



# Crop Production

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## **Corn Production Up Less Than 1 Percent from October Forecast Soybean Production Down 1 Percent Cotton Production Up 1 Percent**

**Corn** production for grain is forecast at 15.1 billion bushels, up less than 1 percent from the previous forecast and up 7 percent from 2020. Based on conditions as of November 1, yields are expected to average 177.0 bushels per harvested acre, up 0.5 bushel from the previous forecast and up 5.6 bushels from last year. Area harvested for grain is forecast at 85.1 million acres, unchanged from the previous forecast but up 3 percent from the previous year.

**Soybean** production for beans is forecast at 4.42 billion bushels, down 1 percent from the previous forecast but up 5 percent from last year. Based on conditions as of November 1, yields are expected to average 51.2 bushels per harvested acre, down 0.3 bushel from the previous forecast but up 0.2 bushel from 2020. Area harvested for beans in the United States is forecast at 86.4 million acres, unchanged from the previous forecast but up 5 percent from the previous year.

**All cotton** production is forecast at 18.2 million 480-pound bales, up 1 percent from the previous forecast and up 25 percent from 2020. Based on conditions as of November 1, yields are expected to average 880 pounds per harvested acre, up 9 pounds from the previous forecast and up 33 pounds from 2020. Upland cotton production is forecast at 17.9 million 480-pound bales, up 1 percent from the previous forecast and up 27 percent from 2020. Pima cotton production is forecast at 346,000 bales, down 2 percent from the previous forecast and down 37 percent from 2020. All cotton area harvested is forecast at 9.92 million acres, unchanged from the previous forecast but up 20 percent from 2020.

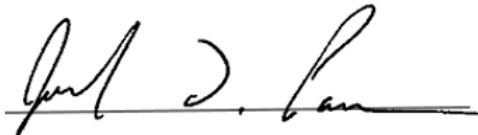
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This report was approved on November 9, 2021.



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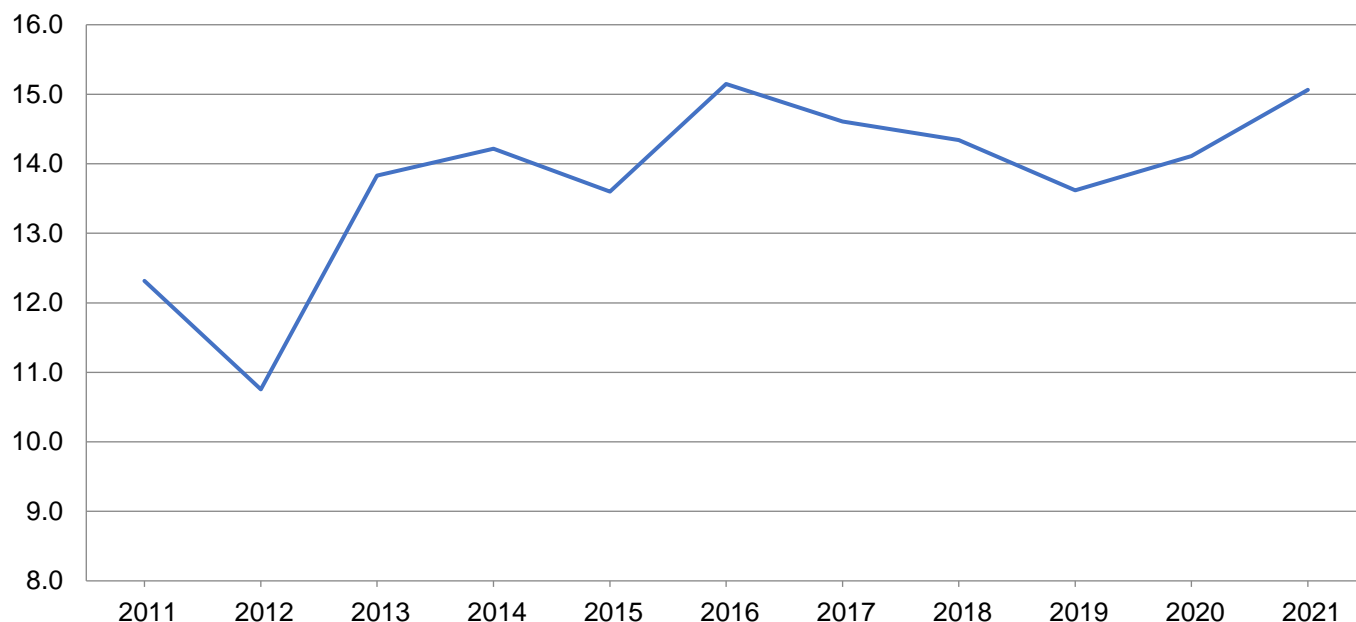
**Corn for Grain Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted November 1, 2021**

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama .....	320	340	158.0	162.0	162.0	50,560	55,080
Arkansas .....	605	830	184.0	184.0	183.0	111,320	151,890
California .....	60	95	187.0	195.0	195.0	11,220	18,525
Colorado .....	1,060	1,110	116.0	134.0	136.0	122,960	150,960
Delaware .....	176	170	160.0	170.0	175.0	28,160	29,750
Georgia .....	390	440	180.0	176.0	180.0	70,200	79,200
Idaho .....	130	105	199.0	214.0	214.0	25,870	22,470
Illinois .....	11,100	10,800	191.0	210.0	207.0	2,120,100	2,235,600
Indiana .....	5,250	5,250	187.0	194.0	189.0	981,750	992,250
Iowa .....	12,900	12,450	177.0	201.0	201.0	2,283,300	2,502,450
Kansas .....	5,720	5,300	134.0	140.0	139.0	766,480	736,700
Kentucky .....	1,360	1,450	184.0	185.0	189.0	250,240	274,050
Louisiana .....	485	565	181.0	181.0	181.0	87,785	102,265
Maryland .....	430	390	155.0	166.0	172.0	66,650	67,080
Michigan .....	1,990	1,970	153.0	171.0	175.0	304,470	344,750
Minnesota .....	7,510	7,800	191.0	178.0	186.0	1,434,410	1,450,800
Mississippi .....	490	700	180.0	186.0	185.0	88,200	129,500
Missouri .....	3,280	3,380	171.0	164.0	160.0	560,880	540,800
Nebraska .....	9,890	9,600	180.0	190.0	191.0	1,780,200	1,833,600
New York .....	500	500	157.0	167.0	170.0	78,500	85,000
North Carolina .....	940	910	113.0	146.0	146.0	106,220	132,860
North Dakota .....	1,780	3,820	139.0	107.0	108.0	247,420	412,560
Ohio .....	3,300	3,380	171.0	188.0	188.0	564,300	635,440
Oklahoma .....	320	300	135.0	150.0	155.0	43,200	46,500
Pennsylvania .....	1,000	870	138.0	169.0	169.0	138,000	147,030
South Carolina .....	370	390	132.0	136.0	134.0	48,840	52,260
South Dakota .....	4,450	5,650	162.0	133.0	137.0	720,900	774,050
Tennessee .....	815	970	170.0	170.0	171.0	138,550	165,870
Texas .....	1,810	1,700	128.0	140.0	140.0	231,680	238,000
Virginia .....	420	390	122.0	155.0	155.0	51,240	60,450
Washington .....	85	75	228.0	225.0	225.0	19,380	16,875
Wisconsin .....	2,930	2,940	173.0	172.0	172.0	506,890	505,680
Other States <sup>1</sup> .....	447	445	160.1	161.1	161.1	71,574	71,707
United States .....	82,313	85,085	171.4	176.5	177.0	14,111,449	15,062,002

<sup>1</sup> 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 2021 Summary*.

## Corn Production – United States

Billion bushels



### Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted November 1, 2021

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Colorado .....	255	435	20.0	45.0	40.0	5,100	17,400
Kansas .....	2,800	3,350	85.0	80.0	81.0	238,000	271,350
Nebraska .....	150	265	91.0	81.0	75.0	13,650	19,875
Oklahoma .....	230	355	45.0	62.0	65.0	10,350	23,075
South Dakota .....	160	285	71.0	56.0	59.0	11,360	16,815
Texas .....	1,500	1,830	63.0	68.0	67.0	94,500	122,610
United States .....	5,095	6,520	73.2	72.3	72.3	372,960	471,125

## Rice Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted November 1, 2021

State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2020	2021	2020	2021		2020	2021
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas .....	1,441	1,198	7,500	7,500	7,600	108,107	91,048
California .....	514	405	8,720	8,900	9,200	44,810	37,260
Louisiana .....	474	413	6,820	6,900	6,900	32,306	28,497
Mississippi .....	165	101	7,420	7,400	7,500	12,241	7,575
Missouri .....	214	194	7,250	8,000	8,100	15,522	15,714
Texas .....	179	188	8,150	7,000	7,300	14,597	13,724
United States .....	2,987	2,499	7,619	7,625	7,756	227,583	193,818

<sup>1</sup> Includes sweet rice production.

## Rice Production by Class – United States: 2020 and Forecasted November 1, 2021

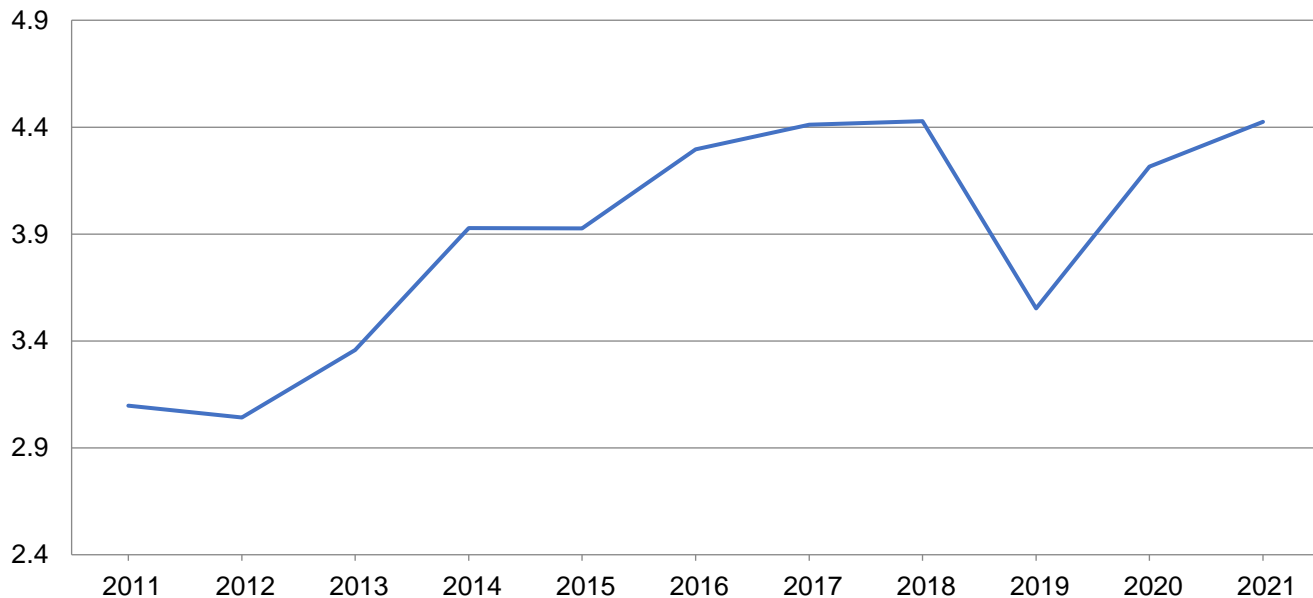
Year	Long grain	Medium grain	Short grain <sup>1</sup>	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2020 .....	170,853	53,920	2,810	227,583
2021 <sup>2</sup> .....	146,731	44,492	2,595	193,818

<sup>1</sup> Sweet rice production included with short grain.

<sup>2</sup> The 2021 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: 2020 and Forecasted November 1, 2021**

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama .....	275	305	41.0	44.0	45.0	11,275	13,725
Arkansas .....	2,800	3,010	51.5	50.0	50.0	144,200	150,500
Delaware .....	148	153	49.0	49.0	51.0	7,252	7,803
Georgia .....	95	130	41.0	43.0	46.0	3,895	5,980
Illinois .....	10,250	10,550	60.0	64.0	64.0	615,000	675,200
Indiana .....	5,730	5,690	59.0	60.0	57.0	338,070	324,330
Iowa .....	9,370	10,020	54.0	61.0	60.0	505,980	601,200
Kansas .....	4,750	4,800	41.0	42.0	41.0	194,750	196,800
Kentucky .....	1,840	1,790	55.0	55.0	56.0	101,200	100,240
Louisiana .....	1,020	1,050	53.0	54.0	53.0	54,060	55,650
Maryland .....	465	480	47.0	51.0	53.0	21,855	25,440
Michigan .....	2,190	2,140	48.0	50.0	50.0	105,120	107,000
Minnesota .....	7,380	7,630	50.0	49.0	49.0	369,000	373,870
Mississippi .....	2,060	2,190	54.0	54.0	55.0	111,240	120,450
Missouri .....	5,810	5,650	51.0	50.0	50.0	296,310	282,500
Nebraska .....	5,160	5,550	58.0	61.0	62.0	299,280	344,100
New Jersey .....	93	98	46.0	42.0	43.0	4,278	4,214
New York .....	312	320	51.0	53.0	53.0	15,912	16,960
North Carolina .....	1,570	1,630	38.0	39.0	40.0	59,660	65,200
North Dakota .....	5,700	7,250	34.0	26.0	26.0	193,800	188,500
Ohio .....	4,920	4,830	55.0	58.0	56.0	270,600	270,480
Oklahoma .....	540	550	30.0	28.0	25.0	16,200	13,750
Pennsylvania .....	630	570	46.0	52.0	52.0	28,980	29,640
South Carolina .....	295	370	35.0	33.0	36.0	10,325	13,320
South Dakota .....	4,920	5,450	46.0	40.0	41.0	226,320	223,450
Tennessee .....	1,620	1,470	50.0	49.0	50.0	81,000	73,500
Texas .....	110	100	34.0	35.0	34.0	3,740	3,400
Virginia .....	560	590	42.0	44.0	44.0	23,520	25,960
Wisconsin .....	1,990	2,070	52.0	54.0	54.0	103,480	111,780
United States .....	82,603	86,436	51.0	51.5	51.2	4,216,302	4,424,942



## Peanut Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted November 1, 2021

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
	(1,000 acres)	(1,000 acres)	(pounds)	October 1 (pounds)	November 1 (pounds)	(1,000 pounds)	(1,000 pounds)
Alabama .....	183.0	182.0	3,400	3,600	3,400	622,200	618,800
Arkansas .....	38.0	35.0	4,800	5,000	5,000	182,400	175,000
Florida .....	166.0	160.0	3,400	3,700	3,500	564,400	560,000
Georgia .....	805.0	750.0	4,120	4,400	4,400	3,316,600	3,300,000
Mississippi .....	22.0	17.0	4,400	4,100	4,100	96,800	69,700
New Mexico .....	5.2	11.0	2,850	3,100	3,100	14,820	34,100
North Carolina .....	105.0	113.0	3,900	4,000	4,300	409,500	485,900
Oklahoma .....	14.0	15.0	4,220	4,000	3,500	59,080	52,500
South Carolina .....	80.0	66.0	3,700	4,100	4,100	296,000	270,600
Texas .....	170.0	155.0	2,850	3,550	3,500	484,500	542,500
Virginia .....	27.0	29.0	4,150	4,600	4,600	112,050	133,400
United States .....	1,615.2	1,533.0	3,813	4,105	4,072	6,158,350	6,242,500

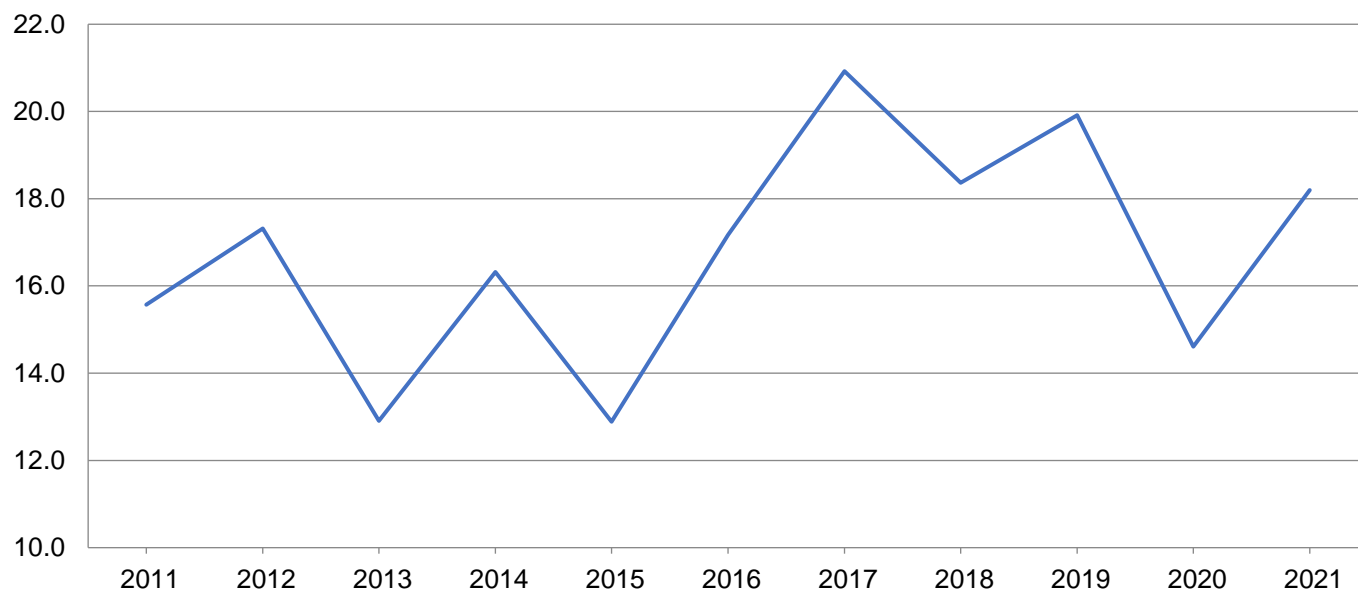
## Cottonseed Production – United States: 2020 and Forecasted November 1, 2021

State	Production	
	2020 (1,000 tons)	2021 <sup>1</sup> (1,000 tons)
United States .....	4,509.0	5,549.0

<sup>1</sup> 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: 2020 and Forecasted November 1, 2021**

Type and State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2020	2021	2020	2021		2020	2021
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) <sup>2</sup>	(1,000 bales) <sup>2</sup>
<b>Upland</b>							
Alabama .....	446.0	400.0	790	906	906	734.0	755.0
Arizona .....	123.0	119.0	1,179	1,258	1,291	302.0	320.0
Arkansas .....	520.0	470.0	1,179	1,226	1,226	1,277.0	1,200.0
California .....	33.5	24.5	2,006	1,900	1,900	140.0	97.0
Florida .....	93.0	89.0	532	782	701	103.0	130.0
Georgia .....	1,180.0	1,160.0	887	931	952	2,180.0	2,300.0
Kansas .....	184.0	101.0	783	998	1,022	300.0	215.0
Louisiana .....	165.0	105.0	986	1,006	960	339.0	210.0
Mississippi .....	525.0	430.0	1,079	1,150	1,150	1,180.0	1,030.0
Missouri .....	287.0	310.0	1,144	1,285	1,285	684.0	830.0
New Mexico .....	26.0	28.0	1,052	977	1,029	57.0	60.0
North Carolina .....	330.0	350.0	759	864	933	522.0	680.0
Oklahoma .....	435.0	415.0	702	879	879	636.0	760.0
South Carolina .....	179.0	205.0	802	925	925	299.0	395.0
Tennessee .....	275.0	270.0	1,066	1,067	1,067	611.0	600.0
Texas .....	3,200.0	5,250.0	686	731	741	4,570.0	8,100.0
Virginia .....	79.0	73.0	772	1,052	1,118	127.0	170.0
United States .....	8,080.5	9,799.5	835	865	874	14,061.0	17,852.0
<b>American Pima</b>							
Arizona .....	6.5	9.0	1,034	853	853	14.0	16.0
California .....	146.0	85.0	1,562	1,609	1,581	475.0	280.0
New Mexico .....	10.5	12.2	663	787	708	14.5	18.0
Texas .....	31.0	16.0	666	960	960	43.0	32.0
United States .....	194.0	122.2	1,352	1,387	1,359	546.5	346.0
<b>All</b>							
Alabama .....	446.0	400.0	790	906	906	734.0	755.0
Arizona .....	129.5	128.0	1,171	1,230	1,260	316.0	336.0
Arkansas .....	520.0	470.0	1,179	1,226	1,226	1,277.0	1,200.0
California .....	179.5	109.5	1,645	1,675	1,653	615.0	377.0
Florida .....	93.0	89.0	532	782	701	103.0	130.0
Georgia .....	1,180.0	1,160.0	887	931	952	2,180.0	2,300.0
Kansas .....	184.0	101.0	783	998	1,022	300.0	215.0
Louisiana .....	165.0	105.0	986	1,006	960	339.0	210.0
Mississippi .....	525.0	430.0	1,079	1,150	1,150	1,180.0	1,030.0
Missouri .....	287.0	310.0	1,144	1,285	1,285	684.0	830.0
New Mexico .....	36.5	40.2	940	919	931	71.5	78.0
North Carolina .....	330.0	350.0	759	864	933	522.0	680.0
Oklahoma .....	435.0	415.0	702	879	879	636.0	760.0
South Carolina .....	179.0	205.0	802	925	925	299.0	395.0
Tennessee .....	275.0	270.0	1,066	1,067	1,067	611.0	600.0
Texas .....	3,231.0	5,266.0	685	732	741	4,613.0	8,132.0
Virginia .....	79.0	73.0	772	1,052	1,118	127.0	170.0
United States .....	8,274.5	9,921.7	847	871	880	14,607.5	18,198.0

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

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

## Sugarbeet Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted November 1, 2021

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

State	Area harvested		Yield per acre			Production	
	2020	2021	2020	2021		2020	2021
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California <sup>1</sup> .....	23.9	23.8	45.5	45.5	45.5	1,087	1,083
Colorado .....	23.7	23.7	31.3	32.8	33.3	742	789
Idaho .....	169.0	170.0	40.5	41.1	40.2	6,845	6,834
Michigan .....	154.0	152.0	28.3	31.3	33.1	4,358	5,031
Minnesota .....	427.0	426.0	26.1	28.1	30.5	11,145	12,993
Montana .....	38.0	43.5	31.3	31.6	30.5	1,189	1,327
Nebraska .....	45.7	43.6	31.0	29.7	29.7	1,417	1,295
North Dakota .....	219.0	224.0	24.9	26.9	28.0	5,453	6,272
Oregon .....	9.4	10.3	40.9	40.3	39.4	384	406
Washington .....	1.8	1.9	47.8	47.8	47.8	86	91
Wyoming .....	30.8	31.7	29.6	28.3	29.0	912	919
United States .....	1,142.3	1,150.5	29.4	31.0	32.2	33,618	37,040

<sup>1</sup> 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: 2020 and Forecasted November 1, 2021

State	Area harvested		Yield per acre <sup>1</sup>			Production <sup>1</sup>	
	2020	2021	2020	2021		2020	2021
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida .....	423.3	406.0	44.4	42.7	42.7	18,795	17,336
Louisiana .....	488.4	490.0	33.1	32.2	31.8	16,167	15,582
Texas .....	35.9	36.0	31.7	32.8	32.8	1,138	1,181
United States .....	947.6	932.0	38.1	36.8	36.6	36,100	34,099

<sup>1</sup> Net tons.

## Potato Area Planted and Harvested – States and United States: 2020 and 2021

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2020	2021	2020	2021 <sup>1</sup>
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California .....	29.0	30.0	28.9	29.4
Colorado .....	54.0	53.0	53.8	52.2
Florida .....	21.0	21.0	20.4	19.9
Idaho .....	300.0	315.0	299.5	314.5
Maine .....	51.0	54.0	50.8	53.4
Michigan .....	46.0	50.0	45.0	48.8
Minnesota .....	42.0	42.0	41.2	41.9
Nebraska .....	19.0	19.0	18.8	18.9
North Dakota .....	72.0	76.0	70.0	75.0
Oregon .....	45.0	45.0	45.0	44.8
Texas .....	15.5	15.0	15.3	14.0
Washington .....	155.0	160.0	154.5	159.5
Wisconsin .....	69.0	71.0	68.5	70.0
United States .....	918.5	951.0	911.7	942.3

<sup>1</sup> Forecasted.

## Potato Area Harvested, Yield, and Production – States and United States: 2020 and Forecasted November 1, 2021

State	Area harvested		Yield per acre		Production	
	2020	2021	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)
California .....	28.9	29.4	445	420	12,861	12,348
Colorado .....	53.8	52.2	420	405	22,596	21,141
Florida .....	20.4	19.9	260	270	5,304	5,373
Idaho .....	299.5	314.5	450	420	134,775	132,090
Maine .....	50.8	53.4	265	345	13,462	18,423
Michigan .....	45.0	48.8	390	410	17,550	20,008
Minnesota .....	41.2	41.9	435	420	17,922	17,598
Nebraska .....	18.8	18.9	490	485	9,212	9,167
North Dakota .....	70.0	75.0	340	280	23,800	21,000
Oregon .....	45.0	44.8	600	570	27,000	25,536
Texas .....	15.3	14.0	465	430	7,115	6,020
Washington .....	154.5	159.5	645	585	99,653	93,308
Wisconsin .....	68.5	70.0	420	445	28,770	31,150
United States .....	911.7	942.3	461	438	420,020	413,162

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

Crop	Area planted		Area harvested	
	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Grains and hay</b>				
Barley .....	2,726	2,660	2,214	1,948
Corn for grain <sup>1</sup> .....	90,652	93,304	82,313	85,085
Corn for silage .....	(NA)		6,711	
Hay, all .....	(NA)	(NA)	52,238	51,537
Alfalfa .....	(NA)	(NA)	16,230	16,123
All other .....	(NA)	(NA)	36,008	35,414
Oats .....	3,009	2,550	1,009	650
Proso millet .....	609	600	484	
Rice .....	3,036	2,541	2,987	2,499
Rye .....	1,955	2,133	330	294
Sorghum for grain <sup>1</sup> .....	5,880	7,340	5,095	6,520
Sorghum for silage .....	(NA)		239	
Wheat, all .....	44,450	46,703	36,789	37,163
Winter .....	30,450	33,648	23,029	25,464
Durum .....	1,690	1,635	1,665	1,534
Other spring .....	12,310	11,420	12,095	10,165
<b>Oilseeds</b>				
Canola .....	1,824.0	2,152.0	1,787.8	2,104.5
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	305	390	296	366
Mustard seed .....	97.0	88.0	91.4	84.0
Peanuts .....	1,662.5	1,580.0	1,615.2	1,533.0
Rapeseed .....	11.2	15.5	10.1	14.5
Safflower .....	136.0	135.0	126.7	127.5
Soybeans for beans .....	83,354	87,235	82,603	86,436
Sunflower .....	1,719.1	1,280.0	1,666.1	1,223.2
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all .....	12,092.0	11,190.5	8,274.5	9,921.7
Upland .....	11,890.0	11,066.0	8,080.5	9,799.5
American Pima .....	202.0	124.5	194.0	122.2
Sugarbeets .....	1,162.2	1,161.5	1,142.3	1,150.5
Sugarcane .....	(NA)	(NA)	947.6	932.0
Tobacco .....	(NA)	(NA)	198.1	221.2
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	269.8	376.3	262.9	367.6
Dry edible beans .....	1,740.0	1,399.0	1,676.5	1,341.0
Dry edible peas .....	999.0	970.0	973.0	919.0
Lentils .....	528.0	711.0	514.0	667.0
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	58.6	60.8
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		50.1	
Potatoes .....	918.5	951.0	911.7	942.3
Spearmint oil .....	(NA)		17.7	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States:  
2020 and 2021 (continued)**

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

Crop	Yield per acre		Production	
	2020	2021	2020 (1,000)	2021 (1,000)
<b>Grains and hay</b>				
Barley .....bushels	77.2	60.4	170,813	117,673
Corn for grain .....bushels	171.4	177.0	14,111,449	15,062,002
Corn for silage ..... tons	20.5		137,675	
Hay, all ..... tons	2.43	2.34	126,812	120,482
Alfalfa ..... tons	3.27	2.99	53,067	48,156
All other ..... tons	2.05	2.04	73,745	72,326
Oats .....bushels	65.1	61.3	65,694	39,836
Proso millet .....bushels	19.0		9,210	
Rice <sup>2</sup> .....cwt	7,619	7,756	227,583	193,818
Rye .....bushels	34.9	33.4	11,532	9,808
Sorghum for grain .....bushels	73.2	72.3	372,960	471,125
Sorghum for silage ..... tons	13.1		3,125	
Wheat, all .....bushels	49.7	44.3	1,828,043	1,645,764
Winter .....bushels	50.9	50.2	1,171,397	1,277,365
Durum .....bushels	41.5	24.3	69,141	37,259
Other spring .....bushels	48.6	32.6	587,505	331,140
<b>Oilseeds</b>				
Canola ..... pounds	1,931	1,119	3,453,062	2,354,080
Cottonseed ..... tons	(X)	(X)	4,509.0	5,549.0
Flaxseed .....bushels	19.3		5,706	
Mustard seed ..... pounds	895		81,770	
Peanuts ..... pounds	3,813	4,072	6,158,350	6,242,500
Rapeseed ..... pounds	1,971		19,910	
Safflower ..... pounds	1,167		147,800	
Soybeans for beans .....bushels	51.0	51.2	4,216,302	4,424,942
Sunflower ..... pounds	1,790	1,554	2,982,890	1,900,920
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....bales	847	880	14,607.5	18,198.0
Upland <sup>2</sup> .....bales	835	874	14,061.0	17,852.0
American Pima <sup>2</sup> .....bales	1,352	1,359	546.5	346.0
Sugarbeets ..... tons	29.4	32.2	33,618	37,040
Sugarcane ..... tons	38.1	36.6	36,100	34,099
Tobacco ..... pounds	1,966	2,097	389,413	463,835
<b>Dry beans, peas, and lentils</b>				
Chickpeas <sup>2</sup> .....cwt	1,625	825	4,273	3,033
Dry edible beans <sup>2</sup> .....cwt	1,966	1,686	32,963	22,609
Dry edible peas <sup>2</sup> .....cwt	2,234	1,322	21,733	12,150
Lentils <sup>2</sup> .....cwt	1,442	763	7,411	5,090
<b>Potatoes and miscellaneous</b>				
Hops ..... pounds	1,770	1,924	103,810.3	116,880.0
Maple syrup ..... gallons	(NA)	(NA)	4,111	3,424
Mushrooms ..... pounds	(NA)	(NA)	816,367	757,987
Peppermint oil ..... pounds	99		4,984	
Potatoes .....cwt	461	438	420,020	413,162
Spearmint oil ..... pounds	121		2,134	

(NA) Not available.

(X) Not applicable.

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

<sup>2</sup> Yield in pounds.

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

Crop	Area planted		Area harvested	
	2020	2021	2020	2021
	(hectares)	(hectares)	(hectares)	(hectares)
<b>Grains and hay</b>				
Barley .....	1,103,180	1,076,480	895,980	788,340
Corn for grain <sup>1</sup> .....	36,685,960	37,759,200	33,311,250	34,433,050
Corn for silage .....	(NA)		2,715,870	
Hay, all <sup>2</sup> .....	(NA)	(NA)	21,140,200	20,856,510
Alfalfa .....	(NA)	(NA)	6,568,120	6,524,820
All other .....	(NA)	(NA)	14,572,080	14,331,690
Oats .....	1,217,710	1,031,960	408,330	263,050
Proso millet .....	246,460	242,810	195,870	
Rice .....	1,228,640	1,028,320	1,208,810	1,011,320
Rye .....	791,170	863,200	133,550	118,980
Sorghum for grain <sup>1</sup> .....	2,379,580	2,970,420	2,061,900	2,638,580
Sorghum for silage .....	(NA)		96,720	
Wheat, all <sup>2</sup> .....	17,988,470	18,900,240	14,888,140	15,039,490
Winter .....	12,322,810	13,617,010	9,319,610	10,305,030
Durum .....	683,930	661,670	673,810	620,790
Other spring .....	4,981,730	4,621,560	4,894,730	4,113,670
<b>Oilseeds</b>				
Canola .....	738,150	870,890	723,500	851,670
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	123,430	157,830	119,790	148,120
Mustard seed .....	39,250	35,610	36,990	33,990
Peanuts .....	672,800	639,410	653,660	620,390
Rapeseed .....	4,530	6,270	4,090	5,870
Safflower .....	55,040	54,630	51,270	51,600
Soybeans for beans .....	33,732,530	35,303,130	33,428,610	34,979,780
Sunflower .....	695,700	518,000	674,250	495,020
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	4,893,510	4,528,680	3,348,610	4,015,210
Upland .....	4,811,760	4,478,300	3,270,100	3,965,760
American Pima .....	81,750	50,380	78,510	49,450
Sugarbeets .....	470,330	470,050	462,280	465,600
Sugarcane .....	(NA)	(NA)	383,480	377,170
Tobacco .....	(NA)	(NA)	80,150	89,520
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	109,190	152,280	106,390	148,760
Dry edible beans .....	704,160	566,160	678,460	542,690
Dry edible peas .....	404,290	392,550	393,760	371,910
Lentils .....	213,680	287,730	208,010	269,930
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	23,730	24,580
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		20,270	
Potatoes .....	371,710	384,860	368,960	381,340
Spearmint oil .....	(NA)		7,160	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States:  
2020 and 2021 (continued)**

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

Crop	Yield per hectare		Production	
	2020	2021	2020	2021
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
<b>Grains and hay</b>				
Barley .....	4.15	3.25	3,719,010	2,562,030
Corn for grain .....	10.76	11.11	358,447,310	382,592,470
Corn for silage .....	45.99		124,896,660	
Hay, all <sup>2</sup> .....	5.44	5.24	115,041,910	109,299,430
Alfalfa .....	7.33	6.70	48,141,570	43,686,390
All other .....	4.59	4.58	66,900,340	65,613,040
Oats .....	2.34	2.20	953,550	578,220
Proso millet .....	1.07		208,880	
Rice .....	8.54	8.69	10,322,990	8,791,440
Rye .....	2.19	2.09	292,930	249,130
Sorghum for grain .....	4.59	4.54	9,473,620	11,967,130
Sorghum for silage .....	29.31		2,834,950	
Wheat, all <sup>2</sup> .....	3.34	2.98	49,751,180	44,790,360
Winter .....	3.42	3.37	31,880,200	34,764,180
Durum .....	2.79	1.63	1,881,710	1,014,020
Other spring .....	3.27	2.19	15,989,270	9,012,150
<b>Oilseeds</b>				
Canola .....	2.16	1.25	1,566,280	1,067,790
Cottonseed .....	(X)	(X)	4,090,500	5,033,970
Flaxseed .....	1.21		144,940	
Mustard seed .....	1.00		37,090	
Peanuts .....	4.27	4.56	2,793,380	2,831,550
Rapeseed .....	2.21		9,030	
Safflower .....	1.31		67,040	
Soybeans for beans .....	3.43	3.44	114,748,940	120,427,190
Sunflower .....	2.01	1.74	1,353,020	862,240
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	0.95	0.99	3,180,410	3,962,150
Upland .....	0.94	0.98	3,061,420	3,886,820
American Pima .....	1.52	1.52	118,990	75,330
Sugarbeets .....	65.97	72.17	30,497,740	33,602,120
Sugarcane .....	85.40	82.02	32,749,370	30,934,090
Tobacco .....	2.20	2.35	176,630	210,390
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	1.82	0.92	193,820	137,570
Dry edible beans .....	2.20	1.89	1,495,180	1,025,530
Dry edible peas .....	2.50	1.48	985,790	551,110
Lentils .....	1.62	0.86	336,160	230,880
<b>Potatoes and miscellaneous</b>				
Hops .....	1.98	2.16	47,090	53,020
Maple syrup .....	(NA)	(NA)	20,560	17,120
Mushrooms .....	(NA)	(NA)	370,300	343,820
Peppermint oil .....	0.11		2,260	
Potatoes .....	51.64	49.14	19,051,790	18,740,710
Spearmint oil .....	0.14		970	

(NA) Not available.

(X) Not applicable.

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

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



## Fruits and Nuts Production in Domestic Units – United States: 2021 and 2022

[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	
	2021	2022
<b>Citrus <sup>1</sup></b>		
Grapefruit ..... 1,000 tons	426	442
Lemons ..... 1,000 tons	884	892
Oranges ..... 1,000 tons	4,426	3,878
Tangerines and mandarins ..... 1,000 tons	1,166	883
<b>Noncitrus</b>		
Apples, commercial ..... million pounds	10,525.0	
Apricots ..... tons	55,500	
Avocados ..... tons		
Blueberries, Cultivated ..... 1,000 pounds		
Blueberries, Wild (Maine) ..... 1,000 pounds		
Cherries, Sweet ..... tons	369,000	
Cherries, Tart ..... million pounds	142.0	
Coffee (Hawaii) ..... 1,000 pounds		
Cranberries ..... barrel	7,900,000	
Dates ..... tons		
Grapes ..... tons	6,470,000	
Kiwifruit (California) ..... tons		
Nectarines (California) ..... tons		
Olives (California) ..... tons		
Papayas (Hawaii) ..... 1,000 pounds		
Peaches ..... tons	696,500	
Pears ..... tons	670,000	
Plums (California) ..... tons		
Prunes (California) ..... tons		
Raspberries, all ..... 1,000 pounds		
Strawberries ..... 1,000 cwt		
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) ..... 1,000 pounds	2,800,000	
Hazelnuts, in-shell (Oregon) ..... tons		
Macadamias (Hawaii) ..... 1,000 pounds		
Pecans, in-shell ..... 1,000 pounds	258,000	
Pistachios (California) ..... 1,000 pounds		
Walnuts, in-shell (California) ..... tons	670,000	

<sup>1</sup> Production years are 2020-2021 and 2021-2022.

## Fruits and Nuts Production in Metric Units – United States: 2021 and 2022

[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	
	2021 (metric tons)	2022 (metric tons)
<b>Citrus <sup>1</sup></b>		
Grapefruit .....	386,460	400,980
Lemons .....	801,950	809,210
Oranges .....	4,015,200	3,518,060
Tangerines and mandarins .....	1,057,780	801,040
<b>Noncitrus</b>		
Apples, commercial .....	4,774,060	
Apricots .....	50,350	
Avocados .....		
Blueberries, Cultivated .....		
Blueberries, Wild (Maine) .....		
Cherries, Sweet .....	334,750	
Cherries, Tart .....	64,410	
Coffee (Hawaii) .....		
Cranberries .....	358,340	
Dates .....		
Grapes .....	5,869,490	
Kiwifruit (California) .....		
Nectarines (California) .....		
Olives (California) .....		
Papayas (Hawaii) .....		
Peaches .....	631,850	
Pears .....	607,810	
Plums (California) .....		
Prunes (California) .....		
Raspberries, all .....		
Strawberries .....		
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) .....	1,270,060	
Hazelnuts, in-shell (Oregon) .....		
Macadamias (Hawaii) .....		
Pecans, in-shell .....	117,030	
Pistachios (California) .....		
Walnuts, in-shell (California) .....	607,810	

<sup>1</sup> Production years are 2020-2021 and 2021-2022.

## Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2021. 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: 2017-2021

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

State and month	2017	2018	2019	2020	2021	State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	30,800	32,000	31,100	30,600	31,550	All corn					
October .....	30,900	32,000	30,950	30,400	31,550	September ....	25,950	27,100	25,850	27,450	26,750
November .....	30,950	32,000	30,900	30,400	31,500	October .....	25,800	26,750	25,850	27,450	26,650
Final .....	30,950	32,000	30,900	30,400		November .....	25,700	26,750	25,700	27,400	26,650
						Final .....	25,700	26,750	25,700	27,400	
<b>Indiana</b>						<b>Irrigated</b>					
September .....	29,550	30,450	29,300	29,850	29,700	September ....	29,050	30,300	28,300	29,950	29,350
October .....	29,350	30,400	29,050	29,800	29,650	October .....	29,000	29,900	28,350	30,100	29,300
November .....	29,200	30,400	29,000	29,850	29,750	November .....	28,750	29,900	28,300	30,100	29,300
Final .....	29,200	30,400	28,950	29,850		Final .....	28,750	29,900	28,300	30,100	
<b>Iowa</b>						<b>Non-irrigated</b>					
September .....	31,300	31,350	30,850	31,050	31,850	September ....	22,500	23,350	23,300	24,950	24,050
October .....	31,150	31,150	30,800	31,000	31,850	October .....	22,200	23,100	23,250	24,750	24,000
November .....	31,150	31,100	30,750	31,050	31,800	November .....	22,250	23,150	23,000	24,700	23,950
Final .....	31,150	31,100	30,750	31,050		Final .....	22,250	23,150	23,000	24,700	
<b>Kansas</b>						<b>Ohio</b>					
September .....	22,050	22,600	21,350	21,700	22,050	September .....	29,250	30,550	30,050	29,800	30,400
October .....	22,100	22,450	21,200	21,650	21,550	October .....	29,150	30,400	30,100	29,900	30,050
November .....	22,300	22,450	21,200	21,650	21,800	November .....	29,100	30,400	30,000	29,900	30,050
Final .....	22,300	22,450	21,200	21,650		Final .....	29,100	30,400	30,000	29,850	
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,750	30,950	30,700	31,750	30,750	September .....	26,250	27,000	26,400	25,450	26,150
October .....	30,550	30,900	30,650	31,800	30,700	October .....	26,200	26,750	26,100	25,400	26,100
November .....	30,600	30,900	30,550	31,800	30,700	November .....	26,200	27,000	26,000	25,550	25,750
Final .....	30,600	30,900	30,650	31,800		Final .....	26,200	27,000	25,900	25,550	
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	27,850	28,500	28,200	28,200	27,250	September .....	29,450	31,000	30,250	30,300	29,900
October .....	27,850	28,400	27,500	28,150	27,400	October .....	29,100	30,600	30,150	30,400	29,550
November .....	27,950	28,400	27,600	28,200	27,350	November .....	29,150	30,650	29,750	30,300	29,400
Final .....	27,950	28,400	27,600	28,200		Final .....	29,100	30,650	29,850	30,300	
						<b>10 State</b>					
						September .....	28,800	29,500	28,650	29,000	29,100
						October .....	28,700	29,350	28,500	28,950	29,000
						November .....	28,700	29,400	28,450	28,950	29,000
						Final .....	28,700	29,350	28,450	28,950	

## Corn for Grain Number of Ears per Acre – Selected States: 2017-2021

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

State and month	2017	2018	2019	2020	2021	State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	30,200	31,550	30,300	29,900	31,100	All corn					
October .....	30,300	31,500	30,300	29,800	31,050	September ...	25,800	27,100	25,850	26,800	26,650
November .....	30,250	31,500	30,150	29,800	31,050	October .....	26,050	26,750	25,950	26,850	26,950
Final .....	30,250	31,500	30,150	29,800		November ....	25,950	26,800	25,700	26,750	26,800
						Final .....	25,950	26,800	25,700	26,750	
<b>Indiana</b>						<b>Irrigated</b>					
September .....	28,900	30,000	28,900	29,600	29,700	September ...	28,650	29,950	28,200	28,900	29,000
October .....	29,100	29,800	28,700	29,600	29,750	October .....	28,950	29,350	28,150	28,850	29,600
November .....	28,850	29,750	28,650	29,600	29,900	November ....	28,750	29,300	28,000	28,800	29,500
Final .....	28,850	29,750	28,600	29,600		Final .....	28,750	29,300	28,000	28,800	
<b>Iowa</b>						<b>Non-irrigated</b>					
September .....	30,600	31,150	30,250	30,600	31,750	September ...	22,600	23,850	23,500	24,650	24,250
October .....	30,600	30,900	30,200	30,450	31,800	October .....	22,800	23,650	23,700	24,800	24,200
November .....	30,600	30,800	30,100	30,550	31,800	November ....	22,900	23,850	23,400	24,700	24,050
Final .....	30,600	30,800	30,100	30,550		Final .....	22,900	23,850	23,400	24,700	
<b>Kansas</b>						<b>Ohio</b>					
September .....	22,800	22,350	21,550	22,050	22,250	September ....	29,500	30,750	29,850	29,350	30,650
October .....	22,600	21,650	22,250	21,250	21,450	October .....	29,250	30,300	29,750	29,700	30,350
November .....	22,650	21,700	22,200	21,250	21,700	November .....	29,150	30,300	29,550	29,700	30,350
Final .....	22,650	21,700	22,200	21,250		Final .....	29,150	30,300	29,550	29,650	
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,750	30,850	30,050	31,750	30,800	September ....	26,250	28,100	26,450	25,550	26,250
October .....	30,850	30,850	29,800	31,850	30,650	October .....	26,150	27,750	25,300	25,550	26,150
November .....	30,850	30,800	29,650	31,850	30,600	November .....	26,200	27,950	25,000	25,700	25,400
Final .....	30,600	30,800	29,700	31,850		Final .....	25,850	28,050	24,900	25,700	
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	27,750	27,400	26,950	27,650	26,900	September ....	28,950	30,700	29,850	30,050	30,100
October .....	27,800	27,300	26,950	27,600	26,950	October .....	28,800	30,450	30,250	30,400	29,500
November .....	27,850	27,300	27,100	27,650	26,950	November .....	28,600	30,450	29,850	30,350	29,400
Final .....	27,850	27,300	27,100	27,650		Final .....	28,550	30,450	29,950	30,350	
						<b>10-State</b>					
						September ....	28,550	29,350	28,200	28,650	29,050
						October .....	28,550	29,100	28,200	28,600	28,950
						November .....	28,500	29,100	28,050	28,600	28,850
						Final .....	28,450	29,100	28,050	28,600	

## Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2017-2021

Year	October		November	
	Dent stage <sup>1</sup>	Mature <sup>2</sup>	Dent stage <sup>1</sup>	Mature <sup>2</sup>
	(percent)	(percent)	(percent)	(percent)
2017 .....	41	51	(Z)	96
2018 .....	13	80	(Z)	96
2019 .....	49	29	1	94
2020 .....	25	68	(Z)	96
2021 .....	22	69	(Z)	94

(Z) Less than half of the unit shown.

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

<sup>2</sup> 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: 2017-2021

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)
Illinois ..... 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
..... 2021	1.6	0.8	1.6	7.1	19.0	69.9
Indiana ..... 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
..... 2021	1.6	1.6	6.3	14.3	25.4	50.8
Iowa ..... 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
..... 2021	-	1.6	2.4	5.5	12.6	77.9
Kansas ..... 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
..... 2021	26.3	13.1	24.2	15.2	9.1	12.1
Minnesota ..... 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
..... 2021	1.1	4.3	2.2	4.3	28.3	59.8
Missouri ..... 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	2.7	0.9	10.9	22.7	32.8	30.0
..... 2021	2.6	5.3	14.5	18.4	44.7	14.5
Nebraska ..... 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
..... 2021	15.8	2.5	14.2	14.2	20.0	33.3
Ohio ..... 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	26.3	45.7
..... 2021	2.3	1.1	4.6	9.2	32.2	50.6
South Dakota ..... 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
..... 2021	14.5	1.8	21.8	25.5	20.0	16.4
Wisconsin ..... 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
..... 2021	1.5	4.5	4.5	10.6	28.8	50.1

- Represents zero.

## Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2017-2021

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois .....2017	6	210	4	1	-
.....2018	9	211	-	-	-
.....2019	2	110	1	-	-
.....2020	8	148	2	-	-
.....2021	3	127	-	-	-
Indiana .....2017	7	117	-	-	-
.....2018	9	126	1	1	-
.....2019	4	53	1	-	-
.....2020	2	79	1	-	-
.....2021	1	63	-	-	-
Iowa .....2017	2	236	3	3	-
.....2018	12	234	2	1	-
.....2019	3	136	-	1	-
.....2020	9	140	5	3	-
.....2021	4	126	2	-	-
Kansas .....2017	2	106	2	-	-
.....2018	10	91	-	-	-
.....2019	9	70	-	-	-
.....2020	2	110	-	-	-
.....2021	14	91	-	-	-
Minnesota .....2017	27	89	2	-	-
.....2018	21	97	3	2	-
.....2019	15	63	3	1	-
.....2020	25	109	-	1	-
.....2021	22	73	-	1	-
Missouri .....2017	3	101	5	2	-
.....2018	5	90	1	2	1
.....2019	5	30	1	2	-
.....2020	7	99	-	5	-
.....2021	2	72	1	5	-
Nebraska .....2017	2	169	23	2	-
.....2018	6	160	25	-	-
.....2019	3	98	15	-	-
.....2020	2	138	15	-	-
.....2021	-	108	20	-	-
Ohio .....2017	2	109	1	1	-
.....2018	3	100	-	-	-
.....2019	2	45	1	-	-
.....2020	5	113	-	-	-
.....2021	3	83	1	-	-
South Dakota .....2017	6	75	1	1	-
.....2018	8	92	2	2	-
.....2019	5	45	-	1	-
.....2020	11	62	2	2	-
.....2021	3	55	2	-	-
Wisconsin .....2017	4	83	5	1	-
.....2018	4	108	4	2	-
.....2019	1	39	-	-	-
.....2020	3	78	1	2	-
.....2021	2	71	2	2	-

- Represents zero.

**Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2017-2021**

State and year	Samples	Row width (inches)						Average row width	
		20.5 or less	20.6-30.5	30.6-34.5	34.6-36.5	36.6-38.5	38.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
Illinois .....	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
	2021	126	1.6	80.1	18.3	-	-	-	30.0
Indiana .....	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
	2021	63	1.6	79.4	19.0	-	-	-	30.1
Iowa .....	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
	2021	127	3.9	82.7	12.6	0.8	-	-	29.7
Kansas .....	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
	2021	99	3.0	83.9	13.1	-	-	-	29.9
Minnesota .....	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
	2021	92	3.3	88.0	7.6	-	1.1	-	28.5
Missouri .....	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	110	5.5	80.9	10.9	-	2.7	-	29.6
	2021	76	2.6	76.3	13.2	1.3	6.6	-	30.5
Nebraska .....	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
	2021	120	-	69.2	15.8	14.2	0.8	-	30.9
Ohio .....	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
	2021	87	3.4	82.9	12.6	1.1	-	-	29.9
South Dakota .....	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
	2021	55	1.8	76.4	14.5	1.8	5.5	-	30.2
Wisconsin .....	2017	75	1.3	61.5	29.3	5.3	1.3	1.3	30.6
	2018	101	-	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
	2021	66	-	71.3	22.7	1.5	4.5	-	30.5

- Represents zero.

## Cotton Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in four cotton-producing States during 2021. 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: 2017-2021

[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	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>					
September .....	911	891	900	994	990
October .....	839	910	896	849	838
November .....	825	892	925	820	809
December .....	825	892	900	820	
Final .....	825	892	900	820	
<b>Georgia</b>					
September .....	593	605	598	606	597
October .....	608	737	783	747	658
November .....	680	712	790	761	669
December .....	684	719	799	784	
Final .....	684	713	803	785	
<b>Louisiana <sup>1</sup></b>					
September .....	648	759	(NA)	(NA)	(NA)
October .....	667	734	(NA)	(NA)	(NA)
November .....	665	739	(NA)	(NA)	(NA)
December .....	665	739	(NA)	(NA)	
Final .....	665	739	(NA)	(NA)	
<b>Mississippi</b>					
September .....	904	871	944	900	957
October .....	810	895	895	867	807
November .....	804	846	904	877	848
December .....	797	846	901	875	
Final .....	797	846	901	875	
<b>North Carolina <sup>1</sup></b>					
September .....	637	601	(NA)	(NA)	(NA)
October .....	705	641	(NA)	(NA)	(NA)
November .....	769	714	(NA)	(NA)	(NA)
December .....	769	719	(NA)	(NA)	
Final .....	769	719	(NA)	(NA)	
<b>Texas</b>					
September .....	592	570	458	576	491
October .....	602	576	438	581	512
November .....	603	553	456	595	538
December .....	615	583	459	608	
Final .....	614	582	461	608	
<b>4-State <sup>2</sup></b>					
September .....	633	627	551	645	567
October .....	635	661	562	661	573
November .....	649	640	579	671	595
December .....	656	659	580	683	
Final .....	656	657	593	693	

(NA) Not available.

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

<sup>2</sup> 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 2021. 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: 2017-2021

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

State and month	2017	2018	2019	2020	2021	State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>						<b>Missouri</b>					
September .....	1,992	1,841	1,759	1,630	1,449	September .....	2,041	1,777	1,719	1,977	1,925
October .....	1,898	1,795	1,731	1,527	1,501	October .....	2,172	1,899	1,754	2,093	1,886
November .....	2,039	1,943	1,717	1,459	1,583	November .....	2,253	1,948	1,898	2,036	2,047
Final .....	2,075	1,973	1,828	1,418		Final .....	2,239	1,961	1,921	2,041	
<b>Illinois</b>						<b>Nebraska</b>					
September .....	1,917	2,132	1,696	2,019	2,080	September .....	1,653	1,736	1,669	1,943	1,887
October .....	1,886	2,225	1,683	2,127	2,120	October .....	1,795	2,071	1,777	2,002	2,069
November .....	1,947	2,249	1,601	2,170	2,222	November .....	1,853	2,174	1,722	1,980	2,148
Final .....	1,947	2,264	1,603	2,170		Final .....	1,853	2,174	1,722	1,980	
<b>Indiana</b>						<b>North Dakota</b>					
September .....	1,795	1,880	1,496	2,056	1,846	September .....	1,406	1,418	1,147	1,242	1,055
October .....	1,772	2,001	1,501	1,994	1,811	October .....	1,430	1,485	1,246	1,439	1,014
November .....	1,774	2,054	1,569	1,963	1,822	November .....	1,465	1,515	1,253	1,442	1,009
Final .....	1,774	2,052	1,561	1,959		Final .....	1,451	1,514	1,195	1,442	
<b>Iowa</b>						<b>Ohio</b>					
September .....	1,644	1,823	1,601	1,675	1,732	September .....	1,765	2,019	1,563	1,811	2,060
October .....	1,670	1,984	1,642	1,933	1,800	October .....	1,714	2,180	1,760	1,972	1,989
November .....	1,717	2,082	1,660	1,927	1,894	November .....	1,828	2,210	1,587	1,983	2,074
Final .....	1,735	2,097	1,682	1,927		Final .....	1,823	2,210	1,587	1,981	
<b>Kansas</b>						<b>South Dakota</b>					
September .....	1,487	1,552	1,561	1,650	1,404	September .....	1,511	1,649	1,504	1,688	1,626
October .....	1,472	1,456	1,604	1,699	1,480	October .....	1,472	1,867	1,316	1,720	1,526
November .....	1,561	1,548	1,596	1,629	1,551	November .....	1,457	1,822	1,331	1,696	1,512
Final .....	1,561	1,558	1,583	1,629		Final .....	1,457	1,724	1,353	1,696	
<b>Minnesota</b>						<b>11-State</b>					
September .....	1,359	1,605	1,465	1,607	1,603	September .....	1,678	1,786	1,561	1,780	1,717
October .....	1,407	1,616	1,474	1,782	1,545	October .....	1,692	1,895	1,593	1,882	1,725
November .....	1,480	1,569	1,458	1,751	1,557	November .....	1,751	1,938	1,582	1,866	1,788
Final .....	1,480	1,569	1,458	1,751		Final .....	1,752	1,938	1,586	1,865	

## Soybean Frequency of Farmer Reported Row Widths – Selected States: 2017-2021

State and year	Row width (inches)				
	Less than 7.5 <sup>1</sup>	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas .....2017	9	25	42	39	79
.....2018	9	36	47	36	83
.....2019	-	14	13	21	25
.....2020	5	14	14	36	49
.....2021	-	13	16	29	42
Illinois .....2017	2	10	109	59	2
.....2018	3	11	118	58	-
.....2019	2	5	82	33	1
.....2020	-	11	91	44	-
.....2021	2	7	80	38	-
Indiana .....2017	3	28	101	12	-
.....2018	1	19	110	14	-
.....2019	-	5	57	9	1
.....2020	1	11	87	8	-
.....2021	1	14	60	8	-
Iowa .....2017	1	3	80	94	1
.....2018	1	11	77	88	3
.....2019	1	9	51	66	-
.....2020	1	8	63	85	3
.....2021	2	3	61	69	1
Kansas .....2017	10	14	32	43	2
.....2018	2	17	35	54	1
.....2019	-	10	23	16	-
.....2020	1	9	19	27	-
.....2021	1	12	15	16	1
Minnesota .....2017	1	9	38	42	-
.....2018	3	8	34	45	2
.....2019	3	5	26	28	1
.....2020	3	5	35	51	1
.....2021	1	2	22	38	-
Missouri .....2017	1	10	70	21	4
.....2018	1	15	65	31	4
.....2019	1	5	38	10	1
.....2020	-	13	63	20	11
.....2021	1	6	48	21	5
Nebraska .....2017	1	4	38	51	8
.....2018	3	7	35	49	8
.....2019	-	6	37	49	5
.....2020	-	8	39	58	1
.....2021	1	9	31	50	4

See footnote(s) at end of table.

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**Soybean Frequency of Farmer Reported Row Widths – Selected States: 2017-2021 (continued)**

State and year	Row width (inches)				
	Less than 7.5 <sup>1</sup>	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
North Dakota ..... 2017	5	16	56	7	1
..... 2018	4	31	49	12	-
..... 2019	3	11	28	6	-
..... 2020	7	27	48	11	-
..... 2021	-	16	55	13	-
Ohio ..... 2017	2	38	83	8	-
..... 2018	4	31	98	1	-
..... 2019	2	11	42	1	-
..... 2020	3	30	82	5	-
..... 2021	2	21	64	3	1
South Dakota ..... 2017	1	4	27	63	1
..... 2018	2	4	27	61	1
..... 2019	4	-	18	30	-
..... 2020	-	-	43	44	-
..... 2021	-	3	26	38	-

- Represents zero.

<sup>1</sup> Includes broadcast soybeans.

**Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2017-2021**

Year	October	November
	Mature <sup>1</sup>	Mature <sup>1</sup>
	(percent)	(percent)
2017 .....	49	93
2018 .....	57	93
2019 .....	25	91
2020 .....	64	94
2021 .....	61	92

<sup>1</sup> 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: 2017-2021**

State and year	Samples	Row width (inches)					Average row width <sup>1</sup>	
		10.0 or less <sup>1</sup>	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
Arkansas .....	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
	2021	105	11.9	15.2	6.2	30.5	36.2	27.9
Illinois .....	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
	2021	128	5.5	56.9	5.5	31.3	0.8	19.9
Indiana .....	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
	2021	84	12.5	64.3	12.5	10.7	-	16.4
Iowa .....	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
	2021	136	1.5	37.5	11.0	49.3	0.7	23.6
Kansas .....	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
	2021	49	12.2	46.0	7.1	34.7	-	19.8
Minnesota .....	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
	2021	61	4.1	14.8	23.8	57.3	-	25.2
Missouri .....	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
	2021	80	10.0	58.7	6.3	22.5	2.5	19.1
Nebraska .....	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
	2021	96	7.3	30.7	8.3	48.5	5.2	23.2

See footnote(s) at end of table.

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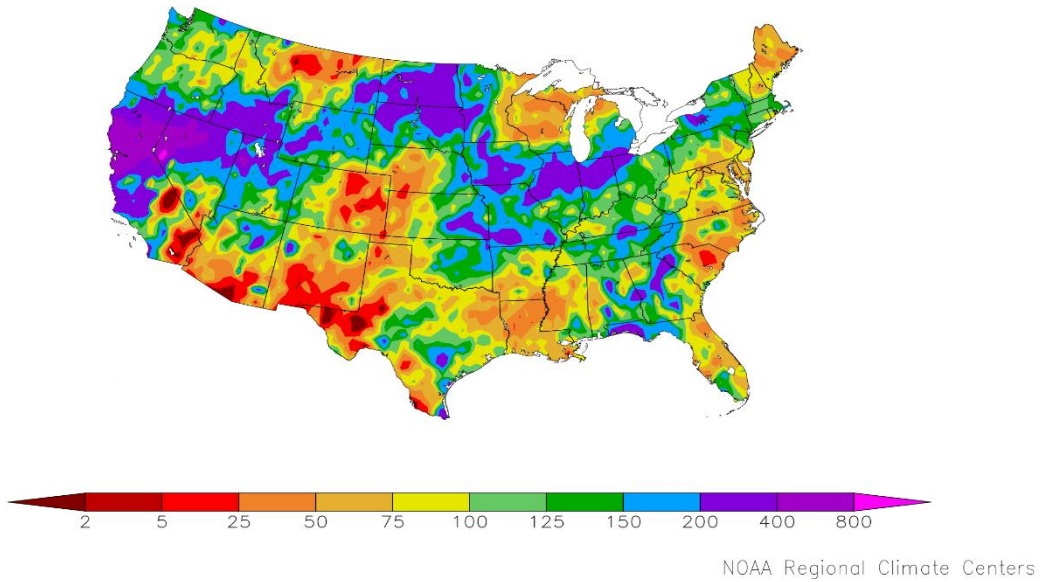
**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:  
2017-2021 (continued)**

State and year	Samples	Row width (inches)					Average row width <sup>1</sup>
		10.0 or less <sup>1</sup>	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 .....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
.....2021	85	18.2	44.1	27.1	10.6	-	17.2
Ohio .....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
.....2021	92	25.0	67.3	3.3	3.3	1.1	14.1
South Dakota .....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
.....2021	64	3.1	14.1	34.4	46.1	2.3	24.4

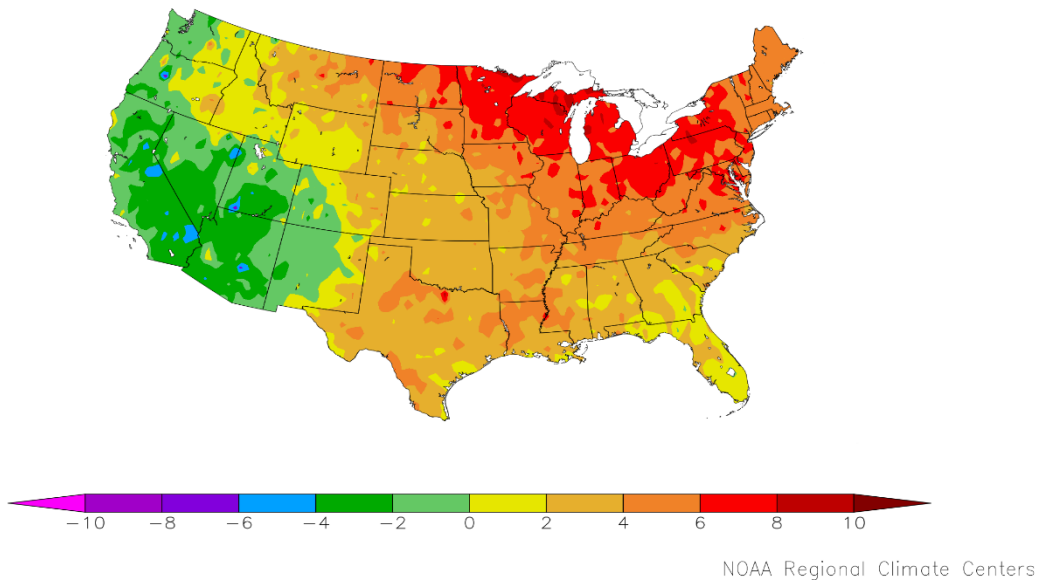
- Represents zero.

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

Percent of Normal Precipitation (%)  
10/1/2021 - 10/31/2021



Departure from Normal Temperature (F)  
10/1/2021 - 10/31/2021



## October Weather Summary

Despite periodic rain-related fieldwork delays, Midwestern harvest activities remained near or ahead of the average pace. By October 31, the Nation's corn harvest was 74 percent complete, versus the 5-year average of 66 percent. The soybean harvest, nearing completion by the end of October across much of the upper Midwest, was 79 percent complete nationally by that date. During dry interludes between Midwestern rain events, warm weather assisted harvest efforts. In fact, monthly temperatures averaged at least 5°F above normal in many Midwestern locations.

Above-normal monthly temperatures were common east of the Rockies, with the most anomalous warmth (more than 5°F above normal) covering the Great Lakes region. In contrast, cooler-than-normal conditions blanketed much of the western United States, especially from California into the Southwest, where monthly readings averaged as much as 5°F below normal.

An increase in Western storminess culminated in a massive, early-season blast of precipitation on October 24-25, especially across northern California. Indeed, multiple October storms carved a stormy path from northern California to the northern Plains, providing drought relief and establishing high-elevation snowpack. Other areas of the West received variable precipitation, although drier-than-normal weather prevailed across the southern half of the Rockies and adjacent High Plains. Even with the October moisture, Western rangeland and pastures may not recover until at least spring 2022. By October 31, at least 39 percent of the rangeland and pastures were rated in very poor to poor condition in eleven states along and northwest of a line from California to Minnesota, led by Montana (95 percent very poor to poor).

Patchy dryness on the Plains locally limited winter wheat emergence and establishment, although many areas received plenty of precipitation. Some of the region's driest areas during October included north-central Montana and an area of the High Plains extending as far north as southwestern Nebraska. Conversely, notably wet weather eased or eradicated drought in Wyoming, the Dakotas, and southeastern Montana. Still, by the end of October, 46 percent of the winter wheat was rated in very poor to poor condition in Texas, along with 44 percent in Montana, 31 percent in South Dakota, and 27 percent in Colorado.

Elsewhere, warm conditions across the South, accompanied by long stretches of dry weather, favored summer crop maturation and harvesting. Much of the South had previously experienced slower-than-normal crop development and delayed harvest due to a relatively cool, wet growing season. By October 31, harvest of many Southern crops, including cotton (45 percent, versus the 5-year average of 48 percent) and peanuts (67 percent, versus 74 percent on average), was still behind the average pace.

During the 5-week period ending November 2, drought coverage in the contiguous United States remained nearly unchanged at 46 to 48 percent, according to the *Drought Monitor*. However, substantial October improvement in the north-central United States and modest change in the West was offset by developing drought in the south-central United States. National drought coverage has been significantly elevated for more than a year, and was last below 40 percent in late-September 2020. Since the beginning of the 21<sup>st</sup> century, the only other periods when the Nation's drought coverage continuously exceeded 40 percent for more than a year were March 12, 2002 – June 3, 2003, and June 19, 2012 – October 1, 2013.

## October Agricultural Summary

October was warmer than normal for most of the Nation. Large parts of the Great Lakes, Mid-Atlantic, Northeast, and Northern Plains recorded temperatures 6°F or more above normal for the month. In contrast, much of the Pacific Northwest, Southern Rockies, and Southwest were cooler than normal. Much of the Nation received higher than normal amounts of precipitation for the month. Large parts of California, the Midwest, Nevada, Northern Plains, Rockies, and Southeast recorded at least twice the normal amount of precipitation. Parts of Northern California and Washington recorded 12 inches or more of precipitation for the month.

Eighty-eight percent of the Nation's corn acreage was mature by October 3, three percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Twenty-nine percent of the 2021 corn acreage was harvested by October 3, five percentage points ahead of last year and 7 percentage points ahead of the 5-year average harvest pace.

Ninety-seven percent of the Nation's corn acreage was mature by October 17, equal to last year but 4 percentage points ahead of the 5-year average. Fifty-two percent of the 2021 corn acreage was harvested by October 17, five percentage points behind last year but 11 percentage points ahead of the 5-year average harvest pace. On October 17, sixty percent of the Nation's corn acreage was rated in good to excellent condition, 1 percentage point below the same time last year. Seventy-four percent of the 2021 corn acreage was harvested by October 31, seven percentage points behind last year but 8 percentage points ahead of the 5-year average harvest pace.

Soybean leaf drop was 86 percent complete Nationally by October 3, three percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 34 percent complete by October 3, one percentage point behind last year but 8 percentage points ahead of the 5-year average. On October 10, fifty-nine percent of the Nation's soybean acreage was rated in good to excellent condition, 4 percentage points below the same time last year. Leaf drop was 95 percent complete Nationally by October 17, one percentage point behind last year but equal to the 5-year average. Soybean harvest across the Nation was 60 percent complete by October 17, thirteen percentage points behind last year but 5 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 79 percent complete by October 31, seven percentage points behind last year and 2 percentage points behind the 5-year average.

Nationwide, producers had sown 47 percent of the intended 2022 winter wheat acreage by October 3, three percentage points behind last year but 1 percentage point ahead of the 5-year average. Nationwide, 19 percent of the winter wheat acreage had emerged by October 3, three percentage points behind last year but 1 percentage point ahead of the 5-year average. Nationwide, producers had sown 70 percent of the intended 2022 winter wheat acreage by October 17, six percentage points behind last year and 1 percentage point behind the 5-year average. Nationwide, 44 percent of the winter wheat acreage had emerged by October 17, six percentage points behind last year and 3 percentage points behind the 5-year average. Nationwide, producers had sown 87 percent of the intended 2022 winter wheat acreage by October 31, one percentage point behind last year but 1 percentage point ahead of the 5-year average. Nationwide, 67 percent of the winter wheat acreage had emerged by October 31, three percentage points behind last year and 1 percentage point behind the 5-year average. Winter wheat emergence advanced by 10 percentage points or more in 13 of the 18 estimating States. As of October 31, forty-five percent of the 2022 winter wheat acreage was reported in good to excellent condition, 2 percentage points above the same time last year.

By October 3, seventy percent of the Nation's cotton had open bolls, 11 percentage points behind last year and 5 percentage points behind the 5-year average. By October 3, thirteen percent of the Nation's cotton acreage was harvested, 3 percentage points behind last year and 6 percentage points behind the 5-year average. By October 17, eighty-six percent of the Nation's cotton had open bolls, 7 percentage points behind last year and 2 percentage points behind the 5-year average. By October 17, twenty-eight percent of the Nation's cotton acreage was harvested, 5 percentage points behind last year and 6 percentage points behind the 5-year average. By October 31, ninety-four percent of the Nation's cotton had open bolls, 4 percentage points behind last year and 1 percentage point behind the 5-year average. By October 31, forty-five percent of the Nation's cotton acreage had been harvested, 6 percentage points behind last year and 3 percentage points behind the 5-year average. On October 31, sixty-two percent of the 2021 cotton acreage was rated in good to excellent condition, 25 percentage points above the same time last year.

By October 3, seventy-nine percent of the Nation's sorghum acreage was mature, 4 percentage points ahead of last year and 12 percentage points ahead of the 5-year average. Thirty-eight percent of the 2021 sorghum acreage had been harvested by October 3, one percentage point ahead of last year and 2 percentage points ahead of the 5-year average. Fifty-five percent of the Nation's sorghum acreage was rated in good to excellent condition on October 10, five percentage points above the same time last year. By October 17, ninety-three percent of the Nation's sorghum acreage was mature, 1 percentage point behind last year but 5 percentage points ahead of the 5-year average. Fifty-nine percent of the 2021 sorghum acreage had been harvested by October 17, two percentage points behind last year but 9 percentage points ahead of the 5-year average. Ninety-two percent of Texas' sorghum acreage was harvested by October 17, equal to last year but 9 percentage points ahead of the 5-year average. Eighty percent of the 2021 sorghum acreage had been harvested by October 31, one percentage point behind last year but 10 percentage points ahead of the 5-year average.



Nationally, 73 percent of the rice acreage was harvested by October 3, four percentage points ahead of last year but 3 percentage points behind the 5-year average. Nationally, 92 percent of the rice acreage was harvested by October 17, two percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Ninety-five percent of the 2021 rice acreage had been harvested by October 24.

Nineteen percent of the Nation's peanut acreage was harvested as of October 3, three percentage points ahead of last year but 8 percentage points behind the 5-year average. Thirty-eight percent of the Nation's peanut acreage was harvested as of October 17, one percentage point behind last year and 14 percentage points behind the 5-year average. On October 24, seventy-three percent of the Nation's peanut acreage was rated in good to excellent condition, 9 percentage points above the same time last year. Sixty-seven percent of the Nation's peanut acreage was harvested as of October 31, two percentage points ahead of last year but 7 percentage points behind the 5-year average.

By October 3, sugarbeet producers had harvested 20 percent of the Nation's crop, 22 percentage points behind last year and 8 percentage points behind the 5-year average. By October 17, sugarbeet producers had harvested 40 percent of the Nation's crop, 41 percentage points behind last year and 21 percentage points behind the 5-year average. By October 31, sugarbeet producers had harvested 87 percent of the Nation's crop, 7 percentage points behind last year but 3 percentage points ahead of the 5-year average.

By October 3, six percent of this year's sunflower crop was harvested, 4 percentage points behind last year but 2 percentage points ahead of the 5-year average. By October 17, twenty-nine percent of this year's sunflower crop was harvested, 6 percentage points behind last year but 8 percentage points ahead of the 5-year average. By October 31, fifty-three percent of this year's sunflower crop was harvested, 6 percentage points behind last year but 3 percentage points ahead of the 5-year average.

## Crop Comments

**Corn:** The 2021 corn harvested for grain acreage is forecast at 85.1 million acres, unchanged from the previous forecast, but up 3 percent from last year.

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

At 15.1 billion bushels, 2021 corn production for grain is forecast to be the second highest production on record for the United States. The forecasted yield, at a record high 177.0 bushels per acre, is up 3 percent from last year's final estimate of 171.4 bushels per acre. Record high yields are forecast in California, Georgia, Idaho, Indiana, Kentucky, Michigan, New York, North Carolina, Ohio, Oklahoma, and Pennsylvania.

Eighty-eight percent of the Nation's corn acreage was mature by October 3, three percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Twenty-nine percent of the 2021 corn acreage was harvested by October 3, five percentage points ahead of last year and 7 percentage points ahead of the 5-year average harvest pace.

Ninety-four percent of the Nation's corn acreage was mature by October 10, one percentage point ahead of last year and 8 percentage points ahead of the 5-year average. Forty-one percent of the 2021 corn acreage was harvested by October 10, two percentage points ahead of last year and 10 percentage points ahead of the 5-year average harvest pace.

Ninety-seven percent of the Nation's corn acreage was mature by October 17, equal to last year but 4 percentage points ahead of the 5-year average. Fifty-two percent of the 2021 corn acreage was harvested by October 17, five percentage points behind last year but 11 percentage points ahead of the 5-year average harvest pace. On October 17, sixty percent of the Nation's corn acreage was rated in good to excellent condition, 1 percentage point below the same time last year.

Sixty-six percent of the Nation's 2021 corn acreage was harvested by October 24, four percentage points behind last year but 13 percentage points ahead of the 5-year average harvest pace. Seventy-four percent of the 2021 corn acreage was harvested by October 31, seven percentage points behind last year but 8 percentage points ahead of the 5-year average harvest pace.

**Sorghum:** Production is forecast at 471 million bushels, down slightly from the previous forecast but up 26 percent from last year. Area harvested for grain is forecast at 6.52 million acres, unchanged from the previous forecast but up 28 percent from 2020. Based on conditions as of November 1, yield is forecast at 72.3 bushels per acre, unchanged from the previous forecast but 0.9 bushel per acre below the 2020 yield of 73.2 bushels per acre. If realized, the forecasted yield for Oklahoma will be a record high.

As of October 31, eighty percent of the sorghum acreage was harvested, 1 percentage point behind last year but 10 percentage points ahead of the 5-year average.

**Rice:** Production is forecast at 194 million cwt, up 2 percent from the previous forecast but down 15 percent from 2020. Harvested area is expected to total 2.50 million acres, unchanged from the previous forecast but down 16 percent from 2020. Based on conditions as of November 1, the average United States yield is forecast at 7,756 pounds per acre, up 131 pounds per acre from the previous forecast and up 137 pounds per acre from 2020. If realized, this will be the highest yield on record for the United States. Record high yields are forecast in Arkansas, California, Mississippi, and Missouri.

Nationally, 95 percent of the rice acreage was harvested by October 24, one percentage point ahead of last year but equal to the five-year average. Rice harvest was 97 percent complete in Arkansas by October 31, two percentage points ahead of last year. Harvest in Missouri had progressed to 90 percent complete by October 31, compared to the five-year average of 95 percent complete.

**Soybeans:** Production is forecast at 4.42 billion bushels, down 1 percent from the previous forecast but up 5 percent from last year. Based on conditions as of November 1, yields are expected to average 51.2 bushels per acre, down 0.3 bushel from the previous forecast but up 0.2 bushel from last year. If realized, this would be the second highest yield and production on record for the United States. Area harvested for beans in the United States is forecast at 86.4 million acres, unchanged from the previous forecast but up 5 percent from 2020.

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 lower pod count compared with the previous year. Compared with final counts for 2020, pod counts are down in 6 of the 11 published States. North Dakota showed the greatest decrease, down 433 pods per 18 square feet from the previous year.

Soybean harvest was 34 percent complete as of October 3, one percentage point behind last year but 8 percentage points ahead of the 5-year average. As of October 31, harvest was 79 percent complete Nationwide, 7 percentage points behind last year and 2 percentage points behind the 5-year average. At that time, harvest progress was at or behind 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 Delaware, Georgia, Illinois, Iowa, Kentucky, Maryland, Mississippi, Nebraska, New York, North Carolina, Ohio, Pennsylvania, Tennessee, and Virginia.

**Peanuts:** Production is forecast at 6.24 billion pounds, down 1 percent from the previous forecast but up 1 percent from the 2020 total of 6.16 billion pounds. Area harvested is expected to total 1.53 million acres, unchanged from the previous forecast but down 5 percent from the 2020 total. Based on conditions as of November 1, the average yield for the United States is forecast at 4,072 pounds per acre, down 33 pounds per acre from the previous forecast but up 259 pounds per acre from the 2020 yield. A record high yield is forecast in South Carolina.

Sixty-seven percent of the Nation's peanut acreage was harvested as of October 31, two percentage points ahead of last year but 7 percentage points behind the five-year average. In Georgia, 69 percent of the peanuts had been harvested by October 31, nine percentage points below the five-year average of 78 percent harvested. Excess moisture in the South over the past two months has lowered yield expectations.

**Cotton:** Upland harvested area for the Nation is expected to total 9.80 million acres, unchanged from the previous forecast but up 21 percent from last year. Expected Pima harvested area, at 122,200 acres, is unchanged from the previous forecast but down 37 percent from last year.

As of October 31, sixty-two percent of the cotton acreage was rated in good to excellent condition, compared with 37 percent at the same time last year. As of October 31, ninety-four percent of the cotton acreage had open bolls, 4 percentage points behind last year and 1 percentage point behind the 5-year average. Forty-five percent of the cotton acreage had been harvested by October 31, six percentage points behind last year and 3 percentage points behind the 5-year average.

If realized, the forecasted yield for Upland cotton in Arkansas will be a record high.

Ginnings totaled 3,542,900 running bales prior to November 1, compared with 3,975,750 running bales ginned prior to the same date last year.

**Sugarbeets:** Production of sugarbeets for the 2021 crop year is forecast at 37.0 million tons, up 4 percent from last month, and up 10 percent from last year. Producers expect to harvest 1.15 million acres, unchanged from the previous month but up 1 percent from last year. Yield is forecast at 32.2 tons per acre, up 1.2 tons from last month and up 2.8 tons from last year.

**Sugarcane:** Production of sugarcane for sugar and seed is forecast at 34.1 million tons, down 1 percent from last month and down 6 percent from 2020. Producers intend to harvest 932,000 acres for sugar and seed during the 2021 crop year, unchanged from last month, but down 2 percent from 2020. Yields for sugar and seed are expected to average 36.6 tons per acre, down 0.2 ton from last month and down 1.5 tons from 2020.

**Potatoes:** Production of potatoes for the 2021 crop year is forecast at 413 million cwt, down 2 percent from last year. Planted acreage, at 951,000 acres, is up 1 percent from the June estimate and up 4 percent from last season. Area harvested, at 942,300 acres, is up 3 percent from the previous year. The yield forecast, at 438 cwt per acre, is down 23 cwt from last year's yield.

Colorado, Idaho, North Dakota, Oregon, and Wisconsin completed harvest by October 31. In Washington, as of October 31, ninety-three percent of the potato acreage was harvested.

## Statistical Methodology

**Field crop survey procedures:** Objective yield and farm operator surveys were conducted between October 24 and November 4 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 6,800 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 1.2 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 1.2 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.0 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 115 million bushels, ranging from 4 million bushels to 395 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	1.2	2.0	115	4	395	7	13
Peanut <sup>1</sup> ..... pounds	4.9	8.5	207	10	662	14	6
Potato ..... cwt	2.2	3.9	6	1	37	14	6
Rice ..... cwt	1.6	2.8	2	(Z)	11	15	5
Sorghum for grain ..... bushels	5.0	8.6	14	1	33	11	9
Soybeans for beans ..... bushels	1.8	3.0	49	2	171	11	9
Sugarbeets for sugar ..... tons	1.5	2.6	(Z)	(Z)	1	11	9
Sugarcane ..... tons	4.6	7.9	1	(Z)	2	9	11
Upland cotton <sup>1</sup> ..... bales	5.0	8.6	534	45	2,474	7	13

(Z) Less than half of the unit shown.

<sup>1</sup> 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](mailto:nass@usda.gov)

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Chris Hawthorn, Head, Field Crops Section .....	(202) 720-2127
Irwin Anolik – Crop Weather .....	(202) 720-7621
Joshua Bates – Oats, Soybeans .....	(202) 690-3234
David Colwell – Current Agricultural Industrial Reports .....	(202) 720-8800
Michelle Harder – Barley, County Estimates, Hay .....	(202) 690-8533
James Johanson – Rye, Wheat .....	(202) 720-8068
Greg Lemmons – Corn, Flaxseed, Proso Millet .....	(202) 720-9526
Becky Sommer – Cotton, Cotton Ginnings, Sorghum .....	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds .....	(202) 720-7369
Lihan Wei – Peanuts, Rice .....	(202) 720-7688
Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section.....	(202) 720-2127
Fleming Gibson – Apples, Blueberries, Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins, Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes .....	(202) 720-2127
Robert Little – Apricots, Dry Beans, Lettuce, Macadamia, Maple Syrup, Nectarines, Pears, Snap Beans, Spinach, Tomatoes .....	(202) 720-3250
Fleming Gibson – Almonds, Asparagus, Carrots, Coffee, Onions, Plums, Prunes, Sweet Corn.....	(202) 720-2127
Krishna Rizal – Artichokes, Cauliflower, Celery, Grapefruit, Garlic, Hazelnuts, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges, Tobacco.....	(202) 720-5412
Antonio Torres – Cantaloupes, Dry Edible Peas, Green Peas, Honeydews, Lentils, Papayas, Peaches, Sweet Cherries, Tart Cherries, Walnuts, Watermelons.....	(202) 720-2157
Chris Wallace – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas, Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans .....	(202) 720-4215

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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist [notifications@usda-esmis.library.cornell.edu](mailto:notifications@usda-esmis.library.cornell.edu) in your email client to avoid the emails going into spam/junk folders.

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

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