



Released November 8, 2019, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Special Note

Survey respondents who reported barley, oats, Durum wheat, and other spring wheat acreage as not yet harvested during the surveys conducted in preparation for the *Small Grains 2019 Summary*, released September 30, 2019, were re-contacted in late October to determine how many of those acres were actually harvested and record the actual production from those acres. When the small grains producers were surveyed in September there were a significant number of unharvested acres of:

- Barley in Idaho, Maine, Minnesota, Montana, North Dakota, Oregon, South Dakota, and Washington
- Oats in Idaho, Maine, Minnesota, Montana, North Dakota, Oregon, and South Dakota
- Durum wheat in Idaho, Montana, and North Dakota
- Other spring wheat in Idaho, Minnesota, Montana, North Dakota, South Dakota, and Washington

Based on this updated information, several changes were made to the estimates previously published in the *Small Grains 2019 Summary*. Unharvested production is a component of on-farm stocks, therefore, changes were made to the September 1 on-farm stocks levels comparable with the production adjustments. Detailed estimates by State can be found on pages 14 through 24.

As a result of snowfall during the first part of October, NASS collected harvested acreage information for corn and soybeans in Minnesota and North Dakota to assess the full impact on harvested acreage for this report. Based on the reported data, no changes to harvested acreage for corn or soybeans were made this month in Minnesota or North Dakota.

Harvested acreage for sugarbeets were also reviewed for this report. Substantial changes were made to Minnesota and North Dakota harvested acres. Detailed estimates for all States can be found on page 11.

As is done every year in November, planted and harvested acreage estimates were reviewed for potatoes and updated as needed based on all available data, including the latest certified acreage data from the Farm Service Agency (FSA). All States in the estimating program for potatoes were subject to review and updating. Detailed estimates can be found on page 12.

Corn Production Down 1 Percent from October Forecast Soybean Production Down Slightly Cotton Production Down 4 Percent

Corn production for grain is forecast at 13.7 billion bushels, down 1 percent from the previous forecast and down 5 percent from last year. Based on conditions as of November 1, yields are expected to average 167.0 bushels per harvested acre, down 1.4 bushels from the previous forecast and down 9.4 bushels from 2018. Area harvested for grain is forecast at 81.8 million acres, unchanged from the previous forecast but up slightly from 2018.

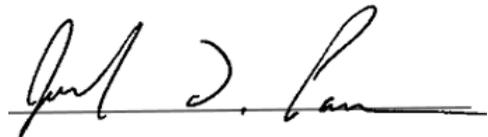
Soybean production for beans is forecast at 3.55 billion bushels, down slightly from the previous forecast and down 20 percent from last year. Based on conditions as of November 1, yields are expected to average 46.9 bushels per acre, unchanged from the previous forecast but down 3.7 bushels from 2018. Area harvested for beans in the United States is forecast at 75.6 million acres, unchanged from the previous forecast but down 14 percent from 2018.

All cotton production is forecast at 20.8 million 480-pound bales, down 4 percent from the previous forecast but up 13 percent from 2018. Based on conditions as of November 1, yields are expected to average 799 pounds per harvested acre, down 34 pounds from the previous forecast and down 65 pounds from 2018. Upland cotton production is forecast at 20.1 million 480-pound bales, down 4 percent from the previous forecast but up 14 percent from 2018. Pima cotton production is forecast at 747,000 bales, up 3 percent from the previous forecast but down 7 percent from 2018. All cotton area harvested is forecast at 12.5 million acres, unchanged from the previous forecast, but up 23 percent from 2018.

This report was approved on November 8, 2019.



Secretary of Agriculture
Designate
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Agricultural Statistics Board
Chairperson
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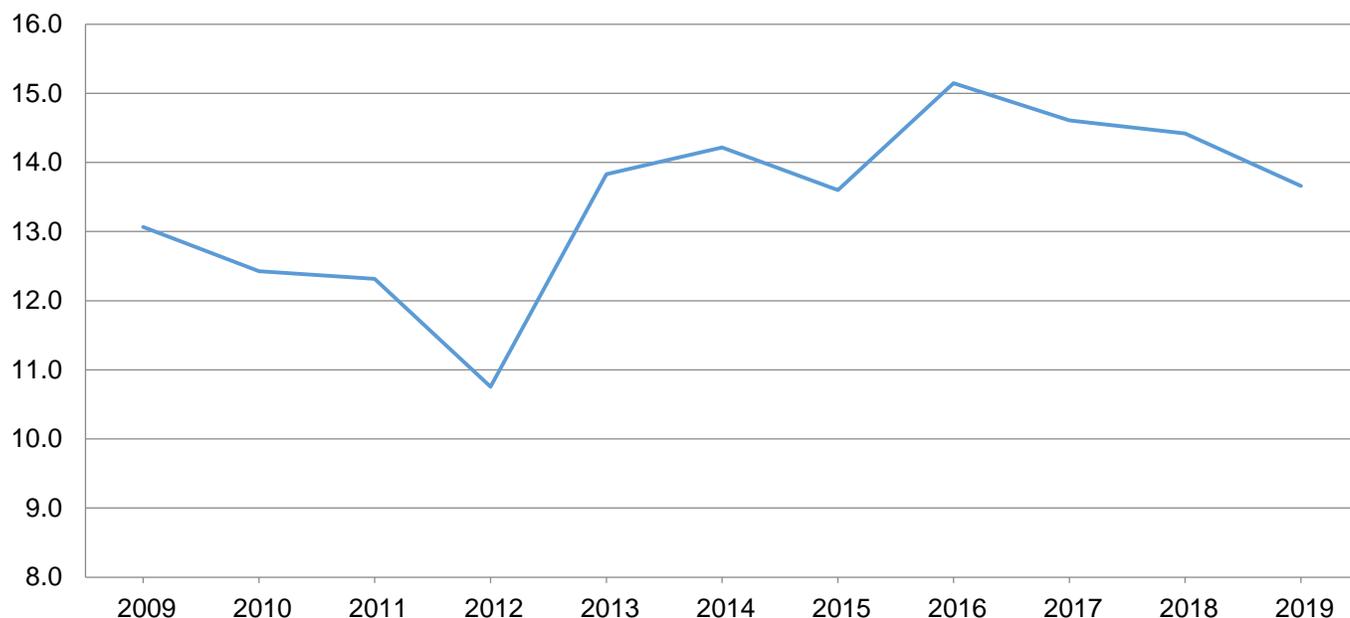
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted November 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	250	305	156.0	151.0	156.0	39,000	47,580
Arkansas	645	740	181.0	175.0	175.0	116,745	129,500
California	65	90	173.0	165.0	160.0	11,245	14,400
Colorado	1,200	1,260	130.0	144.0	140.0	156,000	176,400
Delaware	166	180	145.0	150.0	148.0	24,070	26,640
Georgia	285	345	176.0	168.0	168.0	50,160	57,960
Idaho	135	125	213.0	210.0	210.0	28,755	26,250
Illinois	10,850	10,250	210.0	179.0	179.0	2,278,500	1,834,750
Indiana	5,200	4,900	189.0	162.0	165.0	982,800	808,500
Iowa	12,800	13,100	196.0	192.0	192.0	2,508,800	2,515,200
Kansas	5,000	6,000	129.0	136.0	133.0	645,000	798,000
Kentucky	1,230	1,450	175.0	178.0	177.0	215,250	256,650
Louisiana	450	550	173.0	166.0	164.0	77,850	90,200
Maryland	390	440	146.0	167.0	163.0	56,940	71,720
Michigan	1,940	1,740	153.0	155.0	151.0	296,820	262,740
Minnesota	7,490	7,310	182.0	173.0	170.0	1,363,180	1,242,700
Mississippi	465	625	185.0	174.0	174.0	86,025	108,750
Missouri	3,330	3,050	140.0	155.0	155.0	466,200	472,750
Nebraska	9,310	9,750	192.0	186.0	182.0	1,787,520	1,774,500
New York	645	530	159.0	153.0	148.0	102,555	78,440
North Carolina	830	910	113.0	110.0	107.0	93,790	97,370
North Dakota	2,930	3,310	153.0	146.0	142.0	448,290	470,020
Ohio	3,300	2,590	187.0	160.0	163.0	617,100	422,170
Oklahoma	280	325	134.0	142.0	142.0	37,520	46,150
Pennsylvania	950	960	140.0	160.0	160.0	133,000	153,600
South Carolina	310	345	127.0	110.0	105.0	39,370	36,225
South Dakota	4,860	3,920	160.0	154.0	151.0	777,600	591,920
Tennessee	690	920	168.0	175.0	174.0	115,920	160,080
Texas	1,750	2,050	108.0	142.0	137.0	189,000	280,850
Virginia	325	375	146.0	148.0	140.0	47,450	52,500
Washington	85	85	220.0	210.0	210.0	18,700	17,850
Wisconsin	3,170	2,840	172.0	163.0	163.0	545,240	462,920
Other States ¹	414	445	153.9	170.2	170.2	63,706	75,720
United States	81,740	81,815	176.4	168.4	167.0	14,420,101	13,661,005

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 2019 Summary*.

Corn Production – United States

Billion bushels



Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted November 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas ¹	10	(NA)	77.0	(NA)	(NA)	770	(NA)
Colorado	325	325	53.0	45.0	48.0	17,225	15,600
Georgia ¹	15	(NA)	53.0	(NA)	(NA)	795	(NA)
Illinois ¹	16	(NA)	111.0	(NA)	(NA)	1,776	(NA)
Kansas	2,650	2,400	88.0	82.0	86.0	233,200	206,400
Louisiana ¹	6	(NA)	84.0	(NA)	(NA)	504	(NA)
Mississippi ¹	3	(NA)	90.0	(NA)	(NA)	270	(NA)
Missouri ¹	21	(NA)	100.0	(NA)	(NA)	2,100	(NA)
Nebraska	170	140	94.0	93.0	98.0	15,980	13,720
New Mexico ¹	47	(NA)	38.0	(NA)	(NA)	1,786	(NA)
North Carolina ¹	8	(NA)	60.0	(NA)	(NA)	480	(NA)
Oklahoma	240	270	50.0	52.0	52.0	12,000	14,040
South Dakota	200	180	80.0	83.0	86.0	16,000	15,480
Texas	1,350	1,400	46.0	68.0	66.0	62,100	92,400
United States	5,061	4,715	72.1	73.9	75.9	364,986	357,640

(NA) Not available.

¹ Estimates discontinued in 2019.

Rice Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted November 1, 2019

State	Area harvested		Yield per acre			Production ¹	
	2018	2019	2018	2019		2018	2019
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,427	1,126	7,520	7,500	7,500	107,325	84,450
California	504	493	8,620	8,800	8,700	43,425	42,891
Louisiana	436	415	7,130	6,650	6,600	31,094	27,390
Mississippi	139	116	7,350	7,350	7,350	10,217	8,526
Missouri	220	173	7,770	7,500	7,500	17,090	12,975
Texas	189	154	7,970	7,600	7,600	15,060	11,704
United States	2,915	2,477	7,692	7,616	7,587	224,211	187,936

¹ Includes sweet rice production.

Rice Production by Class – United States: 2018 and Forecasted November 1, 2019

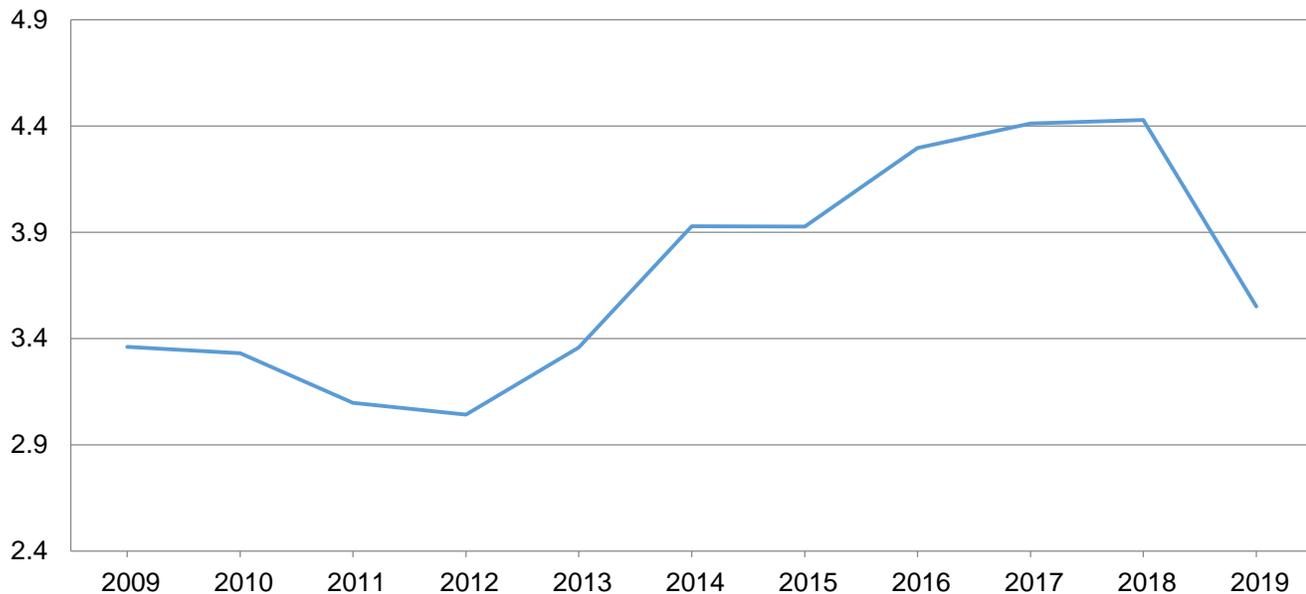
Year	Long grain	Medium grain	Short grain ¹	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2018	163,956	57,339	2,916	224,211
2019 ²	127,062	58,598	2,276	187,936

¹ Sweet rice production included with short grain.

² The 2019 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: 2018 and Forecasted November 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	335	265	40.0	40.0	37.0	13,400	9,805
Arkansas	3,210	2,600	50.5	50.0	50.0	162,105	130,000
Delaware	168	153	41.5	43.0	38.0	6,972	5,814
Florida ¹	12	(NA)	37.0	(NA)	(NA)	444	(NA)
Georgia	130	95	39.5	28.0	26.0	5,135	2,470
Illinois	10,500	9,940	63.5	51.0	51.0	666,750	506,940
Indiana	5,960	5,370	57.5	48.0	49.0	342,700	263,130
Iowa	9,830	9,130	56.0	53.0	53.0	550,480	483,890
Kansas	4,690	4,540	43.0	43.0	44.0	201,670	199,760
Kentucky	1,930	1,690	51.0	49.0	50.0	98,430	84,500
Louisiana	1,190	860	51.5	48.0	48.0	61,285	41,280
Maryland	515	475	47.5	45.0	45.0	24,463	21,375
Michigan	2,310	1,720	47.5	44.0	42.0	109,725	72,240
Minnesota	7,650	6,820	49.0	44.0	45.0	374,850	306,900
Mississippi	2,190	1,620	54.0	51.0	50.0	118,260	81,000
Missouri	5,780	5,030	44.5	46.0	46.0	257,210	231,380
Nebraska	5,590	4,950	58.0	56.0	57.0	324,220	282,150
New Jersey	107	95	39.5	41.0	41.0	4,227	3,895
New York	325	230	52.0	46.0	46.0	16,900	10,580
North Carolina	1,570	1,530	33.0	37.0	36.0	51,810	55,080
North Dakota	6,840	5,550	35.0	35.0	33.0	239,400	183,150
Ohio	5,020	4,270	56.0	48.0	48.0	281,120	204,960
Oklahoma	600	440	28.0	28.0	26.0	16,800	11,440
Pennsylvania	630	625	44.5	50.0	48.0	28,035	30,000
South Carolina	330	330	29.0	29.0	29.0	9,570	9,570
South Dakota	5,580	3,560	45.0	43.0	43.0	251,100	153,080
Tennessee	1,670	1,380	45.5	47.0	47.0	75,985	64,860
Texas	135	68	31.5	29.0	31.0	4,253	2,108
Virginia	590	560	42.0	38.0	34.0	24,780	19,040
West Virginia ¹	27	(NA)	53.0	(NA)	(NA)	1,431	(NA)
Wisconsin	2,180	1,730	48.0	46.0	46.0	104,640	79,580
United States	87,594	75,626	50.6	46.9	46.9	4,428,150	3,549,977

(NA) Not available.

¹ Estimates discontinued in 2019.

Peanut Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted November 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	161.0	157.0	3,550	3,300	3,700	571,550	580,900
Arkansas	23.0	34.0	4,900	5,000	5,000	112,700	170,000
Florida	143.0	155.0	3,950	4,000	4,100	564,850	635,500
Georgia	655.0	660.0	4,390	4,200	4,300	2,875,450	2,838,000
Mississippi	24.0	19.0	3,900	4,300	4,300	93,600	81,700
New Mexico	5.5	5.0	2,850	3,200	3,200	15,675	16,000
North Carolina	98.0	101.0	3,870	4,300	4,400	379,260	444,400
Oklahoma	15.0	15.0	3,070	3,700	3,700	46,050	55,500
South Carolina	80.0	62.0	3,400	3,500	3,600	272,000	223,200
Texas	145.0	150.0	3,200	3,300	3,300	464,000	495,000
Virginia	24.0	25.0	4,200	4,100	4,100	100,800	102,500
United States	1,373.5	1,383.0	4,001	3,964	4,080	5,495,935	5,642,700

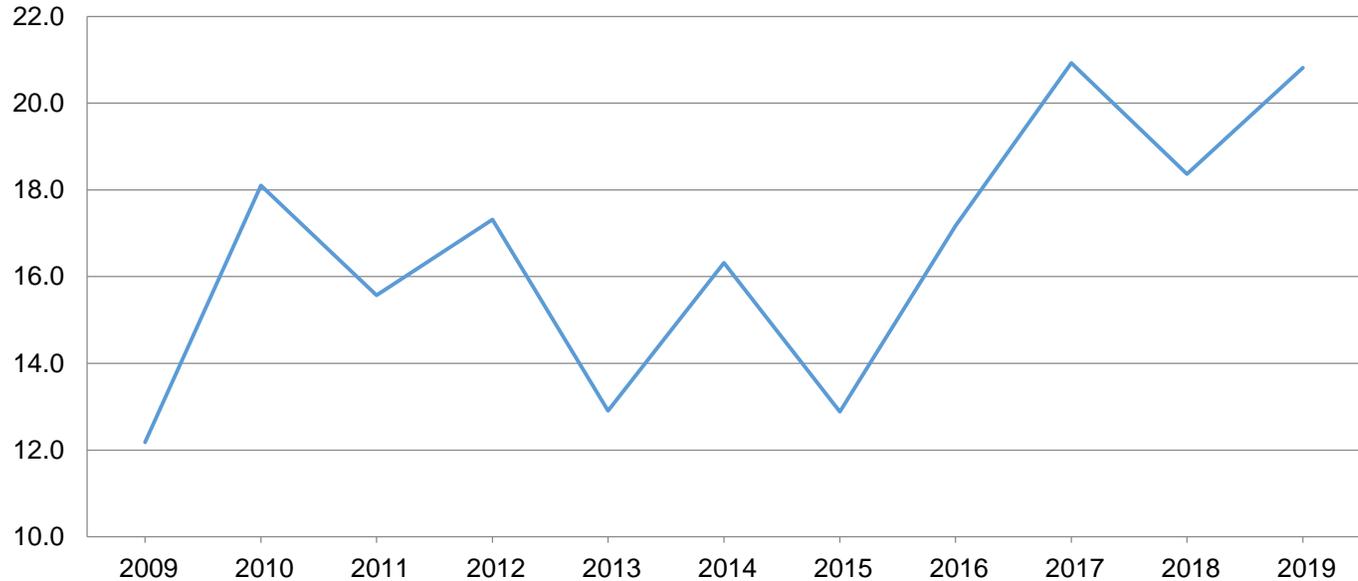
Cottonseed Production – United States: 2018 and Forecasted November 1, 2019

State	Production	
	2018	2019 ¹
	(1,000 tons)	(1,000 tons)
United States	5,631.0	6,453.0

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: 2018 and Forecasted November 1, 2019

Type and State	Area harvested		Yield per acre			Production ¹	
	2018	2019	2018	2019		2018	2019
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) ²	(1,000 bales) ²
Upland							
Alabama	497.0	535.0	858	951	969	888.0	1,080.0
Arizona	159.0	159.0	1,319	1,525	1,555	437.0	515.0
Arkansas	480.0	610.0	1,133	1,157	1,102	1,133.0	1,400.0
California	47.0	54.0	1,910	1,742	1,778	187.0	200.0
Florida	93.0	111.0	532	930	930	103.0	215.0
Georgia	1,305.0	1,390.0	719	932	932	1,955.0	2,700.0
Kansas	152.0	160.0	1,077	960	840	341.0	280.0
Louisiana	189.0	270.0	1,067	1,013	1,031	420.0	580.0
Mississippi	615.0	710.0	1,141	1,115	1,082	1,462.0	1,600.0
Missouri	322.0	368.0	1,373	1,265	1,265	921.0	970.0
New Mexico	56.0	45.0	977	1,120	1,173	114.0	110.0
North Carolina	415.0	495.0	812	921	931	702.0	960.0
Oklahoma	550.0	575.0	595	701	609	682.0	730.0
South Carolina	275.0	295.0	733	765	814	420.0	500.0
Tennessee	355.0	400.0	1,041	1,128	1,116	770.0	930.0
Texas	4,350.0	6,000.0	756	624	568	6,850.0	7,100.0
Virginia	97.0	104.0	896	1,015	923	181.0	200.0
United States	9,957.0	12,281.0	847	820	784	17,566.0	20,070.0
American Pima							
Arizona	14.5	8.0	943	1,020	1,020	28.5	17.0
California	210.0	204.0	1,662	1,593	1,647	727.0	700.0
New Mexico	6.8	5.4	812	800	800	11.5	9.0
Texas	17.5	11.0	933	916	916	34.0	21.0
United States	248.8	228.4	1,545	1,522	1,570	801.0	747.0
All							
Alabama	497.0	535.0	858	951	969	888.0	1,080.0
Arizona	173.5	167.0	1,288	1,500	1,529	465.5	532.0
Arkansas	480.0	610.0	1,133	1,157	1,102	1,133.0	1,400.0
California	257.0	258.0	1,707	1,624	1,674	914.0	900.0
Florida	93.0	111.0	532	930	930	103.0	215.0
Georgia	1,305.0	1,390.0	719	932	932	1,955.0	2,700.0
Kansas	152.0	160.0	1,077	960	840	341.0	280.0
Louisiana	189.0	270.0	1,067	1,013	1,031	420.0	580.0
Mississippi	615.0	710.0	1,141	1,115	1,082	1,462.0	1,600.0
Missouri	322.0	368.0	1,373	1,265	1,265	921.0	970.0
New Mexico	62.8	50.4	959	1,086	1,133	125.5	119.0
North Carolina	415.0	495.0	812	921	931	702.0	960.0
Oklahoma	550.0	575.0	595	701	609	682.0	730.0
South Carolina	275.0	295.0	733	765	814	420.0	500.0
Tennessee	355.0	400.0	1,041	1,128	1,116	770.0	930.0
Texas	4,367.5	6,011.0	757	625	569	6,884.0	7,121.0
Virginia	97.0	104.0	896	1,015	923	181.0	200.0
United States	10,205.8	12,509.4	864	833	799	18,367.0	20,817.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

Sugarbeet Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted November 1, 2019

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

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California ¹	24.6	24.2	44.4	43.9	43.9	1,092	1,062
Colorado	25.5	24.5	32.6	33.0	33.3	831	816
Idaho	163.0	166.0	40.5	40.2	40.0	6,602	6,640
Michigan	147.0	145.0	29.1	27.5	27.9	4,278	4,046
Minnesota	408.0	335.0	25.7	27.0	26.5	10,486	8,878
Montana	42.4	41.6	31.1	31.3	31.8	1,319	1,323
Nebraska	44.1	43.6	31.9	27.6	27.8	1,407	1,212
North Dakota	199.0	149.0	28.8	28.3	28.1	5,731	4,187
Oregon	9.3	9.7	39.4	39.3	39.3	366	381
Washington	1.8	2.0	48.2	48.3	48.2	87	96
Wyoming	30.7	30.6	30.8	27.4	28.0	946	857
United States	1,095.4	971.2	30.3	30.1	30.4	33,145	29,498

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: 2018 and Forecasted November 1, 2019

State	Area harvested		Yield per acre ¹			Production ¹	
	2018	2019	2018	2019		2018	2019
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	412.3	411.0	41.9	44.2	44.1	17,256	18,125
Louisiana	448.5	473.0	35.4	32.0	31.0	15,861	14,663
Texas	38.9	33.3	36.6	37.5	37.2	1,425	1,239
United States	899.7	917.3	38.4	37.6	37.1	34,542	34,027

¹ Net tons.

Potato Area Planted and Harvested – States and United States: 2018 and 2019

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2018 (1,000 acres)	2019 (1,000 acres)	2018 (1,000 acres)	2019 ¹ (1,000 acres)
Alaska ²	0.5	(NA)	0.5	(NA)
California	38.5	40.0	38.3	39.6
Colorado	55.3	51.3	55.0	51.0
San Luis Valley	51.8	48.6	51.6	48.4
All other areas	3.5	2.7	3.4	2.6
Florida	22.0	26.0	20.8	25.3
Idaho	315.0	310.0	315.0	308.0
Illinois ²	7.7	(NA)	7.6	(NA)
Kansas ²	3.3	(NA)	3.3	(NA)
Maine	49.0	52.0	48.5	51.5
Maryland ²	2.2	(NA)	2.0	(NA)
Michigan	50.0	49.0	48.0	47.5
Minnesota	44.0	46.0	43.5	44.0
Missouri ²	7.8	(NA)	7.4	(NA)
Montana ²	11.1	(NA)	11.1	(NA)
Nebraska	19.5	20.0	19.3	19.7
New Jersey ²	2.0	(NA)	2.0	(NA)
New York ²	14.3	(NA)	13.4	(NA)
North Carolina ²	13.0	(NA)	12.2	(NA)
North Dakota	74.5	73.0	73.0	59.0
Oregon	45.0	42.0	45.0	42.0
Texas	18.0	17.5	17.5	17.3
Virginia ²	4.8	(NA)	4.4	(NA)
Washington	160.0	165.0	160.0	165.0
Wisconsin	69.0	70.0	67.0	69.0
United States	1,026.5	961.8	1,014.8	938.9

(NA) Not available.

¹ Forecasted.

² Estimates discontinued in 2019.

Potato Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted November 1, 2019

State	Area harvested		Yield per acre		Production	
	2018 (1,000 acres)	2019 (1,000 acres)	2018 (cwt)	2019 (cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Alaska ¹	0.5	(NA)	280	(NA)	140	(NA)
California	38.3	39.6	404	430	15,457	17,028
Colorado	55.0	51.0	395	386	21,722	19,666
San Luis Valley	51.6	48.4	390	380	20,124	18,392
All other areas	3.4	2.6	470	490	1,598	1,274
Florida	20.8	25.3	265	270	5,512	6,831
Idaho	315.0	308.0	450	435	141,750	133,980
Illinois ¹	7.6	(NA)	375	(NA)	2,850	(NA)
Kansas ¹	3.3	(NA)	430	(NA)	1,419	(NA)
Maine	48.5	51.5	310	320	15,035	16,480
Maryland ¹	2.0	(NA)	255	(NA)	510	(NA)
Michigan	48.0	47.5	380	410	18,240	19,475
Minnesota	43.5	44.0	430	410	18,705	18,040
Missouri ¹	7.4	(NA)	225	(NA)	1,665	(NA)
Montana ¹	11.1	(NA)	350	(NA)	3,885	(NA)
Nebraska	19.3	19.7	480	470	9,264	9,259
New Jersey ¹	2.0	(NA)	265	(NA)	530	(NA)
New York ¹	13.4	(NA)	290	(NA)	3,886	(NA)
North Carolina ¹	12.2	(NA)	190	(NA)	2,318	(NA)
North Dakota	73.0	59.0	325	355	23,725	20,945
Oregon	45.0	42.0	600	540	27,000	22,680
Texas	17.5	17.3	425	440	7,438	7,612
Virginia ¹	4.4	(NA)	235	(NA)	1,034	(NA)
Washington	160.0	165.0	630	615	100,800	101,475
Wisconsin	67.0	69.0	405	420	27,135	28,980
United States	1,014.8	938.9	443	450	450,020	422,451

(NA) Not available.

¹ Estimates discontinued in 2019.

Oat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted ¹			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Alabama ²	40	40	(NA)	10	15	(NA)
Arkansas	11	10	5	8	7	3
California	110	110	75	10	6	2
Colorado ²	50	95	(NA)	9	7	(NA)
Georgia	50	60	70	15	15	15
Idaho	50	40	60	10	10	12
Illinois	35	40	70	20	25	10
Iowa	115	135	215	42	33	69
Kansas	100	120	120	25	18	18
Maine	22	21	22	21	19	19
Michigan	55	75	70	40	50	25
Minnesota	170	180	240	95	105	100
Missouri	30	35	50	13	16	6
Montana	70	70	70	18	23	24
Nebraska	110	125	120	35	22	18
New York	55	69	56	35	43	39
North Carolina	35	30	22	10	11	7
North Dakota	295	300	355	80	105	115
Ohio	60	55	75	20	30	25
Oklahoma	45	50	100	16	10	25
Oregon	25	20	20	10	5	9
Pennsylvania	70	65	85	40	35	50
South Carolina ²	20	19	(NA)	8	7	(NA)
South Dakota	290	290	245	60	95	75
Texas	455	450	400	60	50	40
Washington ²	16	17	(NA)	4	4	(NA)
Wisconsin	180	200	265	85	90	120
Wyoming ²	25	25	(NA)	5	9	(NA)
United States	2,589	2,746	2,810	804	865	826

See footnote(s) at end of table.

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**Oat Area Planted and Harvested, Yield, and Production – States and United States:
2017-2019 (continued)**

State	Yield			Production		
	2017 (bushels)	2018 (bushels)	2019 (bushels)	2017 (1,000 bushels)	2018 (1,000 bushels)	2019 (1,000 bushels)
Alabama ²	60.0	63.0	(NA)	600	945	(NA)
Arkansas	85.0	75.0	70.0	680	525	210
California	65.0	70.0	60.0	650	420	120
Colorado ²	65.0	50.0	(NA)	585	350	(NA)
Georgia	49.0	71.0	55.0	735	1,065	825
Idaho	71.0	84.0	92.0	710	840	1,104
Illinois	79.0	83.0	65.0	1,580	2,075	650
Iowa	77.0	63.0	58.0	3,234	2,079	4,002
Kansas	54.0	49.0	64.0	1,350	882	1,152
Maine	67.0	67.0	76.0	1,407	1,273	1,444
Michigan	54.0	63.0	57.0	2,160	3,150	1,425
Minnesota	75.0	59.0	62.0	7,125	6,195	6,200
Missouri	65.0	45.0	47.0	845	720	282
Montana	47.0	43.0	55.0	846	989	1,320
Nebraska	49.0	69.0	63.0	1,715	1,518	1,134
New York	55.0	54.0	60.0	1,925	2,322	2,340
North Carolina	66.0	66.0	71.0	660	726	497
North Dakota	58.0	82.0	86.0	4,640	8,610	9,890
Ohio	70.0	65.0	46.0	1,400	1,950	1,150
Oklahoma	42.0	48.0	50.0	672	480	1,250
Oregon	83.0	99.0	97.0	830	495	873
Pennsylvania	58.0	46.0	53.0	2,320	1,610	2,650
South Carolina ²	51.0	62.0	(NA)	408	434	(NA)
South Dakota	70.0	82.0	82.0	4,200	7,790	6,150
Texas	45.0	50.0	50.0	2,700	2,500	2,000
Washington ²	42.0	46.0	(NA)	168	184	(NA)
Wisconsin	59.0	61.0	54.0	5,015	5,490	6,480
Wyoming ²	85.0	57.0	(NA)	425	513	(NA)
United States	61.7	64.9	64.3	49,585	56,130	53,148

(NA) Not available.

¹ Includes area planted in preceding fall.

² Estimates discontinued in 2019.

Barley Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted ¹			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alaska	(X)	5	6	(X)	4	5
Arizona	20	14	17	17	11	14
California	75	65	60	29	26	43
Colorado	70	60	54	68	53	52
Delaware	32	25	21	18	14	14
Idaho	530	550	540	510	530	520
Kansas ²	(NA)	17	14	(NA)	6	4
Maine ²	(NA)	17	16	(NA)	16	15
Maryland	50	45	32	27	24	17
Michigan ²	(NA)	20	11	(NA)	5	8
Minnesota	80	80	70	68	67	55
Montana	770	790	920	565	600	740
New York ²	(NA)	10	10	(NA)	8	4
North Carolina ²	(NA)	11	11	(NA)	8	6
North Dakota	520	470	580	400	385	445
Oregon	47	43	40	38	26	31
Pennsylvania	60	45	35	45	33	25
South Dakota ²	(NA)	48	37	(NA)	13	9
Utah	25	21	17	18	16	10
Virginia	30	30	30	11	9	7
Washington	95	85	95	85	67	84
Wisconsin ²	(NA)	25	24	(NA)	10	8
Wyoming	82	72	81	63	51	66
United States ³	2,486	2,548	2,721	1,962	1,982	2,182

See footnote(s) at end of table.

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**Barley Area Planted and Harvested, Yield, and Production – States and United States:
2017-2019 (continued)**

State	Yield			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alaska	(X)	43.0	38.0	(X)	172	190
Arizona	131.0	100.0	126.0	2,227	1,100	1,764
California	50.0	69.0	66.0	1,450	1,794	2,838
Colorado	132.0	145.0	138.0	8,976	7,685	7,176
Delaware	85.0	78.0	80.0	1,530	1,092	1,120
Idaho	95.0	101.0	104.0	48,450	53,530	54,080
Kansas ²	(NA)	31.0	33.0	(NA)	186	132
Maine ²	(NA)	73.0	82.0	(NA)	1,168	1,230
Maryland	76.0	70.0	85.0	2,052	1,680	1,445
Michigan ²	(NA)	43.0	44.0	(NA)	215	352
Minnesota	76.0	76.0	67.0	5,168	5,092	3,685
Montana	51.0	56.0	59.0	28,815	33,600	43,660
New York ²	(NA)	58.0	52.0	(NA)	464	208
North Carolina ²	(NA)	80.0	66.0	(NA)	640	396
North Dakota	65.0	74.0	72.0	26,000	28,490	32,040
Oregon	62.0	53.0	78.0	2,356	1,378	2,418
Pennsylvania	70.0	63.0	70.0	3,150	2,079	1,750
South Dakota ²	(NA)	55.0	43.0	(NA)	715	387
Utah	75.0	86.0	93.0	1,350	1,376	930
Virginia	73.0	70.0	65.0	803	630	455
Washington	53.0	73.0	70.0	4,505	4,891	5,880
Wisconsin ²	(NA)	45.0	46.0	(NA)	450	368
Wyoming	102.0	100.0	107.0	6,426	5,100	7,062
United States ³	73.0	77.5	77.7	143,258	153,527	169,566

(NA) Not available.

(X) Not applicable.

¹ Includes area planted in preceding fall.

² Estimates began in 2018.

³ Beginning in 2018, United States total includes data for Alaska. For 2017, Alaska data is not included in United States total.

All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted ¹			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Alabama	150	160	130	100	110	85
Arizona	115	96	34	105	77	33
Arkansas	200	175	110	125	95	50
California	420	425	420	182	147	122
Colorado	2,260	2,260	2,150	2,029	1,954	2,000
Delaware	75	75	60	60	45	50
Florida ²	20	15	(NA)	10	10	(NA)
Georgia	160	200	150	70	70	50
Idaho	1,175	1,191	1,195	1,109	1,136	1,125
Illinois	500	600	650	470	560	550
Indiana	290	310	330	240	260	260
Iowa ²	16	16	(NA)	8	6	(NA)
Kansas	7,600	7,700	6,900	6,950	7,300	6,500
Kentucky	480	450	460	310	300	330
Louisiana ²	20	15	(NA)	13	10	(NA)
Maryland	410	360	345	185	200	165
Michigan	480	510	540	425	470	480
Minnesota	1,170	1,621	1,450	1,135	1,575	1,400
Mississippi	45	55	45	25	30	21
Missouri	640	740	550	540	520	390
Montana	5,140	5,390	5,450	4,665	5,165	5,175
Nebraska	1,120	1,100	1,070	1,020	1,010	970
Nevada ²	29	23	(NA)	14	8	(NA)
New Jersey	23	18	19	17	15	14
New Mexico	330	320	360	135	105	105
New York	140	110	90	125	95	66
North Carolina	450	460	290	375	370	225
North Dakota	6,680	7,735	7,505	6,260	7,635	6,620
Ohio	490	490	500	460	450	385
Oklahoma	4,500	4,400	4,200	2,900	2,500	2,750
Oregon	775	800	740	763	770	730
Pennsylvania	210	195	180	150	145	140
South Carolina	90	80	70	75	65	45
South Dakota	1,887	1,883	1,500	1,196	1,628	1,375
Tennessee	370	380	280	275	285	215
Texas	4,700	4,500	4,500	2,350	1,750	2,050
Utah	134	130	125	120	103	116
Virginia	210	230	180	145	155	105
Washington	2,195	2,220	2,260	2,140	2,165	2,205
West Virginia ²	8	7	(NA)	4	3	(NA)
Wisconsin	210	240	195	170	200	150
Wyoming	135	130	125	105	115	110
United States	46,052	47,815	45,158	37,555	39,612	37,162

See footnote(s) at end of table.

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**All Wheat Area Planted and Harvested, Yield, and Production – States and United States:
2017-2019 (continued)**

State	Yield			Production		
	2017 (bushels)	2018 (bushels)	2019 (bushels)	2017 (1,000 bushels)	2018 (1,000 bushels)	2019 (1,000 bushels)
Alabama	77.0	72.0	72.0	7,700	7,920	6,120
Arizona	100.8	102.6	104.0	10,589	7,898	3,432
Arkansas	52.0	55.0	52.0	6,500	5,225	2,600
California	68.2	81.5	59.4	12,404	11,985	7,244
Colorado	43.2	36.1	49.0	87,598	70,504	98,000
Delaware	73.0	71.0	72.0	4,380	3,195	3,600
Florida ²	37.0	36.0	(NA)	370	360	(NA)
Georgia	47.0	54.0	56.0	3,290	3,780	2,800
Idaho	81.8	91.9	87.8	90,723	104,410	98,755
Illinois	76.0	66.0	67.0	35,720	36,960	36,850
Indiana	74.0	71.0	62.0	17,760	18,460	16,120
Iowa ²	68.0	58.0	(NA)	544	348	(NA)
Kansas	48.0	38.0	52.0	333,600	277,400	338,000
Kentucky	77.0	66.0	76.0	23,870	19,800	25,080
Louisiana ²	46.0	65.0	(NA)	598	650	(NA)
Maryland	71.0	63.0	75.0	13,135	12,600	12,375
Michigan	79.0	76.0	71.0	33,575	35,720	34,080
Minnesota	66.9	59.0	57.0	75,935	92,930	79,800
Mississippi	58.0	49.0	47.0	1,450	1,470	987
Missouri	68.0	59.0	63.0	36,720	30,680	24,570
Montana	27.3	38.3	42.4	127,430	197,630	219,265
Nebraska	46.0	49.0	57.0	46,920	49,490	55,290
Nevada ²	105.7	112.5	(NA)	1,480	900	(NA)
New Jersey	64.0	62.0	66.0	1,088	930	924
New Mexico	30.0	15.0	30.0	4,050	1,575	3,150
New York	67.0	69.0	63.0	8,375	6,555	4,158
North Carolina	55.0	57.0	56.0	20,625	21,090	12,600
North Dakota	37.9	47.6	48.5	237,133	363,483	320,760
Ohio	74.0	75.0	56.0	34,040	33,750	21,560
Oklahoma	34.0	28.0	40.0	98,600	70,000	110,000
Oregon	63.0	67.0	68.0	48,069	51,590	49,640
Pennsylvania	72.0	65.0	73.0	10,800	9,425	10,220
South Carolina	49.0	54.0	48.0	3,675	3,510	2,160
South Dakota	34.8	44.4	48.0	41,678	72,294	66,055
Tennessee	70.0	65.0	67.0	19,250	18,525	14,405
Texas	29.0	32.0	34.0	68,150	56,000	69,700
Utah	52.0	52.0	54.0	6,240	5,356	6,264
Virginia	66.0	60.0	62.0	9,570	9,300	6,510
Washington	66.6	70.8	64.7	142,500	153,210	142,735
West Virginia ²	69.0	46.0	(NA)	276	138	(NA)
Wisconsin	68.0	71.0	64.0	11,560	14,200	9,600
Wyoming	28.0	34.0	43.0	2,940	3,910	4,730
United States	46.4	47.6	51.7	1,740,910	1,885,156	1,920,139

(NA) Not available.

¹ Includes area planted in preceding fall.

² Estimates discontinued in 2019.

Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado ¹	10	10	(NA)	9	4	(NA)
Idaho	430	460	460	415	445	440
Minnesota	1,160	1,610	1,450	1,130	1,570	1,400
Montana	2,500	2,900	2,900	2,290	2,820	2,760
Nevada ¹	15	10	(NA)	9	3	(NA)
North Dakota	5,350	6,550	6,700	5,050	6,490	5,950
Oregon ¹	75	80	(NA)	73	75	(NA)
South Dakota	970	1,050	640	670	965	605
Utah ¹	14	10	(NA)	12	9	(NA)
Washington	495	520	510	490	515	505
United States	11,019	13,200	12,660	10,148	12,896	11,660

State	Yield			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado ¹	82.0	76.0	(NA)	738	304	(NA)
Idaho	85.0	95.0	89.0	35,275	42,275	39,160
Minnesota	67.0	59.0	57.0	75,710	92,630	79,800
Montana	21.0	34.0	37.0	48,090	95,880	102,120
Nevada ¹	105.0	100.0	(NA)	945	300	(NA)
North Dakota	41.0	49.0	49.0	207,050	318,010	291,550
Oregon ¹	63.0	67.0	(NA)	4,599	5,025	(NA)
South Dakota	31.0	42.0	43.0	20,770	40,530	26,015
Utah ¹	52.0	52.0	(NA)	624	468	(NA)
Washington	45.0	54.0	47.0	22,050	27,810	23,735
United States	41.0	48.3	48.2	415,851	623,232	562,380

(NA) Not available.

¹ Estimates discontinued in 2019.

Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona	90	74	34	89	73	33
California	35	45	30	27	37	22
Idaho	25	11	5	24	11	5
Montana	890	840	550	785	775	515
North Dakota	1,260	1,100	720	1,175	1,075	600
South Dakota ¹	7	3	(NA)	6	3	(NA)
United States	2,307	2,073	1,339	2,106	1,974	1,175

State	Yield			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arizona	101.0	106.0	104.0	8,989	7,738	3,432
California	92.0	95.0	102.0	2,484	3,515	2,244
Idaho	77.0	85.0	87.0	1,848	935	435
Montana	16.0	30.0	43.0	12,560	23,250	22,145
North Dakota	24.5	39.5	42.5	28,788	42,463	25,500
South Dakota ¹	18.0	28.0	(NA)	108	84	(NA)
United States	26.0	39.5	45.7	54,777	77,985	53,756

(NA) Not available.

¹ Estimates discontinued in 2019.

Wheat Production by Class – United States: 2017-2019

[Wheat class estimates are based on the latest available data including both surveys and administrative data]

Crop	2017	2018	2019
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Winter			
Hard red	750,132	662,249	833,181
Soft red	293,222	285,558	239,166
Hard white	23,724	19,347	19,954
Soft white	203,204	216,785	211,702
Spring			
Hard red	384,193	587,007	521,557
Hard white	8,772	13,510	11,831
Soft white	22,886	22,715	28,992
Durum	54,777	77,985	53,756
Total	1,740,910	1,885,156	1,920,139

Oat and Barley Stocks by Position – States and United States: September 1, 2019

State	Oats			Barley		
	On farms	Off farms ¹	Total all positions	On farms	Off farms ¹	Total all positions
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	(NA)	(D)	(D)	(NA)	(D)	(D)
Arizona	(NA)	(D)	(D)	(D)	(D)	(D)
Arkansas	(D)	46	(D)	(NA)	(D)	(D)
California	(D)	140	(D)	(D)	1,256	(D)
Colorado	(NA)	51	51	(D)	6,130	(D)
Delaware	(NA)	(D)	(D)	(D)	(D)	(D)
Florida	(NA)	(D)	(D)	(NA)	(D)	(D)
Georgia	(D)	46	(D)	(NA)	(D)	(D)
Idaho	(D)	106	(D)	36,000	23,255	59,255
Illinois	(D)	89	(D)	(NA)	(D)	(D)
Indiana	(NA)	59	59	(NA)	(D)	(D)
Iowa	2,800	(D)	(D)	(NA)	(D)	(D)
Kansas	(D)	306	(D)	(D)	(D)	(D)
Kentucky	(NA)	41	41	(NA)	(D)	(D)
Louisiana	(NA)	57	57	(NA)	(D)	(D)
Maryland	(NA)	20	20	(D)	33	(D)
Michigan	(D)	484	(D)	(D)	(D)	(D)
Minnesota	4,500	(D)	(D)	2,700	3,660	6,360
Mississippi	(NA)	(D)	(D)	(NA)	(D)	(D)
Missouri	(D)	(D)	(D)	(NA)	(D)	(D)
Montana	1,400	24	1,424	37,000	9,669	46,669
Nebraska	1,000	(D)	(D)	(NA)	(D)	(D)
Nevada	(NA)	(D)	(D)	(NA)	(D)	(D)
New England	(D)	(D)	(D)	(D)	(D)	(D)
New Jersey	(NA)	(D)	(D)	(NA)	(D)	(D)
New Mexico	(NA)	(D)	(D)	(NA)	(D)	(D)
New York	(D)	49	(D)	(D)	(D)	(D)
North Carolina	(D)	73	(D)	(D)	114	(D)
North Dakota	3,700	1,347	5,047	23,500	13,707	37,207
Ohio	(D)	(D)	(D)	(NA)	(D)	(D)
Oklahoma	(D)	83	(D)	(NA)	(D)	(D)
Oregon	(D)	228	(D)	1,200	473	1,673
Pennsylvania	1,900	390	2,290	(D)	582	(D)
South Carolina	(NA)	(D)	(D)	(NA)	(D)	(D)
South Dakota	4,400	1,192	5,592	270	6	276
Tennessee	(NA)	(D)	(D)	(NA)	(D)	(D)
Texas	(D)	(D)	(D)	(NA)	(D)	(D)
Utah	(NA)	21	21	(D)	(D)	(D)
Virginia	(NA)	21	21	(D)	107	(D)
Washington	(NA)	54	54	2,050	4,067	6,117
West Virginia	(NA)	(D)	(D)	(NA)	(D)	(D)
Wisconsin	3,200	2,879	6,079	(D)	3,574	(D)
Wyoming	(NA)	(D)	(D)	(D)	(D)	(D)
Unallocated ²	15,000	14,410	39,360	14,000	6,481	32,277
United States	37,900	22,216	60,116	116,720	73,114	189,834

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

¹ Includes stocks at mills, elevators, warehouses, terminals, and processors.

² "Off farms unallocated" includes State data withheld to avoid disclosure of individual operations. "On farms unallocated" includes minor producing States' data not published separately.

All Wheat Stocks by Position – States and United States: September 1, 2019

State	2019		
	On farms	Off farms ¹	Total all positions
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	(D)	5,924	(D)
Arizona	(D)	5,046	(D)
Arkansas	100	4,086	4,186
California	1,100	13,646	14,746
Colorado	31,500	50,789	82,289
Delaware	(D)	2,222	(D)
Florida	(NA)	1,375	1,375
Georgia	(D)	3,164	(D)
Idaho	41,000	51,208	92,208
Illinois	6,300	30,475	36,775
Indiana	1,900	21,722	23,622
Iowa	(NA)	2,849	2,849
Kansas	31,500	442,074	473,574
Kentucky	(D)	13,936	(D)
Louisiana	(NA)	4,303	4,303
Maryland	(D)	6,963	(D)
Michigan	4,100	46,233	50,333
Minnesota	67,000	46,094	113,094
Mississippi	(D)	1,407	(D)
Missouri	4,100	22,369	26,469
Montana	164,000	42,692	206,692
Nebraska	8,600	62,935	71,535
Nevada	(NA)	(D)	(D)
New England	(NA)	(D)	(D)
New Jersey	(D)	552	(D)
New Mexico	(D)	456	(D)
New York	(D)	10,632	(D)
North Carolina	2,600	8,465	11,065
North Dakota	245,000	98,203	343,203
Ohio	1,800	58,748	60,548
Oklahoma	12,000	161,739	173,739
Oregon	13,000	37,067	50,067
Pennsylvania	(D)	10,496	(D)
South Carolina	(D)	1,040	(D)
South Dakota	43,000	39,585	82,585
Tennessee	(D)	8,452	(D)
Texas	4,900	99,101	104,001
Utah	(D)	6,462	(D)
Virginia	(D)	7,506	(D)
Washington	16,500	138,544	155,044
West Virginia	(NA)	(D)	(D)
Wisconsin	(D)	38,302	(D)
Wyoming	(D)	(D)	(D)
Unallocated ²	34,500	2,243	159,303
United States	734,500	1,609,105	2,343,605

(D) Withheld to avoid disclosing data for individual operations.

(NA) Not available.

¹ Includes stocks at mills, elevators, warehouses, terminals, and processors.

² "Off farms unallocated" includes State data withheld to avoid disclosure of individual operations. "On farms unallocated" includes minor producing States' data not published separately.

Durum Wheat Stocks by Position – States and United States: September 1, 2019

[Included in All wheat]

State	2019		
	On farms (1,000 bushels)	Off farms ¹ (1,000 bushels)	Total all positions (1,000 bushels)
Montana	21,500	2,894	24,394
North Dakota	27,000	7,289	34,289
Other States	1,100	28,654	29,754
United States	49,600	38,837	88,437

¹ Includes stocks at mills, elevators, warehouses, terminals, and processors.

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Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Grains and hay				
Barley	2,548	2,721	1,982	2,182
Corn for grain ¹	89,129	89,942	81,740	81,815
Corn for silage	(NA)		6,113	
Hay, all	(NA)	(NA)	52,839	52,773
Alfalfa	(NA)	(NA)	16,608	16,828
All other	(NA)	(NA)	36,231	35,945
Oats	2,746	2,810	865	826
Proso millet	443	433	403	
Rice	2,946	2,540	2,915	2,477
Rye	2,011	1,865	273	310
Sorghum for grain ¹	5,690	5,260	5,061	4,715
Sorghum for silage	(NA)		264	
Wheat, all	47,815	45,158	39,612	37,162
Winter	32,542	31,159	24,742	24,327
Durum	2,073	1,339	1,974	1,175
Other spring	13,200	12,660	12,896	11,660
Oilseeds				
Canola	1,990.7	2,040.0	1,942.5	1,994.0
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	208	355	198	340
Mustard seed	102.5	110.0	97.5	104.5
Peanuts	1,425.5	1,425.0	1,373.5	1,383.0
Rapeseed	5.7	14.8	5.4	14.0
Safflower	167.5	153.0	156.4	145.5
Soybeans for beans	89,167	76,457	87,594	75,626
Sunflower	1,301.0	1,358.8	1,217.4	1,306.9
Cotton, tobacco, and sugar crops				
Cotton, all	14,100.3	13,761.5	10,205.8	12,509.4
Upland	13,850.0	13,531.0	9,957.0	12,281.0
American Pima	250.3	230.5	248.8	228.4
Sugarbeets	1,113.1	1,134.9	1,095.4	971.2
Sugarcane	(NA)	(NA)	899.7	917.3
Tobacco	(NA)	(NA)	291.4	228.6
Dry beans, peas, and lentils				
Austrian winter peas ²	16.4	(NA)	10.9	(NA)
Chickpeas ³	859.6	445.2	842.8	437.0
Dry edible beans ³	2,081.0	1,307.5	2,016.0	1,260.5
Dry edible peas ²	856.5	1,097.0	807.9	1,046.0
Lentils	780.0	481.0	718.0	459.0
Wrinkled seed peas ²	(NA)	(NA)	(NA)	(NA)
Potatoes and miscellaneous				
Hops	(NA)	(NA)	55.0	55.8
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		58.5	
Potatoes	1,026.5	961.8	1,014.8	938.9
Spearmint oil	(NA)		20.8	
Taro (Hawaii) ⁴	(NA)	(NA)	0.3	(NA)

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per acre		Production		
	2018	2019	2018 (1,000)	2019 (1,000)	
Grains and hay					
Barley	bushels	77.5	77.7	153,527	169,566
Corn for grain	bushels	176.4	167.0	14,420,101	13,661,005
Corn for silage	tons	19.9		121,361	
Hay, all	tons	2.34	2.48	123,600	130,932
Alfalfa	tons	3.17	3.22	52,634	54,219
All other	tons	1.96	2.13	70,966	76,713
Oats	bushels	64.9	64.3	56,130	53,148
Proso millet	bushels	29.8		11,991	
Rice ⁵	cwt	7,692	7,587	224,211	187,936
Rye	bushels	30.9	34.3	8,432	10,622
Sorghum for grain	bushels	72.1	75.9	364,986	357,640
Sorghum for silage	tons	12.6		3,326	
Wheat, all	bushels	47.6	51.7	1,885,156	1,920,139
Winter	bushels	47.9	53.6	1,183,939	1,304,003
Durum	bushels	39.5	45.7	77,985	53,756
Other spring	bushels	48.3	48.2	623,232	562,380
Oilseeds					
Canola	pounds	1,861	1,860	3,615,440	3,709,110
Cottonseed	tons	(X)	(X)	5,631.0	6,453.0
Flaxseed	bushels	22.6		4,466	
Mustard seed	pounds	750		73,078	
Peanuts	pounds	4,001	4,080	5,495,935	5,642,700
Rapeseed	pounds	1,524		8,230	
Safflower	pounds	1,511		236,380	
Soybeans for beans	bushels	50.6	46.9	4,428,150	3,549,977
Sunflower	pounds	1,731	1,724	2,107,045	2,252,700
Cotton, tobacco, and sugar crops					
Cotton, all ⁵	bales	864	799	18,367.0	20,817.0
Upland ⁵	bales	847	784	17,566.0	20,070.0
American Pima ⁵	bales	1,545	1,570	801.0	747.0
Sugarbeets	tons	30.3	30.4	33,145	29,498
Sugarcane	tons	38.4	37.1	34,542	34,027
Tobacco	pounds	1,830	1,960	533,241	448,062
Dry beans, peas, and lentils					
Austrian winter peas ^{2 5}	cwt	1,138	(NA)	124	(NA)
Chickpeas ^{3 5}	cwt	1,512	1,642	12,742	7,174
Dry edible beans ^{3 5}	cwt	1,860	1,889	37,494	23,812
Dry edible peas ^{2 5}	cwt	1,972	2,131	15,929	22,289
Lentils ⁵	cwt	1,171	1,428	8,408	6,553
Wrinkled seed peas ²	cwt	(NA)	(NA)	389	(NA)
Potatoes and miscellaneous					
Hops	pounds	1,943	1,906	106,906.7	106,371.0
Maple syrup	gallons	(NA)	(NA)	4,199	4,240
Mushrooms	pounds	(NA)	(NA)	917,235	846,491
Peppermint oil	pounds	92		5,377	
Potatoes	cwt	443	450	450,020	422,451
Spearmint oil	pounds	124		2,571	
Taro (Hawaii) ⁴	pounds	9,630	(NA)	2,985	(NA)

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Beginning in 2019, Austrian winter peas and wrinkled seed peas are included in dry edible peas.

³ Beginning in 2019, chickpeas are excluded from dry edible beans.

⁴ Estimates discontinued in 2019.

⁵ Yield in pounds.

Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2018	2019	2018	2019
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,031,150	1,101,160	802,100	883,030
Corn for grain ¹	36,069,620	36,398,630	33,079,360	33,109,710
Corn for silage	(NA)		2,473,870	
Hay, all ²	(NA)	(NA)	21,383,410	21,356,710
Alfalfa	(NA)	(NA)	6,721,090	6,810,120
All other	(NA)	(NA)	14,662,320	14,546,580
Oats	1,111,280	1,137,180	350,060	334,270
Proso millet	179,280	175,230	163,090	
Rice	1,192,220	1,027,910	1,179,670	1,002,420
Rye	813,830	754,750	110,480	125,450
Sorghum for grain ¹	2,302,690	2,128,670	2,048,140	1,908,110
Sorghum for silage	(NA)		106,840	
Wheat, all ²	19,350,250	18,274,990	16,030,580	15,039,090
Winter	13,169,420	12,609,740	10,012,840	9,844,890
Durum	838,920	541,880	798,860	475,510
Other spring	5,341,910	5,123,380	5,218,880	4,718,690
Oilseeds				
Canola	805,620	825,570	786,110	806,950
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	84,180	143,660	80,130	137,590
Mustard seed	41,480	44,520	39,460	42,290
Peanuts	576,890	576,680	555,840	559,690
Rapeseed	2,310	5,990	2,190	5,670
Safflower	67,790	61,920	63,290	58,880
Soybeans for beans	36,084,990	30,941,380	35,448,420	30,605,090
Sunflower	526,500	549,890	492,670	528,890
Cotton, tobacco, and sugar crops				
Cotton, all ²	5,706,250	5,569,140	4,130,190	5,062,430
Upland	5,604,960	5,475,860	4,029,500	4,970,000
American Pima	101,290	93,280	100,690	92,430
Sugarbeets	450,460	459,280	443,300	393,030
Sugarcane	(NA)	(NA)	364,100	371,220
Tobacco	(NA)	(NA)	117,940	92,520
Dry beans, peas, and lentils				
Austrian winter peas ³	6,640	(NA)	4,410	(NA)
Chickpeas ⁴	347,870	180,170	341,070	176,850
Dry edible beans ⁴	842,160	529,130	815,860	510,110
Dry edible peas ³	346,620	443,940	326,950	423,310
Lentils	315,660	194,660	290,570	185,750
Wrinkled seed peas ³	(NA)	(NA)	(NA)	(NA)
Potatoes and miscellaneous				
Hops	(NA)	(NA)	22,270	22,580
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		23,670	
Potatoes	415,410	389,230	410,680	379,960
Spearmint oil	(NA)		8,420	
Taro (Hawaii) ⁵	(NA)	(NA)	130	(NA)

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year.
Blank data cells indicate estimation period has not yet begun]

Crop	Yield per hectare		Production	
	2018	2019	2018	2019
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	4.17	4.18	3,342,660	3,691,860
Corn for grain	11.07	10.48	366,287,440	347,005,510
Corn for silage	44.50		110,096,850	
Hay, all ²	5.24	5.56	112,128,030	118,779,510
Alfalfa	7.10	7.22	47,748,760	49,186,650
All other	4.39	4.78	64,379,270	69,592,860
Oats	2.33	2.31	814,720	771,440
Proso millet	1.67		271,950	
Rice	8.62	8.50	10,170,040	8,524,630
Rye	1.94	2.15	214,180	269,810
Sorghum for grain	4.53	4.76	9,271,070	9,084,470
Sorghum for silage	28.24		3,017,300	
Wheat, all ²	3.20	3.47	51,305,540	52,257,620
Winter	3.22	3.60	32,221,540	35,489,150
Durum	2.66	3.08	2,122,400	1,463,000
Other spring	3.25	3.24	16,961,600	15,305,480
Oilseeds				
Canola	2.09	2.08	1,639,940	1,682,420
Cottonseed	(X)	(X)	5,108,360	5,854,060
Flaxseed	1.42		113,440	
Mustard seed	0.84		33,150	
Peanuts	4.48	4.57	2,492,910	2,559,490
Rapeseed	1.71		3,730	
Safflower	1.69		107,220	
Soybeans for beans	3.40	3.16	120,514,490	96,614,540
Sunflower	1.94	1.93	955,740	1,021,810
Cotton, tobacco, and sugar crops				
Cotton, all ²	0.97	0.90	3,998,940	4,532,370
Upland	0.95	0.88	3,824,550	4,369,730
American Pima	1.73	1.76	174,400	162,640
Sugarbeets	67.83	68.09	30,068,640	26,760,140
Sugarcane	86.06	83.15	31,335,980	30,868,780
Tobacco	2.05	2.20	241,870	203,240
Dry beans, peas, and lentils				
Austrian winter peas ³	1.28	(NA)	5,620	(NA)
Chickpeas ⁴	1.69	1.84	577,970	325,410
Dry edible beans ⁴	2.08	2.12	1,700,700	1,080,090
Dry edible peas ³	2.21	2.39	722,530	1,011,010
Lentils	1.31	1.60	381,380	297,240
Wrinkled seed peas ³	(NA)	(NA)	17,640	(NA)
Potatoes and miscellaneous				
Hops	2.18	2.14	48,490	48,250
Maple syrup	(NA)	(NA)	21,000	21,200
Mushrooms	(NA)	(NA)	416,050	383,960
Peppermint oil	0.10		2,440	
Potatoes	49.70	50.43	20,412,570	19,162,060
Spearmint oil	0.14		1,170	
Taro (Hawaii) ⁵	10.80	(NA)	1,350	(NA)

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Total may not add due to rounding.

³ Beginning in 2019, Austrian winter peas and wrinkled seed peas are included in dry edible peas.

⁴ Beginning in 2019, chickpeas are excluded from dry edible beans.

⁵ Estimates discontinued in 2019.

Fruits and Nuts Production in Domestic Units – United States: 2019 and 2020

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2020 crop year, except citrus which is for the 2019-2020 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2019	2020
Citrus ¹		
Grapefruit 1,000 tons	564	592
Lemons 1,000 tons	966	856
Oranges 1,000 tons	5,327	5,325
Tangerines and mandarins 1,000 tons	1,087	970
Noncitrus		
Apples, commercial million pounds	10,630.0	
Apricots tons	64,500	
Avocados tons		
Blueberries, Cultivated 1,000 pounds		
Blueberries, Wild (Maine) 1,000 pounds		
Cherries, Sweet tons	362,000	
Cherries, Tart million pounds	290.2	
Coffee (Hawaii) 1,000 pounds		
Cranberries barrel	9,040,000	
Dates tons		
Grapes tons	7,500,000	
Kiwifruit (California) tons		
Nectarines (California) tons		
Olives (California) tons		
Papayas (Hawaii) 1,000 pounds		
Peaches tons	733,500	
Pears tons	805,000	
Plums (California) tons		
Prunes (California) tons	110,000	
Raspberries, all 1,000 pounds		
Strawberries 1,000 cwt		
Nuts and miscellaneous		
Almonds, shelled (California) 1,000 pounds	2,200,000	
Hazelnuts, in-shell (Oregon) tons	49,000	
Macadamias (Hawaii) 1,000 pounds		
Pecans, in-shell 1,000 pounds	281,000	
Pistachios (California) 1,000 pounds		
Walnuts, in-shell (California) tons	630,000	

¹ Production years are 2018-2019 and 2019-2020.

Fruits and Nuts Production in Metric Units – United States: 2019 and 2020

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2020 crop year, except citrus which is for the 2019-2020 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2019 (metric tons)	2020 (metric tons)
Citrus¹		
Grapefruit	511,650	537,050
Lemons	876,340	776,550
Oranges	4,832,570	4,830,760
Tangerines and mandarins	986,110	879,970
Noncitrus		
Apples, commercial	4,821,690	
Apricots	58,510	
Avocados		
Blueberries, Cultivated		
Blueberries, Wild (Maine)		
Cherries, Sweet	328,400	
Cherries, Tart	131,630	
Coffee (Hawaii)		
Cranberries	410,050	
Dates		
Grapes	6,803,890	
Kiwifruit (California)		
Nectarines (California)		
Olives (California)		
Papayas (Hawaii)		
Peaches	665,420	
Pears	730,280	
Plums (California)		
Prunes (California)	99,790	
Raspberries, all		
Strawberries		
Nuts and miscellaneous		
Almonds, shelled (California)	997,900	
Hazelnuts, in-shell (Oregon)	44,450	
Macadamias (Hawaii)		
Pecans, in-shell	127,460	
Pistachios (California)		
Walnuts, in-shell (California)	571,530	

¹ Production years are 2018-2019 and 2019-2020.

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2019. 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: 2015-2019

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

State and month	2015	2016	2017	2018	2019	State and month	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	31,800	31,100	30,800	32,000	31,100	All corn					
October	31,750	31,100	30,900	32,000	30,950	September ...	26,650	25,900	25,950	27,100	25,850
November	31,750	31,100	30,950	32,000	30,900	October	26,750	25,950	25,800	26,750	25,850
Final	31,750	31,100	30,950	32,000		November	26,700	26,000	25,700	26,750	25,700
						Final	26,700	26,000	25,700	26,750	
Indiana						Irrigated					
September	30,400	30,200	29,550	30,450	29,300	September ...	29,100	28,200	29,050	30,300	28,300
October	30,100	29,950	29,350	30,400	29,050	October	29,300	28,200	29,000	29,900	28,350
November	30,000	29,800	29,200	30,400	29,000	November	29,250	28,300	28,750	29,900	28,300
Final	29,950	29,800	29,200	30,400		Final	29,250	28,300	28,750	29,900	
Iowa						Non-irrigated					
September	31,500	31,250	31,300	31,350	30,850	September ...	23,500	22,900	22,500	23,350	23,300
October	31,450	31,050	31,150	31,150	30,800	October	23,550	23,000	22,200	23,100	23,250
November	31,450	31,050	31,150	31,100	30,750	November	23,550	23,000	22,250	23,150	23,000
Final	31,450	31,050	31,150	31,100		Final	23,550	23,000	22,250	23,150	
Kansas						Ohio					
September	23,400	22,550	22,050	22,600	21,350	September	30,000	30,250	29,250	30,550	30,050
October	23,750	22,550	22,100	22,450	21,200	October	30,000	30,100	29,150	30,400	30,100
November	23,800	22,550	22,300	22,450	21,200	November	29,950	30,250	29,100	30,400	30,000
Final	23,800	22,550	22,300	22,450		Final	29,950	30,250	29,100	30,400	
Minnesota						South Dakota					
September	30,650	30,800	30,750	30,950	30,700	September	26,350	26,200	26,250	27,000	26,400
October	30,750	30,700	30,550	30,900	30,650	October	26,250	26,100	26,200	26,750	26,100
November	30,750	30,550	30,600	30,900	30,550	November	26,200	26,000	26,200	27,000	26,000
Final	30,750	30,550	30,600	30,900		Final	26,200	26,000	26,200	27,000	
Missouri						Wisconsin					
September	27,900	27,300	27,850	28,500	28,200	September	29,900	30,100	29,450	31,000	30,250
October	27,600	27,750	27,850	28,400	27,500	October	29,700	29,900	29,100	30,600	30,150
November	27,600	27,800	27,950	28,400	27,600	November	29,450	29,800	29,150	30,650	29,750
Final	27,600	27,800	27,950	28,400		Final	29,450	29,800	29,100	30,650	
						10 State					
						September	29,550	29,050	28,800	29,500	28,650
						October	29,500	28,950	28,700	29,350	28,500
						November	29,450	28,950	28,700	29,400	28,450
						Final	29,450	28,950	28,700	29,350	

Corn for Grain Number of Ears per Acre – Selected States: 2015-2019

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

State and month	2015	2016	2017	2018	2019	State and month	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	30,800	30,350	30,200	31,550	30,300	All corn					
October	30,750	30,450	30,300	31,500	30,300	September	26,650	25,700	25,800	27,100	25,850
November	30,800	30,450	30,250	31,500	30,150	October	26,700	25,350	26,050	26,750	25,950
Final	30,800	30,450	30,250	31,500		November	26,700	25,400	25,950	26,800	25,700
						Final	26,700	25,400	25,950	26,800	
Indiana						Irrigated					
September	29,550	29,600	28,900	30,000	28,900	September	29,000	27,850	28,650	29,950	28,200
October	29,300	29,400	29,100	29,800	28,700	October	29,250	27,500	28,950	29,350	28,150
November	29,250	29,250	28,850	29,750	28,650	November	29,200	27,550	28,750	29,300	28,000
Final	29,150	29,250	28,850	29,750		Final	29,200	27,550	28,750	29,300	
Iowa						Non-irrigated					
September	30,950	30,550	30,600	31,150	30,250	September	23,650	22,850	22,600	23,850	23,500
October	30,800	30,400	30,600	30,900	30,200	October	23,550	22,550	22,800	23,650	23,700
November	30,850	30,500	30,600	30,800	30,100	November	23,550	22,550	22,900	23,850	23,400
Final	30,850	30,500	30,600	30,800		Final	23,550	22,550	22,900	23,850	
Kansas						Ohio					
September	23,300	22,650	22,800	22,350	21,550	September	29,650	29,750	29,500	30,750	29,850
October	23,700	22,450	22,600	21,650	22,250	October	29,650	29,200	29,250	30,300	29,750
November	23,650	22,450	22,650	21,700	22,200	November	29,600	29,600	29,150	30,300	29,550
Final	23,650	22,450	22,650	21,700		Final	29,600	29,600	29,150	30,300	
Minnesota						South Dakota					
September	30,500	30,550	30,750	30,850	30,050	September	26,200	25,650	26,250	28,100	26,450
October	30,400	30,350	30,850	30,850	29,800	October	25,900	25,350	26,150	27,750	25,300
November	30,450	30,250	30,850	30,800	29,650	November	25,750	25,450	26,200	27,950	25,000
Final	30,450	30,250	30,600	30,800		Final	25,750	25,450	25,850	28,050	
Missouri						Wisconsin					
September	27,350	26,900	27,750	27,400	26,950	September	29,500	29,300	28,950	30,700	29,850
October	26,900	27,150	27,800	27,300	26,950	October	28,950	28,900	28,800	30,450	30,250
November	26,850	27,150	27,850	27,300	27,100	November	28,600	28,750	28,600	30,450	29,850
Final	26,850	27,150	27,850	27,300		Final	28,600	28,750	28,550	30,450	
						10-State					
						September	29,050	28,550	28,550	29,350	28,200
						October	28,950	28,350	28,550	29,100	28,200
						November	28,900	28,400	28,500	29,100	28,050
						Final	28,900	28,400	28,450	29,100	

Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2015-2019

Year	October		November	
	Dent stage ¹	Mature ²	Dent stage ¹	Mature ²
	(percent)	(percent)	(percent)	(percent)
2015	16	70	(Z)	96
2016	17	73	(Z)	96
2017	41	51	(Z)	96
2018	13	80	(Z)	96
2019	49	29	1	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: 2015-2019

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)
Illinois2015	-	1.3	1.8	7.9	17.2	71.8
.....2016	0.9	0.5	4.3	11.8	18.0	64.5
.....2017	0.5	1.4	3.8	11.5	20.6	62.2
.....2018	-	0.9	1.4	6.6	15.6	75.5
.....2019	0.9	2.8	3.8	9.4	18.9	64.2
Indiana2015	4.6	1.5	4.6	11.5	20.8	57.0
.....2016	1.7	1.7	8.3	11.6	19.8	56.9
.....2017	5.7	4.9	6.5	13.0	21.1	48.8
.....2018	1.5	0.8	2.3	10.7	27.5	57.2
.....2019	5.5	5.5	5.5	10.9	23.6	49.0
Iowa2015	0.4	0.8	2.4	4.9	15.5	76.0
.....2016	0.4	1.8	2.2	8.9	22.7	64.0
.....2017	1.3	3.4	2.1	5.9	13.5	73.8
.....2018	0.4	1.7	3.3	6.3	19.2	69.1
.....2019	0.8	0.8	3.8	9.0	21.1	64.5
Kansas2015	20.2	18.2	11.1	27.2	6.1	17.2
.....2016	27.9	14.8	19.4	12.0	17.6	8.3
.....2017	24.3	21.2	17.2	21.2	12.1	4.0
.....2018	33.0	12.4	12.4	14.4	7.2	20.6
.....2019	39.9	8.0	12.0	14.7	14.7	10.7
Minnesota2015	-	1.6	3.1	11.0	22.8	61.5
.....2016	0.8	3.0	4.5	11.4	21.2	59.1
.....2017	2.8	4.7	5.6	7.5	12.1	67.3
.....2018	-	1.7	8.7	6.1	13.9	69.6
.....2019	1.4	4.1	8.2	4.1	24.7	57.5
Missouri2015	6.6	3.3	15.4	28.5	25.3	20.9
.....2016	3.0	6.0	14.0	28.0	23.0	26.0
.....2017	1.9	1.0	15.5	26.2	26.2	29.2
.....2018	2.2	6.5	8.6	20.4	28.0	34.3
.....2019	2.8	8.3	16.7	22.2	16.7	33.3
Nebraska2015	8.4	7.8	15.6	16.8	21.2	30.2
.....2016	9.6	10.1	16.3	20.2	19.7	24.1
.....2017	16.8	6.3	12.6	19.4	17.8	27.1
.....2018	12.0	4.9	7.1	16.4	25.1	34.5
.....2019	15.1	12.3	12.3	17.9	19.8	22.6
Ohio2015	4.4	1.8	2.7	8.0	21.2	61.9
.....2016	1.9	2.9	1.0	9.6	26.9	57.7
.....2017	2.7	4.4	7.1	15.0	25.7	45.1
.....2018	1.0	3.9	3.9	7.8	23.5	59.9
.....2019	-	4.3	4.3	12.8	19.1	59.5
South Dakota2015	12.1	5.5	17.6	20.9	26.3	17.6
.....2016	13.2	5.3	17.1	26.3	18.4	19.7
.....2017	8.1	13.5	16.2	16.2	25.7	20.3
.....2018	7.4	12.6	11.6	18.9	21.1	28.4
.....2019	9.5	7.1	21.4	23.8	31.1	7.1
Wisconsin2015	2.4	2.4	7.3	14.6	23.2	50.1
.....2016	2.4	4.9	3.7	11.0	18.3	59.7
.....2017	3.9	2.6	6.6	19.7	21.1	46.1
.....2018	2.0	2.0	-	7.9	19.8	68.3
.....2019	-	-	11.8	14.7	23.5	50.0

- Represents zero.

Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2015-2019

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois 2015	11	222	1	1	-
..... 2016	6	218	-	1	-
..... 2017	6	210	4	1	-
..... 2018	9	211	-	-	-
..... 2019	2	110	1	-	-
Indiana 2015	8	124	3	1	-
..... 2016	8	118	1	1	1
..... 2017	7	117	-	-	-
..... 2018	9	126	1	1	-
..... 2019	4	53	1	-	-
Iowa 2015	7	241	3	1	-
..... 2016	12	213	4	4	-
..... 2017	2	236	3	3	-
..... 2018	12	234	2	1	-
..... 2019	3	136	-	1	-
Kansas 2015	2	105	3	-	-
..... 2016	8	105	-	-	-
..... 2017	2	106	2	-	-
..... 2018	10	91	-	-	-
..... 2019	9	70	-	-	-
Minnesota 2015	29	118	1	-	-
..... 2016	27	113	2	-	-
..... 2017	27	89	2	-	-
..... 2018	21	97	3	2	-
..... 2019	15	63	3	1	-
Missouri 2015	2	101	2	1	-
..... 2016	5	96	1	2	-
..... 2017	3	101	5	2	-
..... 2018	5	90	1	2	1
..... 2019	5	30	1	2	-
Nebraska 2015	5	166	18	-	-
..... 2016	-	162	23	-	-
..... 2017	2	169	23	2	-
..... 2018	6	160	25	-	-
..... 2019	3	98	15	-	-
Ohio 2015	2	110	4	1	2
..... 2016	4	105	-	1	-
..... 2017	2	109	1	1	-
..... 2018	3	100	-	-	-
..... 2019	2	45	1	-	-
South Dakota 2015	13	78	1	2	-
..... 2016	5	71	4	1	2
..... 2017	6	75	1	1	-
..... 2018	8	92	2	2	-
..... 2019	5	45	-	1	-
Wisconsin 2015	4	91	3	1	1
..... 2016	2	84	2	2	-
..... 2017	4	83	5	1	-
..... 2018	4	108	4	2	-
..... 2019	1	39	-	-	-

- Represents zero.

Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2015-2019

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	2015	227	4.0	78.9	16.7	-	0.4	-	29.7
	2016	211	2.4	87.6	9.5	-	-	0.5	29.8
	2017	209	1.4	85.1	12.0	0.5	0.5	0.5	30.1
	2018	212	1.9	87.7	10.4	-	-	-	29.9
	2019	106	-	84.0	15.1	0.9	-	-	30.2
Indiana	2015	130	4.6	77.7	13.1	1.5	2.3	0.8	29.8
	2016	121	3.3	72.7	22.3	1.7	-	-	29.8
	2017	123	2.4	78.9	17.9	0.8	-	-	29.8
	2018	131	6.1	71.7	19.8	0.8	0.8	0.8	29.8
	2019	55	1.8	78.2	18.2	-	1.8	-	30.0
Iowa	2015	245	2.4	76.8	19.2	1.6	-	-	30.0
	2016	225	2.2	76.9	19.1	0.9	0.9	-	30.0
	2017	237	0.8	76.4	19.0	0.4	3.0	0.4	30.4
	2018	239	3.8	77.4	17.2	0.8	0.8	-	29.9
	2019	133	1.5	78.1	18.8	0.8	0.8	-	30.0
Kansas	2015	99	2.0	74.8	20.2	2.0	1.0	-	30.2
	2016	108	4.6	85.2	10.2	-	-	-	29.6
	2017	99	2.0	75.8	21.2	-	-	1.0	30.1
	2018	97	3.1	76.3	20.6	-	-	-	29.7
	2019	75	4.0	81.3	14.7	-	-	-	29.9
Minnesota	2015	127	3.1	85.9	10.2	0.8	-	-	28.5
	2016	132	2.3	78.0	17.4	0.8	1.5	-	28.8
	2017	107	4.7	81.4	8.4	0.9	3.7	0.9	28.9
	2018	115	1.7	82.6	11.3	2.6	0.9	0.9	29.3
	2019	73	5.5	72.6	17.8	4.1	-	-	28.9
Missouri	2015	91	-	73.6	24.2	-	2.2	-	30.4
	2016	100	1.0	76.0	20.0	1.0	2.0	-	30.0
	2017	103	1.9	66.1	25.2	3.9	1.0	1.9	30.4
	2018	93	1.1	76.2	18.3	2.2	1.1	1.1	30.1
	2019	36	2.8	74.9	13.9	2.8	5.6	-	30.2
Nebraska	2015	179	2.2	71.6	15.1	8.9	2.2	-	30.7
	2016	178	-	65.2	20.2	9.0	4.5	1.1	31.2
	2017	191	-	70.7	15.7	9.4	4.2	-	31.0
	2018	183	1.6	65.6	15.3	12.6	4.9	-	31.2
	2019	106	1.9	71.7	14.2	11.3	0.9	-	30.8
Ohio	2015	113	1.8	74.2	20.4	2.7	-	0.9	30.4
	2016	104	4.8	81.7	10.6	1.9	1.0	-	29.8
	2017	113	0.9	83.2	15.0	0.9	-	-	30.0
	2018	102	2.9	79.5	17.6	-	-	-	29.9
	2019	47	4.3	87.2	6.4	2.1	-	-	29.8
South Dakota	2015	91	3.3	72.5	19.8	2.2	2.2	-	29.7
	2016	76	2.6	64.6	26.3	3.9	1.3	1.3	30.4
	2017	74	8.1	62.1	28.4	-	1.4	-	29.6
	2018	95	5.3	69.4	20.0	2.1	2.1	1.1	30.0
	2019	42	4.8	69.0	23.8	-	2.4	-	29.9
Wisconsin	2015	82	2.4	63.5	30.5	2.4	-	1.2	30.0
	2016	82	1.2	72.0	22.0	1.2	1.2	2.4	30.5
	2017	75	1.3	61.5	29.3	5.3	1.3	1.3	30.6
	2018	101	-	75.2	21.8	-	3.0	-	30.2
	2019	34	2.9	79.5	14.7	-	-	2.9	29.9

- Represents zero.

Cotton Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in four cotton-producing States during 2019. 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: 2015-2019

[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	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)
Arkansas					
September	763	800	911	891	900
October	769	769	839	910	896
November	856	779	825	892	925
December	856	779	825	892	
Final	856	779	825	892	
Georgia					
September	645	562	593	605	598
October	630	668	608	737	783
November	748	719	680	712	790
December	759	725	684	719	
Final	759	725	684	713	
Louisiana ¹					
September	676	654	648	759	(NA)
October	776	760	667	734	(NA)
November	794	784	665	739	(NA)
December	793	784	665	739	
Final	793	784	665	739	
Mississippi					
September	887	953	904	871	944
October	839	942	810	895	895
November	898	974	804	846	904
December	898	974	797	846	
Final	898	974	797	846	
North Carolina ¹					
September	551	558	637	601	(NA)
October	620	599	705	641	(NA)
November	624	660	769	714	(NA)
December	632	660	769	719	
Final	632	660	769	719	
Texas					
September	566	467	592	570	458
October	442	474	602	576	438
November	481	528	603	553	456
December	492	547	615	583	
Final	495	546	614	582	
4-State ²					
September	601	532	633	627	551
October	571	554	635	661	562
November	571	604	649	640	579
December	581	618	656	659	
Final	583	618	656	657	

(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 2019. 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: 2015-2019

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

State and month	2015	2016	2017	2018	2019	State and month	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						Missouri					
September	1,729	1,884	1,992	1,841	1,759	September	1,612	1,881	2,041	1,777	1,719
October	1,737	1,805	1,898	1,795	1,731	October	1,755	2,006	2,172	1,899	1,754
November	1,813	1,820	2,039	1,943	1,717	November	1,869	2,123	2,253	1,948	1,898
Final	1,818	1,826	2,075	1,973		Final	1,899	2,164	2,239	1,961	
Illinois						Nebraska					
September	1,980	1,969	1,917	2,132	1,696	September	1,816	1,947	1,653	1,736	1,669
October	2,052	2,109	1,886	2,225	1,683	October	1,863	2,036	1,795	2,071	1,777
November	2,086	2,193	1,947	2,249	1,601	November	1,884	2,074	1,853	2,174	1,722
Final	2,079	2,197	1,947	2,264		Final	1,884	2,074	1,853	2,174	
Indiana						North Dakota					
September	1,641	1,683	1,795	1,880	1,496	September	1,321	1,395	1,406	1,418	1,147
October	1,703	1,775	1,772	2,001	1,501	October	1,330	1,444	1,430	1,485	1,246
November	1,691	1,873	1,774	2,054	1,569	November	1,337	1,442	1,465	1,515	1,253
Final	1,691	1,873	1,774	2,052		Final	1,337	1,470	1,451	1,514	
Iowa						Ohio					
September	1,779	1,808	1,644	1,823	1,601	September	1,621	1,773	1,765	2,019	1,563
October	1,805	1,801	1,670	1,984	1,642	October	1,691	1,715	1,714	2,180	1,760
November	1,834	1,861	1,717	2,082	1,660	November	1,776	1,782	1,828	2,210	1,587
Final	1,834	1,890	1,735	2,097		Final	1,776	1,782	1,823	2,210	
Kansas						South Dakota					
September	1,285	1,467	1,487	1,552	1,561	September	1,541	1,561	1,511	1,649	1,504
October	1,602	1,643	1,472	1,456	1,604	October	1,557	1,639	1,472	1,867	1,316
November	1,715	1,720	1,561	1,548	1,596	November	1,563	1,709	1,457	1,822	1,331
Final	1,715	1,737	1,561	1,558		Final	1,563	1,665	1,457	1,724	
Minnesota						11-State					
September	1,637	1,614	1,359	1,605	1,465	September	1,672	1,741	1,678	1,786	1,561
October	1,644	1,625	1,407	1,616	1,474	October	1,731	1,800	1,692	1,895	1,593
November	1,612	1,658	1,480	1,569	1,458	November	1,763	1,862	1,751	1,938	1,582
Final	1,612	1,658	1,480	1,569		Final	1,764	1,870	1,752	1,938	

Soybean Frequency of Farmer Reported Row Widths – Selected States: 2015-2019

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas 2015	8	41	34	32	77
..... 2016	5	31	46	36	73
..... 2017	9	25	42	39	79
..... 2018	9	36	47	36	83
..... 2019	-	14	13	21	25
Illinois 2015	2	15	111	52	1
..... 2016	1	15	105	57	1
..... 2017	2	10	109	59	2
..... 2018	3	11	118	58	-
..... 2019	2	5	82	33	1
Indiana 2015	2	17	103	15	-
..... 2016	1	27	91	17	2
..... 2017	3	28	101	12	-
..... 2018	1	19	110	14	-
..... 2019	-	5	57	9	1
Iowa 2015	4	4	76	92	4
..... 2016	1	6	73	100	2
..... 2017	1	3	80	94	1
..... 2018	1	11	77	88	3
..... 2019	1	9	51	66	-
Kansas 2015	5	13	38	56	-
..... 2016	6	8	38	57	-
..... 2017	10	14	32	43	2
..... 2018	2	17	35	54	1
..... 2019	-	10	23	16	-
Minnesota 2015	4	7	42	50	1
..... 2016	5	8	40	36	1
..... 2017	1	9	38	42	-
..... 2018	3	8	34	45	2
..... 2019	3	5	26	28	1
Missouri 2015	1	17	50	15	8
..... 2016	-	14	71	19	5
..... 2017	1	10	70	21	4
..... 2018	1	15	65	31	4
..... 2019	1	5	38	10	1
Nebraska 2015	1	4	31	62	8
..... 2016	-	10	36	46	3
..... 2017	1	4	38	51	8
..... 2018	3	7	35	49	8
..... 2019	-	6	37	49	5

See footnote(s) at end of table.

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2015-2019 (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 Dakota2015	5	19	68	12	-
.....2016	8	17	55	15	-
.....2017	5	16	56	7	1
.....2018	4	31	49	12	-
.....2019	3	11	28	6	-
Ohio2015	2	45	76	9	-
.....2016	3	41	84	7	-
.....2017	2	38	83	8	-
.....2018	4	31	98	1	-
.....2019	2	11	42	1	-
South Dakota2015	2	3	12	65	1
.....2016	3	4	27	59	2
.....2017	1	4	27	63	1
.....2018	2	4	27	61	1
.....2019	4	-	18	30	-

- Represents zero.

¹ Includes broadcast soybeans.

Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2015-2019

Year	October	November
	Mature ¹	Mature ¹
	(percent)	(percent)
2015	54	95
2016	53	93
2017	49	93
2018	57	93
2019	25	91

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: 2015-2019

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	2015	199	19.1	16.8	23.6	14.6	25.9	23.1
	2016	189	14.6	24.1	4.0	21.2	36.1	26.0
	2017	197	16.3	24.2	2.3	19.8	37.4	26.4
	2018	208	18.3	18.3	6.7	14.7	42.0	26.5
	2019	74	18.9	14.9	5.4	24.3	36.5	26.6
Illinois	2015	178	7.1	63.0	2.3	26.8	0.8	19.0
	2016	177	7.9	56.5	5.6	29.4	0.6	19.6
	2017	181	6.1	50.6	5.0	37.7	0.6	20.8
	2018	185	5.7	57.6	5.9	30.8	-	19.9
	2019	119	4.6	58.0	10.9	26.5	-	19.4
Indiana	2015	137	15.4	67.4	5.9	11.3	-	16.1
	2016	137	14.7	62.3	8.4	13.9	0.7	17.0
	2017	141	14.6	68.3	9.3	7.8	-	15.8
	2018	150	10.1	74.8	5.7	9.4	-	16.2
	2019	74	4.1	74.7	11.6	9.6	-	17.3
Iowa	2015	181	2.8	36.7	9.1	49.2	2.2	23.4
	2016	179	2.2	34.4	11.2	50.5	1.7	23.7
	2017	180	1.1	34.4	12.8	50.6	1.1	23.7
	2018	177	4.8	36.5	10.1	45.8	2.8	22.8
	2019	124	4.9	36.0	9.7	48.6	0.8	23.1
Kansas	2015	111	11.7	38.3	4.5	45.5	-	21.5
	2016	109	5.5	34.6	4.6	54.4	0.9	23.5
	2017	105	9.0	38.1	5.7	47.2	-	21.8
	2018	106	8.1	39.3	6.6	45.1	0.9	22.0
	2019	50	9.0	48.0	7.0	36.0	-	20.3
Minnesota	2015	89	5.1	21.9	20.8	52.2	-	24.0
	2016	84	11.3	28.0	23.8	36.9	-	21.6
	2017	88	7.4	23.3	18.8	50.5	-	23.5
	2018	85	10.0	28.8	14.7	46.5	-	22.6
	2019	59	11.9	18.6	26.3	41.5	1.7	23.0
Missouri	2015	86	16.7	56.6	7.7	11.9	7.1	17.9
	2016	104	3.8	70.7	2.4	16.8	6.3	18.9
	2017	106	9.4	63.7	5.7	19.3	1.9	18.3
	2018	113	12.8	52.7	8.0	23.0	3.5	19.2
	2019	51	7.8	68.7	7.8	15.7	-	17.8
Nebraska	2015	105	2.4	29.5	6.3	54.1	7.7	24.5
	2016	94	7.4	35.6	5.9	46.8	4.3	22.8
	2017	100	4.0	31.0	10.5	47.0	7.5	24.2
	2018	101	5.9	27.2	10.9	48.1	7.9	24.3
	2019	98	4.6	32.1	11.2	47.0	5.1	23.9

See footnote(s) at end of table.

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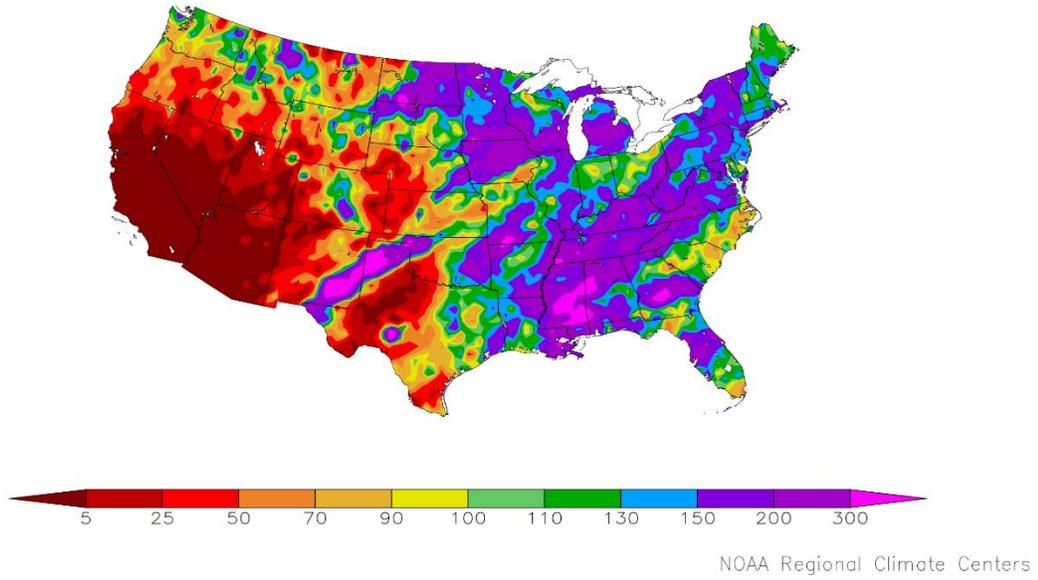
**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:
2015-2019 (continued)**

State and year	Samples	Row width (inches)					Average row width ¹	
		10.0 or less ¹	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
North Dakota	2015	104	13.5	45.7	29.3	11.5	-	17.6
	2016	95	20.1	42.9	20.1	16.9	-	17.7
	2017	84	17.3	55.3	17.9	8.3	1.2	16.2
	2018	96	21.9	45.3	22.9	7.3	2.6	16.4
	2019	48	17.7	49.0	22.9	10.4	-	17.1
Ohio	2015	132	32.7	57.0	5.0	5.3	-	13.8
	2016	137	32.1	60.3	1.8	5.8	-	13.7
	2017	134	25.4	66.4	2.6	5.6	-	14.1
	2018	134	20.9	76.5	2.6	-	-	13.7
	2019	57	22.8	77.2	-	-	-	13.6
South Dakota	2015	83	5.0	10.5	14.2	69.1	1.2	26.6
	2016	96	1.6	23.0	17.3	53.4	4.7	25.1
	2017	93	2.7	17.8	16.2	61.7	1.6	25.9
	2018	94	4.3	15.4	17.6	62.2	0.5	25.7
	2019	44	2.3	12.5	27.3	57.9	-	26.3

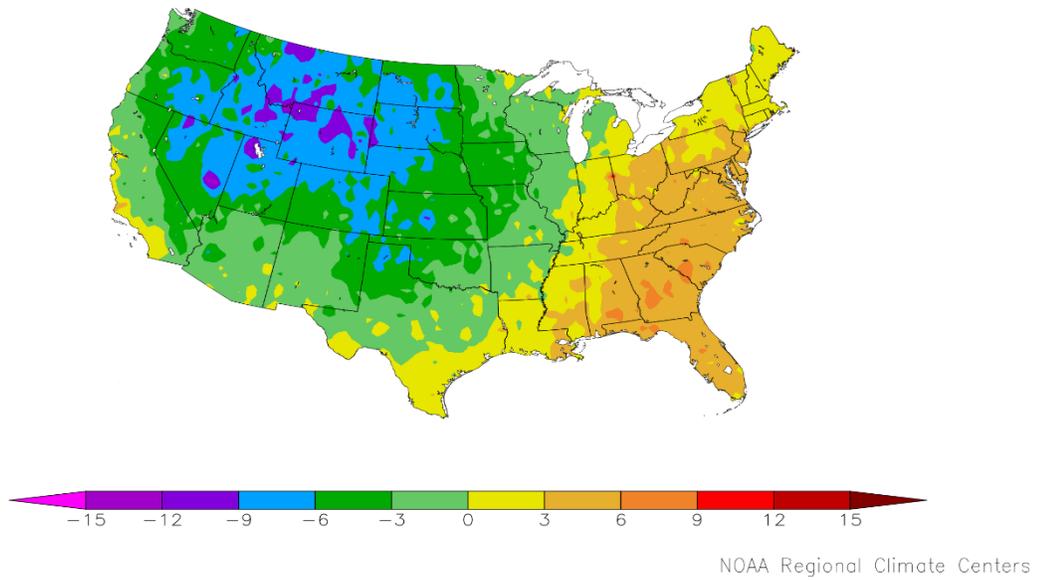
- Represents zero.

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

Percent of Normal Precipitation (%)
10/1/2019 – 10/31/2019



Departure from Normal Temperature (F)
10/1/2019 – 10/31/2019



October Weather Summary

Cold, stormy weather across the northern Plains and upper Midwest slowed early-season harvest efforts and added another layer of complexity to a growing season that featured very late planting and delayed crop development. When the season's first widespread freeze affected much of the Plains and the western half of the Corn Belt in mid-October, only 73 percent of the Nation's corn was fully mature (on October 13) and 85 percent of the soybeans were dropping leaves.

Stormy weather across the north-central United States also delayed harvesting of commodities such as sugarbeets, sunflowers, and spring wheat, potentially threatening crop quality. The spring wheat harvest was 90 percent complete on September 29, with progress inching toward completion (96 percent) by October 20. The cold, wet weather also slowed winter wheat planting and emergence in some northern production areas, especially Montana.

Meanwhile, multiple mid- to late-month precipitation events across the South and East—including the remnants of Tropical Storms Nestor and Olga—eased or eradicated short-term drought and provided much-needed moisture for pastures and fall-sown crops. The rain followed an early-October spell of record-setting heat that helped to locally boost Southeastern monthly temperatures more than 5°F above normal.

Elsewhere, cool weather dominated the western and central United States, while dry conditions covered California, the Great Basin, and the Desert Southwest. Some of the dryness extended eastward across portions of the central and southern High Plains. Monthly temperatures broadly averaged at least 5°F below normal across the northern and central Plains, as well as the northern Rockies and the Northwest. In California, high winds, low humidity levels, and seasonally cured vegetation fueled late-month wildfires, including the 78,000-acre Kincade Fire in Sonoma County.

October Agricultural Summary

October was cooler than average for parts of the Great Plains, Nevada, Oregon, and the Rocky Mountains with temperatures averaging 6°F or more below normal. However, temperatures were 6°F or more, warmer than normal along the Indiana and Ohio border and in parts of the Southeast. During the month of October, the western half of the United States remained extremely dry. In contrast, areas in the Mississippi Valley, Oklahoma, and Washington received 10 inches of rain or more.

By October 6, ninety-three percent of this year's corn acreage was denting, 7 percentage points behind the previous year and 6 percentage points behind the 5-year average. Fifty-eight percent of the corn acreage had reached maturity as of October 6, thirty-four percentage points behind the previous year and 27 percentage points behind the 5-year average. Fifteen percent of the 2019 acreage was harvested by October 6, eighteen percentage points behind the previous year and 12 percentage points behind the 5-year average pace. By October 13, ninety-six percent of this year's acreage was denting, 4 percentage points behind both the previous year and the 5-year average. Eighty-six percent of the corn acreage had reached maturity as of October 20, thirteen percentage points behind the previous year and 11 percentage points behind the 5-year average. Thirty percent of the acreage was harvested by October 20, eighteen percentage points behind the previous year and 17 percentage points behind the 5-year average pace. Ninety-six percent of the corn acreage had reached maturity as of November 3, four percentage points behind both the previous year and the 5-year average. Fifty-two percent of the acreage was harvested by November 3, twenty-two percentage points behind the previous year and 23 percentage points behind the 5-year average pace. Overall, 58 percent of the Nation's corn acreage was rated in good to excellent condition on November 3, ten percentage points below the same time last year.

Seventy-two percent of the Nation's soybean acreage was at or beyond the leaf dropping stage by October 6, eighteen percentage points behind the previous year and 15 percentage points behind 5-year average. By October 6, soybean harvest across the Nation was 14 percent complete, 17 percentage points behind the previous year and 20 percentage points behind the 5-year average. Ninety-four percent of the Nation's soybean acreage was at or beyond the leaf dropping stage by October 20, four percentage points behind the previous year and 3 percentage points behind the 5-year average. Soybean harvest across the Nation was 46 percent complete by October 20, five percentage points behind the previous year and 18 percentage points behind the 5-year average. Overall, 54 percent of the Nation's soybean acreage was rated in good to excellent condition on October 20, twelve percentage points below the same time last year. Ninety-seven percent of the Nation's soybean acreage was at or beyond the leaf dropping stage by October 27,

three percentage points behind the previous year and 2 percentage points behind the 5-year average. By November 3, soybean harvest was 75 percent complete across the Nation, 6 percentage points behind the previous year and 12 percentage points behind the 5-year average.

Fifty-two percent of the Nation's intended 2020 winter wheat acreage was sown by October 6, three percentage points behind the previous year and 1 percentage point behind the 5-year average. By October 6, twenty-six percent of the Nation's winter wheat acreage was emerged, 2 percentage points behind the previous year but equal to the 5-year average. Nationwide, producers had sown 77 percent of the intended 2020 winter wheat acreage by October 20, six percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. By October 20, fifty-three percent of the Nation's winter wheat acreage had emerged, 1 percentage point ahead of the previous year but equal to the 5-year average. Eighty-nine percent of the Nation's intended 2020 winter wheat acreage was sown by November 3, six percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. By November 3, seventy-one percent of the Nation's winter wheat acreage had emerged, 2 percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Overall, 57 percent of the 2020 winter wheat acreage was reported in good to excellent condition on November 3, six percentage points above the same time last year.

By October 6, eighty-three percent of the Nation's cotton acreage had open bolls, 7 percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. Twenty-five percent of the Nation's cotton acreage was harvested by October 6, one percentage point ahead of the previous year and 5 percentage points ahead of the 5-year average. By October 20, ninety-three percent of the Nation's cotton acreage had open bolls, 5 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. Forty percent of the Nation's cotton acreage was harvested by October 20, two percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. By October 27, ninety-five percent of the Nation's cotton acreage had open bolls, 4 percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. Overall, 40 percent of the 2019 cotton acreage was rated in good to excellent condition on October 27, five percentage points above the same time last year. By November 3, fifty-three percent of the Nation's cotton acreage was harvested, 5 percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average.

By October 6, sixty-five percent of the Nation's sorghum acreage was considered mature, 6 percentage points behind the previous year and 8 percentage points behind the 5-year average. Thirty-three percent of the 2019 sorghum acreage was harvested by October 6, five percentage points behind the previous year and 7 percentage points behind the 5-year average. By October 20, ninety-two percent of the Nation's sorghum acreage was considered mature, 4 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Forty-nine percent of the sorghum acreage was harvested by October 20, four percentage points ahead of the previous year but 4 percentage points behind the 5-year average. As of October 20, sixty-four percent of the Nation's sorghum acreage was rated in good to excellent condition, 11 percentage points above the same time last year. Ninety-six percent of the Nation's sorghum acreage was considered mature by October 27, three percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. By November 3, seventy-eight percent of the sorghum acreage was harvested, 16 percentage points ahead of the previous year and 6 percentage points ahead of the 5-year average.

Nationally, 76 percent of the rice acreage was harvested by October 6, two percentage points behind the previous year and 4 percentage points behind the 5-year average. By October 20, ninety-three percent of the rice acreage was harvested, 3 percentage points ahead of the previous year but 1 percentage point behind the 5-year average. Nationally, 97 percent of the rice acreage was harvested by October 27, two percentage points ahead of the previous year but 1 percentage point behind the 5-year average.

By October 6, ninety-one percent of the spring wheat acreage was harvested, 9 percentage points behind the previous year and 8 percentage points behind the 5-year average. Ninety-six percent of the spring wheat acreage was harvested by October 20, four percentage points behind both the previous year and the 5-year average.

By October 6, forty-one percent of the Nation's peanut acreage was harvested, 10 percentage points ahead of the previous year and 11 percentage points ahead of the 5-year average. Overall, 54 percent of the Nation's peanut acreage was rated in good to excellent condition on October 13, four percentage points below the same time last year. Sixty-seven percent of the Nation's peanut acreage was harvested as of October 20, thirteen percentage points ahead of the previous year and

12 percentage points ahead of the 5-year average. By November 3, eighty-four percent of the Nation's peanut acreage was harvested, 10 percentage points ahead of the previous year and 6 percentage points ahead of the 5-year average.

Sugarbeet producers had harvested 19 percent of the Nation's acreage by October 6, eighteen percentage points behind the previous year and 21 percentage points behind the 5-year average. By October 20, sugarbeet producers had harvested 42 percent of the Nation's acreage, 20 percentage points behind the previous year and 31 percentage points behind the 5-year average. Sugarbeet producers had harvested 70 percent of the Nation's acreage by November 3, twenty percentage points behind the previous year and 21 percentage points behind the 5-year average.

By October 6, one percent of this year's sunflower acreage was harvested, 4 percentage points behind both the previous year and the 5-year average. Nine percent of this year's sunflower acreage was harvested by October 20, nine percentage points behind the previous year and 18 percentage points behind the 5-year average. By November 3, thirty-one percent of this year's sunflower acreage was harvested, 18 percentage points behind the previous year and 31 percentage points behind the 5-year average.

Crop Comments

Corn: The 2019 corn area harvested for grain is forecast at 81.8 million acres, unchanged from the previous forecast, but up slightly from 2018.

The November 1 corn objective yield data indicate the lowest number of ears since 2012 for the combined 10 objective yield States (Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin).

At 13.7 billion bushels, 2019 corn production for grain is forecast to be the 6th highest production on record for the United States. The forecasted yield, at 167.0 bushels per acre, is down 1.4 bushels from the previous forecast of 168.4 bushels per acre. A record high yield is forecast for Tennessee.

By October 6, ninety-three percent of this year's corn acreage was dented, 7 percentage points behind last year and 6 percentage points behind the 5-year average. Fifty-eight percent of the corn acreage had matured by October 6, thirty-four percentage points behind last year and 27 percentage points behind the 5-year average. Fifteen percent of the 2019 acreage was harvested by October 6, eighteen percentage points behind last year and 12 percentage points behind the 5-year average pace. Overall, 56 percent of the Nation's corn acreage was rated in good to excellent condition on October 6, twelve percentage points below the same time last year.

Eighty-six percent of the 2019 corn acreage had reached maturity as of October 20, thirteen percentage points behind last year and 11 percentage points behind the 5-year average. Thirty percent of the 2019 acreage was harvested by October 20, eighteen percentage points behind last year and 17 percentage points behind the 5-year average pace.

Ninety-six percent of the 2019 corn acreage was mature by November 3, four percentage points behind both last year and the 5-year average. Fifty-two percent of the corn was harvested by November 3, twenty-two percentage points behind last year and 23 percentage points behind the 5-year average pace. Overall, 58 percent of the Nation's corn acreage was rated in good to excellent condition on November 3, ten percentage points below the same time last year.

Sorghum: Production is forecast at 358 million bushels, up 3 percent from the previous forecast but down 2 percent from last year. Area harvested for grain is forecast at 4.72 million acres, unchanged from the previous forecast but down 7 percent from 2018. Based on November 1 conditions, yield is forecast at 75.9 bushels per acre, 2.0 bushels higher than the previous forecast and 3.8 bushels per acre above the 2018 yield of 72.1 bushels per acre. Growers are expecting a record high yield in South Dakota.

As of November 3, seventy-eight percent of the sorghum acreage was harvested, 16 percentage points ahead of last year and 6 percentage points ahead of the 5-year average.

Rice: Production is forecast at 188 million cwt, down less than 1 percent from the previous forecast and down 16 percent from last year. Harvested area is expected to total 2.48 million acres, unchanged from the previous forecast but down

15 percent from last year. Based on conditions as of November 1, the average United States yield is forecast at 7,587 pounds per acre, down 29 pounds per acre from the previous forecast and 105 pounds per acre lower than the Nation's 2018 average yield of 7,692 pounds per acre.

As of October 27, ninety-seven percent of the rice acreage was harvested, 2 percentage points ahead of the same time last year but 1 percentage point behind the 5-year average pace. Harvest was complete in Louisiana and Texas at that time.

Soybeans: Production is forecast at 3.55 billion bushels, down slightly from the previous forecast and down 20 percent from last year. Based on November 1 conditions, yields are expected to average 46.9 bushels per acre, unchanged from the previous forecast but down 3.7 bushels from last year. Area for harvest in the United States is forecast at 75.6 million acres, unchanged from the previous forecast but down 14 percent from 2018.

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 from the previous year. Compared with final counts for 2018, pod counts are down in 10 of the 11 published States. A decrease of more than 200 pods per 18 square feet from the 2018 final pod count is expected in Arkansas, Illinois, Indiana, Iowa, Nebraska, North Dakota, Ohio, and South Dakota.

By October 6, the soybean crop was 14 percent harvested, 17 percentage points behind last year and 20 percentage points behind the 5-year average. As of November 3, harvest was 75 percent complete Nationwide, 6 percentage points behind last year and 12 percent behind the 5-year average. By November 3, harvest progress was behind the respective State 5-year average pace in Arkansas, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Mississippi, Missouri, North Dakota, Ohio, South Dakota, and Wisconsin.

Peanuts: Production is forecast at 5.64 billion pounds, up 3 percent from the previous forecast and up 3 percent from the 2018 total of 5.50 billion pounds. Harvested area is expected to total 1.38 million acres, unchanged from the previous forecast but up 1 percent from 2018. Based on conditions as of November 1, the United States average yield is forecast at 4,080 pounds per acre, up 116 pounds per acre from the previous forecast and up 79 pounds per acre from the 2018 average yield of 4,001 pounds per acre. Record high yields are forecast in Florida and North Carolina.

As of November 3, eighty-four percent of the 2019 peanut acreage had been harvested, 10 percentage points ahead of last year and 6 percentage points ahead of the 5-year average.

Cotton: Upland harvested area for the Nation is expected to total 12.3 million acres, unchanged from the previous forecast but up 23 percent from last year. Expected Pima harvested area, at 228,400 acres, is unchanged from the previous forecast but down 8 percent from last year. If realized, the forecasted yield for Upland cotton in Florida and Tennessee will be a record high.

As of November 3, fifty-three percent of the cotton acreage was harvested, 5 percentage points ahead of last year and 2 percentage points ahead of the 5-year average.

Ginnings totaled 6,249,050 running bales prior to November 1, compared with 4,877,850 running bales ginned prior to the same date last year.

Sugarbeets: Production of sugarbeets for the 2019 crop year is forecast at 29.5 million tons, down 12 percent from last month and down 11 percent from last year. Sugarbeet producers expect to harvest 971,200 acres, down 13 percent from the previous forecast and down 11 percent from 2018. Yield is forecast at 30.4 tons per acre, an increase of 0.3 ton from the previous forecast and an increase of 0.1 ton from last year.

Idaho's harvest progress was 88 percent complete as of the week ending November 3, ahead of the 5-year average pace of 83 percent. Growers were waiting for warmer temperatures before continuing to harvest. Michigan's harvest progress was slowed by rainfall and excessive moisture in the fields. Harvest progress in Minnesota and North Dakota was delayed by excessive rainfall. This combined with freezing temperatures has resulted in some fields being abandoned. Several hundred acres remain to be harvested in Wyoming.

Sugarcane: Production of sugarcane for sugar and seed in 2019 is forecast at 34.0 million tons, down 2 percent from last month and 1 percent below last year. Producers intend to harvest 917,300 acres for sugar and seed during the 2019 crop year, down 1 percent from last month but up 2 percent from last year. Yields for sugar and seed are expected to average 37.1 tons per acre, down 0.5 ton from last month and down 1.3 tons from 2018.

In Louisiana, harvest was 38 percent complete as of the week ending November 3. Sugar yields were lower than originally expected.

Potatoes: Production of potatoes for the 2019 crop year is forecast at 422 million cwt, down 6 percent from last year. Planted acreage, at 961,800 acres, is down 1 percent from the June estimate. Area harvested, at 938,900 acres, is down 7 percent from the previous year. The yield forecast, at 450 cwt per acre, is up 7 cwt from last year's yield.

In Idaho, growers reported losses due to freezing temperatures in late September and early October. Several farmers left potatoes in the ground to avoid the cost of digging them up. Washington producers reported some quality concerns due to soil borne issues and freeze damage at the end of the harvest season. Prolonged wet conditions during late September and early October hampered harvest progress in the Red River Valley of North Dakota. As of the week ending November 3, harvest was at 73 percent well behind normal.

Small grains: Survey respondents who reported barley, oats, Durum wheat, and other spring wheat acreage as not yet harvested during the surveys conducted in preparation for the *Small Grains 2019 Summary*, released September 30, 2019, were re-contacted in late October to determine how many of those acres were actually harvested and record the actual production from those acres. When the small grains producers were surveyed in September there were a significant number of unharvested acres of barley in Idaho, Maine, Minnesota, Montana, North Dakota, Oregon, South Dakota, and Washington; significant unharvested acreage of oats in Idaho, Maine, Minnesota, Montana, North Dakota, Oregon, and South Dakota; significant unharvested acreage of Durum wheat in Idaho, Montana, and North Dakota; and a large proportion of other spring wheat acreage not yet harvested in Idaho, Minnesota, Montana, North Dakota, South Dakota, and Washington. Based on this updated information, several changes were made to the estimates previously published in the *Small Grains 2019 Summary*. Unharvested production is a component of on-farm stocks, therefore, changes were made to the September 1 on-farm stocks levels comparable with the production adjustments.

Oat harvested area was reduced from the *Small Grains 2019 Summary* in Montana and North Dakota. As a result of this change and yield changes in Idaho, Maine, Montana, North Dakota, Oregon, and South Dakota, oat production in the United States is estimated at 53.1 million bushels, down 2 percent from the *Small Grains 2019 Summary*.

Barley harvested area was reduced from the *Small Grains 2019 Summary* in Montana, North Dakota, Oregon, and Washington. As a result of these changes and yield changes Idaho, Maine, Montana, and South Dakota, barley production in the United States is estimated at 170 million bushels, down 1 percent from the *Small Grains 2019 Summary*.

Other spring wheat harvested area was reduced from the *Small Grains 2019 Summary* in all estimating States, except Washington. As a result of these changes and a yield change in South Dakota, other spring wheat production in the United States is estimated at 562 million bushels, down 6 percent from the *Small Grains 2019 Summary*. Due to late season precipitation and a mid-October snow, producers in Montana and North Dakota reported difficulties completing harvest activities and noted quality concerns.

Durum wheat harvested area was reduced from the *Small Grains 2019 Summary* in Montana and North Dakota. As a result of this change and yield changes in Idaho, Montana, and North Dakota, Durum wheat production in the United States is estimated at 53.8 million bushels, down 7 percent from the *Small Grains 2019 Summary*. Due to late season precipitation and a mid-October snow, producers in Montana and North Dakota reported difficulties completing harvest activities and noted quality concerns.

All wheat production in the United States is estimated at 1.92 billion bushels, down 2 percent from the *Small Grains 2019 Summary*.

Statistical Methodology

Field crop survey procedures: Objective yield and farm operator surveys were conducted between October 25 and November 5 to gather information on expected yield as of November 1. The objective yield surveys for corn, cotton, and soybeans were conducted in the major producing States that usually account for about 75 percent of the United States production. Randomly selected plots were revisited to make current counts. The counts made within each sample plot depend on the crop and the maturity of that crop. In all cases, plant counts are recorded along with other measurements that provide information to forecast the number of ears, bolls, or pods and their weight. The counts are used with similar data from previous years to develop a projected biological yield. The average harvesting loss is subtracted to obtain a net yield. The plots are revisited each month until crop maturity when the fruit is harvested and weighed. After the farm operator has harvested the sample field, another plot is sampled to obtain current year harvesting loss. Starting in 2019, NASS eliminated the August objective yield survey for cotton (except Texas), corn, and soybeans.

The farm operator survey was conducted primarily by telephone with some use of mail, internet, and personal interviewers. Approximately 8,300 producers were interviewed during the survey period and asked questions about probable yield.

Field crop estimating procedures: National and State level objective yield and grower reported data were reviewed for reasonableness and consistency with historical estimates. The survey data were also reviewed considering weather patterns and crop progress compared to previous months and previous years. Each Regional Field Office submits their analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the survey data and the State analyses to prepare the published November 1 forecasts.

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

Reliability: To assist users in evaluating the reliability of the November 1 production forecast, the “Root Mean Square Error,” a statistical measure based on past performance, is computed. The deviation between the November 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of the squared percentage deviations for the latest 20-year period is computed. The square root of the average becomes statistically the “Root Mean Square Error.” Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year’s forecast are not different from those influencing recent years. For example, the “Root Mean Square Error” for the November 1 corn for grain production forecast is 1.0 percent. This means that chances are 2 out of 3 that the current production forecast will not be above or below the final estimate by more than 1.0 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 1.8 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the November 1 forecast and the final estimate. Using corn again as an example, changes between the November 1 forecast and the final estimate during the last 20 years have averaged 102 million bushels, ranging from 4 million bushels to 214 million bushels. The November 1 forecast has been below the final estimate 7 times and above 13 times. This does not imply that the November 1 corn forecast this year is likely to understate or overstate final production.

Reliability of November 1 Crop Production Forecasts

[Based on data for the past twenty years]

Crop	Root mean square error	90 percent confidence interval	Difference between forecast and final estimate				
			Production			Years	
			Average	Smallest	Largest	Below final	Above final
	(percent)	(percent)	(millions)	(millions)	(millions)	(number)	(number)
Corn for grain bushels	1.0	1.8	102	4	214	7	13
Potatoes cwt	2.2	3.9	6	1	37	13	7
Rice cwt	1.7	2.9	3	(Z)	11	14	6
Sorghum for grain bushels	4.9	8.4	13	1	33	11	9
Soybeans for beans bushels	1.8	3.0	48	2	171	9	11
Upland cotton ¹ bales	3.0	5.2	406	45	1,001	8	12

(Z) Less than half of the unit shown.

¹ Quantity is in thousands of units.

USDA, National Agricultural Statistics Service Information Contacts

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

Lance Honig, Chief, Crops Branch.....	(202) 720-2127
Anthony Prillaman, Head, Field Crops Section.....	(202) 720-2127
David Colwell – Current Agricultural Industrial Reports.....	(202) 720-3338
Chris Hawthorn – Corn, Flaxseed, Proso Millet.....	(202) 720-9526
James Johanson – County Estimates, Hay.....	(202) 690-8533
Jeff Lemmons – Oats, Soybeans.....	(202) 690-3234
Sammy Neal – Peanuts, Rice.....	(202) 720-7688
Jannety Mosley – Crop Weather, Barley.....	(202) 720-7621
Jean Porter – Rye, Wheat.....	(202) 720-8068
Chris Singh – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds.....	(202) 720-7369
Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section.....	(202) 720-2127
Joshua Bates– Almonds, Apples, Apricots, Asparagus, Carrots, Coffee, Onions, Plums, Prunes, Sweet Corn, Tobacco.....	(202) 720-4288
Vincent Davis – Dry Beans, Garlic, Hazelnuts, Honeydews, Kiwifruit, Lettuce, Maple Syrup, Mint, Pears, Sweet Cherries, Tart Cherries, Tomatoes.....	(202) 720-2157
Fleming Gibson – Cauliflower, Celery, Grapefruit, Lemons, Macadamia, Mandarins and tangerines, Mushrooms, Olives, Oranges.....	(202) 720-5412
Greg Lemmons –Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins, Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes, Tame Blueberries, Wild Blueberries.....	(202) 720-4285
Dan Norris – Artichokes, Cantaloupes, Dry Edible Peas, Green Peas, Lentils, Nectarines, Papayas, Peaches, Snap Beans, Spinach, Walnuts, Watermelons.....	(202) 720-3250
Fleming Gibson – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas, Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans.....	(202) 720-2127

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

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