



Crop Production

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Corn Production Up Less Than 1 Percent from October Forecast Soybean Production Up 1 Percent Cotton Production Up 2 Percent

Corn production for grain is forecast at 13.9 billion bushels, up less than 1 percent from the previous forecast but down 8 percent from 2021. Based on conditions as of November 1, yields are expected to average 172.3 bushels per harvested acre, up 0.4 bushel from the previous forecast but down 4.4 bushels from last year. Area harvested for grain, forecast at 80.8 million acres, is unchanged from the previous forecast but down 5 percent from the previous year.

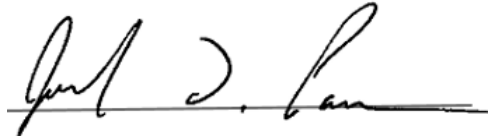
Soybean production for beans is forecast at 4.35 billion bushels, up 1 percent from the previous forecast but down 3 percent from last year. Based on conditions as of November 1, yields are expected to average 50.2 bushels per harvested acre, up 0.4 bushel from the previous forecast but down 1.5 bushels from 2021. Area harvested for beans in the United States is forecast at 86.6 million acres, unchanged from the previous forecast but up less than 1 percent from 2021.

All cotton production is forecast at 14.0 million 480-pound bales, up 2 percent from the previous forecast but down 20 percent from 2021. Based on conditions as of November 1, yields are expected to average 855 pounds per harvested acre, up 13 pounds from the previous forecast and up 36 pounds from 2021. Upland cotton production is forecast at 13.6 million 480-pound bales, up 2 percent from the previous forecast but down 21 percent from 2021. Pima cotton production is forecast at 470,000 bales, up less than 1 percent from the previous forecast and up 42 percent from 2021. All cotton area harvested is forecast at 7.88 million acres, unchanged from the previous forecast but down 23 percent from 2021.

This report was approved on November 9, 2022.



Secretary of Agriculture
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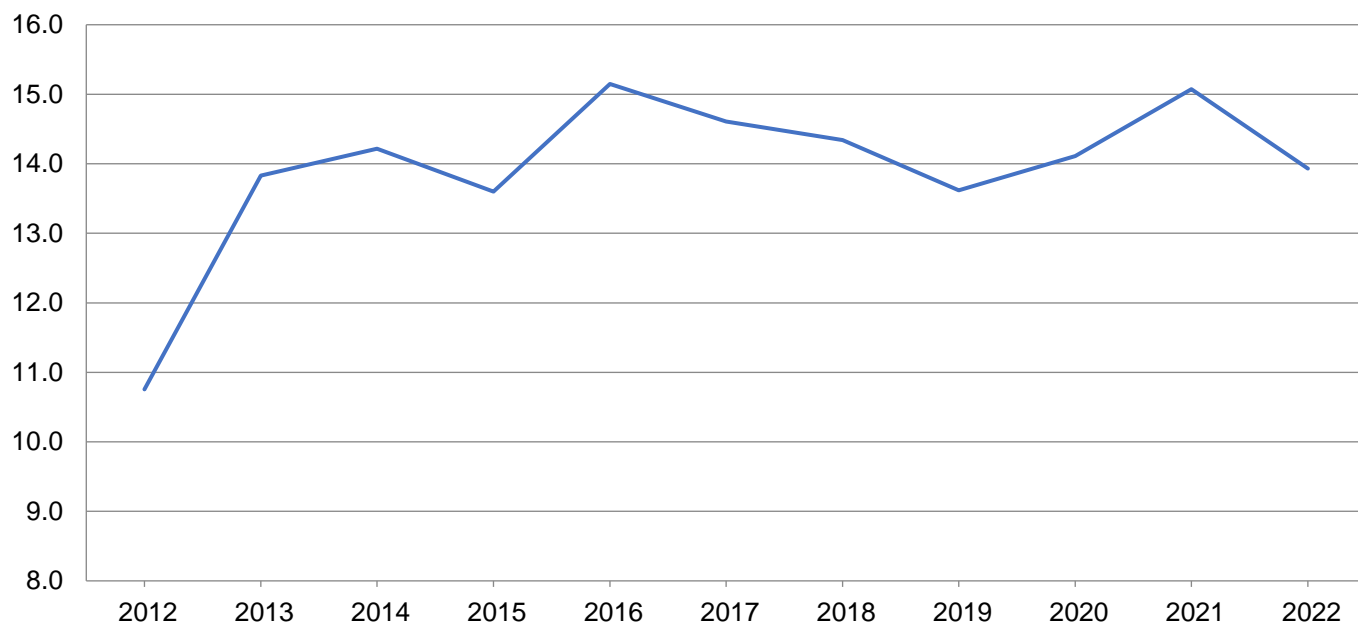
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted November 1, 2022

State	Area harvested		Yield per acre			Production	
	2021	2022	2021	2022		2021	2022
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	340	290	163.0	129.0	124.0	55,420	35,960
Arkansas	830	690	184.0	176.0	176.0	152,720	121,440
California	50	20	188.0	200.0	200.0	9,400	4,000
Colorado	1,150	1,100	129.0	125.0	124.0	148,350	136,400
Delaware	172	162	184.0	170.0	165.0	31,648	26,730
Georgia	445	385	182.0	171.0	168.0	80,990	64,680
Idaho	120	105	210.0	200.0	200.0	25,200	21,000
Illinois	10,850	10,550	202.0	210.0	215.0	2,191,700	2,268,250
Indiana	5,270	5,050	195.0	187.0	191.0	1,027,650	964,550
Iowa	12,450	12,450	204.0	200.0	202.0	2,539,800	2,514,900
Kansas	5,400	5,150	139.0	115.0	115.0	750,600	592,250
Kentucky	1,440	1,330	192.0	149.0	153.0	276,480	203,490
Louisiana	565	435	183.0	165.0	165.0	103,395	71,775
Maryland	425	375	175.0	174.0	170.0	74,375	63,750
Michigan	1,990	1,970	174.0	166.0	164.0	346,260	323,080
Minnesota	7,840	7,550	177.0	190.0	191.0	1,387,680	1,442,050
Mississippi	700	550	181.0	167.0	167.0	126,700	91,850
Missouri	3,430	3,200	159.0	151.0	154.0	545,370	492,800
Nebraska	9,560	9,300	194.0	172.0	168.0	1,854,640	1,562,400
New York	580	515	167.0	154.0	156.0	96,860	80,340
North Carolina	905	785	149.0	116.0	112.0	134,845	87,920
North Dakota	3,630	2,700	105.0	141.0	143.0	381,150	386,100
Ohio	3,340	3,120	193.0	187.0	186.0	644,620	580,320
Oklahoma	295	305	150.0	125.0	122.0	44,250	37,210
Pennsylvania	990	850	169.0	148.0	142.0	167,310	120,700
South Carolina	380	300	139.0	125.0	123.0	52,820	36,900
South Dakota	5,480	5,250	134.0	130.0	125.0	734,320	656,250
Tennessee	950	805	170.0	126.0	130.0	161,500	104,650
Texas	1,850	1,780	128.0	100.0	94.0	236,800	167,320
Virginia	360	345	160.0	161.0	164.0	57,600	56,580
Washington	85	70	248.0	240.0	250.0	21,080	17,500
Wisconsin	3,000	2,950	180.0	182.0	182.0	540,000	536,900
Other States ¹	446	407	162.1	147.1	147.1	72,287	59,876
United States	85,318	80,844	176.7	171.9	172.3	15,073,820	13,929,921

¹ Other States include Arizona, Florida, Montana, New Jersey, New Mexico, Oregon, Utah, West Virginia, and Wyoming. Individual State level estimates will be published in the *Crop Production 2022 Summary*.

Corn Production – United States

Billion bushels



Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted November 1, 2022

State	Area harvested		Yield per acre			Production	
	2021	2022	2021	2022		2021	2022
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	400	450	37.0	30.0	22.0	14,800	9,900
Kansas	3,400	3,100	78.0	43.0	40.0	265,200	124,000
Nebraska	230	265	86.0	56.0	62.0	19,780	16,430
Oklahoma	380	360	54.0	31.0	26.0	20,520	9,360
South Dakota	210	205	64.0	71.0	76.0	13,440	15,580
Texas	1,870	1,100	61.0	52.0	55.0	114,070	60,500
United States	6,490	5,480	69.0	44.6	43.0	447,810	235,770

Rice Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted November 1, 2022

State	Area harvested		Yield per acre			Production ¹	
	2021	2022	2021	2022		2021	2022
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,194	1,083	7,630	7,500	7,450	91,136	80,684
California	405	255	9,050	9,000	8,700	36,653	22,185
Louisiana	414	416	6,870	6,700	6,700	28,447	27,872
Mississippi	100	84	7,540	7,500	7,400	7,540	6,216
Missouri	194	149	8,040	7,600	7,800	15,599	11,622
Texas	181	190	6,860	8,300	8,300	12,421	15,770
United States	2,488	2,177	7,709	7,599	7,549	191,796	164,349

¹ Includes sweet rice production.

Rice Production by Class – United States: 2021 and Forecasted November 1, 2022

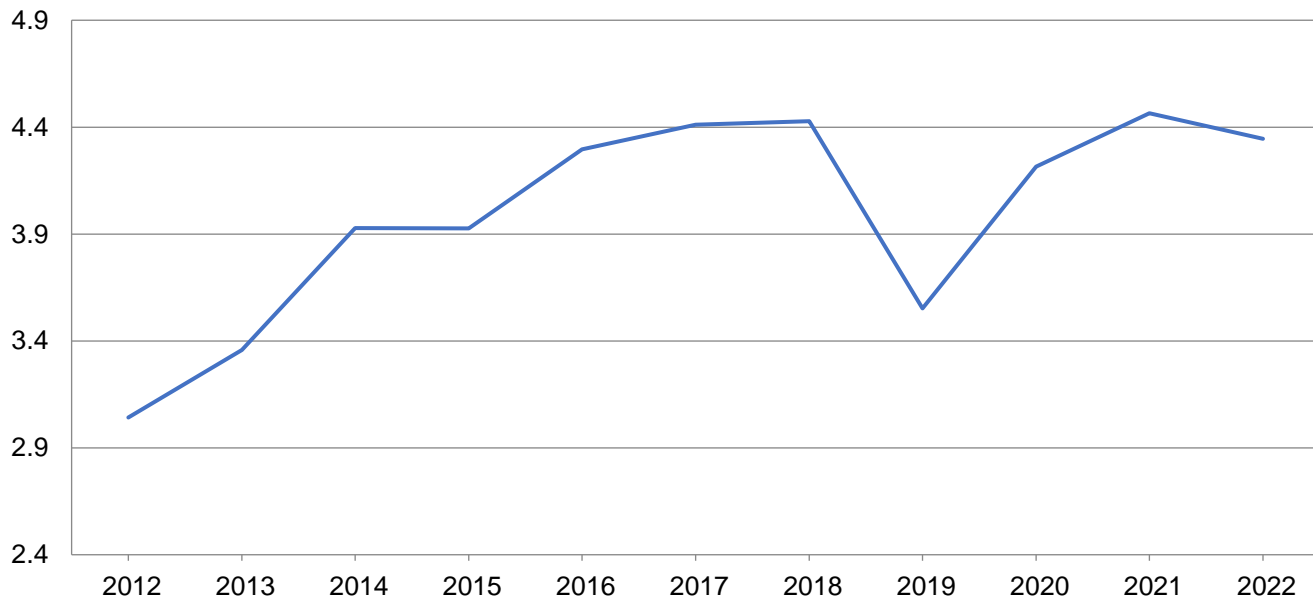
Year	Long grain	Medium grain	Short grain ¹	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2021	144,639	44,494	2,663	191,796
2022 ²	131,659	30,527	2,163	164,349

¹ Sweet rice production included with short grain.

² The 2022 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: 2021 and Forecasted November 1, 2022

State	Area harvested		Yield per acre			Production	
	2021	2022	2021	2022		2021	2022
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	305	355	46.0	42.0	45.0	14,030	15,975
Arkansas	3,000	3,150	52.0	53.0	53.0	156,000	166,950
Delaware	153	158	51.0	43.0	43.0	7,803	6,794
Georgia	135	160	46.0	45.0	44.0	6,210	7,040
Illinois	10,510	10,700	65.0	64.0	64.0	683,150	684,800
Indiana	5,640	5,830	60.0	59.0	59.0	338,400	343,970
Iowa	10,030	10,020	63.0	58.0	59.0	631,890	591,180
Kansas	4,800	5,000	40.0	28.0	28.0	192,000	140,000
Kentucky	1,840	1,940	56.0	53.0	51.0	103,040	98,940
Louisiana	1,060	1,240	52.0	47.0	47.0	55,120	58,280
Maryland	485	515	53.0	45.0	43.0	25,705	22,145
Michigan	2,140	2,230	51.0	46.0	46.0	109,140	102,580
Minnesota	7,580	7,380	47.0	50.0	50.0	356,260	369,000
Mississippi	2,170	2,280	54.0	56.0	56.0	117,180	127,680
Missouri	5,650	6,050	49.0	45.0	48.0	276,850	290,400
Nebraska	5,570	5,700	63.0	49.0	50.0	350,910	285,000
New Jersey	99	108	46.0	30.0	30.0	4,554	3,240
New York	320	345	53.0	50.0	51.0	16,960	17,595
North Carolina	1,640	1,690	40.0	37.0	38.0	65,600	64,220
North Dakota	7,120	5,650	25.5	35.0	36.0	181,560	203,400
Ohio	4,880	5,080	57.0	55.0	55.0	278,160	279,400
Oklahoma	535	525	23.0	16.0	17.0	12,305	8,925
Pennsylvania	595	585	53.0	46.0	44.0	31,535	25,740
South Carolina	385	390	38.0	38.0	39.0	14,630	15,210
South Dakota	5,390	5,050	40.0	40.0	39.0	215,600	196,950
Tennessee	1,520	1,620	50.0	46.0	46.0	76,000	74,520
Texas	100	140	38.0	33.0	31.0	3,800	4,340
Virginia	590	610	46.0	42.0	43.0	27,140	26,230
Wisconsin	2,070	2,130	55.0	54.0	54.0	113,850	115,020
United States	86,312	86,631	51.7	49.8	50.2	4,465,382	4,345,524

Peanut Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted November 1, 2022

State	Area harvested		Yield per acre			Production	
	2021	2022	2021	2022		2021	2022
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	182.0	163.0	3,350	3,900	3,900	609,700	635,700
Arkansas	35.0	32.0	5,000	5,000	5,000	175,000	160,000
Florida	158.0	147.0	3,700	3,900	3,900	584,600	573,300
Georgia	750.0	680.0	4,450	4,400	4,400	3,337,500	2,992,000
Mississippi	17.0	13.0	4,100	4,100	4,100	69,700	53,300
New Mexico	11.1	7.1	2,310	3,000	3,000	25,641	21,300
North Carolina	114.0	116.0	4,350	4,100	4,100	495,900	475,600
Oklahoma	15.0	17.0	4,450	3,800	3,800	66,750	64,600
South Carolina	66.0	68.0	4,200	4,200	4,200	277,200	285,600
Texas	162.0	140.0	3,570	2,700	2,700	578,340	378,000
Virginia	30.0	28.0	4,700	4,700	4,700	141,000	131,600
United States	1,540.1	1,411.1	4,130	4,090	4,090	6,361,331	5,771,000

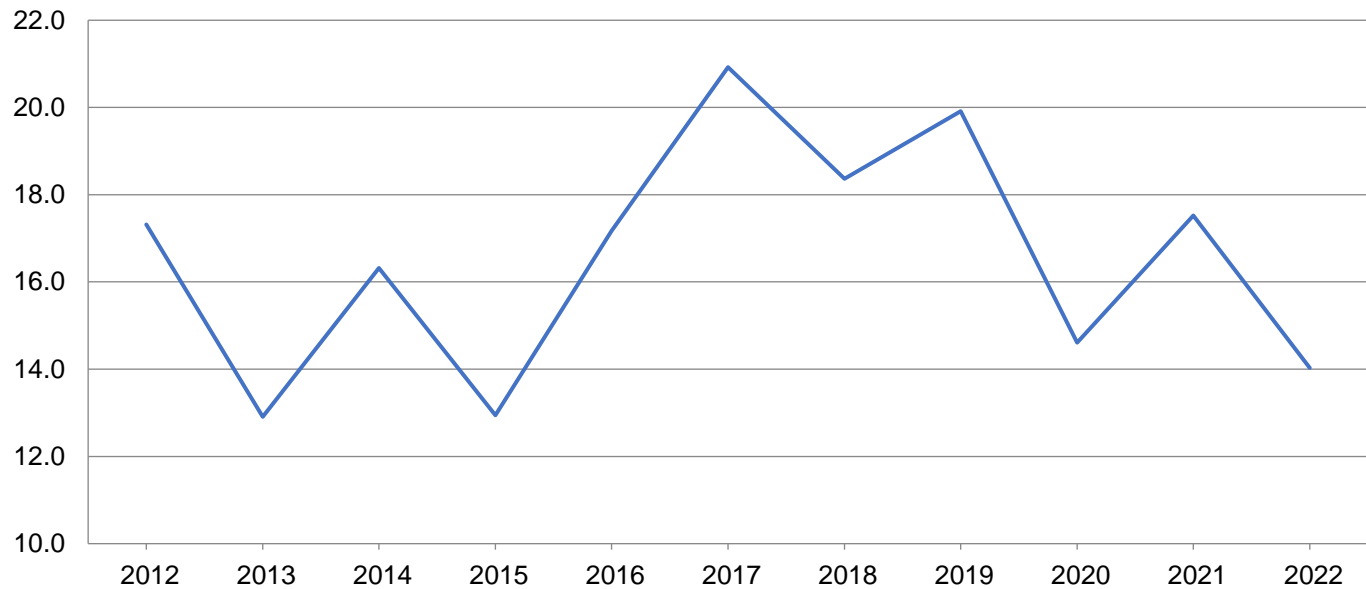
Cottonseed Production – United States: 2021 and Forecasted November 1, 2022

State	Production	
	2021	2022 ¹
	(1,000 tons)	(1,000 tons)
United States	5,323.0	4,260.0

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

Cotton Production - United States

Million bales



Cotton Area Harvested, Yield, and Production by Type – States and United States: 2021 and Forecasted November 1, 2022

Type and State	Area harvested		Yield per acre			Production ¹	
	2021	2022	2021	2022		2021	2022
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) ²	(1,000 bales) ²
Upland							
Alabama	401.0	425.0	826	836	904	690.0	800.0
Arizona	119.0	89.0	1,275	1,294	1,375	316.0	255.0
Arkansas	475.0	630.0	1,248	1,143	1,166	1,235.0	1,530.0
California	25.5	29.5	1,920	1,627	1,627	102.0	100.0
Florida	90.0	104.0	640	785	785	120.0	170.0
Georgia	1,160.0	1,280.0	914	900	938	2,210.0	2,500.0
Kansas	102.0	152.0	880	537	553	187.0	175.0
Louisiana	104.0	185.0	1,011	856	908	219.0	350.0
Mississippi	430.0	525.0	997	1,006	1,006	893.0	1,100.0
Missouri	310.0	300.0	1,260	1,104	1,104	814.0	690.0
New Mexico	26.0	48.0	1,108	1,000	1,100	60.0	110.0
North Carolina	365.0	455.0	1,017	884	935	773.0	886.0
Oklahoma	440.0	310.0	756	341	325	693.0	210.0
South Carolina	207.0	265.0	986	888	897	425.0	495.0
Tennessee	270.0	325.0	1,036	975	1,022	583.0	692.0
Texas	5,550.0	2,500.0	666	653	634	7,700.0	3,300.0
Virginia	74.0	89.0	1,109	1,057	1,068	171.0	198.0
United States	10,148.5	7,711.5	813	831	844	17,191.0	13,561.0
American Pima							
Arizona	8.8	15.0	982	960	960	18.0	30.0
California	87.0	101.0	1,501	1,687	1,687	272.0	355.0
New Mexico	12.0	18.5	640	986	1,038	16.0	40.0
Texas	16.0	30.0	780	720	720	26.0	45.0
United States	123.8	164.5	1,287	1,366	1,371	332.0	470.0
All							
Alabama	401.0	425.0	826	836	904	690.0	800.0
Arizona	127.8	104.0	1,254	1,246	1,315	334.0	285.0
Arkansas	475.0	630.0	1,248	1,143	1,166	1,235.0	1,530.0
California	112.5	130.5	1,596	1,674	1,674	374.0	455.0
Florida	90.0	104.0	640	785	785	120.0	170.0
Georgia	1,160.0	1,280.0	914	900	938	2,210.0	2,500.0
Kansas	102.0	152.0	880	537	553	187.0	175.0
Louisiana	104.0	185.0	1,011	856	908	219.0	350.0
Mississippi	430.0	525.0	997	1,006	1,006	893.0	1,100.0
Missouri	310.0	300.0	1,260	1,104	1,104	814.0	690.0
New Mexico	38.0	66.5	960	996	1,083	76.0	150.0
North Carolina	365.0	455.0	1,017	884	935	773.0	886.0
Oklahoma	440.0	310.0	756	341	325	693.0	210.0
South Carolina	207.0	265.0	986	888	897	425.0	495.0
Tennessee	270.0	325.0	1,036	975	1,022	583.0	692.0
Texas	5,566.0	2,530.0	666	654	635	7,726.0	3,345.0
Virginia	74.0	89.0	1,109	1,057	1,068	171.0	198.0
United States	10,272.3	7,876.0	819	842	855	17,523.0	14,031.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

Sugarbeet Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted November 1, 2022

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

State	Area harvested		Yield per acre			Production	
	2021	2022	2021	2022		2021	2022
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California ¹	23.8	23.9	46.0	46.7	46.7	1,095	1,116
Colorado	23.6	21.1	33.7	27.9	26.3	795	555
Idaho	170.0	170.0	39.5	39.0	39.0	6,715	6,630
Michigan	142.0	137.0	37.4	29.9	30.5	5,311	4,179
Minnesota	396.0	438.0	31.0	25.3	25.7	12,276	11,257
Montana	43.5	33.5	29.8	29.5	31.0	1,296	1,039
Nebraska	43.8	39.0	31.9	25.8	25.0	1,397	975
North Dakota	222.0	249.0	29.2	25.7	26.1	6,482	6,499
Oregon	10.4	8.0	37.9	37.9	38.0	394	304
Washington	1.9	2.0	45.9	45.5	45.5	87	91
Wyoming	30.6	27.6	29.5	27.9	29.6	903	817
United States	1,107.6	1,149.1	33.2	28.8	29.1	36,751	33,462

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

Sugarcane for Sugar and Seed Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted November 1, 2022

State	Area harvested		Yield per acre ¹			Production ¹	
	2021	2022	2021	2022		2021	2022
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	403.5	396.5	42.6	43.8	44.0	17,187	17,446
Louisiana	495.3	495.0	29.3	32.5	32.4	14,525	16,038
Texas	36.4	32.0	30.9	25.0	25.0	1,126	800
United States	935.2	923.5	35.1	37.1	37.1	32,838	34,284

¹ Net tons.

Potato Area Planted and Harvested – States and United States: 2021 and 2022

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2021	2022	2021	2022 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	26.0	23.0	25.4	22.9
Colorado	53.0	53.0	52.4	52.7
Florida	21.0	19.0	20.0	18.7
Idaho	315.0	295.0	314.5	294.5
Maine	54.0	53.0	53.3	52.5
Michigan	46.0	45.0	45.0	44.0
Minnesota	42.0	47.0	41.3	46.5
Nebraska	19.0	20.0	18.9	19.9
North Dakota	76.0	74.0	75.0	73.0
Oregon	44.0	43.0	43.8	42.9
Texas	13.0	13.0	12.0	12.5
Washington	155.0	160.0	154.5	159.5
Wisconsin	69.0	67.0	67.5	66.5
United States	933.0	912.0	923.6	906.1

¹ Forecasted.

Potato Area Harvested, Yield, and Production – States and United States: 2021 and Forecasted November 1, 2022

State	Area harvested		Yield per acre		Production	
	2021	2022	2021	2022	2021	2022
	(1,000 acres)	(1,000 acres)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)
California	25.4	22.9	435	400	11,049	9,160
Colorado	52.4	52.7	410	400	21,484	21,080
Florida	20.0	18.7	270	265	5,400	4,956
Idaho	314.5	294.5	420	410	132,090	120,745
Maine	53.3	52.5	345	345	18,389	18,113
Michigan	45.0	44.0	430	380	19,350	16,720
Minnesota	41.3	46.5	425	415	17,553	19,298
Nebraska	18.9	19.9	490	480	9,261	9,552
North Dakota	75.0	73.0	300	305	22,500	22,265
Oregon	43.8	42.9	600	590	26,280	25,311
Texas	12.0	12.5	460	575	5,520	7,188
Washington	154.5	159.5	595	595	91,928	94,903
Wisconsin	67.5	66.5	430	415	29,025	27,598
United States	923.6	906.1	444	438	409,829	396,889

Crop Area Planted and Harvested, Yield, and 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 2022 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2021	2022	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Grains and hay				
Barley	2,708	2,945	1,990	2,433
Corn for grain ¹	93,252	88,608	85,318	80,844
Corn for silage	(NA)		6,445	
Hay, all	(NA)	(NA)	50,736	51,507
Alfalfa	(NA)	(NA)	15,246	15,465
All other	(NA)	(NA)	35,490	36,042
Oats	2,550	2,581	650	890
Proso millet	725	670	662	
Rice	2,532	2,223	2,488	2,177
Rye	2,133	2,175	294	341
Sorghum for grain ¹	7,305	6,365	6,490	5,480
Sorghum for silage	(NA)		331	
Wheat, all	46,740	45,738	37,145	35,480
Winter	33,678	33,271	25,464	23,459
Durum	1,642	1,632	1,526	1,581
Other spring	11,420	10,835	10,155	10,440
Oilseeds				
Canola	2,152.0	2,212.0	2,089.0	2,161.0
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	325	235	268	216
Mustard seed	103.0	123.0	89.3	115.0
Peanuts	1,580.2	1,459.1	1,540.1	1,411.1
Rapeseed	14.3	9.0	12.5	8.2
Safflower	152.0	154.0	135.0	144.5
Soybeans for beans	87,195	87,455	86,312	86,631
Sunflower	1,290.5	1,691.0	1,245.8	1,633.0
Cotton, tobacco, and sugar crops				
Cotton, all	11,215.5	13,791.0	10,272.3	7,876.0
Upland	11,089.0	13,622.0	10,148.5	7,711.5
American Pima	126.5	169.0	123.8	164.5
Sugarbeets	1,160.0	1,172.9	1,107.6	1,149.1
Sugarcane	(NA)	(NA)	935.2	923.5
Tobacco	(NA)	(NA)	218.9	205.6
Dry beans, peas, and lentils				
Chickpeas	368.5	359.6	351.0	350.4
Dry edible beans	1,394.0	1,251.0	1,335.6	1,207.3
Dry edible peas	977.0	914.0	834.0	863.0
Lentils	708.0	670.0	549.0	633.0
Potatoes and miscellaneous				
Hops	(NA)	(NA)	60.9	60.0
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		44.0	
Potatoes	933.0	912.0	923.6	906.1
Spearmint oil	(NA)		14.9	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States:
2021 and 2022 (continued)**

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

Crop	Yield per acre		Production	
	2021	2022	2021	2022
			(1,000)	(1,000)
Grains and hay				
Barleybushels	60.3	71.7	120,090	174,333
Corn for grainbushels	176.7	172.3	15,073,820	13,929,921
Corn for silage tons	20.1		129,429	
Hay, all tons	2.37	2.18	120,196	112,061
Alfalfa tons	3.23	3.16	49,245	48,820
All other tons	2.00	1.75	70,951	63,241
Oatsbushels	61.3	64.8	39,836	57,655
Proso milletbushels	23.2		15,376	
Rice ²cwt	7,709	7,549	191,796	164,349
Ryebushels	33.4	36.1	9,808	12,301
Sorghum for grainbushels	69.0	43.0	447,810	235,770
Sorghum for silage tons	15.4		5,083	
Wheat, allbushels	44.3	46.5	1,646,254	1,649,878
Winterbushels	50.2	47.0	1,277,755	1,103,707
Durumbushels	24.7	40.5	37,649	63,981
Other springbushels	32.6	46.2	330,850	482,190
Oilseeds				
Canola pounds	1,302	1,826	2,720,550	3,945,820
Cottonseed tons	(X)	(X)	5,323.0	4,260.0
Flaxseedbushels	10.1		2,708	
Mustard seed pounds	491		43,834	
Peanuts pounds	4,130	4,090	6,361,331	5,771,000
Rapeseed pounds	1,809		22,616	
Safflower pounds	1,001		135,175	
Soybeans for beansbushels	51.7	50.2	4,465,382	4,345,524
Sunflower pounds	1,529	1,782	1,905,285	2,910,450
Cotton, tobacco, and sugar crops				
Cotton, all ²bales	819	855	17,523.0	14,031.0
Upland ²bales	813	844	17,191.0	13,561.0
American Pima ²bales	1,287	1,371	332.0	470.0
Sugarbeets tons	33.2	29.1	36,751	33,462
Sugarcane tons	35.1	37.1	32,838	34,284
Tobacco pounds	2,183	2,116	477,973	434,965
Dry beans, peas, and lentils				
Chickpeas ²cwt	815	1,122	2,861	3,933
Dry edible beans ²cwt	1,701	2,095	22,721	25,293
Dry edible peas ²cwt	1,025	1,280	8,549	11,050
Lentils ²cwt	606	766	3,327	4,851
Potatoes and miscellaneous				
Hops pounds	1,900	1,922	115,630.9	115,259.4
Maple syrup gallons	(NA)	(NA)	3,721	5,028
Mushrooms pounds	(NA)	(NA)	757,987	702,391
Peppermint oil pounds	104		4,566	
Potatoescwt	444	438	409,829	396,889
Spearmint oil pounds	119		1,775	

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Yield in pounds.

Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 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 2022 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2021	2022	2021	2022
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,095,900	1,191,810	805,330	984,610
Corn for grain ¹	37,738,150	35,858,770	34,527,340	32,716,760
Corn for silage	(NA)		2,608,230	
Hay, all ²	(NA)	(NA)	20,532,350	20,844,370
Alfalfa	(NA)	(NA)	6,169,900	6,258,530
All other	(NA)	(NA)	14,362,450	14,585,840
Oats	1,031,960	1,044,500	263,050	360,170
Proso millet	293,400	271,140	267,900	
Rice	1,024,680	899,630	1,006,870	881,010
Rye	863,200	880,200	118,980	138,000
Sorghum for grain ¹	2,956,260	2,575,850	2,626,440	2,217,700
Sorghum for silage	(NA)		133,950	
Wheat, all ²	18,915,210	18,509,710	15,032,210	14,358,400
Winter	13,629,150	13,464,440	10,305,030	9,493,620
Durum	664,500	660,450	617,560	639,810
Other spring	4,621,560	4,384,820	4,109,630	4,224,960
Oilseeds				
Canola	870,890	895,170	845,400	874,540
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	131,520	95,100	108,460	87,410
Mustard seed	41,680	49,780	36,140	46,540
Peanuts	639,490	590,480	623,260	571,060
Rapeseed	5,790	3,640	5,060	3,320
Safflower	61,510	62,320	54,630	58,480
Soybeans for beans	35,286,940	35,392,160	34,929,600	35,058,700
Sunflower	522,250	684,330	504,160	660,860
Cotton, tobacco, and sugar crops				
Cotton, all ²	4,538,800	5,581,080	4,157,100	3,187,340
Upland	4,487,610	5,512,690	4,107,000	3,120,770
American Pima	51,190	68,390	50,100	66,570
Sugarbeets	469,440	474,660	448,230	465,030
Sugarcane	(NA)	(NA)	378,470	373,730
Tobacco	(NA)	(NA)	88,600	83,200
Dry beans, peas, and lentils				
Chickpeas	149,130	145,530	142,050	141,800
Dry edible beans	564,140	506,270	540,500	488,580
Dry edible peas	395,380	369,890	337,510	349,250
Lentils	286,520	271,140	222,170	256,170
Potatoes and miscellaneous				
Hops	(NA)	(NA)	24,630	24,270
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		17,810	
Potatoes	377,580	369,080	373,770	366,690
Spearmint oil	(NA)		6,030	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States:
2021 and 2022 (continued)**

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

Crop	Yield per hectare		Production	
	2021	2022	2021	2022
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	3.25	3.85	2,614,650	3,795,650
Corn for grain	11.09	10.82	382,892,660	353,836,290
Corn for silage	45.02		117,416,010	
Hay, all ²	5.31	4.88	109,039,980	101,660,030
Alfalfa	7.24	7.08	44,674,310	44,288,760
All other	4.48	3.93	64,365,660	57,371,270
Oats	2.20	2.32	578,220	836,860
Proso millet	1.30		348,720	
Rice	8.64	8.46	8,699,720	7,454,750
Rye	2.09	2.26	249,130	312,460
Sorghum for grain	4.33	2.70	11,374,900	5,988,830
Sorghum for silage	34.42		4,611,220	
Wheat, all ²	2.98	3.13	44,803,690	44,902,320
Winter	3.37	3.16	34,774,790	30,037,980
Durum	1.66	2.72	1,024,640	1,741,280
Other spring	2.19	3.11	9,004,260	13,123,060
Oilseeds				
Canola	1.46	2.05	1,234,020	1,789,790
Cottonseed	(X)	(X)	4,828,940	3,864,610
Flaxseed	0.63		68,790	
Mustard seed	0.55		19,880	
Peanuts	4.63	4.58	2,885,450	2,617,680
Rapeseed	2.03		10,260	
Safflower	1.12		61,310	
Soybeans for beans	3.48	3.37	121,527,780	118,265,780
Sunflower	1.71	2.00	864,220	1,320,160
Cotton, tobacco, and sugar crops				
Cotton, all ²	0.92	0.96	3,815,180	3,054,890
Upland	0.91	0.95	3,742,900	2,952,560
American Pima	1.44	1.54	72,280	102,330
Sugarbeets	74.38	65.28	33,339,950	30,356,220
Sugarcane	78.71	83.22	29,790,130	31,101,920
Tobacco	2.45	2.37	216,800	197,300
Dry beans, peas, and lentils				
Chickpeas	0.91	1.26	129,770	178,400
Dry edible beans	1.91	2.35	1,030,610	1,147,270
Dry edible peas	1.15	1.44	387,780	501,220
Lentils	0.68	0.86	150,910	220,040
Potatoes and miscellaneous				
Hops	2.13	2.15	52,450	52,280
Maple syrup	(NA)	(NA)	18,610	25,140
Mushrooms	(NA)	(NA)	343,820	318,600
Peppermint oil	0.12		2,070	
Potatoes	49.73	49.09	18,589,530	18,002,580
Spearmint oil	0.13		810	

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Total may not add due to rounding.

Fruits and Nuts Production in Domestic Units – United States: 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 2022 crop year, except citrus which is for the 2022-2023 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production		
	2022	2023	
Citrus ¹			
Grapefruit	1,000 tons	374	329
Lemons	1,000 tons	1,034	966
Oranges	1,000 tons	3,471	3,193
Tangerines and mandarins	1,000 tons	732	833
Noncitrus			
Apples, commercial	million pounds	10,110.0	
Apricots	tons	36,200	
Avocados	tons		
Blueberries, Cultivated	1,000 pounds		
Blueberries, Wild (Maine)	1,000 pounds		
Cherries, Sweet	tons	275,000	
Cherries, Tart	million pounds	229.2	
Coffee (Hawaii)	1,000 pounds		
Cranberries	barrel	7,440,000	
Dates	tons		
Grapes	tons	5,985,000	
Kiwifruit (California)	tons		
Nectarines (California)	tons		
Olives (California)	tons		
Papayas (Hawaii)	1,000 pounds		
Peaches	tons	583,500	
Pears	tons	690,000	
Plums (California)	tons		
Prunes (California)	tons		
Raspberries, all	1,000 pounds		
Strawberries	1,000 cwt		
Nuts and miscellaneous			
Almonds, shelled (California)	1,000 pounds	2,600,000	
Hazelnuts, in-shell (Oregon)	tons	68,000	
Macadamias (Hawaii)	1,000 pounds		
Pecans, in-shell	1,000 pounds	290,500	
Pistachios (California)	1,000 pounds		
Walnuts, in-shell (California)	tons	720,000	

¹ Production years are 2021-2022 and 2022-2023.

Fruits and Nuts 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 2022 crop year, except citrus which is for the 2022-2023 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2022	2023
	(metric tons)	(metric tons)
Citrus ¹		
Grapefruit	339,290	298,460
Lemons	938,030	876,340
Oranges	3,148,840	2,896,640
Tangerines and mandarins	664,060	755,680
Noncitrus		
Apples, commercial	4,585,820	
Apricots	32,840	
Avocados		
Blueberries, Cultivated		
Blueberries, Wild (Maine)		
Cherries, Sweet	249,480	
Cherries, Tart	103,960	
Coffee (Hawaii)		
Cranberries	337,470	
Dates		
Grapes	5,429,500	
Kiwifruit (California)		
Nectarines (California)		
Olives (California)		
Papayas (Hawaii)		
Peaches	529,340	
Pears	625,960	
Plums (California)		
Prunes (California)		
Raspberries, all		
Strawberries		
Nuts and miscellaneous		
Almonds, shelled (California)	1,179,340	
Hazelnuts, in-shell (Oregon)	61,690	
Macadamias (Hawaii)		
Pecans, in-shell	131,770	
Pistachios (California)		
Walnuts, in-shell (California)	653,170	

¹ Production years are 2021-2022 and 2022-2023.

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2022. 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: 2018-2022

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

State and month	2018	2019	2020	2021	2022	State and month	2018	2019	2020	2021	2022
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	32,000	31,100	30,600	31,550	32,050	All corn					
October	32,000	30,950	30,400	31,550	32,500	September	27,100	25,850	27,450	26,750	26,450
November	32,000	30,900	30,400	31,500	32,450	October	26,750	25,850	27,450	26,650	26,250
Final	32,000	30,900	30,400	31,500		November	26,750	25,700	27,400	26,650	26,200
						Final	26,750	25,700	27,400	26,650	
Indiana						Irrigated					
September	30,450	29,300	29,850	29,700	29,050	September	30,300	28,300	29,950	29,350	29,000
October	30,400	29,050	29,800	29,650	28,550	October	29,900	28,350	30,100	29,300	28,950
November	30,400	29,000	29,850	29,750	28,600	November	29,900	28,300	30,100	29,300	28,850
Final	30,400	28,950	29,850	29,750		Final	29,900	28,300	30,100	29,300	
Iowa						Non-irrigated					
September	31,350	30,850	31,050	31,850	31,750	September	23,350	23,300	24,950	24,050	23,850
October	31,150	30,800	31,000	31,850	31,550	October	23,100	23,250	24,750	24,000	23,500
November	31,100	30,750	31,050	31,800	31,600	November	23,150	23,000	24,700	23,950	23,500
Final	31,100	30,750	31,050	31,800		Final	23,150	23,000	24,700	23,950	
Kansas						Ohio					
September	22,600	21,350	21,700	22,050	22,600	September	30,550	30,050	29,800	30,400	29,400
October	22,450	21,200	21,650	21,550	23,200	October	30,400	30,100	29,900	30,050	29,350
November	22,450	21,200	21,650	21,800	23,350	November	30,400	30,000	29,900	30,050	29,700
Final	22,450	21,200	21,650	21,800		Final	30,400	30,000	29,850	30,050	
Minnesota						South Dakota					
September	30,950	30,700	31,750	30,750	31,300	September	27,000	26,400	25,450	26,150	26,400
October	30,900	30,650	31,800	30,700	31,250	October	26,750	26,100	25,400	26,100	26,200
November	30,900	30,550	31,800	30,700	31,300	November	27,000	26,000	25,550	25,750	25,900
Final	30,900	30,650	31,800	30,700		Final	27,000	25,900	25,550	25,750	
Missouri						Wisconsin					
September	28,500	28,200	28,200	27,250	27,500	September	31,000	30,250	30,300	29,900	30,700
October	28,400	27,500	28,150	27,400	27,100	October	30,600	30,150	30,400	29,550	30,300
November	28,400	27,600	28,200	27,350	27,200	November	30,650	29,750	30,300	29,400	30,200
Final	28,400	27,600	28,200	27,350		Final	30,650	29,850	30,300	29,400	
						10 State					
						September	29,500	28,650	29,000	29,100	29,250
						October	29,350	28,500	28,950	29,000	29,200
						November	29,400	28,450	28,950	29,000	29,200
						Final	29,350	28,450	28,950	29,000	

Corn for Grain Number of Ears per Acre – Selected States: 2018-2022

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

State and month	2018	2019	2020	2021	2022	State and month	2018	2019	2020	2021	2022
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	31,550	30,300	29,900	31,100	31,500	All corn					
October	31,500	30,300	29,800	31,050	31,850	September ...	27,100	25,850	26,800	26,650	25,850
November	31,500	30,150	29,800	31,050	31,800	October	26,750	25,950	26,850	26,950	25,000
Final	31,500	30,150	29,800	31,050		November	26,800	25,700	26,750	26,800	24,950
						Final	26,800	25,700	26,750	26,800	
Indiana						Irrigated					
September	30,000	28,900	29,600	29,700	28,700	September ...	29,950	28,200	28,900	29,000	28,900
October	29,800	28,700	29,600	29,750	28,400	October	29,350	28,150	28,850	29,600	28,350
November	29,750	28,650	29,600	29,900	28,500	November	29,300	28,000	28,800	29,500	28,300
Final	29,750	28,600	29,600	29,900		Final	29,300	28,000	28,800	29,500	
Iowa						Non-irrigated					
September	31,150	30,250	30,600	31,750	30,850	September ...	23,850	23,500	24,650	24,250	22,700
October	30,900	30,200	30,450	31,800	30,800	October	23,650	23,700	24,800	24,200	21,600
November	30,800	30,100	30,550	31,800	30,800	November	23,850	23,400	24,700	24,050	21,600
Final	30,800	30,100	30,550	31,800		Final	23,850	23,400	24,700	24,050	
Kansas						Ohio					
September	22,350	21,550	22,050	22,250	22,800	September	30,750	29,850	29,350	30,650	29,250
October	21,650	22,250	21,250	21,450	22,300	October	30,300	29,750	29,700	30,350	29,250
November	21,700	22,200	21,250	21,700	22,100	November	30,300	29,550	29,700	30,350	29,550
Final	21,700	22,200	21,250	21,700		Final	30,300	29,550	29,650	30,350	
Minnesota						South Dakota					
September	30,850	30,050	31,750	30,800	31,200	September	28,100	26,450	25,550	26,250	25,300
October	30,850	29,800	31,850	30,650	31,450	October	27,750	25,300	25,550	26,150	24,700
November	30,800	29,650	31,850	30,600	31,450	November	27,950	25,000	25,700	25,400	24,250
Final	30,800	29,700	31,850	30,600		Final	28,050	24,900	25,700	25,400	
Missouri						Wisconsin					
September	27,400	26,950	27,650	26,900	26,300	September	30,700	29,850	30,050	30,100	29,900
October	27,300	26,950	27,600	26,950	26,200	October	30,450	30,250	30,400	29,500	29,550
November	27,300	27,100	27,650	26,950	26,300	November	30,450	29,850	30,350	29,400	29,400
Final	27,300	27,100	27,650	26,950		Final	30,450	29,950	30,350	29,400	
						10-State					
						September	29,350	28,200	28,650	29,050	28,650
						October	29,100	28,200	28,600	28,950	28,500
						November	29,100	28,050	28,600	28,850	28,450
						Final	29,100	28,050	28,600	28,850	

Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2018-2022

Year	October		November	
	Dent stage ¹	Mature ²	Dent stage ¹	Mature ²
	(percent)	(percent)	(percent)	(percent)
2018	13	80	(Z)	96
2019	49	29	1	94
2020	25	68	(Z)	96
2021	22	69	(Z)	94
2022	38	50	(Z)	94

(Z) Less than half of the unit shown.

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

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

Corn for Grain Percentage Distribution by Plant Population Per Acre – Selected States: 2018-2022

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						
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
2022	-	-	1.6	6.5	14.6	77.3
Indiana						
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
2022	3.7	5.6	7.4	14.8	22.2	46.3
Iowa						
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
2022	0.7	0.7	0.7	3.3	17.6	77.0
Kansas						
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
2022	19.2	9.6	20.5	11.0	20.5	19.2
Minnesota						
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
2022	1.8	2.6	1.8	7.0	14.9	71.9
Missouri						
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
2022	6.4	9.0	17.9	10.3	28.2	28.2
Nebraska						
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
2022	7.0	13.2	10.9	16.3	26.2	26.4
Ohio						
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
2022	2.4	3.5	3.5	15.3	27.1	48.2
South Dakota						
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
2022	8.3	12.5	18.8	27.0	16.7	16.7
Wisconsin						
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
2022	4.2	4.2	-	14.1	16.9	60.6

- Represents zero.

Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2018-2022

State and year	Row width (inches)					
	Less than 30	30	36	38	More than 38	
	(number)	(number)	(number)	(number)	(number)	
Illinois	2018	9	211	-	-	-
	2019	2	110	1	-	-
	2020	8	148	2	-	-
	2021	3	127	-	-	-
	2022	1	126	2	-	-
Indiana	2018	9	126	1	1	-
	2019	4	53	1	-	-
	2020	2	79	1	-	-
	2021	1	63	-	-	-
	2022	1	57	-	-	-
Iowa	2018	12	234	2	1	-
	2019	3	136	-	1	-
	2020	9	140	5	3	-
	2021	4	126	2	-	-
	2022	6	149	-	-	-
Kansas	2018	10	91	-	-	-
	2019	9	70	-	-	-
	2020	2	110	-	-	-
	2021	14	91	-	-	-
	2022	4	85	-	-	-
Minnesota	2018	21	97	3	2	-
	2019	15	63	3	1	-
	2020	25	109	-	1	-
	2021	22	73	-	1	-
	2022	17	99	1	-	-
Missouri	2018	5	90	1	2	1
	2019	5	30	1	2	-
	2020	7	99	-	5	-
	2021	2	72	1	5	-
	2022	5	69	1	4	-
Nebraska	2018	6	160	25	-	-
	2019	3	98	15	-	-
	2020	2	138	15	-	-
	2021	-	108	20	-	-
	2022	1	134	14	-	-
Ohio	2018	3	100	-	-	-
	2019	2	45	1	-	-
	2020	5	113	-	-	-
	2021	3	83	1	-	-
	2022	5	86	-	-	-
South Dakota	2018	8	92	2	2	-
	2019	5	45	-	1	-
	2020	11	62	2	2	-
	2021	3	55	2	-	-
	2022	6	45	1	-	-
Wisconsin	2018	4	108	4	2	-
	2019	1	39	-	-	-
	2020	3	78	1	2	-
	2021	2	71	2	2	-
	2022	2	72	1	1	-

- Represents zero.

Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2018-2022

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	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
	2022	123	-	82.1	16.3	1.6	-	-	30.1
Indiana	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
	2022	54	-	72.2	27.8	-	-	-	30.3
Iowa	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
	2022	153	2.6	78.4	19.0	-	-	-	29.9
Kansas	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
	2022	73	4.1	78.1	17.8	-	-	-	29.5
Minnesota	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
	2022	114	-	83.3	15.8	0.9	-	-	29.2
Missouri	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
	2022	78	3.8	69.2	19.2	2.6	2.6	2.6	30.8
Nebraska	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
	2022	129	0.8	65.8	24.0	7.8	1.6	-	30.8
Ohio	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
	2022	85	4.7	87.1	8.2	-	-	-	29.7
South Dakota	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
	2022	48	6.3	79.1	10.4	2.1	2.1	-	29.3
Wisconsin	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
	2022	71	-	63.4	31.0	2.8	1.4	1.4	30.6

- Represents zero.

Cotton Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in four cotton-producing States during 2022. 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: 2018-2022

[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	2018 (number)	2019 (number)	2020 (number)	2021 (number)	2022 (number)
Arkansas					
September	891	900	994	990	811
October	910	896	849	838	799
November	892	925	820	809	799
December	892	900	820	807	
Final	892	900	820	807	
Georgia					
September	605	598	606	597	605
October	737	783	747	658	648
November	712	790	761	669	705
December	719	799	784	694	
Final	713	803	785	694	
Louisiana ¹					
September	759	(NA)	(NA)	(NA)	(NA)
October	734	(NA)	(NA)	(NA)	(NA)
November	739	(NA)	(NA)	(NA)	(NA)
December	739	(NA)	(NA)	(NA)	
Final	739	(NA)	(NA)	(NA)	
Mississippi					
September	871	944	900	957	804
October	895	895	867	807	814
November	846	904	877	848	830
December	846	901	875	849	
Final	846	901	875	851	
North Carolina ¹					
September	601	(NA)	(NA)	(NA)	(NA)
October	641	(NA)	(NA)	(NA)	(NA)
November	714	(NA)	(NA)	(NA)	(NA)
December	719	(NA)	(NA)	(NA)	
Final	719	(NA)	(NA)	(NA)	
Texas					
September	570	458	576	491	583
October	576	438	581	512	615
November	553	456	595	538	629
December	583	459	608	539	
Final	582	461	608	539	
4-State ²					
September	627	551	645	567	641
October	661	562	661	573	668
November	640	579	671	595	692
December	659	580	683	599	
Final	657	593	693	597	

(NA) Not available.

¹ Objective yield survey discontinued in 2019.

² 6-State total prior to 2019.

Soybean Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 11 soybean-producing States during 2022. 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: 2018-2022

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

State and month	2018	2019	2020	2021	2022	State and month	2018	2019	2020	2021	2022
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						Missouri					
September	1,841	1,759	1,630	1,449	1,721	September	1,777	1,719	1,977	1,925	1,736
October	1,795	1,731	1,527	1,501	1,746	October	1,899	1,754	2,093	1,886	1,606
November	1,943	1,717	1,459	1,583	1,711	November	1,948	1,898	2,036	2,047	1,880
Final	1,973	1,828	1,418	1,623		Final	1,961	1,921	2,041	2,121	
Illinois						Nebraska					
September	2,132	1,696	2,019	2,080	1,896	September	1,736	1,669	1,943	1,887	1,592
October	2,225	1,683	2,127	2,120	1,888	October	2,071	1,777	2,002	2,069	1,597
November	2,249	1,601	2,170	2,222	2,010	November	2,174	1,722	1,980	2,148	1,586
Final	2,264	1,603	2,170	2,227		Final	2,174	1,722	1,980	2,148	
Indiana						North Dakota					
September	1,880	1,496	2,056	1,846	1,655	September	1,418	1,147	1,242	1,055	1,281
October	2,001	1,501	1,994	1,811	1,749	October	1,485	1,246	1,439	1,014	1,298
November	2,054	1,569	1,963	1,822	1,763	November	1,515	1,253	1,442	1,009	1,357
Final	2,052	1,561	1,959	1,836		Final	1,514	1,195	1,442	1,009	
Iowa						Ohio					
September	1,823	1,601	1,675	1,732	1,585	September	2,019	1,563	1,811	2,060	1,798
October	1,984	1,642	1,933	1,800	1,653	October	2,180	1,760	1,972	1,989	1,890
November	2,082	1,660	1,927	1,894	1,785	November	2,210	1,587	1,983	2,074	1,788
Final	2,097	1,682	1,927	1,890		Final	2,210	1,587	1,981	2,116	
Kansas						South Dakota					
September	1,552	1,561	1,650	1,404	1,456	September	1,649	1,504	1,688	1,626	1,258
October	1,456	1,604	1,699	1,480	1,400	October	1,867	1,316	1,720	1,526	1,291
November	1,548	1,596	1,629	1,551	1,392	November	1,822	1,331	1,696	1,512	1,305
Final	1,558	1,583	1,629	1,514		Final	1,724	1,353	1,696	1,522	
Minnesota						11-State					
September	1,605	1,465	1,607	1,603	1,468	September	1,786	1,561	1,780	1,717	1,604
October	1,616	1,474	1,782	1,545	1,581	October	1,895	1,593	1,882	1,725	1,628
November	1,569	1,458	1,751	1,557	1,610	November	1,938	1,582	1,866	1,788	1,690
Final	1,569	1,458	1,751	1,557		Final	1,938	1,586	1,865	1,798	

Soybean Frequency of Farmer Reported Row Widths – Selected States: 2018-2022

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas2018	9	36	47	36	83
.....2019	-	14	13	21	25
.....2020	5	14	14	36	49
.....2021	2	13	16	29	42
.....2022	6	18	15	31	44
Illinois2018	3	11	118	58	-
.....2019	2	5	82	33	1
.....2020	-	11	91	44	-
.....2021	2	7	80	38	-
.....2022	3	3	93	44	1
Indiana2018	1	19	110	14	-
.....2019	-	5	57	9	1
.....2020	1	11	87	8	-
.....2021	1	14	60	8	-
.....2022	-	11	56	6	-
Iowa2018	1	11	77	88	3
.....2019	1	9	51	66	-
.....2020	1	8	63	85	3
.....2021	2	3	61	69	1
.....2022	-	4	74	71	1
Kansas2018	2	17	35	54	1
.....2019	-	10	23	16	-
.....2020	1	9	19	27	-
.....2021	1	12	15	16	1
.....2022	1	5	24	19	-
Minnesota2018	3	8	34	45	2
.....2019	3	5	26	28	1
.....2020	3	5	35	51	1
.....2021	1	2	22	38	-
.....2022	1	3	30	42	-
Missouri2018	1	15	65	31	4
.....2019	1	5	38	10	1
.....2020	-	13	63	20	11
.....2021	1	6	48	21	5
.....2022	-	7	60	16	6
Nebraska2018	3	7	35	49	8
.....2019	-	6	37	49	5
.....2020	-	8	39	58	1
.....2021	1	9	31	50	4
.....2022	2	5	25	52	7

See footnote(s) at end of table.

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2018-2022 (continued)

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
North Dakota 2018	4	31	49	12	-
..... 2019	3	11	28	6	-
..... 2020	7	27	48	11	-
..... 2021	-	16	55	13	-
..... 2022	6	24	47	15	-
Ohio 2018	4	31	98	1	-
..... 2019	2	11	42	1	-
..... 2020	3	30	82	5	-
..... 2021	2	21	64	3	1
..... 2022	7	25	71	5	1
South Dakota 2018	2	4	27	61	1
..... 2019	4	-	18	30	-
..... 2020	-	-	43	44	-
..... 2021	-	3	26	38	-
..... 2022	-	4	22	47	1

- Represents zero.

¹ Includes broadcast soybeans.

Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2018-2022

Year	October	November
	Mature ¹	Mature ¹
	(percent)	(percent)
2018	57	93
2019	25	91
2020	64	94
2021	61	92
2022	42	90

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

Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2018-2022

State and year	Samples	Row width (inches)					Average row width ¹	
		10.0 or less ¹	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
Arkansas	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
	2022	113	13.3	14.6	2.7	25.7	43.7	28.3
Illinois	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
	2022	144	1.0	55.8	13.9	27.9	1.4	20.3
Indiana	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
	2022	71	9.2	71.6	12.1	7.1	-	16.0
Iowa	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
	2022	153	2.9	39.9	8.2	49.0	-	23.0
Kansas	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
	2022	48	9.4	44.7	4.2	41.7	-	20.9
Minnesota	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
	2022	77	2.6	20.1	21.4	55.9	-	24.8
Missouri	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
	2022	90	6.7	59.9	8.9	17.8	6.7	19.5
Nebraska	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
	2022	87	6.9	21.8	4.6	59.8	6.9	25.9

See footnote(s) at end of table.

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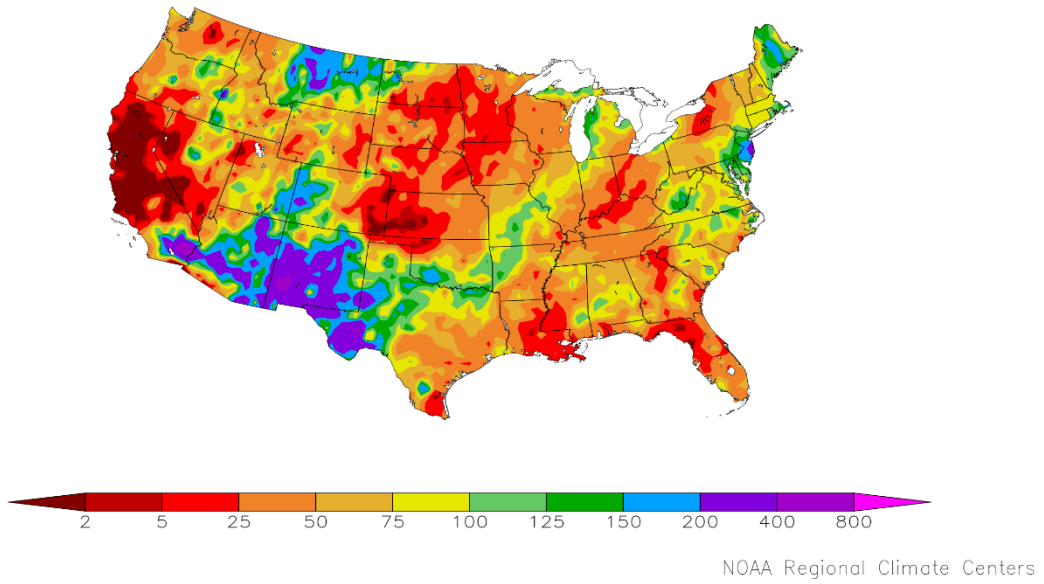
**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:
2018-2022 (continued)**

State and year	Samples	Row width (inches)					Average row width ¹
		10.0 or less ¹	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater	
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)
North Dakota2018	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
.....2022	95	23.2	47.3	12.6	15.3	1.6	16.9
Ohio2018	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
.....2022	107	19.6	72.5	2.8	4.2	0.9	14.7
South Dakota2018	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	14.8	33.6	46.2	2.3	24.4
.....2022	74	2.0	14.9	22.3	59.4	1.4	25.7

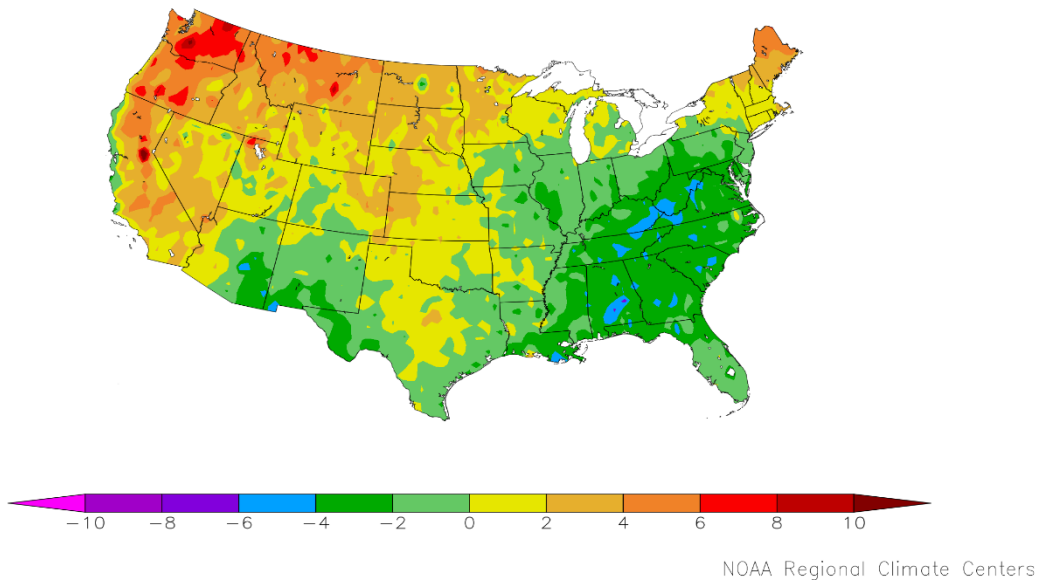
- Represents zero.

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

Percent of Normal Precipitation (%)
10/1/2022 – 10/31/2022



Departure from Normal Temperature (F)
10/1/2022 – 10/31/2022



October Weather Summary

In nearly all areas of the country, summer crop harvesting during October advanced at a torrid pace, amid frequently drier-than-normal conditions. By October 30, the Nation's rice harvest (97 percent complete) was nearly done, while progress had advanced beyond the three-quarters mark for sugarbeets (89 percent), soybeans (88 percent), peanuts (79 percent), sorghum (77 percent), and corn (76 percent). Except for rice, on par with the normal pace, all those harvest numbers were ahead of the respective 5-year averages. Meanwhile, winter wheat seeding progressed roughly on schedule (87 percent planted by October 30, versus the 5-year average of 85 percent), although emergence was hampered in some areas by lack of moisture and October freezes. Near the end of October, wheat emergence lagged the average pace by 7 to 32 percentage points in eight states—four on the Great Plains and four from the mid-South into the lower Midwest.

Cooler-than-normal October weather dominated areas from the middle and lower Mississippi Valley to the middle and southern Atlantic States. Southeastern monthly temperatures broadly averaged 2 to 4°F below normal. The chilliest weather arrived in two separate waves, about a week apart, in early to mid-October, with the latter cold snap resulting in freezes deep into the Gulf Coast States, including portions of Louisiana, Mississippi, Alabama, and northern Florida. In places where freezes occurred, the combination of dry weather and cold conditions curtailed pasture growth and limited winter wheat establishment. The cold weather also nipped a few immature summer crops, including double-cropped, late-planted soybeans. On October 9, about the time of the first round of freezes into the Ohio and Tennessee Valleys, 91 percent of the Nation's soybeans were dropping leaves. Those numbers were lower in states such as Kentucky (70 percent dropping leaves) and Tennessee (85 percent), although temperatures were only marginally low enough in those areas to cause freeze injury. In contrast, monthly temperatures averaged 4 to 8°F above normal in parts of the Northwest. It was the warmest October on record in Washington locations such as Omak (57.1°F, or 8.0°F above normal) and Spokane (55.0°F, or 7.1°F above normal).

Following the Nation's driest September since 1956, drier-than-normal weather continued to dominate many parts of the country in October. Among the areas receiving above-normal October precipitation were the northern Atlantic region and a swath from southeastern California to western Texas. A late-month storm system delivered much-needed moisture from the southern Plains to the Great Lakes region. Periods of beneficial precipitation also occurred from the Pacific Northwest to Montana and western North Dakota. Even with spotty precipitation, national topsoil moisture rated very short to short peaked on October 23 at 68 percent. By October 30, very short to short ratings at or above 70 percent were observed in a dozen states from the Rockies and Plains into the Southeast, led by Oklahoma (91 percent) and Kansas (89 percent). This year's dry autumn, superimposed on long-term drought, lowered river levels in the Mississippi River basin. During October, record-low water levels were observed on the Mississippi River from New Madrid, Missouri, downstream to Greenville, Mississippi. Previous record lows had been mostly set in July 1988 or August 2012, although Greenville's low-water mark had been established on January 4, 1964. The reduced water levels restricted barge traffic on the Nation's busiest inland waterway and necessitated dredging operations to widen and deepen the river channel.

Drought coverage in the contiguous United States stood at 62.95 percent on October 25 and 62.78 percent on November 1, up from a recent minimum of 44.02 percent on September 6, according to the *Drought Monitor*. Moderate to exceptional drought (D1 to D4) coverage was last higher in 2012, when coverage peaked at 65.45 percent on September 25. National drought coverage was last below 40 percent more than 2 years ago, on September 22, 2020. Finally, coverage of abnormal dryness (D0) and drought (D1 to D4) grew to a 21st century record of 85.28 percent by November 1, surpassing 80.76 percent on July 17, 2012.

As the month progressed, Northwestern precipitation helped to tamp down dozens of previously active wildfires. Still, by late October, national wildfires had burned more than 7.2 million acres of vegetation, well above the 10-year average of 6.7 million acres. January-October wildfires have charred more than 7 million acres in 5 of the last 8 years. Meanwhile, the Atlantic tropical basin turned relatively quiet again, following the early-month departure of Hurricane Ian's remnants. Named Atlantic tropical cyclones that formed during October were Julia, Karl, and Lisa—all three remained well south of the United States.

October Agricultural Summary

Apart from the Southwest, October was warmer than normal for most of the western half of the Nation. Areas in California, Montana, and Washington recorded temperatures 8°F or more above normal for the month. Except for New England, most of the eastern half of the Nation was cooler than normal. Parts of the Mississippi Valley, Ohio Valley, and Southeast recorded temperatures 4°F or more below normal. While much of the Nation remained drier than normal for the month, much of the Southwest and parts of coastal New Jersey and the Rockies recorded at least twice the normal amount of precipitation.

By October 2, ninety-six percent of this year's corn acreage was denting, 4 percentage points behind last year and 1 percentage point behind the 5-year average. Seventy-five percent of the Nation's corn acreage was mature by October 2, eleven percentage points behind last year but equal to the 5-year average. Twenty percent of the 2022 corn acreage was harvested by October 2, seven percentage points behind last year and 2 percentage points behind the 5-year average harvest pace. Ninety-four percent of the Nation's corn acreage was mature by October 16, three percentage points behind last year but 2 percentage points ahead of the 5-year average. Forty-five percent of the 2022 corn acreage was harvested by October 16, five percentage points behind last year but 5 percentage points ahead of the 5-year average harvest pace. On October 16, fifty-three percent of the Nation's corn acreage was rated in good to excellent condition, 7 percentage points below the same time last year. Seventy-six percent of the 2022 corn acreage was harvested by week's end, 3 percentage points ahead of last year and 12 percentage points ahead of the 5-year average harvest pace.

Soybean leaf drop was 81 percent complete Nationally by October 2, three percentage points behind last year but 2 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 22 percent complete by October 2, nine percentage points behind last year and 3 percentage points behind the 5-year average. Leaf drop was 96 percent complete Nationally by October 16, two percentage points ahead of both last year and the 5-year average. Soybean harvest across the Nation was 63 percent complete by October 16, five percentage points ahead of last year and 11 percentage points ahead of the 5-year average. On October 16, fifty-seven percent of the Nation's soybean acreage was rated in good to excellent condition, 2 percentage points below the previous year. Soybean harvest across the Nation was 88 percent complete by October 30, ten percentage points ahead of both last year and the 5-year average.

Nationwide, producers had sown 40 percent of the intended 2023 winter wheat acreage by October 2, five percentage points behind last year and 4 percentage points behind the 5-year average. Nationwide, 15 percent of the winter wheat acreage had emerged by October 2, three percentage points behind last year and 2 percentage points behind the 5-year average. Nationwide, producers had sown 69 percent of the intended 2023 winter wheat acreage by October 16, equal to last year but 1 percentage point ahead of the 5-year average. Nationwide, 38 percent of the winter wheat acreage had emerged by October 16, four percentage points behind last year and 6 percentage points behind the 5-year average. Nationwide, producers had sown 87 percent of the intended 2023 winter wheat acreage by October 30, one percentage point ahead of last year and 2 percentage points ahead of the 5-year average. Nationwide, 62 percent of the winter wheat acreage had emerged by October 30, three percentage points behind last year and 4 percentage points behind the 5-year average. As of October 30, twenty-eight percent of the 2023 winter wheat acreage was reported in good to excellent condition, 17 percentage points below the same time last year.

By October 2, seventy-seven percent of the Nation's cotton had open bolls, 8 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. By October 2, twenty-two percent of the Nation's cotton acreage was harvested, 9 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. By October 16, eighty-nine percent of the Nation's cotton had open bolls, 4 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. By October 16, thirty-seven percent of the Nation's cotton acreage was harvested, 10 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. On October 23, thirty percent of the 2022 cotton acreage was rated in good to excellent condition, 34 percentage points below the same time last year. By October 30, ninety-six percent of the Nation's cotton had open bolls, 2 percentage points ahead of both last year and the 5-year average. By October 30, fifty-five percent of the Nation's cotton acreage was harvested, 11 percentage points ahead of last year and 8 percentage points ahead of the 5-year average.

Ninety-six percent of the Nation's sorghum acreage was at or beyond the coloring stage by October 2, three percentage points behind last year and 1 percentage point behind the 5-year average. By October 2, sixty-nine percent of the Nation's

sorghum acreage was mature, 8 percentage points behind last year but 2 percentage points ahead of the 5-year average. Thirty-four percent of the 2022 sorghum acreage had been harvested by October 2, three percentage points behind last year and 1 percentage point behind the 5-year average. Ninety-one percent of Texas' sorghum acreage was harvested by October 2, eight percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Twenty-two percent of the Nation's sorghum acreage was rated in good to excellent condition on October 9, thirty-three percentage points below the same time last year. By October 16, eighty-nine percent of the Nation's sorghum acreage was mature, 3 percentage points behind last year but 2 percentage points ahead of the 5-year average. Fifty-seven percent of the 2022 sorghum acreage had been harvested by October 16, one percentage point behind last year but 8 percentage points ahead of the 5-year average. Seventy-seven percent of the 2022 sorghum acreage had been harvested by October 30, two percentage points behind last year but 8 percentage points ahead of the 5-year average.

Nationally, 70 percent of the rice acreage was harvested by October 2, one percentage point behind the previous year and 2 percentage points behind the 5-year average. Nationally, 89 percent of the rice acreage was harvested by October 16, one percentage point behind both the previous year and the 5-year average. Nationally, 97 percent of the rice acreage was harvested by October 30, equal to both last year and the 5-year average.

Twenty-eight percent of the Nation's peanut acreage was harvested as of October 2, ten percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Fifty-five percent of the Nation's peanut acreage was harvested as of October 16, eighteen percentage points ahead of last year and 8 percentage points ahead of the 5-year average. On October 16, sixty-two percent of the Nation's peanut acreage was rated in good to excellent condition, 9 percentage points below the same time last year. Seventy-nine percent of the Nation's peanut acreage was harvested as of October 30, fourteen percentage points ahead of last year and 9 percentage points ahead of the 5-year average.

By October 2, sugarbeet producers had harvested 19 percent of the Nation's crop, equal to last year but 6 percentage points behind the 5-year average. By October 16, sugarbeet producers had harvested 67 percent of the Nation's crop, 29 percentage points ahead of last year and 13 percentage points ahead of the 5-year average. By October 30, sugarbeet producers had harvested 89 percent of the Nation's crop, 5 percentage points ahead of last year and 7 percentage points ahead of the 5-year average.

By October 2, one percent of this year's sunflower crop was harvested, 4 percentage points behind last year and 3 percentage points behind the 5-year average. By October 16, twenty-two 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. By October 30, sixty percent of this year's sunflower crop was harvested, 9 percentage points ahead of last year and 15 percentage points ahead of the 5-year average.

Crop Comments

Corn: The 2022 corn harvested for grain acreage is forecast at 80.8 million acres, unchanged from the previous forecast but down 5 percent from last year.

The November 1 corn objective yield data indicate the sixth 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 13.9 billion bushels, the 2022 corn production for grain is forecast to be the seventh highest production on record for the United States. The forecasted yield, at 172.3 bushels per acre, is down 2 percent from last year's record high final estimate of 176.7 bushels per acre. Record high yields are forecast in California, Illinois, Virginia, Washington, and Wisconsin.

By October 2, ninety-six percent of this year's corn acreage was denting, 4 percentage points behind last year and 1 percentage point behind the 5-year average. Seventy-five percent of the Nation's corn acreage was mature by October 2, eleven percentage points behind last year but equal to the 5-year average. Twenty percent of the 2022 corn acreage was harvested by October 2, seven percentage points behind last year and 2 percentage points behind the 5-year average harvest pace.

Eighty-seven percent of the Nation's corn acreage was mature by October 9, six percentage points behind last year but 2 percentage points ahead of the 5-year average. Thirty-one percent of the 2022 corn acreage was harvested by October 9, eight percentage points behind last year but 1 percentage point ahead of the 5-year average.

Ninety-four percent of the Nation's corn acreage was mature by October 16, three percentage points behind last year but 2 percentage points ahead of the 5-year average. Forty-five percent of the 2022 corn acreage was harvested by October 16, five percentage points behind last year but 5 percentage points ahead of the 5-year average. On October 16, fifty-three percent of the Nation's corn acreage was rated in good to excellent condition, 7 percentage points below the same time last year.

Ninety-seven percent of the Nation's corn acreage was mature by October 23, three percentage points behind last year but equal to the 5-year average. Sixty-one percent of the 2022 corn acreage was harvested by October 23, three percentage points behind last year but 9 percentage points ahead of the 5-year average. Seventy-six percent of the 2022 corn acreage was harvested by October 30, three percentage points ahead of last year and 12 percentage points ahead of the 5-year average pace.

Sorghum: Production is forecast at 236 million bushels, down 4 percent from the previous forecast and down 47 percent from last year. Area harvested for grain is forecast at 5.48 million acres, unchanged from the previous forecast but down 16 percent from 2021. Based on conditions as of November 1, yield is forecast at 43.0 bushels per acre, down 1.6 bushels from the previous forecast and 26.0 bushels per acre below the 2021 yield of 69.0 bushels per acre.

As of October 29, seventy-seven percent of the sorghum acreage was harvested, 2 percentage points behind last year but 8 percentage points ahead of the 5-year average.

Rice: Production is forecast at 164 million cwt, down 1 percent from the previous forecast and down 14 percent from 2021. Harvested area is expected to total 2.18 million acres, unchanged from the previous forecast but down 13 percent from 2021. Based on conditions as of November 1, the average United States yield is forecast at 7,549 pounds per acre, down 50 pounds per acre from the previous forecast and down 160 pounds per acre from 2021.

Nationally, 97 percent of the rice acreage was harvested by October 30, equal to both last year and the five-year average.

Soybeans: Production is forecast at 4.35 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 50.2 bushels per acre, up 0.4 bushel from the previous forecast but down 1.5 bushels from last year. Area harvested for beans in the United States is forecast at 86.6 million acres, unchanged from the previous forecast but up less than 1 percent from 2021.

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 2021, pod counts are down in 8 of the 11 published States. Nebraska showed the greatest decrease, down 562 pods per 18 square feet from the previous year.

Soybean harvest was 22 percent complete as of October 2, nine percentage points behind last year and 3 percentage points behind the 5-year average. As of October 30, harvest was 88 percent complete Nationwide, 10 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Despite soybean progress lagging in many States throughout the growing season, harvest progress was ahead of the 5-year average in all 18 States estimated in the *Crop Progress* report by October 30.

If realized, the forecasted yield will be a record high in Arkansas, Mississippi, and South Carolina.

Peanuts: Production is forecast at 5.77 billion pounds in 2022, unchanged from the previous forecast but down 9 percent from the 2021 total of 6.36 billion pounds. Area harvested is expected to total 1.41 million acres, unchanged from the previous forecast but down 8 percent from 2021. Based on conditions as of November 1, the average yield for the United States is forecast at 4,090 pounds per acre, unchanged from the previous forecast but down 40 pounds per acre from 2021. Record high yields are forecast for South Carolina and Virginia.

Seventy-nine percent of the Nation's peanut acreage was harvested as of October 30, fourteen percentage points ahead of last year and 9 percentage points ahead of the five-year average.

Cotton: Upland harvested area for the Nation is expected to total 7.71 million acres, unchanged from the previous forecast but down 24 percent from last year. Expected Pima harvested area at 164,500 acres is unchanged from the previous estimate but up 33 percent from last year. If realized, Upland harvested area for Texas will be the lowest on record.

As of October 29, ninety-six percent of cotton acreage was at or beyond the bolls opening stage, 2 percentage points ahead of last year and the 5-year average. Fifty-five percent of cotton acreage had been harvested by October 29, nine percentage points ahead of last year and 8 percentage points ahead of the 5-year average.

Ginnings totaled 4,384,250 running bales prior to November 1, compared with 3,542,900 running bales ginned prior to the same date last year.

Sugarbeets: Production of sugarbeets for the 2022 crop year is forecast at 33.5 million tons, up 1 percent from last month but down 9 percent from last year. Producers expect to harvest 1.15 million acres, unchanged from last month but up 4 percent from last year. Yield is forecast at 29.1 tons per acre, up 0.3 ton from last month but down 4.1 tons from last year.

Sugarcane: Production of sugarcane for sugar and seed is forecast at 34.3 million tons, up slightly from the previous forecast and up 4 percent from last season. Producers intend to harvest 923,500 acres for sugar and seed during the 2022 crop year, up slightly from last month but down 1 percent from 2021. Yields for sugar and seed are expected to average 37.1 tons per acre, unchanged from last month but up 2.0 tons from last season.

Potatoes: Production of potatoes for the 2022 crop year is forecast at 397 million cwt, down 3 percent from last year. Planted acreage, at 912,000 acres, is up slightly from the June estimate but down 2 percent from last season. Area harvested, at 906,100 acres, is down 2 percent from the previous year. The yield forecast, at 438 cwt per acre, is down 6 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 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 6,100 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 114 million bushels, ranging from 4 million bushels to 395 million bushels. The November 1 forecast has been below the final estimate 8 times and above 12 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	114	4	395	8	12
Peanut ¹ pounds	4.9	8.5	207	10	662	14	6
Potato cwt	2.2	3.8	6	1	37	14	6
Rice cwt	1.5	2.6	2	(Z)	11	14	6
Sorghum for grain bushels	5.0	8.7	14	1	33	11	9
Soybeans for beans bushels	1.8	3.0	49	2	171	12	8
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 ¹ bales	5.1	8.8	565	50	2,474	6	14

(Z) Less than half of the unit shown.

¹ Quantity is in thousands of units.

USDA, National Agricultural Statistics Service Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@usda.gov

Lance Honig, Chief, Crops Branch	(202) 720-2127
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Irwin Anolik – Crop Weather	(202) 720-7621
Joshua Bates – Hemp, 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
Deonne Holiday – Almonds, Asparagus, Carrots, Coffee, Cranberries, Onions, Plums, Prunes, Sweet Corn, Tobacco	(202) 720-4288
Robert Little – Apricots, Dry Beans, Lettuce, Macadamia, Maple Syrup, Nectarines, Pears, Snap Beans, Spinach, Tomatoes	(202) 720-3250
Krishna Rizal – Artichokes, Cauliflower, Celery, Garlic, Grapefruit, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges, Pistachios	(202) 720-5412
Chris Singh – Apples, Blueberries, Cucumbers, Hazelnuts, Potatoes, Pumpkins, Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes.....	(202) 720-4285
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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2022 USDA Fall Virtual Data Users' Meeting

November 15, 2022

FREE AND OPEN TO THE PUBLIC



USDA Fall Data Users' Meeting

Virtual Meeting

November 15, 2022

12:00 – 3:30 p.m. ET

USDA's National Agricultural Statistics Service (NASS) will hold an open forum for users of U.S. domestic and international agriculture data. NASS is organizing the 2022 Fall Data Users' Meeting in cooperation with five other USDA agencies – Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board – and the Census Bureau's Foreign Trade Division. Agency representatives will provide updates on recent and pending changes in statistical and information programs important to agriculture, answer questions, and welcome comments and input from data users. Registration details will be coming soon.