	Production	
	2019 (1,000 tons)	2020 ¹ (1,000 tons)
United States	5,945.0	4,887.0

¹ 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: 2019-2020 and Forecasted December 1, 2020

[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 ¹		Utilized production ton equivalent	
	2019-2020 (1,000 boxes)	2020-2021 (1,000 boxes)	2019-2020 (1,000 tons)	2020-2021 (1,000 tons)
Oranges				
California, all ²	53,300	50,500	2,132	2,020
Early, mid, and Navel ³	44,300	42,000	1,772	1,680
Valencia	9,000	8,500	360	340
Florida, all	67,300	56,000	3,028	2,520
Early, mid, and Navel ³	29,650	22,000	1,334	990
Valencia	37,650	34,000	1,694	1,530
Texas, all ²	1,340	1,500	57	64
Early, mid, and Navel ³	1,150	1,300	49	55
Valencia	190	200	8	9
United States, all	121,940	108,000	5,217	4,604
Early, mid, and Navel ³	75,100	65,300	3,155	2,725
Valencia	46,840	42,700	2,062	1,879
Grapefruit				
California ²	3,800	3,800	152	152
Florida, all	4,850	4,400	207	187
Red ⁴	4,060	(NA)	173	(NA)
White ⁴	790	(NA)	34	(NA)
Texas ²	4,400	4,900	176	196
United States	13,050	13,100	535	535
Tangerines and mandarins ⁵				
California ²	22,000	23,000	880	920
Florida	1,020	1,100	48	52
United States	23,020	24,100	928	972
Lemons ²				
Arizona	1,800	1,300	72	52
California	25,700	22,000	1,028	880
United States	27,500	23,300	1,100	932

(NA) Not available.

¹ 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.

² Estimates for current year carried forward from an earlier forecast.

³ Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

⁴ Estimates discontinued in 2020-2021.

⁵ Includes tangelos and tangors.

**Sugarcane for Sugar and Seed Area Harvested, Yield, and Production – States and United States:
2019 and Forecasted December 1, 2020**

State	Area harvested		Yield per acre ¹			Production ¹	
	2019	2020	2019	2020		2019	2020
				November 1	December 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	410.7	414.0	43.0	43.9	44.1	17,644	18,257
Louisiana	469.0	484.0	28.1	29.8	32.0	13,161	15,488
Texas	33.5	36.1	33.8	34.5	33.2	1,132	1,199
United States	913.2	934.1	35.0	36.2	37.4	31,937	34,944

¹ Net tons.

Pecan Production by Variety – States and United States: 2019 and Forecasted December 1, 2020

State and variety	Utilized production (in-shell basis)	
	2019 (1,000 pounds)	2020 (1,000 pounds)
Arizona	36,100	37,000
Improved	36,100	37,000
Georgia	73,000	135,000
Improved	73,000	135,000
New Mexico	87,800	77,000
Improved	87,800	77,000
Oklahoma	21,200	7,500
Improved	4,240	2,400
Native and seedling	16,960	5,100
Texas	37,500	50,000
Improved	30,000	40,000
Native and seedling	7,500	10,000
United States	255,600	306,500
Improved	231,140	291,400
Native and seedling	24,460	15,100

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Crop Area Planted and Harvested, Yield, and 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. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2019	2020	2019	2020
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Grains and hay				
Barley	2,772	2,621	2,221	2,133
Corn for grain ¹	89,745	90,978	81,337	82,527
Corn for silage	(NA)		6,615	
Hay, all	(NA)	(NA)	52,425	52,381
Alfalfa	(NA)	(NA)	16,743	16,352
All other	(NA)	(NA)	35,682	36,029
Oats	2,830	2,984	828	1,004
Proso millet	506	511	465	
Rice	2,540	3,037	2,472	2,991
Rye	1,855	1,955	310	330
Sorghum for grain ¹	5,265	5,790	4,675	5,000
Sorghum for silage	(NA)		339	
Wheat, all	45,485	44,349	37,394	36,746
Winter	31,474	30,415	24,592	23,024
Durum	1,341	1,684	1,177	1,662
Other spring	12,670	12,250	11,625	12,060
Oilseeds				
Canola	2,040.0	1,852.0	1,909.5	1,812.0
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	374	355	319	328
Mustard seed	98.0	98.0	90.0	93.0
Peanuts	1,432.7	1,665.2	1,389.7	1,623.2
Rapeseed	11.3	12.5	10.4	11.8
Safflower	165.8	145.0	152.7	137.5
Soybeans for beans	76,100	83,105	74,939	82,289
Sunflower	1,350.6	1,698.5	1,253.5	1,622.5
Cotton, tobacco, and sugar crops				
Cotton, all	13,735.7	12,115.5	11,612.5	9,005.3
Upland	13,507.0	11,915.0	11,389.0	8,812.0
American Pima	228.7	200.5	223.5	193.3
Sugarbeets	1,132.0	1,165.2	979.3	1,148.5
Sugarcane	(NA)	(NA)	913.2	934.1
Tobacco	(NA)	(NA)	227.1	195.5
Dry beans, peas, and lentils				
Chickpeas	451.4	254.0	404.0	249.2
Dry edible beans	1,287.4	1,743.0	1,176.5	1,683.0
Dry edible peas	1,103.0	999.0	1,052.0	949.0
Lentils	486.0	518.0	431.0	486.0
Potatoes and miscellaneous				
Hops	(NA)	(NA)	56.5	59.2
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		52.4	
Potatoes	963.3	923.0	937.3	915.7
Spearmint oil	(NA)		18.5	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States:
2019 and 2020 (continued)**

[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. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per acre		Production	
	2019	2020	2019 (1,000)	2020 (1,000)
Grains and hay				
Barley bushels	77.7	77.5	172,499	165,324
Corn for grain bushels	167.5	175.8	13,619,928	14,506,795
Corn for silage tons	20.2		133,522	
Hay, all tons	2.46	2.44	128,864	127,678
Alfalfa tons	3.28	3.22	54,875	52,625
All other tons	2.07	2.08	73,989	75,053
Oats bushels	64.3	65.1	53,258	65,355
Proso millet bushels	35.7		16,608	
Rice ² cwt	7,471	7,560	184,675	226,121
Rye bushels	34.3	34.9	10,622	11,532
Sorghum for grain bushels	73.0	74.2	341,460	370,770
Sorghum for silage tons	11.9		4,019	
Wheat, all bushels	51.7	49.7	1,932,017	1,825,820
Winter bushels	53.6	50.9	1,316,963	1,171,022
Durum bushels	45.8	41.4	53,959	68,808
Other spring bushels	48.3	48.6	561,095	585,990
Oilseeds				
Canola pounds	1,781	1,759	3,400,865	3,186,670
Cottonseed tons	(X)	(X)	5,945.0	4,887.0
Flaxseed bushels	20.0		6,395	
Mustard seed pounds	706		63,580	
Peanuts pounds	3,934	4,093	5,466,487	6,643,320
Rapeseed pounds	2,160		22,464	
Safflower pounds	1,272		194,295	
Soybeans for beans bushels	47.4	50.7	3,551,908	4,170,262
Sunflower pounds	1,560	1,730	1,956,035	2,807,115
Cotton, tobacco, and sugar crops				
Cotton, all ² bales	823	850	19,912.5	15,949.0
Upland ² bales	810	839	19,227.0	15,395.0
American Pima ² bales	1,472	1,376	685.5	554.0
Sugarbeets tons	29.2	29.6	28,600	33,958
Sugarcane tons	35.0	37.4	31,937	34,944
Tobacco pounds	2,060	1,983	467,956	387,585
Dry beans, peas, and lentils				
Chickpeas ² cwt	1,544	1,561	6,237	3,889
Dry edible beans ² cwt	1,769	2,079	20,811	34,984
Dry edible peas ² cwt	2,124	1,953	22,346	18,534
Lentils ² cwt	1,250	1,338	5,388	6,504
Potatoes and miscellaneous				
Hops pounds	1,981	1,982	112,041.2	117,229.0
Maple syrup gallons	(NA)	(NA)	4,180	4,372
Mushrooms pounds	(NA)	(NA)	831,724	816,367
Peppermint oil pounds	104		5,452	
Potatoes cwt	453	454	424,419	415,481
Spearmint oil pounds	130		2,413	

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Yield in pounds.

Crop Area Planted and Harvested, Yield, and 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. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2019	2020	2019	2020
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,121,800	1,060,690	898,820	863,200
Corn for grain ¹	36,318,900	36,817,890	32,916,270	33,397,850
Corn for silage	(NA)		2,677,020	
Hay, all ²	(NA)	(NA)	21,215,870	21,198,070
Alfalfa	(NA)	(NA)	6,775,720	6,617,490
All other	(NA)	(NA)	14,440,150	14,580,580
Oats	1,145,270	1,207,590	335,080	406,310
Proso millet	204,770	206,800	188,180	
Rice	1,027,910	1,229,040	1,000,390	1,210,430
Rye	750,700	791,170	125,450	133,550
Sorghum for grain ¹	2,130,690	2,343,160	1,891,930	2,023,450
Sorghum for silage	(NA)		137,190	
Wheat, all ²	18,407,320	17,947,600	15,132,980	14,870,740
Winter	12,737,210	12,308,650	9,952,140	9,317,580
Durum	542,690	681,500	476,320	672,590
Other spring	5,127,420	4,957,450	4,704,520	4,880,560
Oilseeds				
Canola	825,570	749,490	772,760	733,300
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	151,350	143,660	129,100	132,740
Mustard seed	39,660	39,660	36,420	37,640
Peanuts	579,800	673,890	562,400	656,890
Rapeseed	4,570	5,060	4,210	4,780
Safflower	67,100	58,680	61,800	55,640
Soybeans for beans	30,796,910	33,631,760	30,327,060	33,301,540
Sunflower	546,570	687,370	507,280	656,610
Cotton, tobacco, and sugar crops				
Cotton, all ²	5,558,700	4,903,020	4,699,460	3,644,350
Upland	5,466,150	4,821,880	4,609,010	3,566,130
American Pima	92,550	81,140	90,450	78,230
Sugarbeets	458,110	471,540	396,310	464,790
Sugarcane	(NA)	(NA)	369,560	378,020
Tobacco	(NA)	(NA)	91,910	79,100
Dry beans, peas, and lentils				
Chickpeas	182,680	102,790	163,490	100,850
Dry edible beans	521,000	705,370	476,120	681,090
Dry edible peas	446,370	404,290	425,730	384,050
Lentils	196,680	209,630	174,420	196,680
Potatoes and miscellaneous				
Hops	(NA)	(NA)	22,880	23,940
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		21,210	
Potatoes	389,840	373,530	379,320	370,570
Spearmint oil	(NA)		7,490	

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2019 and 2020 (continued)

[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. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per hectare		Production	
	2019	2020	2019	2020
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	4.18	4.17	3,755,720	3,599,510
Corn for grain	10.51	11.03	345,962,110	368,489,570
Corn for silage	45.25		121,129,120	
Hay, all ²	5.51	5.46	116,903,450	115,827,530
Alfalfa	7.35	7.21	49,781,760	47,740,600
All other	4.65	4.67	67,121,690	68,086,940
Oats	2.31	2.33	773,040	948,630
Proso millet	2.00		376,660	
Rice	8.37	8.47	8,376,720	10,256,680
Rye	2.15	2.19	269,810	292,930
Sorghum for grain	4.58	4.65	8,673,480	9,417,990
Sorghum for silage	26.58		3,645,980	
Wheat, all ²	3.47	3.34	52,580,890	49,690,680
Winter	3.60	3.42	35,841,860	31,870,000
Durum	3.08	2.78	1,468,520	1,872,650
Other spring	3.25	3.27	15,270,500	15,948,030
Oilseeds				
Canola	2.00	1.97	1,542,610	1,445,450
Cottonseed	(X)	(X)	5,393,210	4,433,410
Flaxseed	1.26		162,440	
Mustard seed	0.79		28,840	
Peanuts	4.41	4.59	2,479,560	3,013,360
Rapeseed	2.42		10,190	
Safflower	1.43		88,130	
Soybeans for beans	3.19	3.41	96,667,090	113,495,930
Sunflower	1.75	1.94	887,240	1,273,290
Cotton, tobacco, and sugar crops				
Cotton, all ²	0.92	0.95	4,335,440	3,472,490
Upland	0.91	0.94	4,186,190	3,351,870
American Pima	1.65	1.54	149,250	120,620
Sugarbeets	65.47	66.28	25,945,480	30,806,180
Sugarcane	78.40	83.86	28,972,760	31,700,660
Tobacco	2.31	2.22	212,260	175,810
Dry beans, peas, and lentils				
Chickpeas	1.73	1.75	282,910	176,400
Dry edible beans	1.98	2.33	943,970	1,586,850
Dry edible peas	2.38	2.19	1,013,600	840,690
Lentils	1.40	1.50	244,400	295,020
Potatoes and miscellaneous				
Hops	2.22	2.22	50,820	53,170
Maple syrup	(NA)	(NA)	20,900	21,860
Mushrooms	(NA)	(NA)	377,260	370,300
Peppermint oil	0.12		2,470	
Potatoes	50.75	50.86	19,251,320	18,845,900
Spearmint oil	0.15		1,090	

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Total may not add due to rounding.

Fruits and Nuts Production in Domestic Units – United States: 2020 and 2021

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year, except citrus which is for the 2020-2021 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production		
	2020	2021	
Citrus ¹			
Grapefruit	1,000 tons	535	535
Lemons	1,000 tons	1,100	932
Oranges	1,000 tons	5,217	4,604
Tangerines and mandarins	1,000 tons	928	972
Noncitrus			
Apples, commercial	million pounds	10,650.0	
Apricots	tons	34,800	
Avocados	tons		
Blueberries, Cultivated	1,000 pounds		
Blueberries, Wild (Maine)	1,000 pounds		
Cherries, Sweet	tons	334,000	
Cherries, Tart	million pounds	197.0	
Coffee (Hawaii)	1,000 pounds		
Cranberries	barrel	8,970,000	
Dates	tons		
Grapes	tons	7,180,000	
Kiwifruit (California)	tons		
Nectarines (California)	tons		
Olives (California)	tons		
Papayas (Hawaii)	1,000 pounds		
Peaches	tons	645,500	
Pears	tons	800,000	
Plums (California)	tons		
Prunes (California)	tons		
Raspberries, all	1,000 pounds		
Strawberries	1,000 cwt		
Nuts and miscellaneous			
Almonds, shelled (California)	1,000 pounds	3,000,000	
Hazelnuts, in-shell (Oregon)	tons	71,000	
Macadamias (Hawaii)	1,000 pounds		
Pecans, in-shell	1,000 pounds	306,500	
Pistachios (California)	1,000 pounds		
Walnuts, in-shell (California)	tons	780,000	

¹ Production years are 2019-2020 and 2020-2021.

Fruits and Nuts Production in Metric Units – United States: 2020 and 2021

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year, except citrus which is for the 2020-2021 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2020 (metric tons)	2021 (metric tons)
Citrus¹		
Grapefruit	485,340	485,340
Lemons	997,900	845,500
Oranges	4,732,780	4,176,680
Tangerines and mandarins	841,870	881,780
Noncitrus		
Apples, commercial	4,830,760	
Apricots	31,570	
Avocados		
Blueberries, Cultivated		
Blueberries, Wild (Maine)		
Cherries, Sweet	303,000	
Cherries, Tart	89,360	
Coffee (Hawaii)		
Cranberries	406,870	
Dates		
Grapes	6,513,590	
Kiwifruit (California)		
Nectarines (California)		
Olives (California)		
Papayas (Hawaii)		
Peaches	585,590	
Pears	725,750	
Plums (California)		
Prunes (California)		
Raspberries, all		
Strawberries		
Nuts and miscellaneous		
Almonds, shelled (California)	1,360,780	
Hazelnuts, in-shell (Oregon)	64,410	
Macadamias (Hawaii)		
Pecans, in-shell	139,030	
Pistachios (California)		
Walnuts, in-shell (California)	707,600	

¹ Production years are 2019-2020 and 2020-2021.

Cotton Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in four cotton-producing States during 2020. 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: 2016-2020

[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]

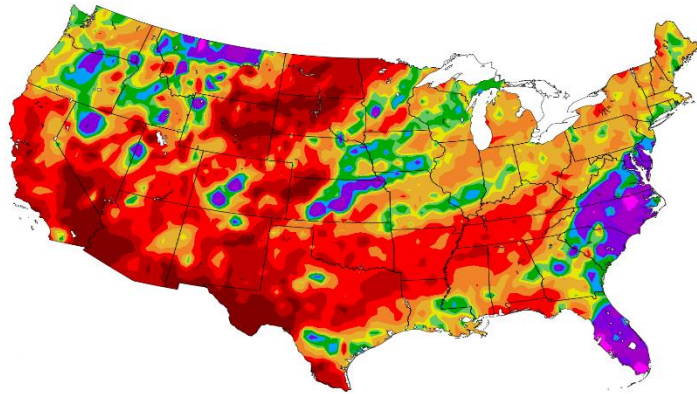
State and month	2016	2017	2018	2019	2020
	(number)	(number)	(number)	(number)	(number)
Arkansas					
September	800	911	891	900	994
October	769	839	910	896	849
November	779	825	892	925	820
December	779	825	892	900	820
Final	779	825	892	900	
Georgia					
September	562	593	605	598	606
October	668	608	737	783	747
November	719	680	712	790	761
December	725	684	719	799	784
Final	725	684	713	803	
Louisiana ¹					
September	654	648	759	(NA)	(NA)
October	760	667	734	(NA)	(NA)
November	784	665	739	(NA)	(NA)
December	784	665	739	(NA)	(NA)
Final	784	665	739	(NA)	(NA)
Mississippi					
September	953	904	871	944	900
October	942	810	895	895	867
November	974	804	846	904	877
December	974	797	846	901	875
Final	974	797	846	901	
North Carolina ¹					
September	558	637	601	(NA)	(NA)
October	599	705	641	(NA)	(NA)
November	660	769	714	(NA)	(NA)
December	660	769	719	(NA)	(NA)
Final	660	769	719	(NA)	(NA)
Texas					
September	467	592	570	458	576
October	474	602	576	438	581
November	528	603	553	456	595
December	547	615	583	459	608
Final	546	614	582	461	
4-State ²					
September	532	633	627	551	645
October	554	635	661	562	661
November	604	649	640	579	671
December	618	656	659	580	683
Final	618	656	657	593	

(NA) Not available.

¹ Objective yield survey discontinued in 2019.

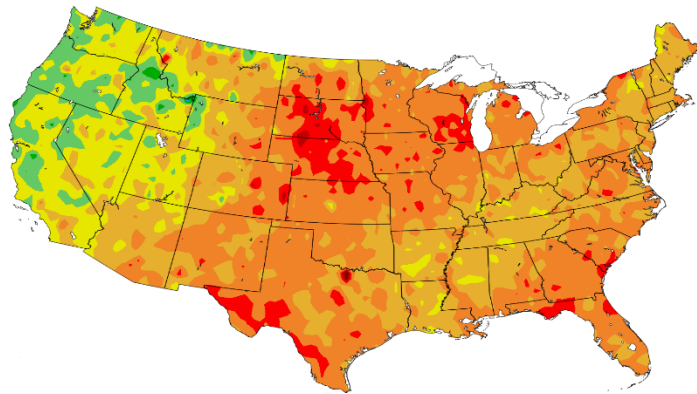
² 6-State total prior to 2019.

Percent of Normal Precipitation (%)
11/1/2020 – 11/30/2020



NOAA Regional Climate Centers

Departure from Normal Temperature (F)
11/1/2020 – 11/30/2020



NOAA Regional Climate Centers

November Weather Summary

Fueled by record-setting warmth during the first half of the month, November temperatures averaged more than 5°F above normal in many locations from the Plains to the Atlantic Coast. In contrast, near-normal monthly temperatures prevailed in the West, where warm and cool periods were interspersed. Western wildfire activity waned in November, although year-to-date fires in the United States have charred about 9.5 million acres of vegetation (more than 140 percent of the 10-year average).

Meanwhile, significantly drier-than-normal November weather prevailed in several areas, including portions of the Plains and large sections of California, the Southwest, and the northern Mississippi Delta. By November 29, dry conditions across the central and southern Plains left more than one-fifth of the winter wheat rated in very poor to poor condition in Colorado (38 percent), Texas (34 percent), Nebraska (26 percent), and Kansas (22 percent). However, the Plains' dryness also favored fieldwork, including harvest efforts. The Nation's sorghum harvest was 97 percent complete by November 22; the sunflower harvest was 97 percent complete a week later, on November 29.

Despite occasional November precipitation, Midwestern corn and soybean harvests neared completion, especially in the western Corn Belt. By November 29, the corn harvest was 92 percent complete in Ohio and 95 percent complete in Michigan and Wisconsin. In the middle and southern Atlantic States, however, periods of heavy rain—including the interaction between Tropical Storm Eta and a cold front—hampered harvest activities for a variety of summer crops, including cotton and soybeans. By November 29, more than one-fifth of the cotton remained in the field in Virginia (62 percent harvested), North Carolina (74 percent), and South Carolina (77 percent).

Tropical Storm Eta, the record-shattering twelfth Atlantic tropical cyclone to make a landfall in the United States this year, twice struck Florida. Eta's first landfall occurred on Lower Matecumbe Key on November 8 around 11 pm EST, followed by a strike on the Gulf Coast near Cedar Key on November 12 at 4 am. Sustained winds were 65 and 50 mph, respectively. Aside from gusty winds, locally above 50 mph across Florida's peninsula, Eta's primary impact was flash flooding from heavy rain. Eta produced 6 to 18 inches of rain in southeastern Florida.

Elsewhere, an already expansive drought further intensified, especially from the Southwest to the High Plains. By November 24, drought covered 75.6 percent of the 11-state Western region and 48.6 percent of the Lower 48 States, according to the *United States Drought Monitor*. National drought coverage was the highest in more than 7 years, since September 2013. Despite the picture for the Nation as a whole, drought coverage decreased during November in several regions, including the Northwest and Northeast.

November Agricultural Summary

Most of the Nation was warmer than average during the month of November. Parts of the Great Lakes, Northern Plains, Rockies, Southeast, and Texas recorded temperatures 6°F or more above normal for the month. In contrast, parts of Idaho and the Pacific Northwest were moderately cooler than normal. While much of the Nation remained drier than normal for the month of November, above normal amounts of precipitation were recorded in parts of the Delta, Great Lakes, Mid-Atlantic, Midwest, Pacific Northwest, Great Plains, Northern Rockies, Southeast, and South Texas. Parts of Southern Florida, the Mid-Atlantic, the Pacific Northwest, and pockets in the Northern Rockies recorded 7 inches or more of precipitation for the month.

Eighty-two percent of the 2020 corn acreage had been harvested by November 1, thirty-three percentage points ahead of last year and 13 percentage points ahead of the 5-year average harvest pace. Ninety-five percent of the 2020 corn acreage had been harvested by November 15, twenty-two percentage points ahead of last year and 8 percentage points ahead of the 5-year average harvest pace.

Soybean harvest across the Nation was 87 percent complete by November 1, sixteen percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 96 percent complete by November 15, seven percentage points ahead of last year and 3 percentage points ahead of the 5-year average.

Nationwide, producers had sown 89 percent of the intended 2021 winter wheat acreage by November 1, one percentage point ahead of last year and 3 percentage points ahead of the 5-year average. Nationwide, 71 percent of the winter wheat acreage had emerged by November 1, two percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Nationwide, producers had sown 96 percent of the intended 2021 winter wheat acreage by November 15, two percentage points ahead of both last year and the 5-year average. Nationwide, 85 percent of the winter wheat acreage had emerged by November 15, three percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Nationwide, 92 percent of the winter wheat acreage had emerged by November 29, three percentage points ahead of last year and 1 percentage point ahead of the 5-year average. As of November 29, forty-six percent of the 2021 winter wheat acreage was reported in good to excellent condition, 6 percentage points below the same time last year.

By November 1, fifty-two percent of the Nation's cotton acreage had been harvested, 1 percentage point ahead of last year and 3 percentage points ahead of the 5-year average. As of November 1, thirty-seven percent of the 2020 cotton acreage was rated in good to excellent condition, 3 percentage points below the same time last year. By November 15, sixty-nine percent of the Nation's cotton acreage had been harvested, 3 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. By November 29, eighty-four percent of the Nation's cotton acreage had been harvested, 2 percentage points ahead of last year and 5 percentage points ahead of the 5-year average.

Eighty-two percent of the 2020 sorghum acreage had been harvested by November 1, eight percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Ninety percent of the Nation's sorghum acreage had been harvested by November 8, five percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Ninety-seven percent of the Nation's sorghum acreage had been harvested by November 22, one percentage point ahead of last year and 5 percentage points ahead of the 5-year average.

Nationally, 96 percent of the rice acreage had been harvested by November 1, two percentage points behind last year and 3 percentage points behind the 5-year average.

Sixty-six percent of the Nation's peanut acreage had been harvested as of November 1, sixteen percentage points behind last year and 10 percentage points behind the 5-year average. Eighty-five percent of the Nation's peanut acreage had been harvested as of November 15, seven percentage points behind last year and 4 percentage points behind the 5-year average. Ninety-six percent of the Nation's peanut acreage had been harvested as of November 29, two percentage points behind last year but equal to the 5-year average.

By November 1, sugarbeet producers had harvested 95 percent of the Nation's crop, 28 percentage points ahead of last year and 11 percentage points ahead of the 5-year average.

By November 1, sixty-one percent of this year's sunflower crop was harvested, 34 percentage points ahead of last year and 7 percentage points ahead of the 5-year average. By November 15, eighty-eight percent of the Nation's sunflower crop had been harvested, 42 percentage points ahead of last year and 13 percentage points ahead of the 5-year average. By November 29, ninety-seven percent of the Nation's sunflower crop had been harvested, 35 percentage points ahead of last year and 10 percentage points ahead of the 5-year average.

Crop Comments

Cotton: Upland harvested area for the Nation is expected to total 8.81 million acres, unchanged from the previous forecast but down 23 percent from last year. Expected Pima harvested area, at 193,300 acres, is unchanged from the previous forecast but down 14 percent from last year.

Harvest progressed well throughout the cotton producing region during November. As of November 29, eighty-four percent of the cotton acreage was harvested, 2 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. At that time, harvest progress was near the five-year average in all of the estimating States except Texas, which was 14 percentage points ahead of the five-year average. If realized, the forecasted yield for all cotton in Arkansas and Tennessee will be a record high.

Ginnings totaled 9,570,350 running bales prior to December 1, compared with 12,924,350 running bales ginned prior to the same date last year.

Grapefruit: The United States 2020-2021 grapefruit crop is forecast at 535,000 tons, is down 1 percent from the previous forecast but unchanged from last season's final utilization. The Florida forecast, at 4.40 million boxes (187,000 tons), is down 2 percent from previous forecast and down 9 percent from the last season. 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 972,000 tons, unchanged from the previous forecast but up 5 percent from last season's final utilization. The Florida tangerine and mandarin forecast, at is unchanged from the previous forecast but up 8 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 is forecast at 34.9 million tons, up 3 percent from last month and up 9 percent from last year. Producers intend to harvest 934,100 acres for sugar and seed during the 2020 crop year, up slightly from the previous forecast and up 2 percent from last year. Yields for sugar and seed are expected to average 37.4 tons per acre, up 1.2 tons from last month and up 2.4 tons from 2019.

Pecans: Production is forecast at 307 million pounds (utilized, in-shell basis), up 5 from the previous forecast and up 20 percent from 2019. Improved varieties are expected to produce 291 million pounds or 95 percent of the total. The native and seedling varieties are expected to produce 15.1 million pounds, making up the remaining 5 percent of production.

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 ginner 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 September. 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. For example, 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 4.0 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the December 1 forecast and the final estimate. Using cotton again as an example, changes between the December 1 forecast and the final estimate during the last 20 years have averaged 292,000 bales, ranging from 40,000 bales to 775,000 bales. The December 1 forecast for cotton has been below the final estimate 8 times and above 12 times. This does not imply that the December 1 cotton forecast this year is likely to understate or overstate final production.

Reliability of December 1 Crop Production Forecasts

[Based on data for the past twenty years]

Crop	Root mean square error	90 percent confidence interval	Difference between forecast and final estimate				
			Production			Years	
			Average	Smallest	Largest	Below final	Above final
	(percent)	(percent)	(millions)	(millions)	(millions)	(number)	(number)
Oranges ¹tons	6.3	10.9	371	21	1,012	4	16
Sugarcanetons	3.8	6.6	1	(Z)	2	6	14
Upland cotton ¹bales	2.3	4.0	292	40	775	8	12

(Z) Less than half of the unit shown.

¹ Quantity is in thousands of units.

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

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Joshua Bates – Oats, Soybeans	(202) 690-3234
David Colwell – Current Agricultural Industrial Reports.....	(202) 720-8800
Becky Sommer – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
James Johanson – Barley, County Estimates, Hay	(202) 690-8533
Greg Lemmons – Corn, Flaxseed, Proso Millet.....	(202) 720-9526
Jean Porter – Rye, Wheat.....	(202) 720-8068
John Stephens – Peanuts, Rice.....	(202) 720-7688
Travis Thorson – Sunflower, Other Oilseeds.....	(202) 720-7369
Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section	(202) 720-2127
Heidi Lanouette – Blueberries, Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins, Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes	(202) 720-4285
Robert Little – Apricots, Dry Beans, Lettuce, Macadamia, Maple Syrup, Nectarines, Pears, Snap Beans, Spinach, Tomatoes	(202) 720-3250
Anastasiya Osborne – Almonds, Apples, Asparagus, Carrots, Coffee, Onions Plums, Prunes, Sweet Corn, Tobacco.....	(202) 720-4288
Krishna Rizal – Artichokes, Cauliflower, Celery, Grapefruit, Garlic, Hazelnuts, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges.....	(202) 720-5412
Dawn Smoker – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas, Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans	(202) 720-4215
Fleming Gibson – Cantaloupes, Dry Edible Peas, Green Peas, Honeydews, Lentils, Papayas, Peaches, Sweet Cherries, Tart Cherries, Walnuts, Watermelons	(202) 720-2127

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

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