



Crop Production

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Corn Production Down 1 Percent from October Forecast Soybean Production Down 2 Percent Cotton Production Up less than 1 Percent

Corn production for grain is forecast at 14.5 billion bushels, down 1 percent from the previous forecast but up 7 percent from 2019. Based on conditions as of November 1, yields are expected to average 175.8 bushels per harvested acre, down 2.6 bushels from the previous forecast but up 8.3 bushels from last year. Area harvested for grain is forecast at 82.5 million acres, unchanged from the previous forecast, but up 1 percent from the previous year.

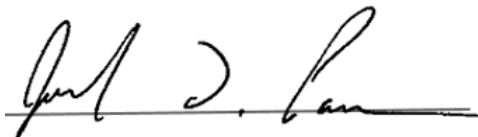
Soybean production for beans is forecast at 4.17 billion bushels, down 2 percent from the previous forecast but up 17 percent from last year. Based on conditions as of November 1, yields are expected to average 50.7 bushels per harvested acre, down 1.2 bushels from the previous forecast but up 3.3 bushels from 2019. Area harvested for beans in the United States is forecast at 82.3 million acres, unchanged from the previous forecast but up 10 percent from 2019.

All cotton production is forecast at 17.1 million 480-pound bales, up less than 1 percent from the previous forecast but down 14 percent from 2019. Based on conditions as of November 1, yields are expected to average 911 pounds per harvested acre, up 2 pounds from the previous forecast and up 88 pounds from 2019. Upland cotton production is forecast at 16.5 million 480-pound bales, up less than 1 percent from the previous forecast but down 14 percent from 2019. Pima cotton production is forecast at 557,000 bales, up 2 percent from the previous forecast but 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.

This report was approved on November 10, 2020.



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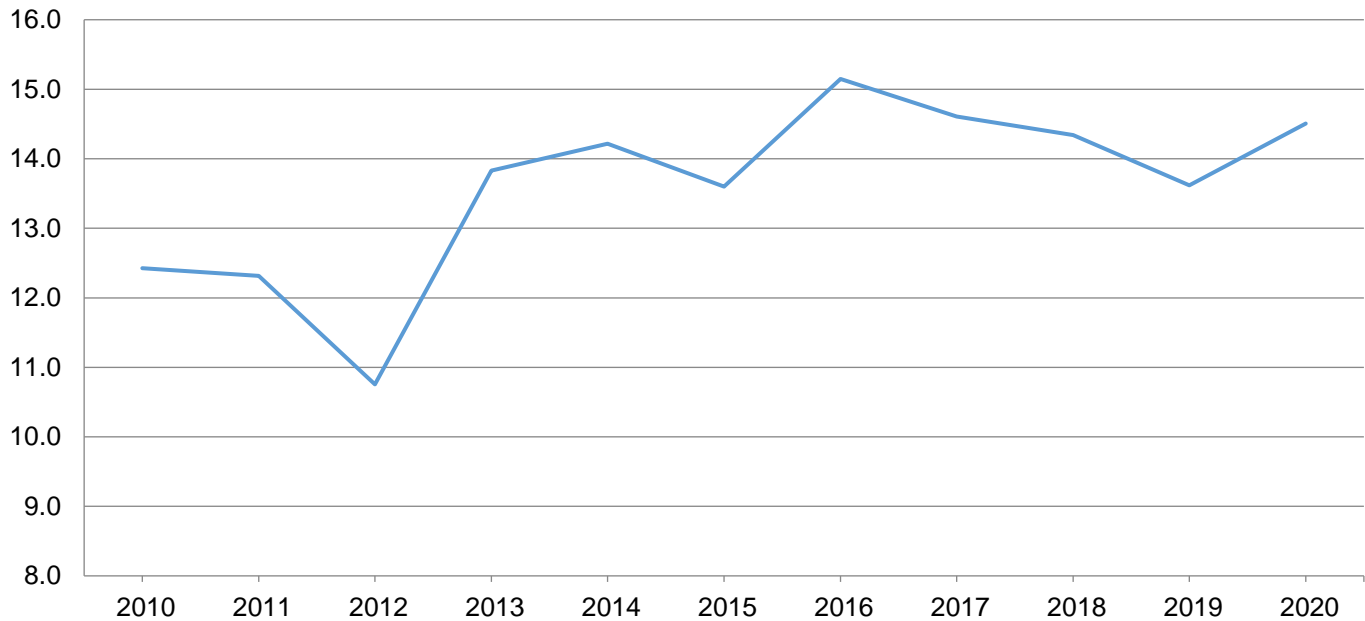
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted November 1, 2020

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	305	325	147.0	166.0	166.0	44,835	53,950
Arkansas	735	605	175.0	183.0	181.0	128,625	109,505
California	60	50	168.0	155.0	155.0	10,080	7,750
Colorado	1,300	1,160	123.0	125.0	122.0	159,900	141,520
Delaware	180	170	161.0	181.0	181.0	28,980	30,770
Georgia	350	380	160.0	182.0	182.0	56,000	69,160
Idaho	150	140	205.0	205.0	205.0	30,750	28,700
Illinois	10,200	11,200	181.0	200.0	195.0	1,846,200	2,184,000
Indiana	4,820	5,250	169.0	189.0	189.0	814,580	992,250
Iowa	13,050	12,700	198.0	186.0	184.0	2,583,900	2,336,800
Kansas	6,020	5,750	133.0	137.0	132.0	800,660	759,000
Kentucky	1,450	1,360	169.0	181.0	181.0	245,050	246,160
Louisiana	545	490	165.0	184.0	184.0	89,925	90,160
Maryland	460	455	161.0	155.0	153.0	74,060	69,615
Michigan	1,610	1,980	147.0	167.0	160.0	236,670	316,800
Minnesota	7,250	7,550	173.0	202.0	202.0	1,254,250	1,525,100
Mississippi	620	490	174.0	181.0	181.0	107,880	88,690
Missouri	2,990	3,300	155.0	169.0	167.0	463,450	551,100
Nebraska	9,810	9,830	182.0	187.0	185.0	1,785,420	1,818,550
New York	545	520	158.0	167.0	166.0	86,110	86,320
North Carolina	930	940	111.0	117.0	117.0	103,230	109,980
North Dakota	3,130	1,790	131.0	160.0	145.0	410,030	259,550
Ohio	2,570	3,300	164.0	173.0	168.0	421,480	554,400
Oklahoma	330	320	137.0	135.0	138.0	45,210	44,160
Pennsylvania	1,060	1,000	153.0	157.0	152.0	162,180	152,000
South Carolina	350	370	106.0	136.0	136.0	37,100	50,320
South Dakota	3,870	4,560	144.0	165.0	165.0	557,280	752,400
Tennessee	910	820	177.0	169.0	165.0	161,070	135,300
Texas	2,150	1,870	133.0	139.0	139.0	285,950	259,930
Virginia	380	410	144.0	136.0	131.0	54,720	53,710
Washington	90	105	237.0	240.0	240.0	21,330	25,200
Wisconsin	2,670	2,900	166.0	186.0	184.0	443,220	533,600
Other States ¹	447	437	156.2	161.0	161.0	69,803	70,345
United States	81,337	82,527	167.5	178.4	175.8	13,619,928	14,506,795

¹ Other States include Arizona, Florida, Montana, New Jersey, New Mexico, Oregon, Utah, West Virginia, and Wyoming. Individual State level estimates will be published in the *Crop Production 2020 Summary*.

Corn Production – United States

Billion bushels



Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted November 1, 2020

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	310	300	41.0	40.0	35.0	12,710	10,500
Kansas	2,400	2,760	85.0	86.0	86.0	204,000	237,360
Nebraska	130	135	93.0	89.0	92.0	12,090	12,420
Oklahoma	260	255	51.0	42.0	38.0	13,260	9,690
South Dakota	175	100	80.0	86.0	80.0	14,000	8,000
Texas	1,400	1,450	61.0	62.0	64.0	85,400	92,800
United States	4,675	5,000	73.0	74.1	74.2	341,460	370,770

Rice Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted November 1, 2020

State	Area harvested		Yield per acre			Production ¹	
	2019	2020	2019	2020		2019	2020
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,126	1,441	7,480	7,500	7,500	84,257	108,075
California	496	510	8,450	8,800	8,800	41,933	44,880
Louisiana	414	474	6,380	6,800	6,800	26,408	32,232
Mississippi	113	170	7,350	7,400	7,400	8,302	12,580
Missouri	173	215	7,370	7,900	7,800	12,747	16,770
Texas	150	181	7,350	6,400	6,400	11,028	11,584
United States	2,472	2,991	7,471	7,567	7,560	184,675	226,121

¹ Includes sweet rice production.

Rice Production by Class – United States: 2019 and Forecasted November 1, 2020

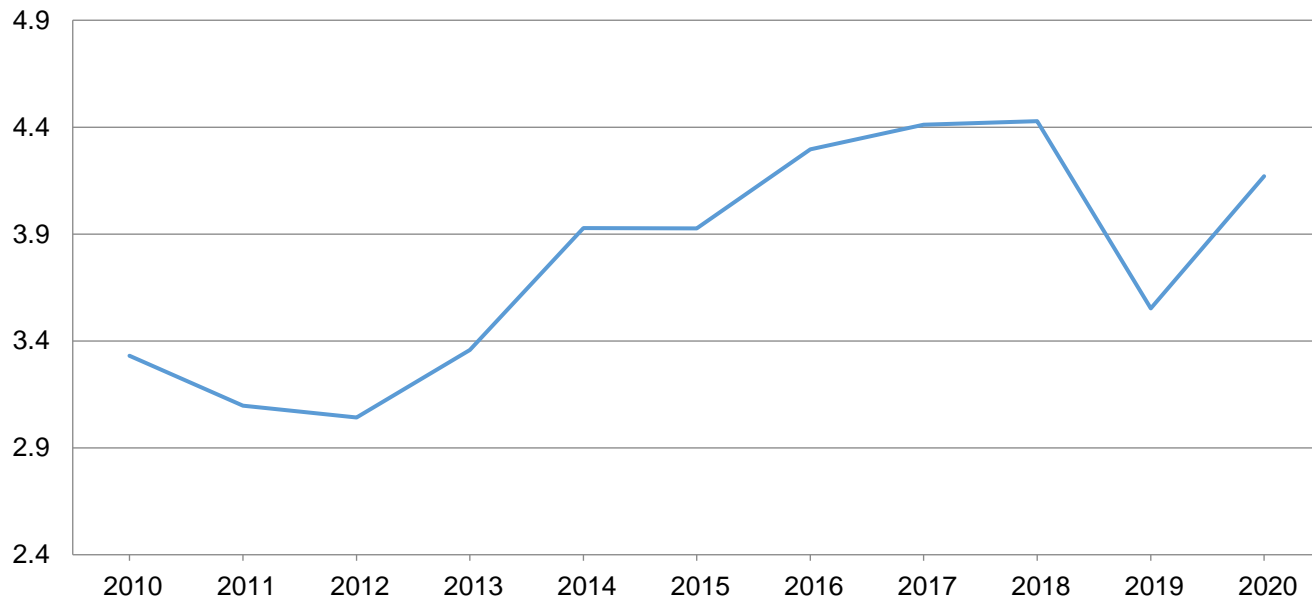
Year	Long grain	Medium grain	Short grain ¹	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2019	125,610	56,669	2,396	184,675
2020 ²	169,800	53,615	2,706	226,121

¹ Sweet rice production included with short grain.

² The 2020 rice production by class forecasts are based on class harvested acreage estimates and the 5-year average class yield compared to the all rice yield.

Soybean Production – United States

Billion bushels



Soybeans for Beans Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted November 1, 2020

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	260	275	36.0	41.0	38.0	9,360	10,450
Arkansas	2,610	2,780	49.0	49.0	50.0	127,890	139,000
Delaware	153	148	47.0	47.0	47.0	7,191	6,956
Georgia	86	93	29.0	39.0	43.0	2,494	3,999
Illinois	9,860	10,250	54.0	60.0	58.0	532,440	594,500
Indiana	5,360	5,680	51.0	60.0	58.0	273,360	329,440
Iowa	9,120	9,320	55.0	56.0	54.0	501,600	503,280
Kansas	4,490	4,750	41.5	44.0	42.0	186,335	199,500
Kentucky	1,690	1,840	46.0	55.0	55.0	77,740	101,200
Louisiana	860	1,020	48.0	55.0	57.0	41,280	58,140
Maryland	475	485	44.0	48.0	47.0	20,900	22,795
Michigan	1,720	2,190	40.5	48.0	48.0	69,660	105,120
Minnesota	6,770	7,330	44.0	52.0	51.0	297,880	373,830
Mississippi	1,630	2,060	50.0	53.0	54.0	81,500	111,240
Missouri	5,010	5,780	46.0	50.0	49.0	230,460	283,220
Nebraska	4,840	5,150	58.5	60.0	58.0	283,140	298,700
New Jersey	92	93	37.0	39.0	39.0	3,404	3,627
New York	225	300	48.0	50.0	50.0	10,800	15,000
North Carolina	1,520	1,570	35.0	38.0	39.0	53,200	61,230
North Dakota	5,400	5,700	31.5	34.0	33.0	170,100	188,100
Ohio	4,270	4,880	49.0	56.0	54.0	209,230	263,520
Oklahoma	440	530	29.0	29.0	29.0	12,760	15,370
Pennsylvania	610	605	49.0	49.0	49.0	29,890	29,645
South Carolina	315	295	26.0	32.0	36.0	8,190	10,620
South Dakota	3,440	4,900	42.5	48.0	47.0	146,200	230,300
Tennessee	1,370	1,620	47.0	48.0	49.0	64,390	79,380
Texas	73	105	28.0	42.0	40.0	2,044	4,200
Virginia	560	560	34.0	41.0	41.0	19,040	22,960
Wisconsin	1,690	1,980	47.0	55.0	53.0	79,430	104,940
United States	74,939	82,289	47.4	51.9	50.7	3,551,908	4,170,262

Peanut Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted November 1, 2020

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	156.0	182.0	3,350	3,900	4,000	522,600	728,000
Arkansas	33.0	39.0	5,200	4,900	4,900	171,600	191,100
Florida	155.0	165.0	3,800	4,000	3,700	589,000	610,500
Georgia	660.0	800.0	4,170	4,500	4,500	2,752,200	3,600,000
Mississippi	19.0	22.0	4,000	4,500	4,500	76,000	99,000
New Mexico	4.7	6.2	3,210	3,100	3,100	15,087	19,220
North Carolina	102.0	105.0	4,400	4,300	4,100	448,800	430,500
Oklahoma	14.0	15.0	4,000	3,600	3,600	56,000	54,000
South Carolina	62.0	82.0	3,800	3,800	3,800	235,600	311,600
Texas	160.0	180.0	3,050	2,700	2,700	488,000	486,000
Virginia	24.0	27.0	4,650	4,200	4,200	111,600	113,400
United States	1,389.7	1,623.2	3,934	4,125	4,093	5,466,487	6,643,320

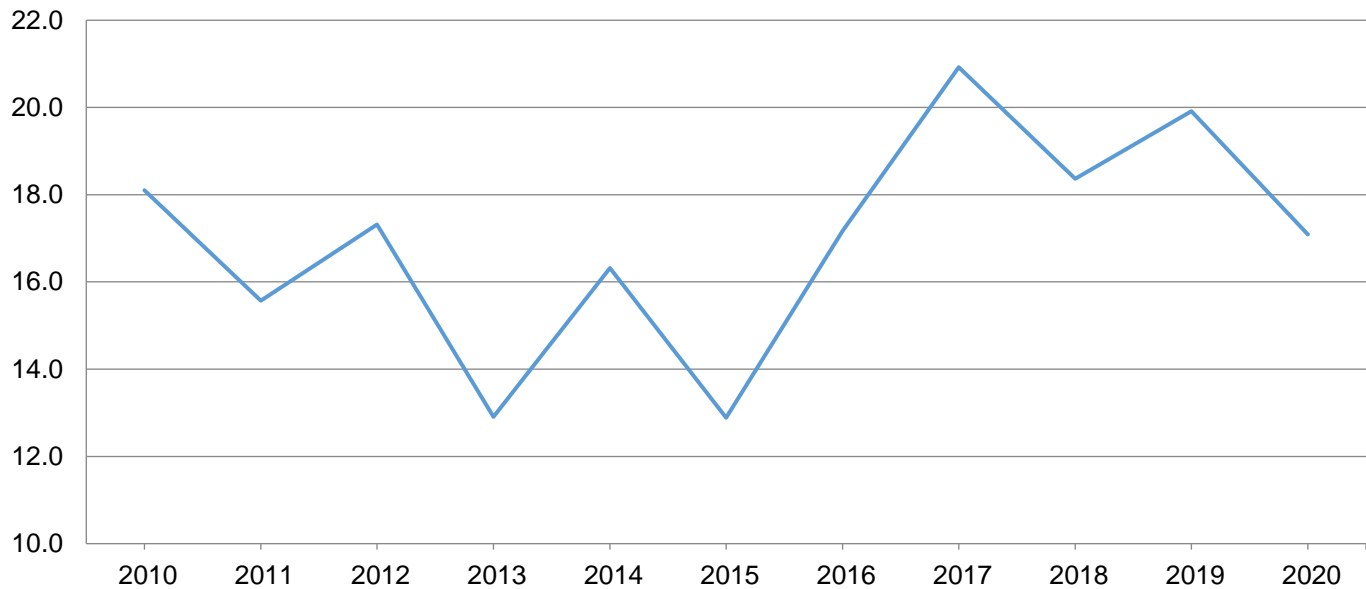
Cottonseed Production – United States: 2019 and Forecasted November 1, 2020

State	Production	
	2019	2020 ¹
	(1,000 tons)	(1,000 tons)
United States	5,945.0	5,230.0

¹ Based on a 3-year average lint-seed ratio.

Cotton Production - United States

Million bales



Cotton Area Harvested, Yield, and Production by Type – States and United States: 2019 and Forecasted November 1, 2020

Type and State	Area harvested		Yield per acre			Production ¹	
	2019	2020	2019	2020		2019	2020
				October 1	November 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	960	890	1,028.0	825.0
Arizona	158.0	123.0	1,154	1,366	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	833	759	205.0	155.0
Georgia	1,380.0	1,190.0	953	968	968	2,740.0	2,400.0
Kansas	151.0	195.0	890	788	788	280.0	320.0
Louisiana	270.0	165.0	1,035	1,047	1,164	582.0	400.0
Mississippi	700.0	525.0	1,112	1,198	1,198	1,621.0	1,310.0
Missouri	368.0	287.0	1,193	1,171	1,146	915.0	685.0
New Mexico	45.0	35.0	821	891	1,029	77.0	75.0
North Carolina	500.0	340.0	998	833	819	1,040.0	580.0
Oklahoma	460.0	460.0	688	762	803	659.0	770.0
South Carolina	295.0	185.0	809	804	843	497.0	325.0
Tennessee	405.0	275.0	1,138	1,065	1,117	960.0	640.0
Texas	5,250.0	3,850.0	578	761	761	6,320.0	6,100.0
Virginia	102.0	79.0	1,144	972	972	243.0	160.0
United States	11,389.0	8,812.0	810	899	901	19,227.0	16,535.0
American Pima							
Arizona	7.5	6.5	800	1,108	1,108	12.5	15.0
California	201.0	146.0	1,545	1,463	1,529	647.0	465.0
New Mexico	5.0	10.8	864	1,111	889	9.0	20.0
Texas	10.0	30.0	816	960	912	17.0	57.0
United States	223.5	193.3	1,472	1,353	1,383	685.5	557.0
All							
Alabama	532.0	445.0	928	960	890	1,028.0	825.0
Arizona	165.5	129.5	1,138	1,353	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	1,497	1,548	821.0	600.0
Florida	110.0	98.0	895	833	759	205.0	155.0
Georgia	1,380.0	1,190.0	953	968	968	2,740.0	2,400.0
Kansas	151.0	195.0	890	788	788	280.0	320.0
Louisiana	270.0	165.0	1,035	1,047	1,164	582.0	400.0
Mississippi	700.0	525.0	1,112	1,198	1,198	1,621.0	1,310.0
Missouri	368.0	287.0	1,193	1,171	1,146	915.0	685.0
New Mexico	50.0	45.8	826	943	996	86.0	95.0
North Carolina	500.0	340.0	998	833	819	1,040.0	580.0
Oklahoma	460.0	460.0	688	762	803	659.0	770.0
South Carolina	295.0	185.0	809	804	843	497.0	325.0
Tennessee	405.0	275.0	1,138	1,065	1,117	960.0	640.0
Texas	5,260.0	3,880.0	578	762	762	6,337.0	6,157.0
Virginia	102.0	79.0	1,144	972	972	243.0	160.0
United States	11,612.5	9,005.3	823	909	911	19,912.5	17,092.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

Sugarbeet Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted November 1, 2020

[Relates to year of intended harvest in all States except California]

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California ¹	24.5	23.9	44.1	45.3	45.3	1,080	1,083
Colorado	24.4	24.0	30.7	32.9	32.6	749	782
Idaho	165.0	172.0	39.0	40.2	40.2	6,435	6,914
Michigan	145.0	154.0	28.6	29.2	28.3	4,147	4,358
Minnesota	336.0	425.0	25.0	28.4	26.1	8,400	11,093
Montana	36.5	43.3	31.6	33.5	33.0	1,153	1,429
Nebraska	42.1	45.8	25.4	30.6	32.3	1,069	1,479
North Dakota	170.0	219.0	26.0	28.4	24.8	4,420	5,431
Oregon	9.8	9.4	38.5	40.2	40.2	377	378
Washington	2.0	1.9	45.4	47.5	47.5	91	90
Wyoming	24.0	30.2	28.3	30.5	30.5	679	921
United States	979.3	1,148.5	29.2	31.2	29.6	28,600	33,958

¹ Relates to year of planting for overwintered beets in southern California.

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

State	Area harvested		Yield per acre ¹			Production ¹	
	2019	2020	2019	2020		2019	2020
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	410.7	413.0	43.0	43.9	43.9	17,644	18,131
Louisiana	469.0	484.0	28.1	30.5	29.8	13,161	14,423
Texas	33.5	35.6	33.8	33.7	34.5	1,132	1,228
United States	913.2	932.6	35.0	36.6	36.2	31,937	33,782

¹ Net tons.

Potato Area Planted and Harvested – States and United States: 2019 and 2020

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2019	2020	2019	2020 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	40.5	34.0	40.1	33.4
Colorado	51.3	54.0	51.0	53.8
San Luis Valley ²	48.6	(NA)	48.4	(NA)
All other areas ²	2.7	(NA)	2.6	(NA)
Florida	26.0	22.0	25.3	21.8
Idaho	310.0	300.0	308.0	300.0
Maine	52.0	51.0	51.5	50.5
Michigan	50.0	48.0	48.5	47.0
Minnesota	46.0	42.0	43.0	41.5
Nebraska	20.5	19.0	20.2	18.7
North Dakota	73.0	72.0	58.0	70.5
Oregon	43.0	45.0	42.9	45.0
Texas	15.0	11.0	14.8	10.5
Washington	165.0	155.0	164.0	154.0
Wisconsin	71.0	70.0	70.0	69.0
United States	963.3	923.0	937.3	915.7

(NA) Not available.

¹ Forecasted.

² Estimates discontinued in 2020.

Potato Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted November 1, 2020

State	Area harvested		Yield per acre		Production	
	2019	2020	2019	2020	2019	2020
	(1,000 acres)	(1,000 acres)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)
California	40.1	33.4	420	410	16,842	13,694
Colorado	51.0	53.8	386	425	19,666	22,865
San Luis Valley ¹	48.4	(NA)	380	(NA)	18,392	(NA)
All other areas ¹	2.6	(NA)	490	(NA)	1,274	(NA)
Florida	25.3	21.8	275	250	6,958	5,450
Idaho	308.0	300.0	425	455	130,900	136,500
Maine	51.5	50.5	325	265	16,738	13,383
Michigan	48.5	47.0	420	370	20,370	17,390
Minnesota	43.0	41.5	415	420	17,845	17,430
Nebraska	20.2	18.7	475	490	9,595	9,163
North Dakota	58.0	70.5	335	325	19,430	22,913
Oregon	42.9	45.0	590	620	25,311	27,900
Texas	14.8	10.5	480	405	7,104	4,253
Washington	164.0	154.0	640	625	104,960	96,250
Wisconsin	70.0	69.0	410	410	28,700	28,290
United States	937.3	915.7	453	454	424,419	415,481

(NA) Not available.

¹ Estimates discontinued in 2020.

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	932.6
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	5,230.0
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	911	19,912.5	17,092.0
Upland ²	bales	810	901	19,227.0	16,535.0
American Pima ²	bales	1,472	1,383	685.5	557.0
Sugarbeets	tons	29.2	29.6	28,600	33,958
Sugarcane	tons	35.0	36.2	31,937	33,782
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	377,410
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	4,744,580
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	1.02	4,335,440	3,721,340
Upland	0.91	1.01	4,186,190	3,600,070
American Pima	1.65	1.55	149,250	121,270
Sugarbeets	65.47	66.28	25,945,480	30,806,180
Sugarcane	78.40	81.20	28,972,760	30,646,510
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	539
Lemons 1,000 tons	1,100	932
Oranges 1,000 tons	5,217	4,649
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	292,000	
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	488,970
Lemons	997,900	845,500
Oranges	4,732,780	4,217,500
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	132,450	
Pistachios (California)		
Walnuts, in-shell (California)	707,600	

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

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2020. Randomly selected plots in corn for grain fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are rounded actual field counts from this survey.

Corn for Grain Plant Population per Acre – Selected States: 2016-2020

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

State and month	2016	2017	2018	2019	2020	State and month	2016	2017	2018	2019	2020
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	31,100	30,800	32,000	31,100	30,600	All corn					
October	31,100	30,900	32,000	30,950	30,400	September ...	25,900	25,950	27,100	25,850	27,450
November	31,100	30,950	32,000	30,900	30,400	October	25,950	25,800	26,750	25,850	27,450
Final	31,100	30,950	32,000	30,900		November	26,000	25,700	26,750	25,700	27,400
						Final	26,000	25,700	26,750	25,700	
Indiana						Irrigated					
September	30,200	29,550	30,450	29,300	29,850	September ...	28,200	29,050	30,300	28,300	29,950
October	29,950	29,350	30,400	29,050	29,800	October	28,200	29,000	29,900	28,350	30,100
November	29,800	29,200	30,400	29,000	29,850	November	28,300	28,750	29,900	28,300	30,100
Final	29,800	29,200	30,400	28,950		Final	28,300	28,750	29,900	28,300	
Iowa						Non-irrigated					
September	31,250	31,300	31,350	30,850	31,050	September ...	22,900	22,500	23,350	23,300	24,950
October	31,050	31,150	31,150	30,800	31,000	October	23,000	22,200	23,100	23,250	24,750
November	31,050	31,150	31,100	30,750	31,050	November	23,000	22,250	23,150	23,000	24,700
Final	31,050	31,150	31,100	30,750		Final	23,000	22,250	23,150	23,000	
Kansas						Ohio					
September	22,550	22,050	22,600	21,350	21,700	September	30,250	29,250	30,550	30,050	29,800
October	22,550	22,100	22,450	21,200	21,650	October	30,100	29,150	30,400	30,100	29,900
November	22,550	22,300	22,450	21,200	21,650	November	30,250	29,100	30,400	30,000	29,900
Final	22,550	22,300	22,450	21,200		Final	30,250	29,100	30,400	30,000	
Minnesota						South Dakota					
September	30,800	30,750	30,950	30,700	31,750	September	26,200	26,250	27,000	26,400	25,450
October	30,700	30,550	30,900	30,650	31,800	October	26,100	26,200	26,750	26,100	25,400
November	30,550	30,600	30,900	30,550	31,800	November	26,000	26,200	27,000	26,000	25,550
Final	30,550	30,600	30,900	30,650		Final	26,000	26,200	27,000	25,900	
Missouri						Wisconsin					
September	27,300	27,850	28,500	28,200	28,200	September	30,100	29,450	31,000	30,250	30,300
October	27,750	27,850	28,400	27,500	28,150	October	29,900	29,100	30,600	30,150	30,400
November	27,800	27,950	28,400	27,600	28,200	November	29,800	29,150	30,650	29,750	30,300
Final	27,800	27,950	28,400	27,600		Final	29,800	29,100	30,650	29,850	
						10 State					
						September	29,050	28,800	29,500	28,650	29,000
						October	28,950	28,700	29,350	28,500	28,950
						November	28,950	28,700	29,400	28,450	28,950
						Final	28,950	28,700	29,350	28,450	

Corn for Grain Number of Ears per Acre – Selected States: 2016-2020

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

State and month	2016	2017	2018	2019	2020	State and month	2016	2017	2018	2019	2020
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	30,350	30,200	31,550	30,300	29,900	All corn					
October	30,450	30,300	31,500	30,300	29,800	September	25,700	25,800	27,100	25,850	26,800
November	30,450	30,250	31,500	30,150	29,800	October	25,350	26,050	26,750	25,950	26,850
Final	30,450	30,250	31,500	30,150		November	25,400	25,950	26,800	25,700	26,750
						Final	25,400	25,950	26,800	25,700	
Indiana						Irrigated					
September	29,600	28,900	30,000	28,900	29,600	September	27,850	28,650	29,950	28,200	28,900
October	29,400	29,100	29,800	28,700	29,600	October	27,500	28,950	29,350	28,150	28,850
November	29,250	28,850	29,750	28,650	29,600	November	27,550	28,750	29,300	28,000	28,800
Final	29,250	28,850	29,750	28,600		Final	27,550	28,750	29,300	28,000	
Iowa						Non-irrigated					
September	30,550	30,600	31,150	30,250	30,600	September	22,850	22,600	23,850	23,500	24,650
October	30,400	30,600	30,900	30,200	30,450	October	22,550	22,800	23,650	23,700	24,800
November	30,500	30,600	30,800	30,100	30,550	November	22,550	22,900	23,850	23,400	24,700
Final	30,500	30,600	30,800	30,100		Final	22,550	22,900	23,850	23,400	
Kansas						Ohio					
September	22,650	22,800	22,350	21,550	22,050	September	29,750	29,500	30,750	29,850	29,350
October	22,450	22,600	21,650	22,250	21,250	October	29,200	29,250	30,300	29,750	29,700
November	22,450	22,650	21,700	22,200	21,250	November	29,600	29,150	30,300	29,550	29,700
Final	22,450	22,650	21,700	22,200		Final	29,600	29,150	30,300	29,550	
Minnesota						South Dakota					
September	30,550	30,750	30,850	30,050	31,750	September	25,650	26,250	28,100	26,450	25,550
October	30,350	30,850	30,850	29,800	31,850	October	25,350	26,150	27,750	25,300	25,550
November	30,250	30,850	30,800	29,650	31,850	November	25,450	26,200	27,950	25,000	25,700
Final	30,250	30,600	30,800	29,700		Final	25,450	25,850	28,050	24,900	
Missouri						Wisconsin					
September	26,900	27,750	27,400	26,950	27,650	September	29,300	28,950	30,700	29,850	30,050
October	27,150	27,800	27,300	26,950	27,600	October	28,900	28,800	30,450	30,250	30,400
November	27,150	27,850	27,300	27,100	27,650	November	28,750	28,600	30,450	29,850	30,350
Final	27,150	27,850	27,300	27,100		Final	28,750	28,550	30,450	29,950	
						10-State					
						September	28,550	28,550	29,350	28,200	28,650
						October	28,350	28,550	29,100	28,200	28,600
						November	28,400	28,500	29,100	28,050	28,600
						Final	28,400	28,450	29,100	28,050	

Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2016-2020

Year	October		November	
	Dent stage ¹	Mature ²	Dent stage ¹	Mature ²
	(percent)	(percent)	(percent)	(percent)
2016	17	73	(Z)	96
2017	41	51	(Z)	96
2018	13	80	(Z)	96
2019	49	29	1	94
2020	25	68	(Z)	96

(Z) Less than half of the unit shown.

¹ Includes corn in the dent stage of development. Ears are firm and solid. Kernels fully dented with no milk present in most kernels.

² Includes that portion of the crop that is mature and ready for harvest. No green foliage is present.

Corn for Grain Percentage Distribution by Plant Population Per Acre – Selected States: 2016-2020

State and year	Plant populations					
	Less than 20,000	20,000- 22,500	22,501- 25,000	25,001- 27,500	27,501- 30,000	More than 30,000
	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
Illinois2016	0.9	0.5	4.3	11.8	18.0	64.5
.....2017	0.5	1.4	3.8	11.5	20.6	62.2
.....2018	-	0.9	1.4	6.6	15.6	75.5
.....2019	0.9	2.8	3.7	9.3	18.7	64.6
.....2020	0.6	1.9	5.8	13.5	16.0	62.2
Indiana2016	1.7	1.7	8.3	11.6	19.8	56.9
.....2017	5.7	4.9	6.5	13.0	21.1	48.8
.....2018	1.5	0.8	2.3	10.7	27.5	57.2
.....2019	5.6	5.6	5.6	11.1	24.1	48.0
.....2020	1.3	3.8	5.1	12.8	19.2	57.8
Iowa2016	0.4	1.8	2.2	8.9	22.7	64.0
.....2017	1.3	3.4	2.1	5.9	13.5	73.8
.....2018	0.4	1.7	3.3	6.3	19.2	69.1
.....2019	0.8	0.8	3.8	9.0	21.1	64.5
.....2020	-	-	4.3	9.4	21.7	64.6
Kansas2016	27.9	14.8	19.4	12.0	17.6	8.3
.....2017	24.3	21.2	17.2	21.2	12.1	4.0
.....2018	33.0	12.4	12.4	14.4	7.2	20.6
.....2019	39.9	8.0	12.0	14.7	14.7	10.7
.....2020	30.1	14.5	12.7	13.6	16.4	12.7
Minnesota2016	0.8	3.0	4.5	11.4	21.2	59.1
.....2017	2.8	4.7	5.6	7.5	12.1	67.3
.....2018	-	1.7	8.7	6.1	13.9	69.6
.....2019	1.4	4.2	8.3	2.8	25.0	58.3
.....2020	-	0.8	2.3	3.8	19.5	73.6
Missouri2016	3.0	6.0	14.0	28.0	23.0	26.0
.....2017	1.9	1.0	15.5	26.2	26.2	29.2
.....2018	2.2	6.5	8.6	20.4	28.0	34.3
.....2019	2.8	8.3	16.7	22.2	16.7	33.3
.....2020	2.8	0.9	11.0	22.0	33.0	30.3
Nebraska2016	9.6	10.1	16.3	20.2	19.7	24.1
.....2017	16.8	6.3	12.6	19.4	17.8	27.1
.....2018	12.0	4.9	7.1	16.4	25.1	34.5
.....2019	15.1	12.3	12.3	17.9	19.8	22.6
.....2020	10.8	8.8	8.8	8.8	23.0	39.8
Ohio2016	1.9	2.9	1.0	9.6	26.9	57.7
.....2017	2.7	4.4	7.1	15.0	25.7	45.1
.....2018	1.0	3.9	3.9	7.8	23.5	59.9
.....2019	-	4.3	4.3	12.8	19.1	59.5
.....2020	-	-	14.4	13.6	25.4	46.6
South Dakota2016	13.2	5.3	17.1	26.3	18.4	19.7
.....2017	8.1	13.5	16.2	16.2	25.7	20.3
.....2018	7.4	12.6	11.6	18.9	21.1	28.4
.....2019	9.3	7.0	23.3	23.3	30.1	7.0
.....2020	13.7	9.6	21.9	21.9	13.7	19.2
Wisconsin2016	2.4	4.9	3.7	11.0	18.3	59.7
.....2017	4.0	2.7	6.7	20.0	21.3	45.3
.....2018	2.0	2.0	-	7.9	19.8	68.3
.....2019	-	-	9.4	15.6	25.0	50.0
.....2020	1.4	1.4	8.1	6.8	23.0	59.3

- Represents zero.

Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2016-2020

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois 2016	6	218	-	1	-
..... 2017	6	210	4	1	-
..... 2018	9	211	-	-	-
..... 2019	2	110	1	-	-
..... 2020	8	148	2	-	-
Indiana 2016	8	118	1	1	1
..... 2017	7	117	-	-	-
..... 2018	9	126	1	1	-
..... 2019	4	53	1	-	-
..... 2020	2	79	1	-	-
Iowa 2016	12	213	4	4	-
..... 2017	2	236	3	3	-
..... 2018	12	234	2	1	-
..... 2019	3	136	-	1	-
..... 2020	9	140	5	3	-
Kansas 2016	8	105	-	-	-
..... 2017	2	106	2	-	-
..... 2018	10	91	-	-	-
..... 2019	9	70	-	-	-
..... 2020	2	110	-	-	-
Minnesota 2016	27	113	2	-	-
..... 2017	27	89	2	-	-
..... 2018	21	97	3	2	-
..... 2019	15	63	3	1	-
..... 2020	25	109	-	1	-
Missouri 2016	5	96	1	2	-
..... 2017	3	101	5	2	-
..... 2018	5	90	1	2	1
..... 2019	5	30	1	2	-
..... 2020	7	99	-	5	-
Nebraska 2016		162	23	-	-
..... 2017	2	169	23	2	-
..... 2018	6	160	25	-	-
..... 2019	3	98	15	-	-
..... 2020	2	138	15	-	-
Ohio 2016	4	105	-	1	-
..... 2017	2	109	1	1	-
..... 2018	3	100	-	-	-
..... 2019	2	45	1	-	-
..... 2020	5	113	-	-	-
South Dakota 2016	5	71	4	1	2
..... 2017	6	75	1	1	-
..... 2018	8	92	2	2	-
..... 2019	5	45	-	1	-
..... 2020	11	62	2	2	-
Wisconsin 2016	2	84	2	2	-
..... 2017	4	83	5	1	-
..... 2018	4	108	4	2	-
..... 2019	1	39	-	-	-
..... 2020	3	78	1	2	-

- Represents zero.

Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2016-2020

State and year	Samples (number)	Row width (inches)						Average row width (inches)	
		20.5 or less (percent)	20.6- 30.5 (percent)	30.6- 34.5 (percent)	34.6- 36.5 (percent)	36.6- 38.5 (percent)	38.6 or greater (percent)		
Illinois	2016	211	2.4	87.6	9.5	-	-	0.5	29.8
	2017	209	1.4	85.1	12.0	0.5	0.5	0.5	30.1
	2018	212	1.9	87.7	10.4	-	-	-	29.9
	2019	107	-	83.2	15.9	0.9	-	-	30.2
	2020	156	2.6	85.2	10.9	-	1.3	-	29.8
Indiana	2016	121	3.3	72.7	22.3	1.7	-	-	29.8
	2017	123	2.4	78.9	17.9	0.8	-	-	29.8
	2018	131	6.1	71.7	19.8	0.8	0.8	0.8	29.8
	2019	54	1.9	77.7	18.5	-	1.9	-	30.2
	2020	78	1.3	80.7	16.7	-	1.3	-	30.2
Iowa	2016	225	2.2	76.9	19.1	0.9	0.9	-	30.0
	2017	237	0.8	76.4	19.0	0.4	3.0	0.4	30.4
	2018	239	3.8	77.4	17.2	0.8	0.8	-	29.9
	2019	133	1.5	78.1	18.8	0.8	0.8	-	30.0
	2020	138	2.9	79.7	11.6	2.9	2.9	-	30.1
Kansas	2016	108	4.6	85.2	10.2	-	-	-	29.6
	2017	99	2.0	75.8	21.2	-	-	1.0	30.1
	2018	97	3.1	76.3	20.6	-	-	-	29.7
	2019	75	4.0	81.3	14.7	-	-	-	29.9
	2020	110	1.8	78.2	20.0	-	-	-	29.7
Minnesota	2016	132	2.3	78.0	17.4	0.8	1.5	-	28.8
	2017	107	4.7	81.4	8.4	0.9	3.7	0.9	28.9
	2018	115	1.7	82.6	11.3	2.6	0.9	0.9	29.3
	2019	72	5.6	72.1	18.1	4.2	-	-	29.0
	2020	133	-	84.9	14.3	-	-	0.8	28.9
Missouri	2016	100	1.0	76.0	20.0	1.0	2.0	-	30.0
	2017	103	1.9	66.1	25.2	3.9	1.0	1.9	30.4
	2018	93	1.1	76.2	18.3	2.2	1.1	1.1	30.1
	2019	36	2.8	74.9	13.9	2.8	5.6	-	30.2
	2020	109	5.5	80.7	11.0	-	2.8	-	29.6
Nebraska	2016	178	-	65.2	20.2	9.0	4.5	1.1	31.2
	2017	191	-	70.7	15.7	9.4	4.2	-	31.0
	2018	183	1.6	65.6	15.3	12.6	4.9	-	31.2
	2019	106	1.9	71.7	14.2	11.3	0.9	-	30.8
	2020	148	-	67.6	23.0	7.4	2.0	-	30.8
Ohio	2016	104	4.8	81.7	10.6	1.9	1.0	-	29.8
	2017	113	0.9	83.2	15.0	0.9	-	-	30.0
	2018	102	2.9	79.5	17.6	-	-	-	29.9
	2019	47	4.3	87.2	6.4	2.1	-	-	29.8
	2020	118	1.7	88.1	10.2	-	-	-	29.9
South Dakota	2016	76	2.6	64.6	26.3	3.9	1.3	1.3	30.4
	2017	74	8.1	62.1	28.4	-	1.4	-	29.6
	2018	95	5.3	69.4	20.0	2.1	2.1	1.1	30.0
	2019	43	4.7	67.4	25.6	-	2.3	-	30.0
	2020	73	5.5	72.6	15.1	2.7	1.4	2.7	29.8
Wisconsin	2016	82	1.2	72.0	22.0	1.2	1.2	2.4	30.5
	2017	75	1.3	61.5	29.3	5.3	1.3	1.3	30.6
	2018	101	0.0	75.2	21.8	-	3.0	-	30.2
	2019	32	3.1	84.4	12.5	-	-	-	29.6
	2020	74	-	75.6	18.9	2.7	1.4	1.4	30.4

- Represents zero.

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	
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	
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)	
Final	784	665	739	(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	
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)	
Final	660	769	719	(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	
Final	546	614	582	461	
4-State ²					
September	532	633	627	551	645
October	604	635	661	562	661
November	604	649	640	579	671
December	618	656	659	580	
Final	618	656	657	593	

(NA) Not available.

¹ Objective yield survey discontinued in 2019.

² 6-State total prior to 2019.

Soybean Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 11 soybean-producing States during 2020. Randomly selected plots in soybean fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

Soybean Pods with Beans per 18 Square Feet – Selected States: 2016-2020

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

State and month	2016	2017	2018	2019	2020	State and month	2016	2017	2018	2019	2020
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						Missouri					
September	1,884	1,992	1,841	1,759	1,630	September	1,881	2,041	1,777	1,719	1,977
October	1,805	1,898	1,795	1,731	1,527	October	2,006	2,172	1,899	1,754	2,093
November	1,820	2,039	1,943	1,717	1,459	November	2,123	2,253	1,948	1,898	2,036
Final	1,826	2,075	1,973	1,828		Final	2,164	2,239	1,961	1,921	
Illinois						Nebraska					
September	1,969	1,917	2,132	1,696	2,019	September	1,947	1,653	1,736	1,669	1,943
October	2,109	1,886	2,225	1,683	2,127	October	2,036	1,795	2,071	1,777	2,002
November	2,193	1,947	2,249	1,601	2,170	November	2,074	1,853	2,174	1,722	1,980
Final	2,197	1,947	2,264	1,603		Final	2,074	1,853	2,174	1,722	
Indiana						North Dakota					
September	1,683	1,795	1,880	1,496	2,056	September	1,395	1,406	1,418	1,147	1,242
October	1,775	1,772	2,001	1,501	1,994	October	1,444	1,430	1,485	1,246	1,439
November	1,873	1,774	2,054	1,569	1,963	November	1,442	1,465	1,515	1,253	1,442
Final	1,873	1,774	2,052	1,561		Final	1,470	1,451	1,514	1,195	
Iowa						Ohio					
September	1,808	1,644	1,823	1,601	1,675	September	1,773	1,765	2,019	1,563	1,811
October	1,801	1,670	1,984	1,642	1,933	October	1,715	1,714	2,180	1,760	1,972
November	1,861	1,717	2,082	1,660	1,927	November	1,782	1,828	2,210	1,587	1,983
Final	1,890	1,735	2,097	1,682		Final	1,782	1,823	2,210	1,587	
Kansas						South Dakota					
September	1,467	1,487	1,552	1,561	1,650	September	1,561	1,511	1,649	1,504	1,688
October	1,643	1,472	1,456	1,604	1,699	October	1,639	1,472	1,867	1,316	1,720
November	1,720	1,561	1,548	1,596	1,629	November	1,709	1,457	1,822	1,331	1,696
Final	1,737	1,561	1,558	1,583		Final	1,665	1,457	1,724	1,353	
Minnesota						11-State					
September	1,614	1,359	1,605	1,465	1,607	September	1,741	1,678	1,786	1,561	1,780
October	1,625	1,407	1,616	1,474	1,782	October	1,800	1,692	1,895	1,593	1,882
November	1,658	1,480	1,569	1,458	1,751	November	1,862	1,751	1,938	1,582	1,866
Final	1,658	1,480	1,569	1,458		Final	1,870	1,752	1,938	1,586	

Soybean Frequency of Farmer Reported Row Widths – Selected States: 2016-2020

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas 2016	5	31	46	36	73
..... 2017	9	25	42	39	79
..... 2018	9	36	47	36	83
..... 2019	-	14	13	21	25
..... 2020	5	14	14	36	49
Illinois 2016	1	15	105	57	1
..... 2017	2	10	109	59	2
..... 2018	3	11	118	58	-
..... 2019	2	5	82	33	1
..... 2020	-	11	91	44	-
Indiana 2016	1	27	91	17	2
..... 2017	3	28	101	12	-
..... 2018	1	19	110	14	-
..... 2019	-	5	57	9	1
..... 2020	1	11	87	8	-
Iowa 2016	1	6	73	100	2
..... 2017	1	3	80	94	1
..... 2018	1	11	77	88	3
..... 2019	1	9	51	66	-
..... 2020	1	8	63	85	3
Kansas 2016	6	8	38	57	-
..... 2017	10	14	32	43	2
..... 2018	2	17	35	54	1
..... 2019	-	10	23	16	-
..... 2020	1	9	19	27	-
Minnesota 2016	5	8	40	36	1
..... 2017	1	9	38	42	-
..... 2018	3	8	34	45	2
..... 2019	3	5	26	28	1
..... 2020	3	5	35	51	1
Missouri 2016	-	14	71	19	5
..... 2017	1	10	70	21	4
..... 2018	1	15	65	31	4
..... 2019	1	5	38	10	1
..... 2020	-	13	63	20	11
Nebraska 2016	-	10	36	46	3
..... 2017	1	4	38	51	8
..... 2018	3	7	35	49	8
..... 2019	-	6	37	49	5
..... 2020	-	8	39	58	1

See footnote(s) at end of table.

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2016-2020 (continued)

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
North Dakota2016	8	17	55	15	-
.....2017	5	16	56	7	1
.....2018	4	31	49	12	-
.....2019	3	11	28	6	-
.....2020	7	27	48	11	-
Ohio2016	3	41	84	7	-
.....2017	2	38	83	8	-
.....2018	4	31	98	1	-
.....2019	2	11	42	1	-
.....2020	3	30	82	5	-
South Dakota2016	3	4	27	59	2
.....2017	1	4	27	63	1
.....2018	2	4	27	61	1
.....2019	4	-	18	30	-
.....2020	-	-	43	44	-

- Represents zero.

¹ Includes broadcast soybeans.

Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2016-2020

Year	October	November
	Mature ¹	Mature ¹
	(percent)	(percent)
2016	53	93
2017	49	93
2018	57	93
2019	25	91
2020	64	94

¹ Includes soybeans with brown pods and are considered mature or almost mature.

Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2016-2020

State and year	Samples	Row width (inches)					Average row width ¹
		10.0 or less ¹	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater	
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)
Arkansas2016	189	14.6	24.1	4.0	21.2	36.1	26.0
.....2017	197	16.3	24.2	2.3	19.8	37.4	26.4
.....2018	208	18.3	18.3	6.7	14.7	42.0	26.5
.....2019	73	19.2	15.1	5.5	23.3	36.9	26.6
.....2020	121	12.8	11.2	3.3	25.6	47.1	29.9
Illinois2016	177	7.9	56.5	5.6	29.4	0.6	19.6
.....2017	181	6.1	50.6	5.0	37.7	0.6	20.8
.....2018	185	5.7	57.6	5.9	30.8	-	19.9
.....2019	119	4.6	58.0	10.9	26.5	-	19.4
.....2020	147	7.2	49.4	10.6	32.1	0.7	20.3
Indiana2016	137	14.7	62.3	8.4	13.9	0.7	17.0
.....2017	141	14.6	68.3	9.3	7.8	-	15.8
.....2018	150	10.1	74.8	5.7	9.4	-	16.2
.....2019	74	4.1	74.7	11.6	9.6	-	17.3
.....2020	108	8.3	77.3	6.5	7.9	-	16.2
Iowa2016	179	2.2	34.4	11.2	50.5	1.7	23.7
.....2017	180	1.1	34.4	12.8	50.6	1.1	23.7
.....2018	177	4.8	36.5	10.1	45.8	2.8	22.8
.....2019	124	4.9	36.0	9.7	48.6	0.8	23.1
.....2020	162	3.4	32.4	10.8	52.2	1.2	23.8
Kansas2016	109	5.5	34.6	4.6	54.4	0.9	23.5
.....2017	105	9.0	38.1	5.7	47.2	-	21.8
.....2018	106	8.1	39.3	6.6	45.1	0.9	22.0
.....2019	49	9.2	47.0	7.1	36.7	-	20.4
.....2020	57	5.3	50.9	2.6	37.7	3.5	21.1
Minnesota2016	84	11.3	28.0	23.8	36.9	-	21.6
.....2017	88	7.4	23.3	18.8	50.5	-	23.5
.....2018	85	10.0	28.8	14.7	46.5	-	22.6
.....2019	59	11.9	18.6	26.3	41.5	1.7	23.0
.....2020	93	7.5	19.9	15.6	54.8	2.2	24.5
Missouri2016	104	3.8	70.7	2.4	16.8	6.3	18.9
.....2017	106	9.4	63.7	5.7	19.3	1.9	18.3
.....2018	113	12.8	52.7	8.0	23.0	3.5	19.2
.....2019	51	7.8	68.7	7.8	15.7	-	17.8
.....2020	110	13.6	50.5	10.0	19.5	6.4	19.3
Nebraska2016	94	7.4	35.6	5.9	46.8	4.3	22.8
.....2017	100	4.0	31.0	10.5	47.0	7.5	24.2
.....2018	101	5.9	27.2	10.9	48.1	7.9	24.3
.....2019	98	4.6	32.1	11.2	47.0	5.1	23.9
.....2020	107	5.2	32.4	10.8	50.7	0.9	22.9

See footnote(s) at end of table.

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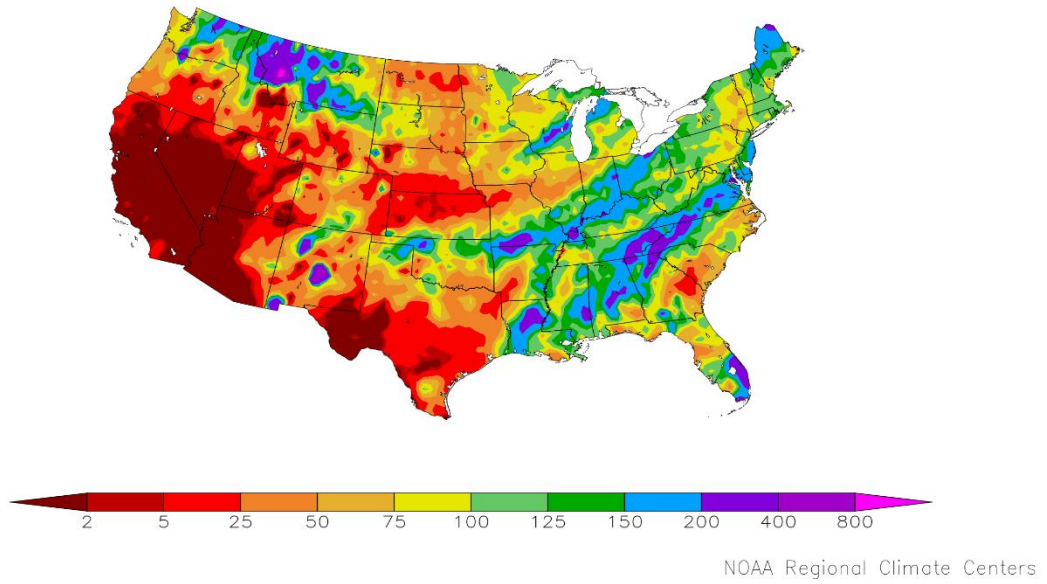
**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:
2016-2020 (continued)**

State and year	Samples	Row width (inches)					Average row width ¹	
		10.0 or less ¹	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
North Dakota	2016	95	20.1	42.9	20.1	16.9	-	17.7
	2017	84	17.3	55.3	17.9	8.3	1.2	16.2
	2018	96	21.9	45.3	22.9	7.3	2.6	16.4
	2019	48	17.7	49.0	22.9	10.4	-	17.1
	2020	92	21.7	48.9	17.4	12.0	-	16.1
Ohio	2016	137	32.1	60.3	1.8	5.8	-	13.7
	2017	134	25.4	66.4	2.6	5.6	-	14.1
	2018	134	20.9	76.5	2.6	-	-	13.7
	2019	57	22.8	77.2	-	-	-	13.6
	2020	121	25.6	67.0	3.3	4.1	-	14.1
South Dakota	2016	96	1.6	23.0	17.3	53.4	4.7	25.1
	2017	93	2.7	17.8	16.2	61.7	1.6	25.9
	2018	94	4.3	15.4	17.6	62.2	0.5	25.7
	2019	43	2.3	10.5	27.9	59.3	-	26.6
	2020	88	-	24.6	27.4	46.3	1.7	24.2

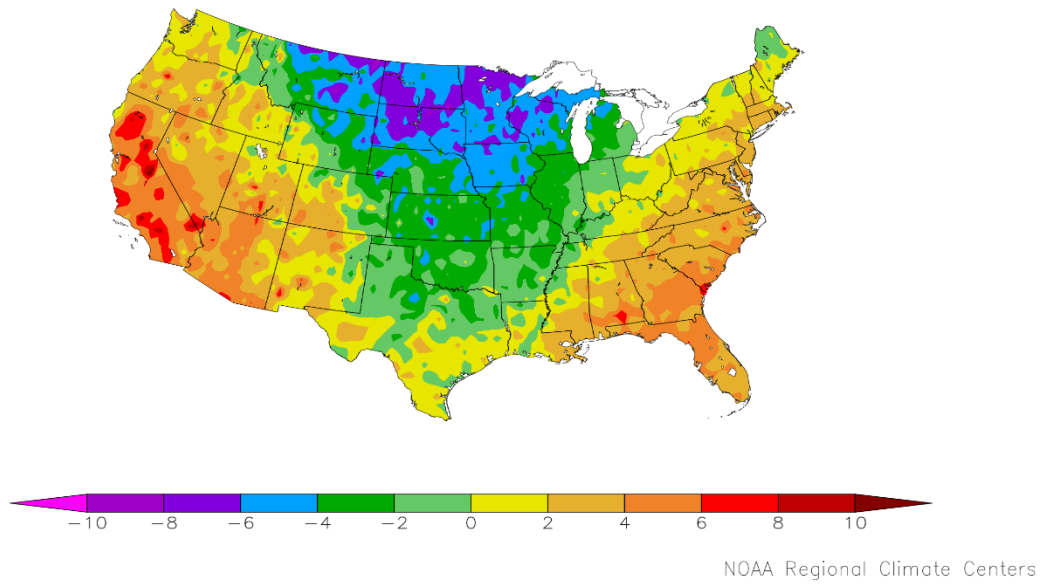
- Represents zero.

¹ Broadcast soybeans included as "10.0 inches or less" but excluded in computation of average width.

Percent of Normal Precipitation (%)
10/1/2020 – 10/31/2020



Departure from Normal Temperature (F)
10/1/2020 – 10/31/2020



October Weather Summary

Two more hurricanes—Delta and Zeta—made a United States landfall in October, boosting the season-to-date total to six. Only 1887, with seven hurricanes striking the mainland of the United States, had more. Both hurricanes struck Louisiana, with Delta moving ashore near Creole on October 9 mere miles from (and in the same parish as) where Hurricane Laura had crossed the coast just over 6 weeks earlier. Zeta pushed inland farther east, near Cocodrie, on October 28. Sustained winds at landfall associated with Delta were slightly lower (100 mph, versus 110 mph for Zeta), but Zeta was a faster-moving storm and overall delivered less rainfall. Still, the late-summer and autumn barrage of tropical activity, including Tropical Storm Beta and Hurricanes Laura, Sally, Delta, and Zeta, adversely affected a variety of Southeastern summer crops, including some cotton and peanuts.

Farther north, a period of favorable weather abruptly ended in mid-October, as a mild, dry pattern across the Plains and Midwest suddenly yielded to cold, stormy conditions. During the 4 weeks ending October 18, more than one-half (52 percent) of the Nation's corn and 69 percent of the soybeans were harvested. Thereafter, Midwestern fieldwork markedly slowed amid record-setting low temperatures, snow, and rain. Parts of the northern Plains and upper Midwest received record-setting October snowfall.

The same stormy weather that impeded late-month harvest efforts benefited winter wheat. According to the United States Drought Monitor, 46 percent of the Nation's winter wheat production area was experiencing drought on October 27, up from 9 percent at the same time a year ago. Late-month rain, freezing rain, sleet, and snow provided much-needed moisture for wheat emergence and development, especially on the High Plains, although cold weather accompanying the precipitation temporarily limited crop growth. By November 1, nearly one-fifth (19 percent) of the Nation's winter wheat crop was rated in very poor to poor condition, led by Colorado and Texas at 28 percent.

Beneficial, late-month precipitation fell as far west as the Rockies, but the Far West remained mostly dry. With more than three-quarters of the West experiencing drought, according to the United States Drought Monitor, rangeland and pastures continued to suffer. On October 25, Western rangeland and pastures rated very poor to poor ranged from 36 percent in Idaho to 86 percent in Oregon. Nationally, 43 percent of the rangeland and pastures were rated very poor to poor on that date, just below this year's late-summer peak of 46 percent but otherwise the highest percentage at any time of year since 2012.

Western wildfires remained periodically active in October. For example, the East Troublesome Fire—which was sparked on October 14 near Lake Granby, Colorado—exponentially grew on October 21-22 to become the second-largest wildfire in modern state history. Each of Colorado's three-largest wildfires—the Cameron Peak Fire (nearly 209,000 acres), the East Troublesome Fire (almost 194,000 acres), and the Pine Gulch Fire (139,007 acres)—have occurred this year. Meanwhile in California, five of the six largest wildfires on record have burned in 2020, led by the 1.03 million-acre August Complex. Nationally, January-October wildfires consumed about 8.6 million acres of vegetation, well above the 10-year average of 6.7 million acres.

October Agricultural Summary

Most of the Nation's midsection was cooler than average during the month of October. Parts of the Great Lakes, Northern Plains, and Northern Rockies recorded temperatures 6°F or more below normal for the month. In contrast, most of the western United States experienced above normal temperatures for the month. Parts of California, the Pacific Northwest, and Southwest recorded temperatures 6°F or more above normal. In the Eastern third of the Nation, generally warmer than normal temperatures were recorded. Parts of the Mid-Atlantic and Southeast recorded temperatures 4°F or more above normal. With the exception of parts of the Pacific Northwest and the Northern Rockies, the western half of the Nation remained drier than normal for the month of October. In the eastern half of the Nation, Hurricanes Delta and Zeta, both making landfall in coastal Louisiana, helped to bring higher than normal amounts of precipitation to the Mid-Atlantic, the Mississippi Valley, and the Southeast. Parts of these regions received 7 inches or more of rain for the month.

Eighty-seven percent of the Nation's corn acreage was mature by October 4, thirty-three percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Corn mature advanced 10 percentage points or more in 12 of the

18 estimating States. By October 4, twenty-five percent of the 2020 acreage had been harvested, 11 percentage points ahead of last year and 1 percentage point ahead of the 5-year average harvest pace. Ninety-seven percent of the Nation's corn acreage was mature by October 18, fifteen percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Sixty percent of the 2020 acreage had been harvested by October 18, thirty-two percentage points ahead of last year and 17 percentage points ahead of the 5-year average harvest pace. Harvest progress advanced 10 percentage points or more in 12 of the 18 estimating States. As of October 18, sixty-one percent of the Nation's corn acreage was rated in good to excellent condition, 5 percentage points above the same time last year. Eighty-two percent of the 2020 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.

Soybean dropping leaves advanced to 85 percent complete Nationally by October 4, eighteen percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 38 percent complete by October 4, twenty-six percentage points ahead of last year and 10 percentage points ahead of the 5-year average. On October 11, sixty-three percent of the Nation's soybean acreage was rated in good to excellent condition, 9 percentage points above the same time last year. Leaves dropping advanced to 97 percent complete Nationally by October 18, six percentage points ahead of last year and 2 percentage points ahead of the 5-year average. Leaves dropping was complete or nearing completion in 15 of the 18 estimating States. Soybean harvest across the Nation was 75 percent complete by October 18, thirty-five percentage points ahead of last year and 17 percentage points ahead of the 5-year average. Harvest progress advanced 10 percentage points or more in 11 of the 18 estimating States. 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. Harvest progress was complete or nearing completion in 8 of the 18 estimating States.

Nationwide, producers had sown 52 percent of the intended 2021 winter wheat acreage by October 4, four percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Nationwide, 24 percent of the winter wheat acreage had emerged by October 4, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Nationwide, producers had sown 77 percent of the intended 2021 winter wheat acreage by October 18, three percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Planting progress advanced by 10 percentage points or more in 10 of the 18 estimating States. Nationwide, 51 percent of the winter wheat acreage had emerged by October 18, one percentage point ahead of last year and 3 percentage points ahead of the 5-year average. Winter wheat emergence advanced by 10 percentage points or more in 13 of the 18 estimating States. 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. Planting progress was complete or nearing completion in 11 of the 18 estimating States. 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. Winter wheat emergence advanced by 10 percentage points or more in 10 of the 18 estimating States. As of November 1, forty-three percent of the 2021 winter wheat acreage was reported in good to excellent condition, 14 percentage points below the same time last year.

By October 4, eighty-three percent of the Nation's cotton had open bolls, 2 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. By October 4, seventeen percent of the Nation's cotton acreage had been harvested, 5 percentage points behind last year and 3 percentage points behind the 5-year average. By October 18, ninety-three percent of the Nation's cotton had open bolls, 2 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. By October 18, thirty-four percent of the Nation's cotton acreage had been harvested, 4 percentage points behind last year but equal to the 5-year average. Cotton harvest advanced 10 percentage points or more in Arkansas, Louisiana, Mississippi, and Tennessee. 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. Cotton harvest advanced 10 percentage points or more in 6 of the 15 estimating States. 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 October 4, seventy-seven percent of the Nation's sorghum acreage was mature, 15 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Thirty-eight percent of the 2020 sorghum acreage had been harvested by October 4, six percentage points ahead of last year but equal to the 5-year average. Fifty percent of the Nation's sorghum acreage was rated in good to excellent condition on October 11, fifteen percentage points below the same time

last year. By October 18, ninety-five percent of the Nation's sorghum acreage was mature, 6 percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Sixty-three percent of the 2020 sorghum acreage had been harvested by October 18, seventeen percentage points ahead of last year and 12 percentage points ahead of the 5-year average. Ninety-two percent of Texas' sorghum acreage had been harvested by October 18, equal to last year but 12 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. Sorghum harvest advanced 10 percentage points or more in Colorado, Kansas, and Nebraska.

Nationally, 71 percent of the rice acreage had been harvested by October 4, three percentage points behind last year and 7 percentage points behind the 5-year average. Nationally, 91 percent of the rice acreage had been harvested by October 18, equal to last year but 2 percentage points behind the 5-year average. Ninety-six percent of the 2020 rice acreage had been harvested by November 1.

Seventeen percent of the Nation's peanut acreage had been harvested as of October 4, twenty percentage points behind last year and 13 percentage points behind the 5-year average. Forty-one percent of the Nation's peanut acreage had been harvested as of October 18, twenty-three percentage points behind last year and 14 percentage points behind the 5-year average. As of October 25, sixty-four percent of the Nation's peanut acreage was rated in good to excellent condition, 10 percentage points above the same time last year. 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. Harvest progress was at or behind the 5-year average pace for all estimating States.

By October 4, sugarbeet producers had harvested 46 percent of the Nation's crop, 28 percentage points ahead of last year and 16 percentage points ahead of the 5-year average. By October 18, sugarbeet producers had harvested 83 percent of the Nation's crop, 44 percentage points ahead of last year and 21 percentage points ahead of 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. Harvest progress was ahead of the 5-year average pace in all estimating States.

By October 4, eleven percent of this year's sunflower crop had been harvested, 10 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. By October 18, thirty-seven percent of this year's sunflower crop had been harvested, 29 percentage points ahead of last year and 15 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average pace in all estimating States. By November 1, sixty-one percent of this year's sunflower crop had been harvested, 34 percentage points ahead of last year and 7 percentage points ahead of the 5-year average.

Crop Comments

Corn: The 2020 corn area harvested for grain is forecast at 82.5 million acres, unchanged from the previous forecast, but up 1 percent from last year.

The November 1 corn objective yield data indicate the fourth highest number of ears on record for the combined 10 objective yield States (Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin).

At 14.5 billion bushels, 2020 corn production for grain is forecast to be the third highest production on record for the United States. The forecasted yield, at 175.8 bushels per acre, is up 5 percent from last year's final estimate of 167.5 bushels per acre. If realized, this would be the third highest yield on record for the United States. Record high yields are forecast in Georgia, Indiana, Kentucky, Louisiana, Minnesota, New York, South Carolina, South Dakota, Washington, and Wisconsin.

Eighty-seven percent of the Nation's corn acreage was mature by October 4, thirty-three percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Twenty-five percent of the Nation's corn acreage was harvested by October 4, eleven percentage points ahead of last year and 1 percentage point ahead of the 5-year average harvest pace.

Ninety-four percent of the Nation's corn acreage was mature by October 11, twenty-five percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Forty-one percent of the Nation's corn acreage was harvested by week's end, 21 percentage points ahead of last year and 9 percentage points ahead of the 5-year average harvest pace.

Ninety-seven percent of the Nation's corn acreage was mature by October 18, fifteen percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Sixty percent of the Nation's corn acreage had been harvested by October 18, thirty-two percentage points ahead of last year and 17 percentage points ahead of the 5-year average. By October 18, sixty-one percent of the Nation's corn was rated in good to excellent condition, 5 percentage points above the same time last year.

Seventy-two percent of the Nation's corn acreage had been harvested by October 25, thirty-four percentage points ahead of last year and 16 percentage points ahead of the 5-year average. Eighty-two percent of the Nation's 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.

Sorghum: Production is forecast at 371 million bushels, up slightly from the previous forecast and up 9 percent from last year. Area harvested for grain is forecast at 5.00 million acres, unchanged from the previous forecast but up 7 percent from 2019. Based on November 1 conditions, yield is forecast at 74.2 bushels per acre, 0.1 bushel higher than the previous forecast and 1.2 bushels per acre above the 2019 yield of 73.0 bushels per acre.

As of November 1, eighty-two percent of the sorghum acreage was harvested, 8 percentage points ahead of last year and 11 percentage points ahead of the 5-year average.

Rice: Production is forecast at 226 million cwt, down less than 1 percent from the previous forecast and up 22 percent from 2019. Harvested area is expected to total 2.99 million acres, unchanged from the previous forecast but up 21 percent from 2019. Based on conditions as of November 1, the average United States yield is forecast at 7,560 pounds per acre, down 7 pounds per acre from the previous forecast, but up 89 pounds per acre from 2019. Record high yield is forecasted in Missouri.

As of November 1, ninety-six percent of the rice acreage was harvested, 2 percentage points behind last year and 3 percentage points behind the 5-year average. Harvest was complete or nearing completion in all estimating States.

Soybeans: Production is forecast at 4.17 billion bushels, down 2 percent from the previous forecast but up 17 percent from last year. Based on conditions as of November 1, yields are expected to average 50.7 bushels per acre, down 1.2 bushels from the previous forecast but up 3.3 bushels from last year. Area harvested for beans in the United States is forecast at 82.3 million acres, unchanged from the previous forecast but up 10 percent from 2019.

The November objective yield data for the combined 11 major soybean-producing States (Arkansas, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Ohio, and South Dakota) indicate a higher pod count compared with the previous year. Compared with final counts for 2019, pod counts are up in 10 of the 11 published States. Illinois showed the greatest increase, up 567 pods per 18 square feet from the previous year.

Soybean harvest was 38 percent complete as of October 4, twenty-six percentage points ahead of last year and 10 percentage points ahead of the 5-year average. As of November 1, harvest was 87 percent complete Nationwide, 16 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. At that time, harvest progress was at or ahead of the respective State 5-year average pace in 11 of the 18 States estimated in the *Crop Progress* report.

If realized, the forecasted yield will be a record high in Georgia, Indiana, Kentucky, Louisiana, Mississippi, Pennsylvania, and Texas.

Peanuts: Production is forecast at 6.64 billion pounds, down 1 percent from the previous forecast but up 22 percent from the revised 2019 total of 5.47 billion pounds. Harvested area is expected to total 1.62 million acres, unchanged from the previous forecast but up 17 percent from 2019. Based on conditions as of November 1, the average yield for the

United States is forecast at 4,093 pounds per acre, down 32 pounds per acre from the previous forecast but up 159 pounds per acre from 2019. Record high production is forecasted in Georgia. Record high yield is forecasted in Mississippi.

As of November 1, sixty-six percent of the 2020 peanut acreage had been harvested, 16 percentage points behind last year and 10 percentage points behind the 5-year average.

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.

As of November 1, fifty-two percent of the cotton acreage was harvested, 1 percentage point ahead of last year and 3 percentage points ahead of the 5-year average.

If realized, the forecasted yield for all cotton will be a record high at the National level and a record high yield for Upland cotton in Arkansas.

Ginnings totaled 3,986,950 running bales prior to November 1, compared with 6,249,600 running bales ginned prior to the same date last year.

Sugarbeets: Production of sugarbeets for the 2020 crop year is forecast at 34.0 million tons, down 5 percent from last month but up 19 percent from last year. Sugarbeet producers expect to harvest 1.15 million acres, unchanged from the previous forecast but up 17 percent from 2019. Yield is forecast at 29.6 tons per acre, down 1.6 tons from the previous forecast but an increase of 0.4 ton from last year.

In Michigan, 82 percent of the harvest was complete by November 1, well ahead of both last year and the five-year average. In Minnesota and North Dakota, harvest was completed by mid-October.

Sugarcane: Production of sugarcane for sugar and seed is forecast at 33.8 million tons, down 1 percent from last month but up 6 percent from last year. Producers intend to harvest 932,600 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 36.2 tons per acre, down 0.4 ton from last month but up 1.2 tons from 2019.

In Louisiana, harvest was 33 percent complete as of the week ending November 1. In Texas, harvest began on October 19.

Potatoes: Production of potatoes for the 2020 crop year is forecast at 415 million cwt, down 2 percent from last year. Planted acreage, at 923,000 acres, is up slightly from the June estimate. Area harvested, at 915,700 acres, is down 2 percent from the previous year. The yield forecast, at 454 cwt per acre, is up 1 cwt from last year's yield.

Idaho and Oregon had ideal growing conditions throughout the season with both States completing harvest by November 1. In Washington, harvest was 95 percent completed by November 1. In North Dakota, harvest began in early September and was complete by mid-October.

Statistical Methodology

Field crop survey procedures: Objective yield and farm operator surveys were conducted between October 24 and November 5 to gather information on expected yield as of November 1. The objective yield surveys for corn, cotton, and soybeans were conducted in the major producing States that usually account for about 75 percent of the United States production. Randomly selected plots were revisited to make current counts. The counts made within each sample plot depend on the crop and the maturity of that crop. In all cases, plant counts are recorded along with other measurements that provide information to forecast the number of ears, bolls, or pods and their weight. The counts are used with similar data from previous years to develop a projected biological yield. The average harvesting loss is subtracted to obtain a net yield. The plots are revisited each month until crop maturity when 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. Starting in 2019, NASS eliminated the August objective yield survey for cotton (except Texas), corn, and soybeans.

The farm operator survey was conducted primarily by telephone with some use of mail, internet, and personal interviewers. Approximately 7,800 producers were interviewed during the survey period and asked questions about probable yield.

Field crop estimating procedures: National and State level objective yield and grower reported data were reviewed for reasonableness and consistency with historical estimates. The survey data were also reviewed considering weather patterns and crop progress compared to previous months and previous years. Each Regional Field Office submits their 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 November 1 forecasts.

Revision policy: The November 1 production forecast will not be revised; instead, a new forecast will be made each month throughout the growing season. End-of-season estimates are made after harvest. At the end of the marketing season, a balance sheet is calculated using carryover stocks, production, exports, millings, feeding, and ending stocks. Revisions are then made if the balance sheet relationships or other administrative data warrant changes. Estimates of planted acres for spring planted crops are subject to revision in the August *Crop Production* report if conditions altered the planting intentions since the mid-year survey. Current year, planted acres may also be revised for cotton, peanuts, and rice in the September *Crop Production* report each year; spring wheat, Durum wheat, barley, and oats only in the *Small Grains Summary* report at the end of September; and all other spring planted crops in the October *Crop Production* report. Revisions to planted acres will only be made when either special survey data, administrative data, such as Farm Service Agency program “sign up” data, or remote sensing data are available. 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 forecast.

Reliability: To assist users in evaluating the reliability of the November 1 production forecast, the “Root Mean Square Error,” a statistical measure based on past performance, is computed. The deviation between the November 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of the 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 November 1 corn for grain production forecast is 1.0 percent. This means that chances are 2 out of 3 that the current production forecast will not be above or below the final estimate by more than 1.0 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 1.8 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the November 1 forecast and the final estimate. Using corn again as an example, changes between the November 1 forecast and the final estimate during the last 20 years have averaged 103 million bushels, ranging from 4 million bushels to 286 million bushels. The November 1 forecast has been below the final estimate 7 times and above 13 times. This does not imply that the November 1 corn forecast this year is likely to understate or overstate final production.

Reliability of November 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)
Corn for grain bushels	1.0	1.8	103	4	286	7	13
Peanut ¹ pounds	4.9	8.4	195	10	662	14	6
Potato cwt	2.2	3.8	6	1	37	14	6
Rice cwt	1.6	2.8	3	(Z)	11	14	6
Sorghum for grain bushels	5.0	8.6	14	1	33	11	9
Soybeans for beans bushels	1.7	3.0	48	2	171	10	10
Sugarbeets for sugar tons	1.5	2.7	(Z)	(Z)	1	11	9
Sugarcane tons	4.3	7.5	1	(Z)	2	9	11
Upland cotton ¹ bales	3.1	5.4	425	45	1,001	7	13

(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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