



# Crop Production

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## **Corn Production Up 1 Percent from October Forecast Soybean Production Up 1 Percent Cotton Production Up 2 Percent**

**Corn** production for grain is forecast at a record high 15.2 billion bushels, up 1 percent from the previous forecast and up 11 percent from 2022. Based on conditions as of November 1, yields are expected to average 174.9 bushels per harvested acre, up 1.9 bushels from the previous forecast and up 1.5 bushels from last year. Area harvested for grain, forecast at 87.1 million acres, is unchanged from the previous forecast but up 10 percent from the last year.

**Soybean** production for beans is forecast at 4.13 billion bushels, up 1 percent from the previous forecast but down 3 percent from last year. Based on conditions as of November 1, yields are expected to average 49.9 bushels per acre, up 0.3 bushel from both the previous forecast and 2022. Area harvested for beans in the United States is forecast at 82.8 million acres, unchanged from the previous forecast but down 4 percent from 2022.

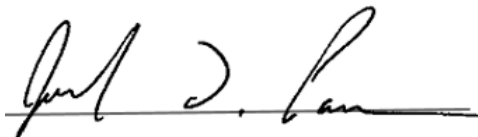
**All cotton** production is forecast at 13.1 million 480-pound bales, up 2 percent from the previous forecast but down 10 percent from 2022. Based on conditions as of November 1, yields are expected to average 783 pounds per harvested acre, up 16 pounds from the previous forecast but down 167 pounds from 2022. Upland cotton production is forecast at 12.7 million 480-pound bales, up 2 percent from the previous forecast but down 9 percent from 2022. Pima cotton production is forecast at 354,000 bales, down 1 percent from the previous forecast and down 25 percent from 2022. All cotton area harvested is forecast at 8.02 million acres, unchanged from the previous forecast but up 10 percent from 2022.

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This report was approved on November 9, 2023.



Secretary of Agriculture  
Designate  
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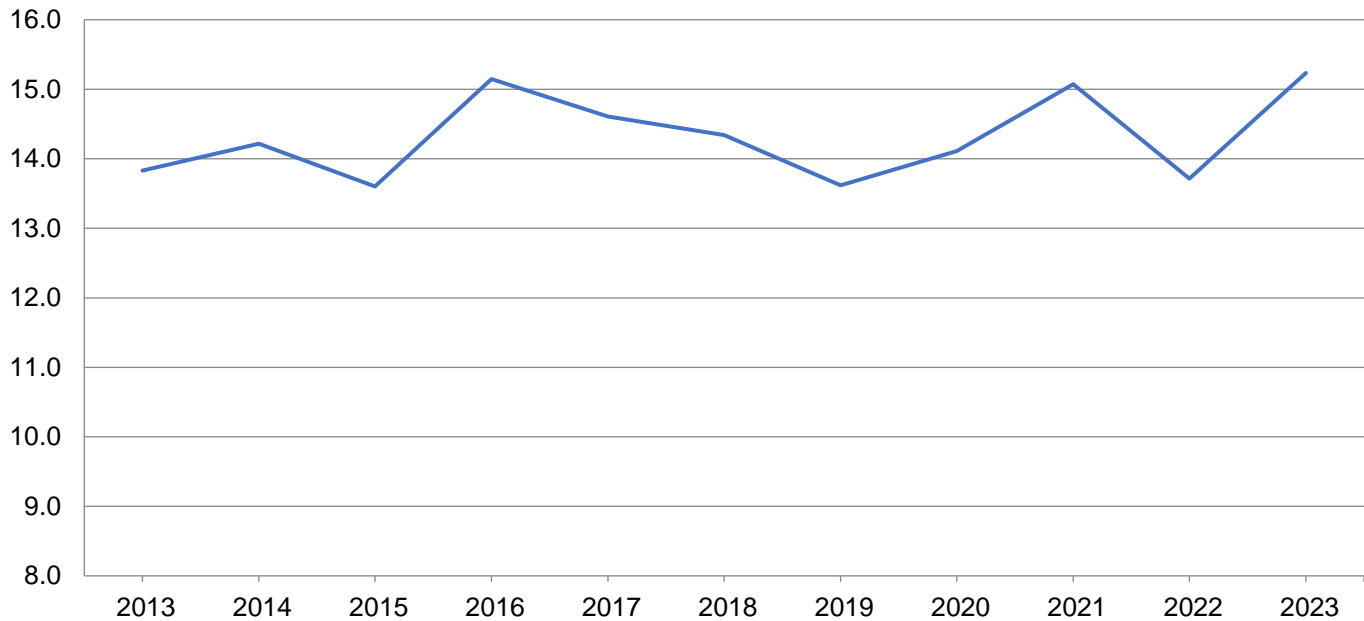
**Corn for Grain Area Harvested, Yield, and Production – States and United States: 2022 and Forecasted November 1, 2023**

State	Area harvested		Yield per acre			Production	
	2022	2023	2022	2023		2022	2023
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama .....	290	335	118.0	167.0	168.0	34,220	56,280
Arkansas .....	695	830	173.0	180.0	180.0	120,235	149,400
California .....	20	40	177.0	174.0	174.0	3,540	6,960
Colorado .....	980	1,070	121.0	128.0	124.0	118,580	132,680
Delaware .....	166	172	170.0	186.0	186.0	28,220	31,992
Georgia .....	385	450	175.0	177.0	183.0	67,375	82,350
Idaho .....	110	120	216.0	212.0	215.0	23,760	25,800
Illinois .....	10,600	11,000	214.0	200.0	203.0	2,268,400	2,233,000
Indiana .....	5,130	5,380	190.0	197.0	200.0	974,700	1,076,000
Iowa .....	12,350	12,600	200.0	199.0	200.0	2,470,000	2,520,000
Kansas .....	4,440	5,330	115.0	122.0	121.0	510,600	644,930
Kentucky .....	1,350	1,500	156.0	183.0	183.0	210,600	274,500
Louisiana .....	435	680	170.0	175.0	175.0	73,950	119,000
Maryland .....	380	420	165.0	158.0	171.0	62,700	71,820
Michigan .....	1,990	2,050	168.0	170.0	171.0	334,320	350,550
Minnesota .....	7,490	8,200	195.0	179.0	181.0	1,460,550	1,484,200
Mississippi .....	565	770	165.0	182.0	182.0	93,225	140,140
Missouri .....	3,110	3,670	161.0	141.0	147.0	500,710	539,490
Nebraska .....	8,820	9,590	165.0	174.0	173.0	1,455,300	1,659,070
New York .....	575	605	140.0	163.0	168.0	80,500	101,640
North Carolina .....	785	900	126.0	147.0	143.0	98,910	128,700
North Dakota .....	2,650	3,740	131.0	136.0	143.0	347,150	534,820
Ohio .....	3,180	3,370	187.0	195.0	195.0	594,660	657,150
Oklahoma .....	200	350	122.0	144.0	144.0	24,400	50,400
Pennsylvania .....	830	840	140.0	154.0	154.0	116,200	129,360
South Carolina .....	300	355	122.0	147.0	150.0	36,600	53,250
South Dakota .....	5,010	5,590	132.0	147.0	152.0	661,320	849,680
Tennessee .....	795	895	130.0	173.0	177.0	103,350	158,415
Texas .....	1,610	2,200	95.0	130.0	130.0	152,950	286,000
Virginia .....	340	375	167.0	152.0	154.0	56,780	57,750
Washington .....	80	90	220.0	230.0	235.0	17,600	21,150
Wisconsin .....	3,030	3,100	180.0	165.0	171.0	545,400	530,100
Other States <sup>1</sup> .....	424	479	160.1	162.2	162.2	67,871	77,708
United States .....	79,115	87,096	173.4	173.0	174.9	13,714,676	15,234,285

<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 2023 Summary*.

# Corn Production – United States

Billion bushels



## Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2022 and Forecasted November 1, 2023

State	Area harvested		Yield per acre			Production	
	2022	2023	2022	2023		2022	2023
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Colorado .....	380	405	20.0	50.0	50.0	7,600	20,250
Kansas .....	2,700	3,300	39.0	56.0	47.0	105,300	155,100
Nebraska .....	125	220	55.0	79.0	79.0	6,875	17,380
Oklahoma .....	240	330	24.0	43.0	43.0	5,760	14,190
South Dakota .....	175	255	68.0	91.0	80.0	11,900	20,400
Texas .....	950	1,750	53.0	57.0	54.0	50,350	94,500
United States .....	4,570	6,260	41.1	57.4	51.4	187,785	321,820

## Rice Area Harvested, Yield, and Production – States and United States: 2022 and Forecasted November 1, 2023

State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2022	2023	2022	2023		2022	2023
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas .....	1,084	1,411	7,410	7,550	7,550	80,340	106,531
California .....	254	511	8,760	8,850	8,900	22,251	45,479
Louisiana .....	415	463	6,660	6,750	6,750	27,649	31,253
Mississippi .....	84	118	7,370	7,450	7,450	6,191	8,791
Missouri .....	149	203	7,940	7,900	7,500	11,832	15,225
Texas .....	186	144	6,510	8,800	8,600	12,105	12,384
United States .....	2,172	2,850	7,383	7,737	7,707	160,368	219,663

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

## Rice Production by Class – United States: 2022 and Forecasted November 1, 2023

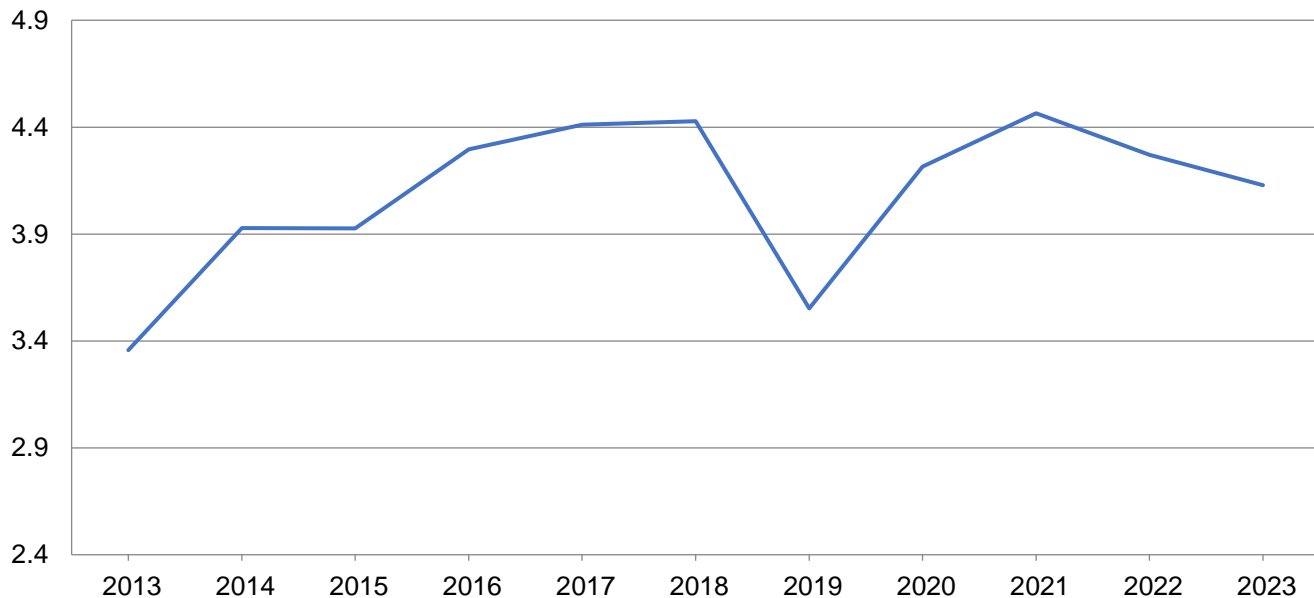
Year	Long grain	Medium grain	Short grain <sup>1</sup>	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2022 .....	128,155	30,017	2,196	160,368
2023 <sup>2</sup> .....	152,064	66,227	1,372	219,663

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

<sup>2</sup> The 2023 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: 2022 and Forecasted November 1, 2023**

State	Area harvested		Yield per acre			Production	
	2022	2023	2022	2023		2022	2023
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama .....	355	345	41.0	41.0	44.0	14,555	15,180
Arkansas .....	3,140	2,950	52.0	53.0	53.0	163,280	156,350
Delaware .....	158	148	43.0	46.0	48.0	6,794	7,104
Georgia .....	158	155	41.0	40.0	41.0	6,478	6,355
Illinois .....	10,750	10,300	63.0	61.0	61.0	677,250	628,300
Indiana .....	5,830	5,480	57.5	61.0	61.0	335,225	334,280
Iowa .....	10,030	9,870	58.5	58.0	58.0	586,755	572,460
Kansas .....	4,720	4,400	27.5	26.0	26.0	129,800	114,400
Kentucky .....	1,940	1,790	51.0	54.0	55.0	98,940	98,450
Louisiana .....	1,210	1,000	47.0	41.0	41.0	56,870	41,000
Maryland .....	510	460	43.0	46.0	47.0	21,930	21,620
Michigan .....	2,240	2,010	47.0	46.0	47.0	105,280	94,470
Minnesota .....	7,390	7,280	50.0	48.0	48.0	369,500	349,440
Mississippi .....	2,290	2,150	54.0	57.0	57.0	123,660	122,550
Missouri .....	6,040	5,550	45.5	45.0	45.0	274,820	249,750
Nebraska .....	5,650	5,200	49.0	54.0	51.0	276,850	265,200
New Jersey .....	108	108	28.0	42.0	45.0	3,024	4,860
New York .....	325	345	45.0	52.0	52.0	14,625	17,940
North Carolina .....	1,680	1,640	38.5	39.0	39.0	64,680	63,960
North Dakota .....	5,670	6,150	35.0	33.0	34.0	198,450	209,100
Ohio .....	5,080	4,730	55.5	57.0	58.0	281,940	274,340
Oklahoma .....	380	420	17.0	20.0	20.0	6,460	8,400
Pennsylvania .....	590	560	43.0	45.0	47.0	25,370	26,320
South Carolina .....	390	380	37.0	36.0	36.0	14,430	13,680
South Dakota .....	5,070	5,050	38.0	43.0	44.0	192,660	222,200
Tennessee .....	1,620	1,570	48.0	50.0	54.0	77,760	84,780
Texas .....	85	110	20.0	32.0	30.0	1,700	3,300
Virginia .....	610	570	41.0	37.0	39.0	25,010	22,230
Wisconsin .....	2,150	2,070	54.0	44.0	49.0	116,100	101,430
United States .....	86,169	82,791	49.6	49.6	49.9	4,270,196	4,129,449



**Peanut Area Harvested, Yield, and Production – States and United States: 2022 and Forecasted November 1, 2023**

State	Area harvested		Yield per acre			Production	
	2022	2023	2022	2023		2022	2023
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama .....	163.0	172.0	3,400	3,000	2,600	554,200	447,200
Arkansas .....	32.0	34.0	5,200	5,000	5,000	166,400	170,000
Florida .....	142.0	151.0	4,050	3,000	3,000	575,100	453,000
Georgia .....	680.0	770.0	4,210	4,300	4,100	2,862,800	3,157,000
Mississippi .....	14.0	18.0	4,500	4,400	4,400	63,000	79,200
New Mexico .....	6.1	10.8	2,530	2,700	2,700	15,433	29,160
North Carolina .....	116.0	123.0	4,370	4,200	4,100	506,920	504,300
Oklahoma .....	17.0	14.0	3,720	4,000	3,900	63,240	54,600
South Carolina .....	68.0	73.0	4,150	4,200	4,100	282,200	299,300
Texas .....	117.0	205.0	2,800	3,300	3,200	327,600	656,000
Virginia .....	28.0	29.0	4,500	4,600	4,600	126,000	133,400
United States .....	1,383.1	1,599.8	4,008	3,905	3,740	5,542,893	5,983,160

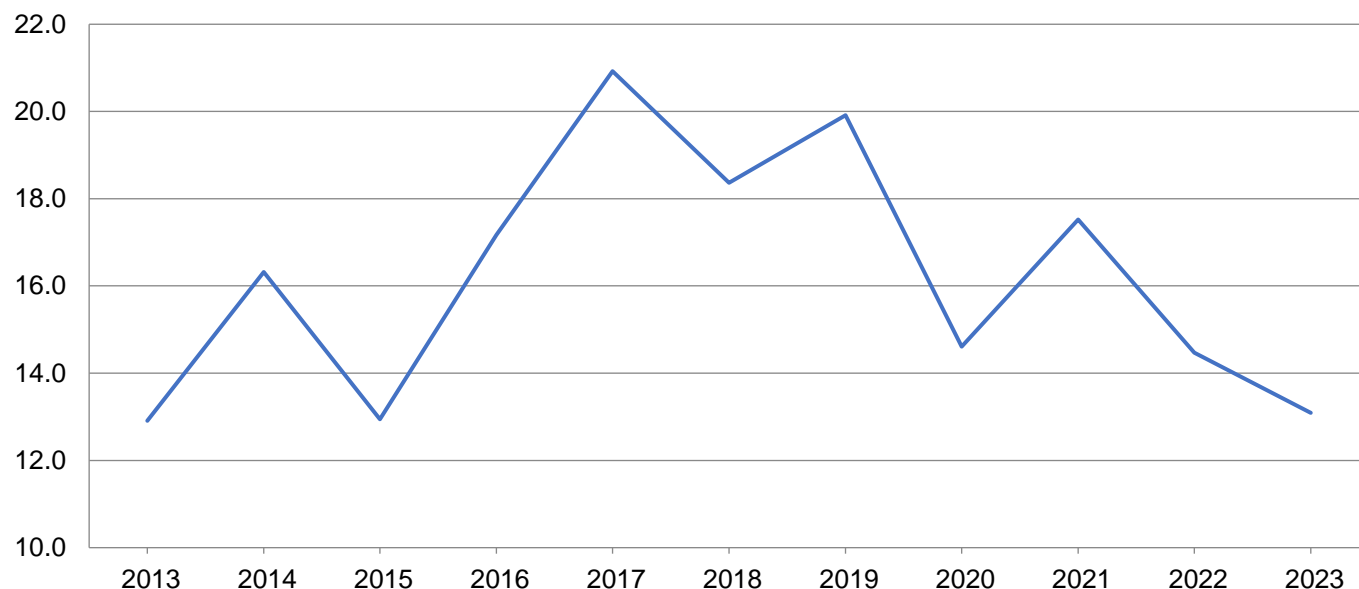
**Cottonseed Production – United States: 2022 and Forecasted November 1, 2023**

State	Production	
	2022	2023 <sup>1</sup>
	(1,000 tons)	(1,000 tons)
United States .....	4,415.0	3,985.0

<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: 2022 and Forecasted November 1, 2023**

Type and State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2022	2023	2022	2023		2022	2023
				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 .....	430.0	375.0	930	870	909	833.0	710.0
Arizona .....	86.0	75.0	1,563	1,280	1,280	280.0	200.0
Arkansas .....	630.0	505.0	1,179	1,188	1,236	1,548.0	1,300.0
California .....	18.5	12.8	1,946	1,575	1,875	75.0	50.0
Florida .....	103.0	87.0	769	552	552	165.0	100.0
Georgia .....	1,270.0	1,100.0	1,002	1,004	1,025	2,650.0	2,350.0
Kansas .....	138.0	88.0	577	900	900	166.0	165.0
Louisiana .....	190.0	115.0	904	918	1,002	358.0	240.0
Mississippi .....	525.0	395.0	1,084	1,082	1,033	1,186.0	850.0
Missouri .....	340.0	330.0	1,240	989	1,229	878.0	845.0
New Mexico .....	30.0	22.0	960	960	1,004	60.0	46.0
North Carolina .....	460.0	370.0	1,049	908	941	1,005.0	725.0
Oklahoma .....	230.0	310.0	634	418	542	304.0	350.0
South Carolina .....	266.0	205.0	911	820	878	505.0	375.0
Tennessee .....	325.0	260.0	1,053	1,071	1,182	713.0	640.0
Texas .....	2,000.0	3,550.0	734	514	487	3,060.0	3,600.0
Virginia .....	90.0	80.0	1,131	1,140	1,140	212.0	190.0
United States .....	7,131.5	7,879.8	942	759	776	13,998.0	12,736.0
<b>American Pima</b>							
Arizona .....	14.4	16.0	933	1,170	1,110	28.0	37.0
California .....	114.0	84.0	1,558	1,417	1,417	370.0	248.0
New Mexico .....	18.8	16.1	715	894	894	28.0	30.0
Texas .....	29.0	25.0	728	749	749	44.0	39.0
United States .....	176.2	141.1	1,280	1,211	1,204	470.0	354.0
<b>All</b>							
Alabama .....	430.0	375.0	930	870	909	833.0	710.0
Arizona .....	100.4	91.0	1,473	1,261	1,250	308.0	237.0
Arkansas .....	630.0	505.0	1,179	1,188	1,236	1,548.0	1,300.0
California .....	132.5	96.8	1,612	1,438	1,478	445.0	298.0
Florida .....	103.0	87.0	769	552	552	165.0	100.0
Georgia .....	1,270.0	1,100.0	1,002	1,004	1,025	2,650.0	2,350.0
Kansas .....	138.0	88.0	577	900	900	166.0	165.0
Louisiana .....	190.0	115.0	904	918	1,002	358.0	240.0
Mississippi .....	525.0	395.0	1,084	1,082	1,033	1,186.0	850.0
Missouri .....	340.0	330.0	1,240	989	1,229	878.0	845.0
New Mexico .....	48.8	38.1	866	932	957	88.0	76.0
North Carolina .....	460.0	370.0	1,049	908	941	1,005.0	725.0
Oklahoma .....	230.0	310.0	634	418	542	304.0	350.0
South Carolina .....	266.0	205.0	911	820	878	505.0	375.0
Tennessee .....	325.0	260.0	1,053	1,071	1,182	713.0	640.0
Texas .....	2,029.0	3,575.0	734	515	489	3,104.0	3,639.0
Virginia .....	90.0	80.0	1,131	1,140	1,140	212.0	190.0
United States .....	7,307.7	8,020.9	950	767	783	14,468.0	13,090.0

<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: 2022 and Forecasted November 1, 2023

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

State	Area harvested		Yield per acre			Production	
	2022	2023	2022	2023		2022	2023
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California <sup>1</sup> .....	17.7	17.6	45.8	45.8	45.8	811	806
Colorado .....	20.5	20.6	28.7	27.3	28.2	588	581
Idaho .....	170.0	173.0	38.1	39.2	39.4	6,477	6,816
Michigan .....	138.0	131.0	28.8	33.4	33.4	3,974	4,375
Minnesota .....	431.0	438.0	25.7	28.5	29.5	11,077	12,921
Montana .....	33.5	23.5	30.5	33.7	33.7	1,022	792
Nebraska .....	39.6	46.0	24.2	28.4	28.5	958	1,311
North Dakota .....	249.0	228.0	26.1	27.7	28.9	6,499	6,589
Oregon .....	7.9	10.4	33.9	36.8	36.8	268	383
Washington .....	2.0	2.0	44.1	44.8	44.8	88	90
Wyoming .....	27.9	28.5	29.1	29.6	29.6	812	844
United States .....	1,137.1	1,118.6	28.6	31.1	31.7	32,574	35,508

<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: 2022 and Forecasted November 1, 2023

State	Area harvested		Yield per acre <sup>1</sup>			Production <sup>1</sup>	
	2022	2023	2022	2023		2022	2023
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida .....	401.9	399.0	44.6	45.5	45.4	17,931	18,115
Louisiana .....	497.1	505.0	32.3	27.7	28.3	16,035	14,292
Texas .....	31.2	19.0	22.6	21.5	22.2	705	422
United States .....	930.2	923.0	37.3	35.2	35.6	34,671	32,829

<sup>1</sup> Net tons.

## Potato Area Planted and Harvested – States and United States: 2022 and 2023

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2022	2023	2022	2023 <sup>1</sup>
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California .....	21.0	21.0	20.9	20.9
Colorado .....	53.0	55.0	52.9	54.8
Florida .....	20.0	21.0	19.7	20.9
Idaho .....	295.0	330.0	294.5	330.0
Maine .....	52.0	53.0	51.9	52.6
Michigan .....	46.0	48.0	45.5	47.5
Minnesota .....	47.0	46.0	46.7	45.5
Nebraska .....	20.0	22.0	19.9	21.9
North Dakota .....	74.0	76.0	72.5	75.0
Oregon .....	43.0	45.0	43.0	45.0
Texas .....	13.0	13.0	12.9	12.7
Washington .....	165.0	165.0	164.5	164.5
Wisconsin .....	67.0	69.0	66.5	68.5
United States .....	916.0	964.0	911.4	959.8

<sup>1</sup> Forecasted.

## Potato Area Harvested, Yield, and Production – States and United States: 2022 and Forecasted November 1, 2023

State	Area harvested		Yield per acre		Production	
	2022	2023	2022	2023	2022	2023
	(1,000 acres)	(1,000 acres)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)
California .....	20.9	20.9	405	460	8,465	9,614
Colorado .....	52.9	54.8	405	390	21,425	21,372
Florida .....	19.7	20.9	255	290	5,024	6,061
Idaho .....	294.5	330.0	410	430	120,745	141,900
Maine .....	51.9	52.6	355	330	18,425	17,358
Michigan .....	45.5	47.5	415	410	18,883	19,475
Minnesota .....	46.7	45.5	410	405	19,147	18,428
Nebraska .....	19.9	21.9	485	505	9,652	11,060
North Dakota .....	72.5	75.0	300	345	21,750	25,875
Oregon .....	43.0	45.0	600	605	25,800	27,225
Texas .....	12.9	12.7	575	385	7,418	4,890
Washington .....	164.5	164.5	580	615	95,410	101,168
Wisconsin .....	66.5	68.5	400	435	26,600	29,798
United States .....	911.4	959.8	438	452	398,744	434,224

## Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2022 and 2023

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2022	2023	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Grains and hay</b>				
Barley .....	2,959	3,101	2,446	2,555
Corn for grain <sup>1</sup> .....	88,589	94,868	79,115	87,096
Corn for silage .....	(NA)		6,844	
Hay, all .....	(NA)	(NA)	49,546	51,976
Alfalfa .....	(NA)	(NA)	14,913	15,658
All other .....	(NA)	(NA)	34,633	36,318
Oats .....	2,581	2,555	890	831
Proso millet .....	637	705	507	
Rice .....	2,222	2,897	2,172	2,850
Rye .....	2,175	2,293	341	322
Sorghum for grain <sup>1</sup> .....	6,325	7,180	4,570	6,260
Sorghum for silage .....	(NA)		525	
Wheat, all .....	45,768	49,575	35,485	37,272
Winter .....	33,281	36,699	23,454	24,683
Durum .....	1,632	1,676	1,581	1,604
Other spring .....	10,855	11,200	10,450	10,985
<b>Oilseeds</b>				
Canola .....	2,213.0	2,351.0	2,168.0	2,301.5
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	263	140	244	132
Mustard seed .....	221.0	240.0	182.0	228.5
Peanuts .....	1,450.3	1,650.0	1,383.1	1,599.8
Rapeseed .....	10.9	15.5	10.4	14.1
Safflower .....	150.2	143.0	135.3	133.5
Soybeans for beans .....	87,450	83,600	86,169	82,791
Sunflower .....	1,693.5	1,322.0	1,605.5	1,262.3
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all .....	13,761.0	10,232.5	7,307.7	8,020.9
Upland .....	13,579.0	10,086.0	7,131.5	7,879.8
American Pima .....	182.0	146.5	176.2	141.1
Sugarbeets .....	1,159.5	1,132.3	1,137.1	1,118.6
Sugarcane .....	(NA)	(NA)	930.2	923.0
Tobacco .....	(NA)	(NA)	201.8	190.6
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	353.1	380.3	341.9	373.2
Dry edible beans .....	1,250.0	1,184.0	1,223.0	1,142.8
Dry edible peas .....	919.0	945.0	862.0	900.0
Lentils .....	660.0	545.0	602.0	508.0
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	59.8	55.0
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		34.0	
Potatoes .....	916.0	964.0	911.4	959.8
Spearmint oil .....	(NA)		13.7	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States:  
2022 and 2023 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year.  
Blank data cells indicate estimation period has not yet begun]

Crop	Yield per acre		Production	
	2022	2023	2022 (1,000)	2023 (1,000)
<b>Grains and hay</b>				
Barley .....bushels	71.6	72.4	175,023	185,036
Corn for grain .....bushels	173.4	174.9	13,714,676	15,234,285
Corn for silage ..... tons	18.7		128,276	
Hay, all ..... tons	2.28	2.36	112,801	122,828
Alfalfa ..... tons	3.22	3.37	47,958	52,735
All other ..... tons	1.87	1.93	64,843	70,093
Oats .....bushels	64.8	68.6	57,655	57,045
Proso millet .....bushels	18.5		9,403	
Rice <sup>2</sup> .....cwt	7,383	7,707	160,368	219,663
Rye .....bushels	36.1	32.2	12,301	10,375
Sorghum for grain .....bushels	41.1	51.4	187,785	321,820
Sorghum for silage ..... tons	10.8		5,662	
Wheat, all .....bushels	46.5	48.6	1,649,713	1,811,977
Winter .....bushels	47.0	50.6	1,103,062	1,247,748
Durum .....bushels	40.5	37.0	63,981	59,329
Other spring .....bushels	46.2	46.0	482,670	504,900
<b>Oilseeds</b>				
Canola ..... pounds	1,762	1,741	3,820,780	4,007,550
Cottonseed ..... tons	(X)	(X)	4,415.0	3,985.0
Flaxseed .....bushels	17.6		4,304	
Mustard seed ..... pounds	557		101,290	
Peanuts ..... pounds	4,008	3,740	5,542,893	5,983,160
Rapeseed ..... pounds	1,863		19,380	
Safflower ..... pounds	1,213		164,054	
Soybeans for beans .....bushels	49.6	49.9	4,270,196	4,129,449
Sunflower ..... pounds	1,751	1,738	2,811,225	2,194,450
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....bales	950	783	14,468.0	13,090.0
Upland <sup>2</sup> .....bales	942	776	13,998.0	12,736.0
American Pima <sup>2</sup> .....bales	1,280	1,204	470.0	354.0
Sugarbeets ..... tons	28.6	31.7	32,574	35,508
Sugarcane ..... tons	37.3	35.6	34,671	32,829
Tobacco ..... pounds	2,217	2,253	447,367	429,445
<b>Dry beans, peas, and lentils</b>				
Chickpeas <sup>2</sup> .....cwt	1,070	1,329	3,658	4,958
Dry edible beans <sup>2</sup> .....cwt	2,113	1,962	25,847	22,425
Dry edible peas <sup>2</sup> .....cwt	1,751	1,909	15,092	17,178
Lentils <sup>2</sup> .....cwt	912	1,124	5,489	5,710
<b>Potatoes and miscellaneous</b>				
Hops ..... pounds	1,694	1,886	101,286.3	103,812.0
Maple syrup ..... gallons	(NA)	(NA)	4,943	4,179
Mushrooms ..... pounds	(NA)	(NA)	702,391	666,647
Peppermint oil ..... pounds	99		3,349	
Potatoes .....cwt	438	452	398,744	434,224
Spearmint oil ..... pounds	120		1,648	

(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: 2022 and 2023

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year.  
Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2022	2023	2022	2023
	(hectares)	(hectares)	(hectares)	(hectares)
<b>Grains and hay</b>				
Barley .....	1,197,480	1,254,940	989,870	1,033,980
Corn for grain <sup>1</sup> .....	35,851,080	38,392,130	32,017,050	35,246,880
Corn for silage .....	(NA)		2,769,700	
Hay, all <sup>2</sup> .....	(NA)	(NA)	20,050,770	21,034,170
Alfalfa .....	(NA)	(NA)	6,035,140	6,336,640
All other .....	(NA)	(NA)	14,015,630	14,697,530
Oats .....	1,044,500	1,033,980	360,170	336,300
Proso millet .....	257,790	285,310	205,180	
Rice .....	899,220	1,172,390	878,990	1,153,370
Rye .....	880,200	927,950	138,000	130,310
Sorghum for grain <sup>1</sup> .....	2,559,660	2,905,670	1,849,430	2,533,360
Sorghum for silage .....	(NA)		212,460	
Wheat, all <sup>2</sup> .....	18,521,850	20,062,510	14,360,420	15,083,610
Winter .....	13,468,490	14,851,720	9,491,600	9,988,960
Durum .....	660,450	678,260	639,810	649,120
Other spring .....	4,392,910	4,532,530	4,229,010	4,445,520
<b>Oilseeds</b>				
Canola .....	895,580	951,430	877,370	931,390
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	106,430	56,660	98,740	53,420
Mustard seed .....	89,440	97,130	73,650	92,470
Peanuts .....	586,920	667,740	559,730	647,420
Rapeseed .....	4,410	6,270	4,210	5,710
Safflower .....	60,780	57,870	54,750	54,030
Soybeans for beans .....	35,390,140	33,832,080	34,871,730	33,504,690
Sunflower .....	685,340	535,000	649,730	510,840
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	5,568,940	4,140,990	2,957,350	3,245,980
Upland .....	5,495,290	4,081,700	2,886,050	3,188,880
American Pima .....	73,650	59,290	71,310	57,100
Sugarbeets .....	469,240	458,230	460,170	452,690
Sugarcane .....	(NA)	(NA)	376,440	373,530
Tobacco .....	(NA)	(NA)	81,650	77,130
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	142,900	153,900	138,360	151,030
Dry edible beans .....	505,860	479,150	494,940	462,480
Dry edible peas .....	371,910	382,430	348,840	364,220
Lentils .....	267,100	220,560	243,620	205,580
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	24,190	22,270
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		13,760	
Potatoes .....	370,700	390,120	368,830	388,420
Spearmint oil .....	(NA)		5,540	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States:  
2022 and 2023 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per hectare		Production	
	2022	2023	2022	2023
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
<b>Grains and hay</b>				
Barley .....	3.85	3.90	3,810,680	4,028,680
Corn for grain .....	10.88	10.98	348,368,820	386,968,660
Corn for silage .....	42.02		116,370,030	
Hay, all <sup>2</sup> .....	5.10	5.30	102,331,350	111,427,690
Alfalfa .....	7.21	7.55	43,506,770	47,840,390
All other .....	4.20	4.33	58,824,580	63,587,300
Oats .....	2.32	2.46	836,860	828,010
Proso millet .....	1.04		213,260	
Rice .....	8.28	8.64	7,274,170	9,963,750
Rye .....	2.26	2.02	312,460	263,540
Sorghum for grain .....	2.58	3.23	4,769,960	8,174,600
Sorghum for silage .....	24.18		5,136,480	
Wheat, all <sup>2</sup> .....	3.13	3.27	44,897,830	49,313,930
Winter .....	3.16	3.40	30,020,430	33,958,140
Durum .....	2.72	2.49	1,741,280	1,614,670
Other spring .....	3.11	3.09	13,136,120	13,741,130
<b>Oilseeds</b>				
Canola .....	1.98	1.95	1,733,080	1,817,790
Cottonseed .....	(X)	(X)	4,005,220	3,615,130
Flaxseed .....	1.11		109,330	
Mustard seed .....	0.62		45,940	
Peanuts .....	4.49	4.19	2,514,210	2,713,920
Rapeseed .....	2.09		8,790	
Safflower .....	1.36		74,410	
Soybeans for beans .....	3.33	3.35	116,215,690	112,385,180
Sunflower .....	1.96	1.95	1,275,150	995,390
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	1.07	0.88	3,150,040	2,850,010
Upland .....	1.06	0.87	3,047,710	2,772,940
American Pima .....	1.44	1.35	102,330	77,070
Sugarbeets .....	64.22	71.16	29,550,640	32,212,320
Sugarcane .....	83.55	79.73	31,453,000	29,781,970
Tobacco .....	2.49	2.53	202,920	194,790
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	1.20	1.49	165,920	224,890
Dry edible beans .....	2.37	2.20	1,172,400	1,017,180
Dry edible peas .....	1.96	2.14	684,560	779,180
Lentils .....	1.02	1.26	248,980	259,000
<b>Potatoes and miscellaneous</b>				
Hops .....	1.90	2.11	45,940	47,090
Maple syrup .....	(NA)	(NA)	24,720	20,900
Mushrooms .....	(NA)	(NA)	318,600	302,390
Peppermint oil .....	0.11		1,520	
Potatoes .....	49.04	50.71	18,086,720	19,696,070
Spearmint oil .....	0.13		750	

(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: 2023 and 2024

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2022 crop year, except citrus which is for the 2022-2023 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2023	2024
<b>Citrus <sup>1</sup></b>		
Grapefruit ..... 1,000 tons	327	309
Lemons ..... 1,000 tons	1,116	980
Oranges ..... 1,000 tons	2,487	2,737
Tangerines and mandarins ..... 1,000 tons	971	944
<b>Noncitrus</b>		
Apples, commercial ..... million pounds	9,910.0	
Apricots ..... tons	32,400	
Avocados ..... tons		
Blueberries, Cultivated ..... 1,000 pounds		
Blueberries, Wild (Maine) ..... 1,000 pounds		
Cherries, Sweet ..... tons	371,000	
Cherries, Tart ..... million pounds	203.0	
Coffee (Hawaii) ..... 1,000 pounds		
Cranberries ..... barrel	7,620,000	
Dates ..... tons		
Grapes ..... tons	6,285,000	
Kiwifruit (California) ..... tons		
Nectarines (California) ..... tons		
Olives (California) ..... tons		
Papayas (Hawaii) ..... 1,000 pounds		
Peaches ..... tons	543,000	
Pears ..... tons	645,000	
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	2,600,000	
Hazelnuts, in-shell (Oregon) ..... tons		
Macadamias (Hawaii) ..... 1,000 pounds		
Pecans, in-shell ..... 1,000 pounds	248,000	
Pistachios (California) ..... 1,000 pounds		
Walnuts, in-shell (California) ..... tons	760,000	

<sup>1</sup> Production years are 2022-2023 and 2023-2024.

## Fruits and Nuts Production in Metric Units – United States: 2023 and 2024

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2022 crop year, except citrus which is for the 2022-2023 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2023	2024
	(metric tons)	(metric tons)
<b>Citrus <sup>1</sup></b>		
Grapefruit .....	296,650	280,320
Lemons .....	1,012,420	889,040
Oranges .....	2,256,170	2,482,960
Tangerines and mandarins .....	880,880	856,380
<b>Noncitrus</b>		
Apples, commercial .....	4,495,100	
Apricots .....	29,390	
Avocados .....		
Blueberries, Cultivated .....		
Blueberries, Wild (Maine) .....		
Cherries, Sweet .....	336,570	
Cherries, Tart .....	92,080	
Coffee (Hawaii) .....		
Cranberries .....	345,640	
Dates .....		
Grapes .....	5,701,660	
Kiwifruit (California) .....		
Nectarines (California) .....		
Olives (California) .....		
Papayas (Hawaii) .....		
Peaches .....	492,600	
Pears .....	585,130	
Plums (California) .....		
Prunes (California) .....		
Raspberries, all .....		
Strawberries .....		
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) .....	1,179,340	
Hazelnuts, in-shell (Oregon) .....		
Macadamias (Hawaii) .....		
Pecans, in-shell .....	112,490	
Pistachios (California) .....		
Walnuts, in-shell (California) .....	689,460	

<sup>1</sup> Production years are 2022-2023 and 2023-2024.

## Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2023. 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: 2019-2023

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

State and month	2019	2020	2021	2022	2023	State and month	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	31,100	30,600	31,550	32,050	32,550	All corn					
October .....	30,950	30,400	31,550	32,500	32,450	September ....	25,850	27,450	26,750	26,450	26,600
November .....	30,900	30,400	31,500	32,450	32,400	October .....	25,850	27,450	26,650	26,250	26,700
Final .....	30,900	30,400	31,500	32,450		November .....	25,700	27,400	26,650	26,200	26,650
						Final .....	25,700	27,400	26,650	26,200	
<b>Indiana</b>						Irrigated					
September .....	29,300	29,850	29,700	29,050	31,000	September ....	28,300	29,950	29,350	29,000	29,650
October .....	29,050	29,800	29,650	28,550	30,800	October .....	28,350	30,100	29,300	28,950	29,600
November .....	29,000	29,850	29,750	28,600	31,100	November .....	28,300	30,100	29,300	28,850	29,550
Final .....	28,950	29,850	29,750	28,600		Final .....	28,300	30,100	29,300	28,850	
<b>Iowa</b>						Non-irrigated					
September .....	30,850	31,050	31,850	31,750	32,250	September ....	23,300	24,950	24,050	23,850	23,450
October .....	30,800	31,000	31,850	31,550	31,900	October .....	23,250	24,750	24,000	23,500	23,650
November .....	30,750	31,050	31,800	31,600	31,950	November .....	23,000	24,700	23,950	23,500	23,700
Final .....	30,750	31,050	31,800	31,600		Final .....	23,000	24,700	23,950	23,500	
<b>Kansas</b>						<b>Ohio</b>					
September .....	21,350	21,700	22,050	22,600	23,800	September .....	30,050	29,800	30,400	29,400	30,050
October .....	21,200	21,650	21,550	23,200	23,400	October .....	30,100	29,900	30,050	29,350	29,900
November .....	21,200	21,650	21,800	23,350	23,600	November .....	30,000	29,900	30,050	29,700	29,650
Final .....	21,200	21,650	21,800	23,350		Final .....	30,000	29,850	30,050	29,700	
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,700	31,750	30,750	31,300	31,300	September .....	26,400	25,450	26,150	26,400	26,050
October .....	30,650	31,800	30,700	31,250	31,450	October .....	26,100	25,400	26,100	26,200	26,150
November .....	30,550	31,800	30,700	31,300	31,450	November .....	26,000	25,550	25,750	25,900	26,100
Final .....	30,650	31,800	30,700	31,300		Final .....	25,900	25,550	25,750	25,900	
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	28,200	28,200	27,250	27,500	27,350	September .....	30,250	30,300	29,900	30,700	30,300
October .....	27,500	28,150	27,400	27,100	27,300	October .....	30,150	30,400	29,550	30,300	29,900
November .....	27,600	28,200	27,350	27,200	27,400	November .....	29,750	30,300	29,400	30,200	30,050
Final .....	27,600	28,200	27,350	27,200		Final .....	29,850	30,300	29,400	30,200	
						<b>10 State</b>					
						September .....	28,650	29,000	29,100	29,250	29,650
						October .....	28,500	28,950	29,000	29,200	29,500
						November .....	28,450	28,950	29,000	29,200	29,550
						Final .....	28,450	28,950	29,000	29,200	

## Corn for Grain Number of Ears per Acre – Selected States: 2019-2023

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

State and month	2019	2020	2021	2022	2023	State and month	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	30,300	29,900	31,100	31,500	32,250	All corn					
October .....	30,300	29,800	31,050	31,850	32,050	September ...	25,850	26,800	26,650	25,850	26,300
November .....	30,150	29,800	31,050	31,800	32,000	October .....	25,950	26,850	26,950	25,000	26,700
Final .....	30,150	29,800	31,050	31,800		November ....	25,700	26,750	26,800	24,950	26,600
						Final .....	25,700	26,750	26,800	24,950	
<b>Indiana</b>						<b>Irrigated</b>					
September .....	28,900	29,600	29,700	28,700	30,700	September ...	28,200	28,900	29,000	28,900	29,350
October .....	28,700	29,600	29,750	28,400	30,950	October .....	28,150	28,850	29,600	28,350	29,800
November .....	28,650	29,600	29,900	28,500	30,950	November ....	28,000	28,800	29,500	28,300	29,700
Final .....	28,600	29,600	29,900	28,500		Final .....	28,000	28,800	29,500	28,300	
<b>Iowa</b>						<b>Non-irrigated</b>					
September .....	30,250	30,600	31,750	30,850	32,050	September ...	23,500	24,650	24,250	22,700	23,150
October .....	30,200	30,450	31,800	30,800	31,700	October .....	23,700	24,800	24,200	21,600	23,500
November .....	30,100	30,550	31,800	30,800	31,750	November ....	23,400	24,700	24,050	21,600	23,450
Final .....	30,100	30,550	31,800	30,800		Final .....	23,400	24,700	24,050	21,600	
<b>Kansas</b>						<b>Ohio</b>					
September .....	21,550	22,050	22,250	22,800	23,500	September ....	29,850	29,350	30,650	29,250	29,850
October .....	22,250	21,250	21,450	22,300	22,800	October .....	29,750	29,700	30,350	29,250	30,400
November .....	22,200	21,250	21,700	22,100	23,150	November .....	29,550	29,700	30,350	29,550	29,950
Final .....	22,200	21,250	21,700	22,100		Final .....	29,550	29,650	30,350	29,500	
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,050	31,750	30,800	31,200	31,350	September ....	26,450	25,550	26,250	25,300	25,900
October .....	29,800	31,850	30,650	31,450	31,300	October .....	25,300	25,550	26,150	24,700	25,950
November .....	29,650	31,850	30,600	31,450	31,300	November ....	25,000	25,700	25,400	24,250	26,150
Final .....	29,700	31,850	30,600	31,450		Final .....	24,900	25,700	25,400	24,250	
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	26,950	27,650	26,900	26,300	26,500	September ....	29,850	30,050	30,100	29,900	30,450
October .....	26,950	27,600	26,950	26,200	26,300	October .....	30,250	30,400	29,500	29,550	30,200
November .....	27,100	27,650	26,950	26,300	26,350	November ....	29,850	30,350	29,400	29,400	30,200
Final .....	27,100	27,650	26,950	26,300		Final .....	29,950	30,350	29,400	29,400	
						<b>10-State</b>					
						September ....	28,200	28,650	29,050	28,650	29,400
						October .....	28,200	28,600	28,950	28,500	29,350
						November ....	28,050	28,600	28,850	28,450	29,350
						Final .....	28,050	28,600	28,850	28,450	

## Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2019-2023

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

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)
2019 .....	49	29	1	94
2020 .....	25	68	(Z)	96
2021 .....	22	69	(Z)	94
2022 .....	38	50	(Z)	94
2023 .....	26	60	1	95

(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: 2019-2023

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 .....						
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
2022	-	-	1.6	6.5	14.6	77.3
2023	0.8	0.8	2.3	2.3	15.6	78.2
Indiana .....						
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
2022	3.7	5.6	7.4	14.8	22.2	46.3
2023	-	1.5	1.5	11.9	20.9	64.2
Iowa .....						
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
2022	0.7	0.7	0.7	3.3	17.6	77.0
2023	0.7	-	0.7	8.1	16.8	73.7
Kansas .....						
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
2022	19.2	9.6	20.5	11.0	20.5	19.2
2023	13.8	13.8	20.0	12.5	26.1	13.8
Minnesota .....						
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
2022	1.8	2.6	1.8	7.0	14.9	71.9
2023	2.0	2.9	2.9	10.8	9.8	71.6
Missouri .....						
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
2022	6.4	9.0	17.9	10.3	28.2	28.2
2023	7.6	5.1	16.5	8.9	35.3	26.6
Nebraska .....						
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
2022	7.0	13.2	10.9	16.3	26.2	26.4
2023	11.7	10.8	5.0	17.5	26.7	28.3
Ohio .....						
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
2022	2.4	3.5	3.5	15.3	28.2	47.1
2023	2.9	6.9	7.8	11.8	17.6	53.0
South Dakota .....						
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
2022	8.3	12.5	18.8	27.0	16.7	16.7
2023	10.0	10.0	18.0	18.0	20.0	24.0
Wisconsin .....						
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
2022	4.2	4.2	-	14.1	16.9	60.6
2023	-	1.4	5.7	17.1	21.4	54.4

- Represents zero.

## Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2019-2023

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois .....2019	2	110	1	-	-
.....2020	8	148	2	-	-
.....2021	3	127	-	-	-
.....2022	1	126	2	-	-
.....2023	8	124	1	-	-
Indiana .....2019	4	53	1	-	-
.....2020	2	79	1	-	-
.....2021	1	63	-	-	-
.....2022	1	57	-	-	-
.....2023	2	69	-	-	-
Iowa .....2019	3	136	-	1	-
.....2020	9	140	5	3	-
.....2021	4	126	2	-	-
.....2022	6	149	-	-	-
.....2023	5	145	1	-	-
Kansas .....2019	9	70	-	-	-
.....2020	2	110	-	-	-
.....2021	14	91	-	-	-
.....2022	4	85	-	-	-
.....2023	3	91	-	-	1
Minnesota .....2019	15	63	3	1	-
.....2020	25	109	-	1	-
.....2021	22	73	-	1	-
.....2022	17	99	1	-	-
.....2023	24	76	2	1	-
Missouri .....2019	5	30	1	2	-
.....2020	7	99	-	5	-
.....2021	2	72	1	5	-
.....2022	5	69	1	4	-
.....2023	1	73	3	1	-
Nebraska .....2019	3	98	15	-	-
.....2020	2	138	15	-	-
.....2021	-	108	20	-	-
.....2022	1	134	14	-	-
.....2023	2	119	12	1	-
Ohio .....2019	2	45	1	-	-
.....2020	5	113	-	-	-
.....2021	3	83	1	-	-
.....2022	5	86	-	-	-
.....2023	5	96	1	1	-
South Dakota .....2019	5	45	-	1	-
.....2020	11	62	2	2	-
.....2021	3	55	2	-	-
.....2022	6	45	1	-	-
.....2023	3	51	1	1	-
Wisconsin .....2019	1	39	-	-	-
.....2020	3	78	1	2	-
.....2021	2	71	2	2	-
.....2022	2	72	1	1	-
.....2023	2	70	5	-	-

- Represents zero.

**Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2019-2023**

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 .....	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
	2022	123	-	82.1	16.3	1.6	-	-	30.1
	2023	128	3.1	83.6	13.3	-	-	-	29.8
Indiana .....	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
	2022	54	0.0	72.2	27.8	-	-	-	30.3
	2023	67	1.5	71.6	26.9	-	-	-	30.0
Iowa .....	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
	2022	153	2.6	78.4	19.0	-	-	-	29.9
	2023	149	1.3	75.8	21.5	0.7	0.7	-	30.1
Kansas .....	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
	2022	73	4.1	78.1	17.8	-	-	-	29.5
	2023	80	2.5	81.2	12.5	2.5	1.3	-	29.9
Minnesota .....	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
	2022	114	-	83.3	15.8	0.9	-	-	29.2
	2023	102	4.9	82.3	10.8	1.0	-	1.0	28.5
Missouri .....	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
	2022	78	3.8	69.2	19.2	2.6	2.6	2.6	30.8
	2023	79	1.3	81.0	12.7	2.5	2.5	-	30.4
Nebraska .....	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
	2022	129	0.8	65.8	24.0	7.8	1.6	-	30.8
	2023	120	-	68.3	21.7	5.0	5.0	-	30.8
Ohio .....	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
	2022	85	4.7	87.1	8.2	-	-	-	29.7
	2023	102	3.9	77.4	16.7	1.0	1.0	-	29.9
South Dakota .....	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
	2022	48	6.3	79.1	10.4	2.1	2.1	-	29.3
	2023	50	4.0	64.0	28.0	2.0	2.0	-	30.1
Wisconsin .....	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
	2022	71	-	63.4	31.0	2.8	1.4	1.4	30.6
	2023	70	-	72.8	24.3	2.9	-	-	30.3

- Represents zero.

## Cotton Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in 4 cotton-producing States during 2023. 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: 2019-2023

[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	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>					
September .....	900	994	990	811	795
October .....	896	849	838	799	877
November .....	925	820	809	799	888
December .....	900	820	807	799	
Final .....	900	820	807	799	
<b>Georgia</b>					
September .....	598	606	597	605	581
October .....	783	747	658	648	660
November .....	790	761	669	705	706
December .....	799	784	694	721	
Final .....	803	785	694	721	
<b>Mississippi</b>					
September .....	944	900	957	804	828
October .....	895	867	807	814	863
November .....	904	877	848	830	849
December .....	901	875	849	828	
Final .....	901	875	851	828	
<b>Texas</b>					
September .....	458	576	491	583	416
October .....	438	581	512	615	422
November .....	456	595	538	629	462
December .....	459	608	539	640	
Final .....	461	608	539	643	
<b>4-State</b>					
September .....	551	645	567	641	513
October .....	562	661	573	668	543
November .....	579	671	595	692	578
December .....	580	683	599	701	
Final .....	593	693	597	708	



## Soybean Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 11 soybean-producing States during 2023. 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: 2019-2023

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

State and month	2019	2020	2021	2022	2023	State and month	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>						<b>Missouri</b>					
September .....	1,759	1,630	1,449	1,721	2,043	September .....	1,719	1,977	1,925	1,736	2,099
October .....	1,731	1,527	1,501	1,746	1,844	October .....	1,754	2,093	1,886	1,606	1,991
November .....	1,717	1,459	1,583	1,711	1,856	November .....	1,898	2,036	2,047	1,880	2,062
Final .....	1,828	1,418	1,623	1,711		Final .....	1,921	2,041	2,121	1,875	
<b>Illinois</b>						<b>Nebraska</b>					
September .....	1,696	2,019	2,080	1,896	1,952	September .....	1,669	1,943	1,887	1,592	1,644
October .....	1,683	2,127	2,120	1,888	2,085	October .....	1,777	2,002	2,069	1,597	1,678
November .....	1,601	2,170	2,222	2,010	2,121	November .....	1,722	1,980	2,148	1,586	1,709
Final .....	1,603	2,170	2,227	2,011		Final .....	1,722	1,980	2,148	1,586	
<b>Indiana</b>						<b>North Dakota</b>					
September .....	1,496	2,056	1,846	1,655	1,927	September .....	1,147	1,242	1,055	1,281	1,250
October .....	1,501	1,994	1,811	1,749	1,998	October .....	1,246	1,439	1,014	1,298	1,203
November .....	1,569	1,963	1,822	1,763	1,962	November .....	1,253	1,442	1,009	1,357	1,408
Final .....	1,561	1,959	1,836	1,773		Final .....	1,195	1,442	1,009	1,357	
<b>Iowa</b>						<b>Ohio</b>					
September .....	1,601	1,675	1,732	1,585	1,814	September .....	1,563	1,811	2,060	1,798	1,847
October .....	1,642	1,933	1,800	1,653	1,997	October .....	1,760	1,972	1,989	1,890	2,003
November .....	1,660	1,927	1,894	1,785	2,071	November .....	1,587	1,983	2,074	1,788	2,030
Final .....	1,682	1,927	1,890	1,780		Final .....	1,587	1,981	2,116	1,780	
<b>Kansas</b>						<b>South Dakota</b>					
September .....	1,561	1,650	1,404	1,456	1,500	September .....	1,504	1,688	1,626	1,258	1,520
October .....	1,604	1,699	1,480	1,400	1,372	October .....	1,316	1,720	1,526	1,291	1,552
November .....	1,596	1,629	1,551	1,392	1,500	November .....	1,331	1,696	1,512	1,305	1,644
Final .....	1,583	1,629	1,514	1,391		Final .....	1,353	1,696	1,522	1,305	
<b>Minnesota</b>						<b>11-State</b>					
September .....	1,465	1,607	1,603	1,468	1,648	September .....	1,561	1,780	1,717	1,604	1,755
October .....	1,474	1,782	1,545	1,581	1,695	October .....	1,593	1,882	1,725	1,628	1,799
November .....	1,458	1,751	1,557	1,610	1,687	November .....	1,582	1,866	1,788	1,690	1,856
Final .....	1,458	1,751	1,557	1,610		Final .....	1,586	1,865	1,798	1,689	

## Soybean Frequency of Farmer Reported Row Widths – Selected States: 2019-2023

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 .....2019	-	14	13	21	25
.....2020	5	14	14	36	49
.....2021	2	13	16	29	42
.....2022	6	18	15	31	44
.....2023	2	10	10	51	44
Illinois .....2019	2	5	82	33	1
.....2020	-	11	91	44	-
.....2021	2	7	80	38	-
.....2022	3	3	93	44	1
.....2023	3	7	84	39	-
Indiana .....2019	-	5	57	9	1
.....2020	1	11	87	8	-
.....2021	1	14	60	8	-
.....2022	-	11	56	6	-
.....2023	-	11	68	11	-
Iowa .....2019	1	9	51	66	-
.....2020	1	8	63	85	3
.....2021	2	3	61	69	1
.....2022	-	4	74	71	1
.....2023	-	3	65	74	-
Kansas .....2019	-	10	23	16	-
.....2020	1	9	19	27	-
.....2021	1	12	15	16	1
.....2022	1	5	24	19	-
.....2023	1	6	18	21	-
Minnesota .....2019	3	5	26	28	1
.....2020	3	5	35	51	1
.....2021	1	2	22	38	-
.....2022	1	3	30	42	-
.....2023	-	3	18	40	-
Missouri .....2019	1	5	38	10	1
.....2020	-	13	63	20	11
.....2021	1	6	48	21	5
.....2022	-	7	60	16	6
.....2023	4	8	64	8	6
Nebraska .....2019	-	6	37	49	5
.....2020	-	8	39	58	1
.....2021	1	9	31	50	4
.....2022	2	5	25	52	7
.....2023	-	9	33	48	2

See footnote(s) at end of table.

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**Soybean Frequency of Farmer Reported Row Widths – Selected States: 2019-2023 (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 ..... 2019	3	11	28	6	-
..... 2020	7	27	48	11	-
..... 2021	-	16	55	13	-
..... 2022	6	24	47	15	-
..... 2023	1	26	41	14	-
Ohio ..... 2019	2	11	42	1	-
..... 2020	3	30	82	5	-
..... 2021	2	21	64	3	1
..... 2022	7	25	71	5	1
..... 2023	2	13	82	8	-
South Dakota ..... 2019	4	-	18	30	-
..... 2020	-	-	43	44	-
..... 2021	-	3	26	38	-
..... 2022	-	4	22	47	1
..... 2023	1	5	27	37	1

- Represents zero.

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

**Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2019-2023**

Year	October	November
	Mature <sup>1</sup>	Mature <sup>1</sup>
	(percent)	(percent)
2019 .....	25	91
2020 .....	64	94
2021 .....	61	92
2022 .....	42	90
2023 .....	51	91

<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: 2019-2023**

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 .....	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
	2022	113	13.3	14.6	2.7	25.7	43.7	28.3
	2023	118	10.6	5.5	4.2	39.9	39.8	30.4
Illinois .....	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
	2022	144	1.0	55.8	13.9	27.9	1.4	20.3
	2023	131	3.8	52.4	13.7	29.0	1.1	20.6
Indiana .....	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
	2022	71	9.2	71.6	12.1	7.1	-	16.0
	2023	88	6.3	73.1	10.9	9.7	-	16.9
Iowa .....	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
	2022	153	2.9	39.9	8.2	49.0	-	23.0
	2023	143	2.1	39.5	10.8	47.6	-	22.9
Kansas .....	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
	2022	48	9.4	44.7	4.2	41.7	-	20.9
	2023	42	-	44.2	14.0	39.5	2.3	22.1
Minnesota .....	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
	2022	77	2.6	20.1	21.4	55.9	-	24.8
	2023	60	4.2	17.5	20.0	57.5	0.8	25.2
Missouri .....	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
	2022	90	6.7	59.9	8.9	17.8	6.7	19.5
	2023	95	8.4	60.5	7.4	18.4	5.3	19.0
Nebraska .....	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
	2022	87	6.9	21.8	4.6	59.8	6.9	25.9
	2023	90	5.0	26.8	14.5	48.7	5.0	24.2

See footnote(s) at end of table.

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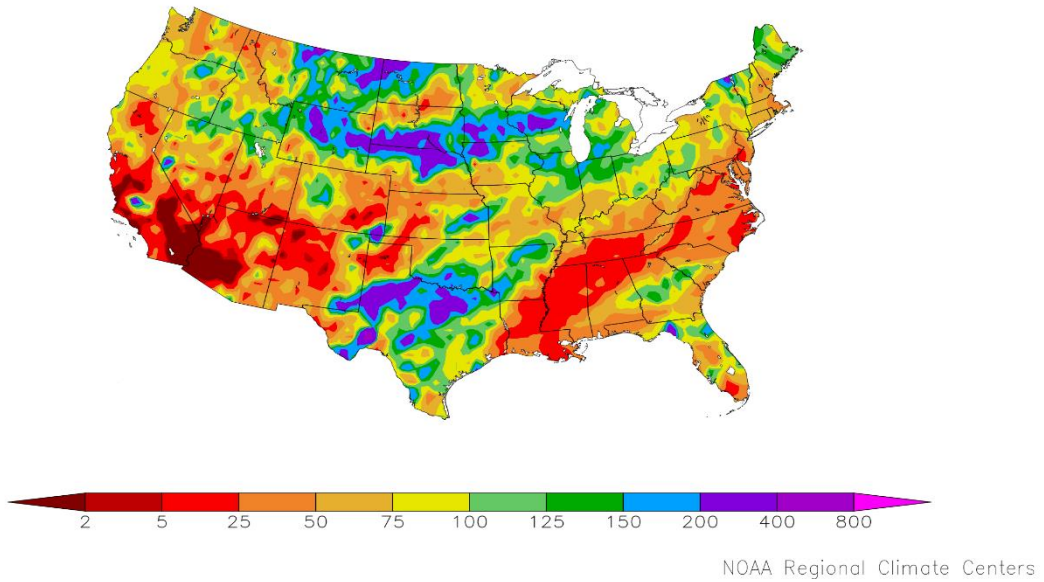
**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:  
2019-2023 (continued)**

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 .....	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
	2022	95	23.2	47.3	12.6	15.3	1.6	16.9
	2023	81	21.7	41.7	21.1	15.5	-	17.2
Ohio .....	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
	2022	107	19.6	72.5	2.8	4.2	0.9	14.7
	2023	105	11.9	75.7	6.7	5.7	-	15.7
South Dakota .....	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	14.8	33.6	46.2	2.3	24.4
	2022	74	2.0	14.9	22.3	59.4	1.4	25.7
	2023	71	2.8	16.2	23.2	55.7	2.1	25.3

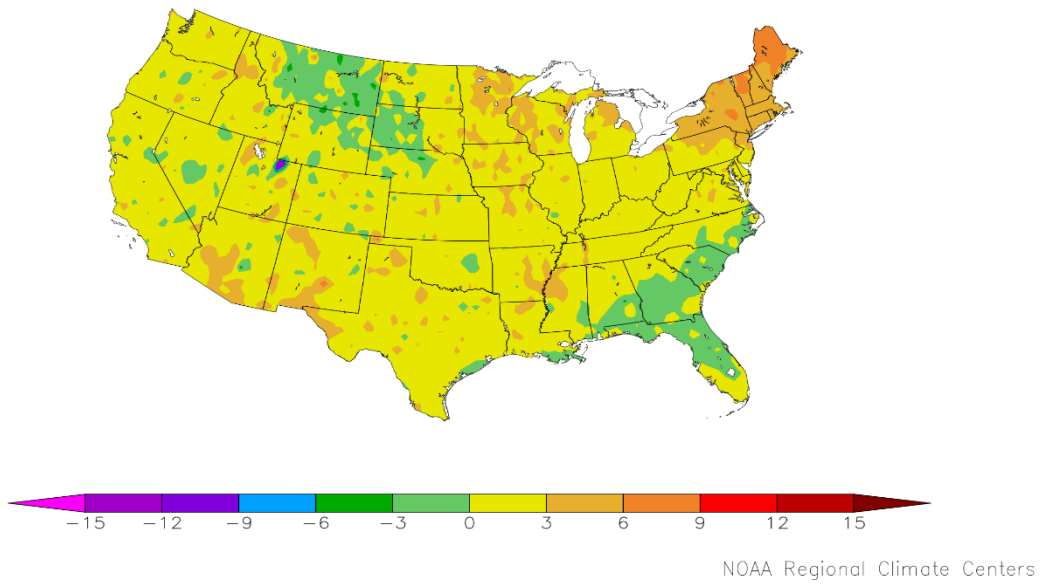
- Represents zero.

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

Percent of Normal Precipitation (%)  
10/1/2023 – 10/31/2023



Departure from Normal Temperature (F)  
10/1/2023 – 10/31/2023



## October Weather Summary

Much of October was quite warm, with temperatures averaging more than 5°F above normal in parts of northern New England, although dramatic, late-month changes led to cold air overspreading much of the country. Despite the sudden transition to colder conditions and freezes into the Deep South, there were relatively few agricultural impacts, as most summer crops were either fully mature or had already been harvested. For example, 85 percent of the Nation's soybeans had been harvested by October 29, along with 71 percent of the corn. Both harvest numbers were ahead of the respective 5-year averages of 78 and 66 percent. Parts of the central and northwestern United States received late-month snow, with mixed effects. In areas where the heaviest snow fell and the coldest weather occurred, mainly from Montana into North Dakota, there was a temporary increase in livestock stress. However, the snow—which also blanketed portions of the central High Plains and upper Midwest—provided moisture and insulation for emerging winter wheat. By October 29, nearly one-half (47 percent) of the Nation's winter wheat was rated in good to excellent condition, a significant improvement from last year's value of 28 percent—and wheat's best start to the autumn growing season since 2019.

For most of the month, drier-than-normal weather dominated the southern half of the United States. In fact, negligible precipitation fell in numerous Southeastern communities that typically receive 3 to 4 inches of October rainfall. The list of places receiving October rainfall totaling less than 0.50 inch included many observation sites in Alabama (Birmingham, Huntsville, Muscle Shoals, and Tuscaloosa), Mississippi (Greenwood, Jackson, Tupelo, and Vicksburg), and Tennessee (Chattanooga and Crossville). By October 29, more than 60 percent of the rangeland and pastures were rated in very poor to poor condition in Texas, Louisiana, Mississippi, and Alabama, with freezes in early November burning back grass growth that had already been curtailed by drought.

Late in the month, however, a tropically enhanced plume of moisture spreading northward in advance of a cold front led to a band of significant rainfall from Texas into portions of the Great Lakes States. The front entrained moisture associated with the terrain-shredded remnants of eastern Pacific Hurricanes Norma and Otis—both of which made landfall in Mexico. Earlier in the month, two other tropical cyclones—Tropical Storm Max and Hurricane Lidia—had also made landfall (on October 9 and 10, respectively) on the Pacific Coast of Mexico, with residual tropical moisture eventually reaching parts of the southern United States, from southern Texas to the southern Atlantic Coast.

In part due to tropical activity in the Pacific Ocean and corresponding rainfall in the United States, drought coverage in the Lower 48 States decreased from 40.06 to 36.53 percent during the 4-week period ending October 31, according to the *Drought Monitor*. However, improving conditions in the North and from Texas into the Midwest were nearly offset by modest deterioration in the Southwest and rapidly worsening drought in the Southeast. At the end of October, extreme to exceptional drought (D3 to D4) covered nearly 88 percent of Louisiana and 77 percent of Mississippi. Additionally, D3 to D4 was noted across 41 percent of the landscape in Tennessee, along with 37 percent in New Mexico, 29 percent in Alabama, 24 percent in Iowa, and 11 percent in Nebraska and Texas.

Despite October precipitation, lingering impacts of drought were apparent in rangeland and pasture conditions across parts of the central Plains, Midwest, and Northwest, with at least one-half rated in very poor to poor condition on October 29 in Washington (69 percent), Kansas (55 percent), Missouri (52 percent), Minnesota (52 percent), and Oregon (50 percent). Conversely, rangeland and pastures were rated at least one-half good to excellent on that date in several areas, including Florida (50 percent); seven states from Nevada to the northern Plains, led by Wyoming (72 percent); and nine states from the Ohio Valley into New England.

## October Agricultural Summary

October was warmer than normal for most of the Nation. Parts of the Northeast recorded temperatures 6°F or more above normal for the month. In contrast, parts of the Northern Plains, Northern Rockies, and Southeast were moderately cooler than normal. While much of the Nation remained drier than normal for the month, parts of the upper Midwest, Great Plains, and Northern Rockies recorded at least twice the normal amount of precipitation. Parts of Texas recorded 10 inches of rain or more for the month.

Eighty-two percent of the Nation's corn acreage was mature by October 1, nine percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Twenty-three percent of the 2023 corn acreage was harvested by week's end, 4 percentage points ahead of last year and 2 percentage points ahead of the 5-year average harvest pace. Ninety-five percent of the Nation's corn acreage was mature by October 15, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Forty-five percent of the 2023 corn acreage was harvested by week's end, 2 percentage points ahead of last year and 3 percentage points ahead of the 5-year average harvest pace. On October 15, fifty-three percent of the Nation's corn acreage was rated in good to excellent condition, equal to the same time last year. Seventy-one percent of the 2023 corn acreage was harvested by October 29, three percentage points behind last year but 5 percentage points ahead of the 5-year average harvest pace.

Soybean leaf drop was 86 percent complete Nationally by October 1, eight percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 23 percent complete by October 1, three percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Leaf drop was 97 percent complete Nationally by October 15, two percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 62 percent complete by October 15, two percentage points ahead of last year and 10 percentage points ahead of the 5-year average. On October 15, fifty-two percent of the Nation's soybean acreage was rated in good to excellent condition, 5 percentage points below the previous year. Soybean harvest across the Nation was 85 percent complete by October 29, two percentage points behind last year but 7 percentage points ahead of the 5-year average. Soybean harvesting was ahead of the 5-year average pace in 16 of the 18 estimating States.

Nationwide, producers had sown 40 percent of the intended 2024 winter wheat acreage by October 1, one percentage point ahead of last year but 3 percentage points behind the 5-year average. Nationwide, 15 percent of the winter wheat acreage had emerged by October 1, one percentage point ahead of last year but 1 percentage point behind the 5-year average. Nationwide, producers had sown 68 percent of the intended 2024 winter wheat acreage by October 15, one percentage point ahead of last year but equal to the 5-year average. Nationwide, 39 percent of the winter wheat acreage had emerged by October 15, three percentage points ahead of last year but 4 percentage points behind the 5-year average. Nationwide, producers had sown 84 percent of the intended 2024 winter wheat acreage by October 29, two percentage points behind last year and 1 percentage point behind the 5-year average. Planting progress advanced 11 percentage points or more in 9 of the 18 estimating States. Nationwide, 64 percent of the winter wheat acreage had emerged by October 29, four percentage points ahead of last year but equal to the 5-year average. Winter wheat emergence advanced 10 percentage points or more in 14 of the 18 estimating States. As of October 29, forty-seven percent of the 2024 winter wheat acreage was reported in good to excellent condition, 19 percentage points above the same time last year.

By October 1, seventy-five percent of the Nation's cotton had open bolls, 1 percentage point behind last year but 2 percentage points ahead of the 5-year average. By October 1, eighteen percent of the Nation's cotton acreage was harvested, 3 percentage points behind last year but 1 percentage point ahead of the 5-year average. By October 15, eighty-seven percent of the Nation's cotton had open bolls, 1 percentage point behind both last year and the 5-year average. By October 15, thirty-three percent of the Nation's cotton acreage was harvested, 3 percentage points behind last year but 1 percentage point ahead of the 5-year average. By October 29, ninety-three percent of the Nation's cotton had open bolls, 2 percentage points behind both last year and the 5-year average. By October 29, forty-nine percent of the Nation's cotton acreage was harvested, 5 percentage points behind last year but 2 percentage points ahead of the 5-year average. On October 29, twenty-nine percent of the 2023 cotton acreage was rated in good to excellent condition, 1 percentage point below the same time last year.

Ninety-six percent of the Nation's sorghum acreage was at or beyond the coloring stage by October 1, one percentage point ahead of last year but 1 percentage point behind the 5-year average. By October 1, seventy percent of the Nation's sorghum acreage was mature, 3 percentage points ahead of both last year and the 5-year average. Thirty-five percent of the 2023 sorghum acreage had been harvested by October 1, two percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Eighty-five percent of Texas' sorghum acreage was harvested by October 1, five percentage points behind last year but 1 percentage point ahead of the 5-year average. By October 15, ninety-two percent of the Nation's sorghum acreage was mature, 4 percentage points ahead of both last year and the 5-year average. Fifty-three percent of the 2023 sorghum acreage had been harvested by October 15, two percentage points behind last year but 2 percentage points ahead of the 5-year average. Forty-two percent of the Nation's sorghum acreage



was rated in good to excellent condition on October 15, twenty percentage points above the same time last year. Seventy-seven percent of the 2023 sorghum acreage had been harvested by October 29, one percentage point ahead of last year and 6 percentage points ahead of the 5-year average.

Nationally, 75 percent of the rice acreage was harvested by October 1, seven percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Nationally, 88 percent of the rice acreage was harvested by October 15, equal to both last year and the 5-year average. Nationally, 95 percent of the rice acreage was harvested by October 29, two percentage points behind last year and 1 percentage point behind the 5-year average.

Sixteen percent of the Nation's peanut acreage was harvested as of October 1, ten percentage points behind last year and 6 percentage points behind the 5-year average. Forty-two percent of the Nation's peanut acreage was harvested as of October 15, eleven percentage points behind last year and 4 percentage points behind the 5-year average. On October 22, forty-eight percent of the Nation's peanut acreage was rated in good to excellent condition, 14 percentage points below the same time last year. Sixty-nine percent of the Nation's peanut acreage was harvested as of October 29, eight percentage points behind last year and 1 percentage point behind the 5-year average.

By October 1, sugarbeet producers had harvested 15 percent of the Nation's crop, 3 percentage points behind last year and 8 percentage points behind the 5-year average. By October 15, sugarbeet producers had harvested 50 percent of the Nation's crop, 12 percentage points behind last year and 1 percentage point behind the 5-year average. By October 29, sugarbeet producers had harvested 84 percent of the Nation's crop, 4 percentage points behind last year but 3 percentage points ahead of the 5-year average.

By October 1, one percent of this year's sunflower crop was harvested, equal to last year but 2 percentage points behind the 5-year average. By October 15, twelve percent of this year's sunflower crop was harvested, 8 percentage points behind last year and 7 percentage points behind the 5-year average. By October 29, forty percent of this year's sunflower crop was harvested, 16 percentage points behind last year and 4 percentage points behind the 5-year average.

## **Crop Comments**

**Corn:** The 2023 area harvested for grain, forecast at 87.1 million acres, is unchanged from the previous forecast but up 10 percent from last year.

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

Production for grain is forecast at 15.2 billion bushels, which if realized would be the highest production for grain on record for the United States. Based on conditions as of November 1, the yield is forecast at 174.9 bushels per acre, up 1.5 bushels from last year's final estimate of 173.4 bushels. Record high yields are forecast in Alabama, Georgia, Indiana, New York, Ohio, South Carolina, and Tennessee.

Eighty-two percent of the Nation's corn acreage was mature by October 1, nine percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Twenty-three percent of the 2023 corn acreage was harvested by week's end, 4 percentage points ahead of last year and 2 percentage points ahead of the 5-year average.

Eighty-nine percent of the Nation's corn acreage was mature by October 8, four percentage points ahead of both last year and the 5-year average. Thirty-four percent of the 2023 corn acreage was harvested by week's end, 5 percentage points ahead of last year and 3 percentage points ahead of the 5-year average.

Ninety-five percent of the Nation's corn acreage was mature by October 15, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Forty-five percent of the 2023 corn acreage was harvested by week's end, 2 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. On October 15, fifty-three percent of the Nation's corn acreage was rated in good to excellent condition, equal to the previous year.

Fifty-nine percent of the 2023 corn acreage was harvested by October 22, equal to last year but 5 percentage points ahead of the 5-year average. Seventy-one percent of the 2023 corn acreage was harvested by October 29, three percentage points behind last year but 5 percentage points ahead of the 5-year average.

**Sorghum:** Area harvested for grain is forecast at 6.26 million acres, unchanged from the previous forecast but up 37 percent from 2022. Production is forecast at 322 million bushels, down 10 percent from the previous estimate but up 71 percent from last year. Based on November 1 conditions, yield is forecast at 51.4 bushels per acre, down 6.0 bushels from the previous estimate but up 10.3 bushels from the 2022 yield of 41.1 bushels per acre.

Seventy-seven percent of the 2023 sorghum acreage had been harvested by October 29, one percentage point ahead of last year and 6 percentage points ahead of the 5-year average. Sorghum harvest advanced 12 percentage points or more in 4 of the 6 estimating States during the week.

**Rice:** Production is forecast at 220 million cwt, down less than 1 percent from the previous forecast but up 37 percent from 2022. Area for harvest is expected to total 2.85 million acres, unchanged from the previous forecast but up 31 percent from last year. Based on conditions as of November 1, the average United States yield is forecast at 7,707 pounds per acre, down 30 pounds per acre from the previous forecast but up 324 pounds per acre from 2022. All rice growing States are forecasted to have an increase in production from the previous year. The yield in Texas is forecast to be a record high.

As of October 29, ninety-five percent of the rice acreage was harvested, 2 percentage points behind last year and 1 percentage point behind the 5-year average.

**Soybeans:** Production is forecast at 4.13 billion bushels, up 1 percent from the previous estimate but down 3 percent from last year. Based on conditions as of November 1, yields are expected to average 49.9 bushels per acre, up 0.3 bushel from both the previous forecast and last year. Area harvested for beans in the United States is forecast at 82.8 million acres, unchanged from the previous forecast but down 4 percent from 2022.

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 2022, pod counts are up in 10 of the 11 published States. South Dakota showed the greatest increase, up 339 pods per 18 square feet from the previous year.

Soybean harvest was 23 percent complete as of October 1, three percentage points ahead of last year and 1 percentage point ahead of the 5-year average. As of October 29, harvest was 85 percent complete Nationwide, 2 percentage points behind last year but 7 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 16 of the 18 States estimated in the *Crop Progress* report.

Record high yields are forecast in Arkansas, Indiana, Mississippi, Ohio, and Tennessee.

**Peanuts:** Production is forecast at 5.98 billion pounds in 2023, down 4 percent from the previous forecast but up 8 percent from 2022. Area harvested is expected to total 1.60 million acres, unchanged from the previous forecast but up 16 percent from 2022. Based on conditions as of November 1, the average yield for the United States is forecast at 3,740 pounds per acre, down 165 pounds per acre from the previous forecast and down 268 pounds per acre from 2022.

Sixty-nine percent of the Nation's peanut acreage was harvested as of October 29, eight percentage points behind last year and 1 percentage point behind the 5-year average.

**Cotton:** Upland harvested area for the Nation is expected to total 7.88 million acres, unchanged from the previous forecast but up 10 percent from last year. Expected Pima harvested area at 141,100 acres is unchanged from the previous estimate but down 20 percent from last year. Upland cotton production is forecast at 12.7 million 480-pound bales, up 2 percent from the previous forecast but down 9 percent from 2022. Pima cotton production is forecast at 354,000 bales, down 1 percent from the previous forecast and down 25 percent from 2022. If realized, Upland harvested area for

California and New Mexico would be a record low. New Mexico would have a record low Upland production, while Tennessee could see a record high yield.

By October 29, ninety-three percent of the Nation's cotton had open bolls, 2 percentage points behind both last year and the 5-year average. By October 29, forty-nine percent of the Nation's cotton acreage was harvested, 5 percentage points behind last year but 2 percentage points ahead of the 5-year average. Cotton harvest advanced 10 percentage points or more in 9 of the 15 estimating States during the week. On October 29, twenty-nine percent of the 2023 cotton acreage was rated in good to excellent condition, unchanged from the previous week but 1 percentage point below the previous year.

Ginnings totaled 3,656,300 running bales prior to November 1, down from 4,245,650 running bales ginned prior to the same date last year.

**Sugarbeets:** Production of sugarbeets for the 2023 crop year is forecast at 35.5 million tons, up 2 percent from last month and up 9 percent from last year. Producers expect to harvest 1.12 million acres, unchanged from last month but down 2 percent from last year. Yield is forecast at 31.7 tons per acre, up 0.6 ton from last month and up 3.1 tons from last year.

**Sugarcane:** Production of sugarcane for sugar and seed is forecast at 32.8 million tons, up slightly from the previous forecast but down 5 percent from last season. Producers intend to harvest 923,000 acres for sugar and seed during the 2023 crop year, down 1 percent from last month and from 2022. Yields for sugar and seed are expected to average 35.6 tons per acre, up 0.4 ton from last month but down 1.7 tons from last season.

**Potatoes:** Production of potatoes for the 2023 crop year is forecast at 434 million cwt, up 9 percent from last year. Planted acreage, at 964,000 acres, is up 2 percent from the June estimate and up 5 percent from last season. Area harvested, at 959,800 acres, is up 5 percent from the previous year. The yield forecast, at 452 cwt per acre, is up 14 cwt from last year's yield.

## Statistical Methodology

**Field crop survey procedures:** Objective yield and farm operator surveys were conducted between October 25 and November 6 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 5,830 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 acres for barley, oats, and wheat are subject to revision in the August *Crop Production* report. Acres for chickpeas, corn, cotton, dry edible peas, lentils, peanuts, rice, sorghum, soybeans, and sugarbeets are subject for revision in the September *Crop Production* report each year. Barley, oat, rye, and wheat end-of-season estimates are made in the *Small Grains Annual* report at the end of September. Canola, dry edible beans, and sunflower acres are subject to revision in the October *Crop Production* report. Potato acres are subject to revision in the November *Crop Production* report. End-of-season estimates for all other row crops are made in the *Annual Crop Production Summary* in January. 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 1.3 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 1.3 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.2 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 132 million bushels, ranging from 4 million bushels to 420 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	1.3	2.2	132	4	420	7	13
Peanut <sup>1</sup> ..... pounds	4.8	8.3	209	10	662	14	6
Potato ..... cwt	2.2	3.8	6	1	37	15	5
Rice ..... cwt	1.6	2.8	2	(Z)	11	14	6
Sorghum for grain ..... bushels	7.5	13.0	15	1	48	11	9
Soybeans for beans ..... bushels	1.7	3.0	50	1	171	11	9
Sugarbeets for sugar ..... tons	1.6	2.8	(Z)	(Z)	1	11	9
Sugarcane ..... tons	4.6	7.9	1	(Z)	2	9	11
Upland cotton <sup>1</sup> ..... bales	5.0	8.7	554	50	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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Irwin Anolik – Crop Progress and Condition .....	(202) 720-7621
Joshua Bates – Hemp, Oats, Soybeans .....	(202) 690-3234
Natasha Bruton – Barley, Cotton System Consumption and Stocks, Grain Crushings .....	(202) 690-1042
David Colwell – Fats and Oils, Flour Milling Products .....	(202) 720-8800
Michelle Harder – 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
Jennifer Van Court – Peanuts, Rice .....	(202) 720-2127
Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section .....	(202) 720-2127
Deonne Holiday – Almonds, Carrots, Coffee, Cranberries, Garlic, Onions, Plums, Prunes, Tobacco .....	(202) 720-4288
Bret Holliman – Apricots, Chickpeas, Nectarines, Peaches, Snap Beans, Sweet Corn, Tomatoes .....	(202) 720-7235
Robert Little – Blueberries, Cabbage, Dry Beans, Lettuce, Macadamia, Maple Syrup, Pears, Raspberries, Spinach .....	(202) 720-3250
Krishna Rizal – Artichokes, Asparagus, Celery, Grapefruit, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges, Pistachios .....	(202) 720-5412
Chris Singh – Apples, Cucumbers, Hazelnuts, Potatoes, Pumpkins, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes .....	(202) 720-4285
Antonio Torres – Cantaloupes, Dry Edible Peas, Grapes, Green Peas, Honeydews, Lentils, Sweet Cherries, Tart Cherries, Walnuts, Watermelons .....	(202) 720-2157
Chris Wallace – Avocados, Bell Peppers, Broccoli, Cauliflower, Chile Peppers, Dates, Floriculture, Hops, Papayas, 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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