



Released October 10, 2019, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Special Note

All forecasts in this report are based on conditions as of October 1, 2019 and assume normal weather for the remainder of the growing season. Data were not adjusted to account for any potential departures from normal between now and harvest.

As is done every year in October, planted and harvested acreage estimates were reviewed for corn, sorghum, soybeans, sunflower, canola, sugarbeets, and dry edible beans 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 these crops were subject to review and updating. Detailed estimates can be found on pages 6, 9, 11, 14, 17, 22, and 23.

Corn Production Down Less Than 1 Percent from September Forecast

Soybean Production Down 2 Percent

Cotton Production Down 1 Percent

Orange Production Virtually Unchanged from Last Season

Corn production for grain is forecast at 13.8 billion bushels, down less than 1 percent from the previous forecast and down 4 percent from last year. Based on conditions as of October 1, yields are expected to average 168.4 bushels per harvested acre, up 0.2 bushel from the previous forecast but down 8.0 bushels from 2018. Area harvested for grain is forecast at 81.8 million acres, down less than 1 percent from the previous forecast but up slightly from 2018. Acreage updates were made in several States based on a thorough review of all available data.

Soybean production for beans is forecast at 3.55 billion bushels, down 2 percent from the previous forecast and down 20 percent from last year. Based on conditions as of October 1, yields are expected to average 46.9 bushels per acre, down 1.0 bushel from the previous forecast and down 3.7 bushels from 2018. Area harvested for beans in the United States is forecast at 75.6 million acres, down less than 1 percent from the previous forecast and down 14 percent from 2018. Acreage updates were made in several States based on a thorough review of all available data.

All cotton production is forecast at 21.7 million 480-pound bales, down 1 percent from the previous forecast, but up 18 percent from 2018. Based on conditions as of October 1, yields are expected to average 833 pounds per harvested acre, down 6 pounds from the previous forecast and down 31 pounds from 2018. Upland cotton production is forecast at 21.0 million 480-pound bales, down 1 percent from the previous forecast but up 19 percent from 2018. Pima cotton production is forecast at 724,000 bales, up 1 percent from the previous forecast but down 10 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.

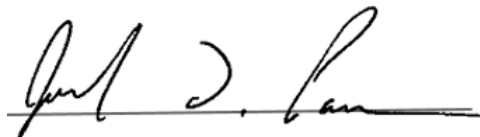
The United States all orange forecast for the 2019-2020 season is 5.33 million tons, virtually unchanged from the 2018-2019 final utilization. The Florida all orange forecast, at 74.0 million boxes (3.33 million tons), is up 3 percent from last season's final utilization. Early, midseason, and Navel varieties in Florida are forecast at 32.0 million boxes (1.44 million tons), up 5 percent from last season's final utilization. The Florida Valencia orange forecast, at 42.0 million boxes (1.89 million tons), is up 2 percent from last season's final utilization.

The California Navel orange forecast is 47.0 million boxes (1.88 million tons), down 6 percent from last season's final utilization. The California Valencia orange forecast is 9.00 million boxes (360,000 tons), unchanged from last season's final utilization. The Texas all orange forecast, at 2.70 million boxes (115,000 tons), is up 8 percent from last season's final utilization.

This report was approved on October 10, 2019.



Secretary of Agriculture
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Robert Johansson



Agricultural Statistics Board
Chairperson
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Corn Area Planted for All Purpose and Harvested for Grain – 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)
Alabama	260	320	250	305
Arizona	70	85	15	41
Arkansas	660	770	645	740
California	430	420	65	90
Colorado	1,470	1,550	1,200	1,260
Connecticut ²	23	24	(NA)	(NA)
Delaware	170	190	166	180
Florida	100	95	65	53
Georgia	325	390	285	345
Idaho	360	385	135	125
Illinois	11,000	10,500	10,850	10,250
Indiana	5,350	5,100	5,200	4,900
Iowa	13,200	13,500	12,800	13,100
Kansas	5,450	6,400	5,000	6,000
Kentucky	1,340	1,550	1,230	1,450
Louisiana	460	570	450	550
Maine ²	31	29	(NA)	(NA)
Maryland	450	510	390	440
Massachusetts ²	14	15	(NA)	(NA)
Michigan	2,300	2,050	1,940	1,740
Minnesota	7,900	7,800	7,490	7,310
Mississippi	480	660	465	625
Missouri	3,500	3,250	3,330	3,050
Montana	115	115	68	62
Nebraska	9,600	10,100	9,310	9,750
Nevada ²	13	14	(NA)	(NA)
New Hampshire ²	13	13	(NA)	(NA)
New Jersey	72	77	61	63
New Mexico	135	140	35	41
New York	1,100	1,010	645	530
North Carolina	910	990	830	910
North Dakota	3,150	3,550	2,930	3,310
Ohio	3,500	2,800	3,300	2,590
Oklahoma	320	370	280	325
Oregon	80	80	45	52
Pennsylvania	1,350	1,400	950	960
Rhode Island ²	2	2	(NA)	(NA)
South Carolina	340	380	310	345
South Dakota	5,300	4,400	4,860	3,920
Tennessee	740	970	690	920
Texas	2,200	2,500	1,750	2,050
Utah	70	85	22	29
Vermont ²	85	81	(NA)	(NA)
Virginia	485	540	325	375
Washington	165	165	85	85
West Virginia	46	52	33	39
Wisconsin	3,900	3,850	3,170	2,840
Wyoming	95	95	70	65
United States	89,129	89,942	81,740	81,815

(NA) Not available.

(X) Not applicable.

¹ Forecasted.

² Area harvested for grain not estimated.

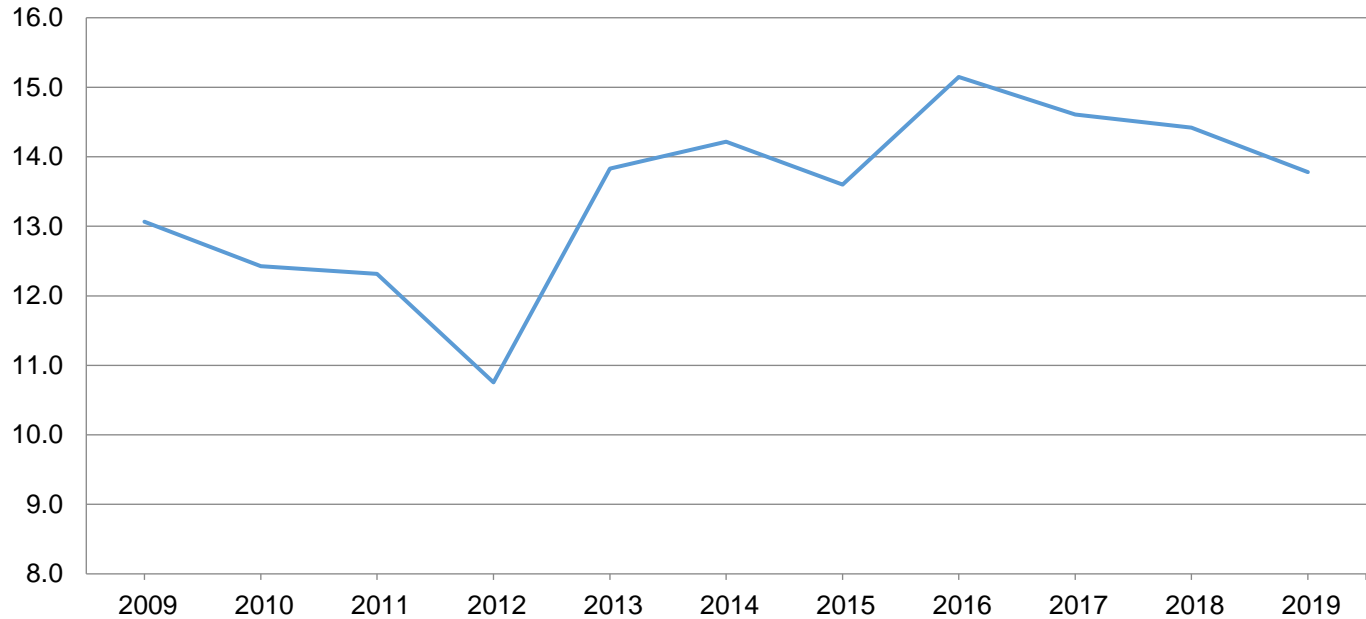
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted October 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	250	305	156.0	161.0	151.0	39,000	46,055
Arkansas	645	740	181.0	177.0	175.0	116,745	129,500
California	65	90	173.0	161.0	165.0	11,245	14,850
Colorado	1,200	1,260	130.0	148.0	144.0	156,000	181,440
Delaware	166	180	145.0	160.0	150.0	24,070	27,000
Georgia	285	345	176.0	166.0	168.0	50,160	57,960
Idaho	135	125	213.0	200.0	210.0	28,755	26,250
Illinois	10,850	10,250	210.0	180.0	179.0	2,278,500	1,834,750
Indiana	5,200	4,900	189.0	161.0	162.0	982,800	793,800
Iowa	12,800	13,100	196.0	191.0	192.0	2,508,800	2,515,200
Kansas	5,000	6,000	129.0	136.0	136.0	645,000	816,000
Kentucky	1,230	1,450	175.0	177.0	178.0	215,250	258,100
Louisiana	450	550	173.0	166.0	166.0	77,850	91,300
Maryland	390	440	146.0	165.0	167.0	56,940	73,480
Michigan	1,940	1,740	153.0	148.0	155.0	296,820	269,700
Minnesota	7,490	7,310	182.0	171.0	173.0	1,363,180	1,264,630
Mississippi	465	625	185.0	176.0	174.0	86,025	108,750
Missouri	3,330	3,050	140.0	160.0	155.0	466,200	472,750
Nebraska	9,310	9,750	192.0	186.0	186.0	1,787,520	1,813,500
New York	645	530	159.0	154.0	153.0	102,555	81,090
North Carolina	830	910	113.0	110.0	110.0	93,790	100,100
North Dakota	2,930	3,310	153.0	145.0	146.0	448,290	483,260
Ohio	3,300	2,590	187.0	158.0	160.0	617,100	414,400
Oklahoma	280	325	134.0	140.0	142.0	37,520	46,150
Pennsylvania	950	960	140.0	155.0	160.0	133,000	153,600
South Carolina	310	345	127.0	117.0	110.0	39,370	37,950
South Dakota	4,860	3,920	160.0	156.0	154.0	777,600	603,680
Tennessee	690	920	168.0	175.0	175.0	115,920	161,000
Texas	1,750	2,050	108.0	140.0	142.0	189,000	291,100
Virginia	325	375	146.0	149.0	148.0	47,450	55,500
Washington	85	85	220.0	200.0	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	166.4	170.2	63,706	75,720
United States	81,740	81,815	176.4	168.2	168.4	14,420,101	13,779,335

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 Area Planted for All Purpose and Harvested for Grain – States and United States: 2018 and 2019

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2018	2019	2018	2019 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas ²	12	(NA)	10	(NA)
Colorado	355	365	325	325
Georgia ²	25	(NA)	15	(NA)
Illinois ²	18	(NA)	16	(NA)
Kansas	2,800	2,600	2,650	2,400
Louisiana ²	8	(NA)	6	(NA)
Mississippi ²	4	(NA)	3	(NA)
Missouri ²	30	(NA)	21	(NA)
Nebraska	230	195	170	140
New Mexico ²	80	(NA)	47	(NA)
North Carolina ²	18	(NA)	8	(NA)
Oklahoma	300	305	240	270
South Dakota	260	245	200	180
Texas	1,550	1,550	1,350	1,400
United States	5,690	5,260	5,061	4,715

(NA) Not available.

¹ Forecasted.

² Estimates discontinued in 2019.

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

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				September 1	October 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	48.0	45.0	17,225	14,625
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	82.0	233,200	196,800
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	93.0	15,980	13,020
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	53.0	52.0	12,000	14,040
South Dakota	200	180	80.0	83.0	83.0	16,000	14,940
Texas	1,350	1,400	46.0	68.0	68.0	62,100	95,200
United States	5,061	4,715	72.1	74.3	73.9	364,986	348,625

(NA) Not available.

¹ Estimates discontinued in 2019.

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

State	Area harvested		Yield per acre			Production ¹	
	2018	2019	2018	2019		2018	2019
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,427	1,126	7,520	7,450	7,500	107,325	84,450
California	504	493	8,620	8,700	8,800	43,425	43,384
Louisiana	436	415	7,130	6,700	6,650	31,094	27,598
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	7,300	7,600	15,060	11,704
United States	2,915	2,477	7,692	7,563	7,616	224,211	188,637

¹ Includes sweet rice production.

Rice Production by Class – United States: 2018 and Forecasted October 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	127,536	58,817	2,284	188,637

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.

Soybeans for Beans 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)
Alabama	345	270	335	265
Arkansas	3,270	2,650	3,210	2,600
Delaware	170	155	168	153
Florida ²	18	(NA)	12	(NA)
Georgia	145	100	130	95
Illinois	10,800	10,000	10,500	9,940
Indiana	6,000	5,400	5,960	5,370
Iowa	9,950	9,200	9,830	9,130
Kansas	4,750	4,600	4,690	4,540
Kentucky	1,950	1,700	1,930	1,690
Louisiana	1,340	890	1,190	860
Maryland	530	480	515	475
Michigan	2,330	1,750	2,310	1,720
Minnesota	7,750	6,900	7,650	6,820
Mississippi	2,230	1,650	2,190	1,620
Missouri	5,850	5,100	5,780	5,030
Nebraska	5,650	5,000	5,590	4,950
New Jersey	110	97	107	95
New York	335	235	325	230
North Carolina	1,650	1,550	1,570	1,530
North Dakota	6,900	5,600	6,840	5,550
Ohio	5,050	4,300	5,020	4,270
Oklahoma	640	460	600	440
Pennsylvania	640	630	630	625
South Carolina	390	340	330	330
South Dakota	5,650	3,600	5,580	3,560
Tennessee	1,700	1,400	1,670	1,380
Texas	175	80	135	68
Virginia	600	570	590	560
West Virginia ²	29	(NA)	27	(NA)
Wisconsin	2,220	1,750	2,180	1,730
United States	89,167	76,457	87,594	75,626

(NA) Not available.

¹ Forecasted.

² Estimates discontinued in 2019.

Soybeans for Beans Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted October 1, 2019

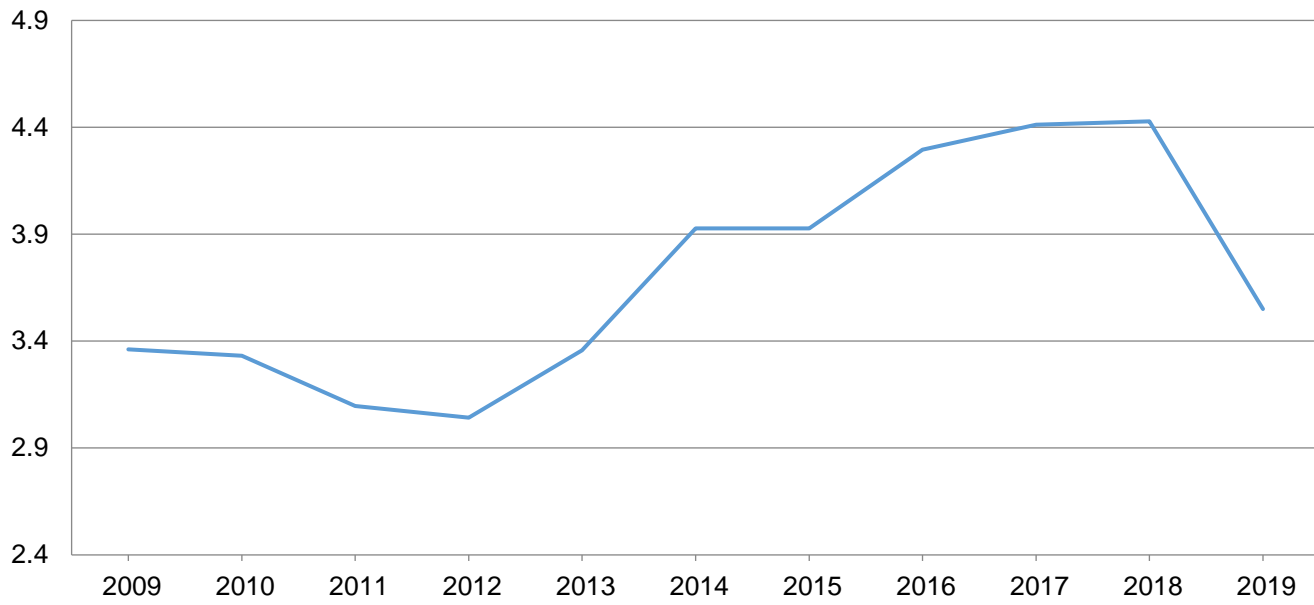
State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	335	265	40.0	44.0	40.0	13,400	10,600
Arkansas	3,210	2,600	50.5	50.0	50.0	162,105	130,000
Delaware	168	153	41.5	45.0	43.0	6,972	6,579
Florida ¹	12	(NA)	37.0	(NA)	(NA)	444	(NA)
Georgia	130	95	39.5	33.0	28.0	5,135	2,660
Illinois	10,500	9,940	63.5	53.0	51.0	666,750	506,940
Indiana	5,960	5,370	57.5	49.0	48.0	342,700	257,760
Iowa	9,830	9,130	56.0	54.0	53.0	550,480	483,890
Kansas	4,690	4,540	43.0	44.0	43.0	201,670	195,220
Kentucky	1,930	1,690	51.0	53.0	49.0	98,430	82,810
Louisiana	1,190	860	51.5	49.0	48.0	61,285	41,280
Maryland	515	475	47.5	44.0	45.0	24,463	21,375
Michigan	2,310	1,720	47.5	42.0	44.0	109,725	75,680
Minnesota	7,650	6,820	49.0	45.0	44.0	374,850	300,080
Mississippi	2,190	1,620	54.0	51.0	51.0	118,260	82,620
Missouri	5,780	5,030	44.5	46.0	46.0	257,210	231,380
Nebraska	5,590	4,950	58.0	58.0	56.0	324,220	277,200
New Jersey	107	95	39.5	42.0	41.0	4,227	3,895
New York	325	230	52.0	47.0	46.0	16,900	10,580
North Carolina	1,570	1,530	33.0	38.0	37.0	51,810	56,610
North Dakota	6,840	5,550	35.0	35.0	35.0	239,400	194,250
Ohio	5,020	4,270	56.0	48.0	48.0	281,120	204,960
Oklahoma	600	440	28.0	26.0	28.0	16,800	12,320
Pennsylvania	630	625	44.5	48.0	50.0	28,035	31,250
South Carolina	330	330	29.0	34.0	29.0	9,570	9,570
South Dakota	5,580	3,560	45.0	44.0	43.0	251,100	153,080
Tennessee	1,670	1,380	45.5	50.0	47.0	75,985	64,860
Texas	135	68	31.5	29.0	29.0	4,253	1,972
Virginia	590	560	42.0	38.0	38.0	24,780	21,280
West Virginia ¹	27	(NA)	53.0	(NA)	(NA)	1,431	(NA)
Wisconsin	2,180	1,730	48.0	47.0	46.0	104,640	79,580
United States	87,594	75,626	50.6	47.9	46.9	4,428,150	3,550,281

(NA) Not available.

¹ Estimates discontinued in 2019.

Soybean Production – United States

Billion bushels



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

[Includes updates to planted and harvested area previously published]

Varietal type and State	Area planted		Area harvested	
	2018 (1,000 acres)	2019 (1,000 acres)	2018 (1,000 acres)	2019 ¹ (1,000 acres)
Oil				
California	58.0	49.0	57.0	48.5
Colorado	58.0	47.0	49.0	43.0
Kansas	43.0	37.0	41.0	35.0
Minnesota	45.0	53.0	44.0	51.0
Nebraska	25.0	28.0	24.0	27.0
North Dakota	395.0	475.0	380.0	460.0
South Dakota	520.0	485.0	480.0	470.0
Texas	20.0	26.0	19.0	24.0
United States	1,164.0	1,200.0	1,094.0	1,158.5
Non-oil				
California	2.0	1.6	2.0	1.6
Colorado	8.0	12.0	7.0	11.0
Kansas	10.0	12.0	8.5	11.0
Minnesota	7.5	5.2	6.9	4.8
Nebraska	12.0	10.0	9.5	9.0
North Dakota	41.0	65.0	40.0	62.0
South Dakota	51.0	48.0	45.0	45.0
Texas	5.5	5.0	4.5	4.0
United States	137.0	158.8	123.4	148.4
All				
California	60.0	50.6	59.0	50.1
Colorado	66.0	59.0	56.0	54.0
Kansas	53.0	49.0	49.5	46.0
Minnesota	52.5	58.2	50.9	55.8
Nebraska	37.0	38.0	33.5	36.0
North Dakota	436.0	540.0	420.0	522.0
South Dakota	571.0	533.0	525.0	515.0
Texas	25.5	31.0	23.5	28.0
United States	1,301.0	1,358.8	1,217.4	1,306.9

¹ Forecasted.

Sunflower Area Harvested, Yield, and Production by Type – States and United States: 2018 and Forecasted October 1, 2019

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

Varietal type and State	Area harvested		Yield per acre		Production	
	2018 (1,000 acres)	2019 (1,000 acres)	2018 (pounds)	2019 ¹ (pounds)	2018 (1,000 pounds)	2019 ¹ (1,000 pounds)
Oil						
California	57.0	48.5	1,300		74,100	
Colorado	49.0	43.0	1,100		53,900	
Kansas	41.0	35.0	1,500		61,500	
Minnesota	44.0	51.0	2,250		99,000	
Nebraska	24.0	27.0	1,420		34,080	
North Dakota	380.0	460.0	1,750		665,000	
South Dakota	480.0	470.0	1,830		878,400	
Texas	19.0	24.0	1,120		21,280	
United States	1,094.0	1,158.5	1,725		1,887,260	
Non-oil						
California	2.0	1.6	1,200		2,400	
Colorado	7.0	11.0	1,150		8,050	
Kansas	8.5	11.0	1,500		12,750	
Minnesota	6.9	4.8	2,150		14,835	
Nebraska	9.5	9.0	1,400		13,300	
North Dakota	40.0	62.0	1,860		74,400	
South Dakota	45.0	45.0	1,950		87,750	
Texas	4.5	4.0	1,400		6,300	
United States	123.4	148.4	1,781		219,785	
All						
California	59.0	50.1	1,297	1,197	76,500	59,960
Colorado	56.0	54.0	1,106	1,061	61,950	57,300
Kansas	49.5	46.0	1,500	1,698	74,250	78,100
Minnesota	50.9	55.8	2,236	1,937	113,835	108,090
Nebraska	33.5	36.0	1,414	1,438	47,380	51,750
North Dakota	420.0	522.0	1,760	1,832	739,400	956,400
South Dakota	525.0	515.0	1,840	1,773	966,150	912,900
Texas	23.5	28.0	1,174	1,007	27,580	28,200
United States	1,217.4	1,306.9	1,731	1,724	2,107,045	2,252,700

¹ 2019 yield and production estimates for oil and non-oil varieties will be published in the *Crop Production 2019 Summary*.

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

State	Area planted		Area harvested	
	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	165.0	160.0	161.0	157.0
Arkansas	26.0	35.0	23.0	34.0
Florida	155.0	165.0	143.0	155.0
Georgia	665.0	670.0	655.0	660.0
Mississippi	25.0	20.0	24.0	19.0
New Mexico	5.5	5.0	5.5	5.0
North Carolina	102.0	104.0	98.0	101.0
Oklahoma	16.0	16.0	15.0	15.0
South Carolina	87.0	65.0	80.0	62.0
Texas	155.0	160.0	145.0	150.0
Virginia	24.0	25.0	24.0	25.0
United States	1,425.5	1,425.0	1,373.5	1,383.0

State	Yield per acre			Production	
	2018	2019		2018	2019
		September 1	October 1		
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	3,550	3,400	3,300	571,550	518,100
Arkansas	4,900	5,000	5,000	112,700	170,000
Florida	3,950	4,000	4,000	564,850	620,000
Georgia	4,390	4,400	4,200	2,875,450	2,772,000
Mississippi	3,900	4,300	4,300	93,600	81,700
New Mexico	2,850	3,200	3,200	15,675	16,000
North Carolina	3,870	4,200	4,300	379,260	434,300
Oklahoma	3,070	3,700	3,700	46,050	55,500
South Carolina	3,400	3,600	3,500	272,000	217,000
Texas	3,200	3,500	3,300	464,000	495,000
Virginia	4,200	3,900	4,100	100,800	102,500
United States	4,001	4,086	3,964	5,495,935	5,482,100

Canola 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	2019	2018	2019 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho ²	43.0	(NA)	42.0	(NA)
Kansas	47.0	29.0	35.0	18.0
Minnesota	46.0	51.0	45.0	49.0
Montana	120.0	150.0	116.0	145.0
North Dakota	1,590.0	1,700.0	1,580.0	1,690.0
Oklahoma	70.0	35.0	53.0	21.0
Oregon ²	4.7	(NA)	4.5	(NA)
Washington	70.0	75.0	67.0	71.0
United States	1,990.7	2,040.0	1,942.5	1,994.0

(NA) Not available.

¹ Forecasted.

² Estimates discontinued in 2019.

Canola Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted October 1, 2019

State	Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Idaho ¹	42.0	(NA)	2,100	(NA)	88,200	(NA)
Kansas	35.0	18.0	960	1,370	33,600	24,660
Minnesota	45.0	49.0	2,060	2,130	92,700	104,370
Montana	116.0	145.0	1,120	1,450	129,920	210,250
North Dakota	1,580.0	1,690.0	1,960	1,900	3,096,800	3,211,000
Oklahoma	53.0	21.0	880	1,410	46,640	29,610
Oregon ¹	4.5	(NA)	1,700	(NA)	7,650	(NA)
Washington	67.0	71.0	1,790	1,820	119,930	129,220
United States	1,942.5	1,994.0	1,861	1,860	3,615,440	3,709,110

(NA) Not available.

¹ Estimates discontinued in 2019.

Cotton Area Harvested, Yield, and Production by Type – States and United States: 2018 and Forecasted October 1, 2019

Type and State	Area harvested		Yield per acre			Production ¹	
	2018	2019	2018	2019		2018	2019
				September 1	October 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	942	951	888.0	1,060.0
Arizona	159.0	159.0	1,319	1,509	1,525	437.0	505.0
Arkansas	480.0	610.0	1,133	1,157	1,157	1,133.0	1,470.0
California	47.0	54.0	1,910	1,644	1,742	187.0	196.0
Florida	93.0	111.0	532	908	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	960	341.0	320.0
Louisiana	189.0	270.0	1,067	978	1,013	420.0	570.0
Mississippi	615.0	710.0	1,141	1,115	1,115	1,462.0	1,650.0
Missouri	322.0	368.0	1,373	1,304	1,265	921.0	970.0
New Mexico	56.0	45.0	977	1,067	1,120	114.0	105.0
North Carolina	415.0	495.0	812	931	921	702.0	950.0
Oklahoma	550.0	575.0	595	651	701	682.0	840.0
South Carolina	275.0	295.0	733	830	765	420.0	470.0
Tennessee	355.0	400.0	1,041	1,116	1,128	770.0	940.0
Texas	4,350.0	6,000.0	756	640	624	6,850.0	7,800.0
Virginia	97.0	104.0	896	1,062	1,015	181.0	220.0
United States	9,957.0	12,281.0	847	826	820	17,566.0	20,981.0
American Pima							
Arizona	14.5	8.0	943	1,020	1,020	28.5	17.0
California	210.0	204.0	1,662	1,576	1,593	727.0	677.0
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	1,507	1,522	801.0	724.0
All							
Alabama	497.0	535.0	858	942	951	888.0	1,060.0
Arizona	173.5	167.0	1,288	1,486	1,500	465.5	522.0
Arkansas	480.0	610.0	1,133	1,157	1,157	1,133.0	1,470.0
California	257.0	258.0	1,707	1,591	1,624	914.0	873.0
Florida	93.0	111.0	532	908	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	960	341.0	320.0
Louisiana	189.0	270.0	1,067	978	1,013	420.0	570.0
Mississippi	615.0	710.0	1,141	1,115	1,115	1,462.0	1,650.0
Missouri	322.0	368.0	1,373	1,304	1,265	921.0	970.0
New Mexico	62.8	50.4	959	1,038	1,086	125.5	114.0
North Carolina	415.0	495.0	812	931	921	702.0	950.0
Oklahoma	550.0	575.0	595	651	701	682.0	840.0
South Carolina	275.0	295.0	733	830	765	420.0	470.0
Tennessee	355.0	400.0	1,041	1,116	1,128	770.0	940.0
Texas	4,367.5	6,011.0	757	641	625	6,884.0	7,821.0
Virginia	97.0	104.0	896	1,062	1,015	181.0	220.0
United States	10,205.8	12,509.4	864	839	833	18,367.0	21,705.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

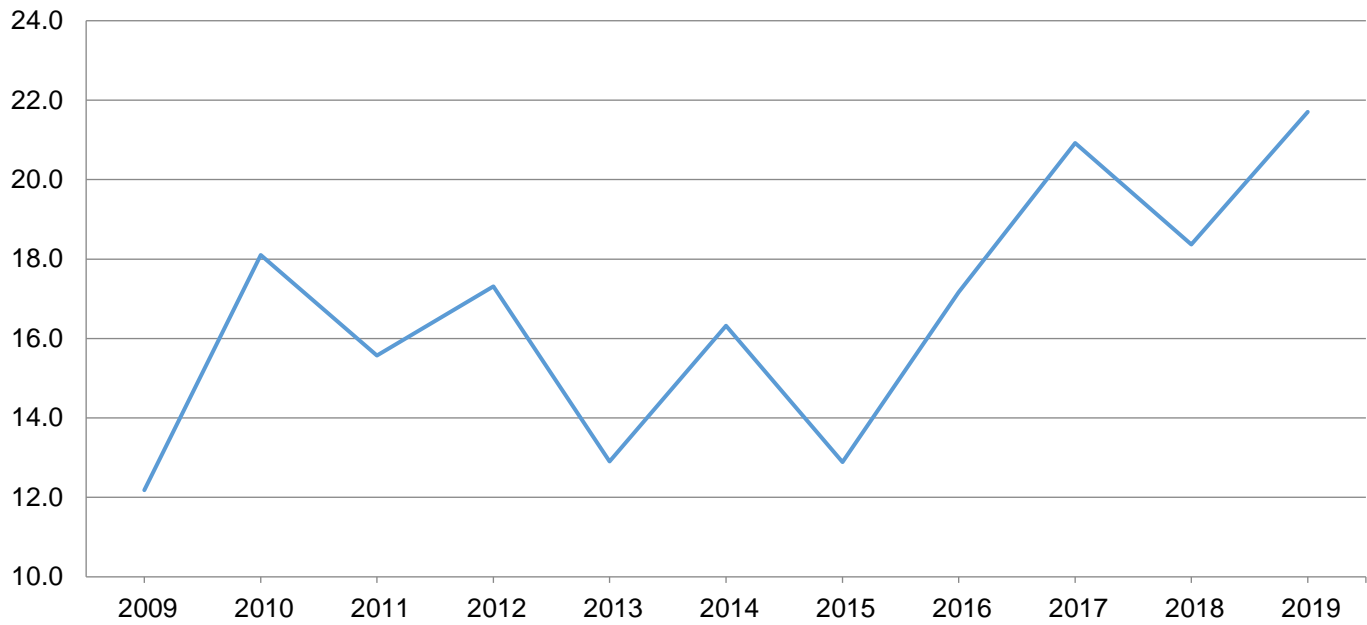
Cottonseed Production – United States: 2018 and Forecasted October 1, 2019

State	Production	
	2018 (1,000 tons)	2019 ¹ (1,000 tons)
United States	5,631.0	6,725.0

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

Cotton Production - United States

Million bales



Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted October 1, 2019

State	Area harvested		Yield per acre		Production	
	2018 (1,000 acres)	2019 (1,000 acres)	2018 (tons)	2019 (tons)	2018 (1,000 tons)	2019 (1,000 tons)
Arizona	260	285	8.30	8.10	2,158	2,309
California	620	560	6.90	6.00	4,278	3,360
Colorado	730	730	3.40	3.80	2,482	2,774
Idaho	1,050	1,020	4.20	4.00	4,410	4,080
Illinois	250	240	3.30	3.60	825	864
Indiana	240	270	3.00	3.60	720	972
Iowa	620	700	3.70	3.20	2,294	2,240
Kansas	610	560	3.50	3.50	2,135	1,960
Kentucky	145	115	3.10	3.20	450	368
Michigan	590	570	2.40	2.10	1,416	1,197
Minnesota	720	850	2.85	2.90	2,052	2,465
Missouri	270	280	2.40	2.80	648	784
Montana	1,900	2,000	2.05	2.00	3,895	4,000
Nebraska	850	900	4.30	3.90	3,655	3,510
Nevada	185	215	4.70	5.20	870	1,118
New Mexico	160	170	4.70	5.40	752	918
New York	300	290	2.40	2.80	720	812
North Dakota	1,470	1,350	1.70	1.70	2,499	2,295
Ohio	350	320	3.10	2.60	1,085	832
Oklahoma	230	200	2.70	3.40	621	680
Oregon	420	430	4.10	4.70	1,722	2,021
Pennsylvania	300	315	2.90	2.80	870	882
South Dakota	1,750	1,800	2.15	2.70	3,763	4,860
Texas	140	165	5.60	4.30	784	710
Utah	500	530	3.70	4.20	1,850	2,226
Virginia	40	45	3.00	3.00	120	135
Washington	350	320	4.50	5.20	1,575	1,664
Wisconsin	820	850	2.35	2.80	1,927	2,380
Wyoming	590	610	2.70	2.30	1,593	1,403
Other States ¹	148	138	3.14	2.90	465	400
United States	16,608	16,828	3.17	3.22	52,634	54,219

¹ Other States include Arkansas, Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, North Carolina, Rhode Island, Tennessee, Vermont, and West Virginia. Individual State level estimates will be published in the *Crop Production 2019 Summary*.

All Other Hay Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted October 1, 2019

State	Area harvested		Yield per acre		Production	
	2018 (1,000 acres)	2019 (1,000 acres)	2018 (tons)	2019 (tons)	2018 (1,000 tons)	2019 (1,000 tons)
Alabama ¹	850	760	2.80	2.50	2,380	1,900
Arkansas	1,200	1,180	1.80	2.00	2,160	2,360
California	360	330	3.90	3.50	1,404	1,155
Colorado	690	730	1.65	1.80	1,139	1,314
Georgia ¹	600	580	2.90	2.90	1,740	1,682
Idaho	290	240	2.10	2.00	609	480
Illinois	220	230	2.20	2.20	484	506
Indiana	270	300	2.45	2.10	662	630
Iowa	320	380	2.20	2.60	704	988
Kansas	1,750	1,700	1.50	1.90	2,625	3,230
Kentucky	1,750	2,000	2.65	2.40	4,638	4,800
Louisiana ¹	380	390	2.20	2.40	836	936
Michigan	220	230	1.80	1.60	396	368
Minnesota	500	450	2.05	2.00	1,025	900
Mississippi ¹	590	600	2.10	2.30	1,239	1,380
Missouri	2,800	2,900	1.70	2.20	4,760	6,380
Montana	1,000	900	1.70	1.50	1,700	1,350
Nebraska	1,850	1,600	1.80	1.70	3,330	2,720
New York	920	920	2.20	2.00	2,024	1,840
North Carolina	810	810	2.70	2.40	2,187	1,944
North Dakota	1,200	1,300	1.60	1.70	1,920	2,210
Ohio	620	640	2.05	2.10	1,271	1,344
Oklahoma	3,000	3,100	1.50	1.90	4,500	5,890
Oregon	580	620	2.30	2.40	1,334	1,488
Pennsylvania	890	820	2.10	2.40	1,869	1,968
South Dakota	1,500	1,450	1.35	1.70	2,025	2,465
Tennessee	1,700	1,750	2.45	2.80	4,165	4,900
Texas	4,600	4,300	1.65	2.20	7,590	9,460
Virginia	1,100	1,100	2.20	2.20	2,420	2,420
Washington	410	360	2.90	3.00	1,189	1,080
West Virginia	520	480	1.70	1.80	884	864
Wisconsin	540	550	1.90	1.90	1,026	1,045
Wyoming	500	530	1.60	1.60	800	848
Other States ²	1,701	1,715	2.31	2.26	3,931	3,868
United States	36,231	35,945	1.96	2.13	70,966	76,713

¹ Alfalfa and alfalfa mixtures included in all other hay.

² Other States include Alaska, Arizona, Connecticut, Delaware, Florida, Maine, Maryland, Massachusetts, Nevada, New Hampshire, New Jersey, New Mexico, Rhode Island, South Carolina, Utah, and Vermont. Individual State level estimates will be published in the *Crop Production 2019 Summary*.

Sugarbeet 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	2019	2018	2019 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	24.6	24.6	24.6	24.2
Colorado	26.3	25.1	25.5	24.5
Idaho	163.0	171.0	163.0	166.0
Michigan	150.0	146.0	147.0	145.0
Minnesota	415.0	427.0	408.0	421.0
Montana	43.5	41.9	42.4	41.6
Nebraska	45.5	44.1	44.1	43.6
North Dakota	202.0	212.0	199.0	208.0
Oregon	9.3	9.9	9.3	9.7
Washington	1.8	2.0	1.8	2.0
Wyoming	32.1	31.3	30.7	30.6
United States	1,113.1	1,134.9	1,095.4	1,116.2

¹ Forecasted.

Sugarbeet Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted October 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
				September 1	October 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	33.0	831	809
Idaho	163.0	166.0	40.5	40.2	40.2	6,602	6,673
Michigan	147.0	145.0	29.1	28.1	27.5	4,278	3,988
Minnesota	408.0	421.0	25.7	26.7	27.0	10,486	11,367
Montana	42.4	41.6	31.1	31.5	31.3	1,319	1,302
Nebraska	44.1	43.6	31.9	28.1	27.6	1,407	1,203
North Dakota	199.0	208.0	28.8	28.0	28.3	5,731	5,886
Oregon	9.3	9.7	39.4	39.2	39.3	366	381
Washington	1.8	2.0	48.2	48.2	48.3	87	97
Wyoming	30.7	30.6	30.8	27.4	27.4	946	838
United States	1,095.4	1,116.2	30.3	30.0	30.1	33,145	33,606

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 October 1, 2019

State	Area harvested		Yield per acre ¹			Production ¹	
	2018	2019	2018	2019		2018	2019
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	412.3	411.0	41.9	44.1	44.2	17,256	18,166
Louisiana	448.5	480.0	35.4	32.4	32.0	15,861	15,360
Texas	38.9	33.3	36.6	37.0	37.5	1,425	1,249
United States	899.7	924.3	38.4	37.8	37.6	34,542	34,775

¹ Net tons.

Dry Edible Bean Area Planted and Harvested – States and United States: 2018 and 2019

[Includes updates to planted and harvested area previously published. Excludes beans grown for garden seed. Beginning in 2019, chickpeas are excluded]

State	Area planted		Area harvested	
	2018	2019	2018	2019 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	48.0	26.5	47.7	25.5
Colorado	42.0	37.0	31.5	35.0
Idaho	185.0	58.0	183.0	57.5
Michigan	195.0	190.0	193.0	187.0
Minnesota	175.0	210.0	168.0	201.0
Montana ²	395.0	(NA)	386.0	(NA)
Nebraska	140.0	120.0	131.0	110.0
North Dakota	635.0	620.0	615.0	600.0
Texas ²	18.0	(NA)	16.0	(NA)
Washington	218.0	25.0	217.0	25.0
Wyoming	30.0	21.0	27.8	19.5
United States	2,081.0	1,307.5	2,016.0	1,260.5

(NA) Not available.

¹ Forecasted.

² Estimates discontinued in 2019.

Dry Edible Bean Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted October 1, 2019

[Excludes beans grown for garden seed. Beginning in 2019, chickpeas are excluded]

State	Area harvested		Yield per acre ¹		Production ¹	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
California	47.7	25.5	2,500	2,200	1,191	561
Colorado	31.5	35.0	2,120	1,920	668	672
Idaho	183.0	57.5	1,710	2,100	3,127	1,208
Michigan	193.0	187.0	2,400	2,100	4,635	3,927
Minnesota	168.0	201.0	2,360	2,150	3,964	4,322
Montana ²	386.0	(NA)	1,350	(NA)	5,214	(NA)
Nebraska	131.0	110.0	2,480	2,020	3,249	2,222
North Dakota	615.0	600.0	1,760	1,660	10,806	9,960
Texas ²	16.0	(NA)	1,100	(NA)	176	(NA)
Washington	217.0	25.0	1,780	2,100	3,857	525
Wyoming	27.8	19.5	2,180	2,130	607	415
United States	2,016.0	1,260.5	1,860	1,889	37,494	23,812

(NA) Not available.

¹ Clean basis.

² Estimates discontinued in 2019.

Tobacco Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted October 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Georgia	12,500	9,000	1,900	2,000	2,000	23,750	18,000
Kentucky	68,100	57,700	1,973	2,196	2,197	134,370	126,790
North Carolina	152,750	118,400	1,649	1,999	1,799	251,925	213,040
Pennsylvania	7,800	5,700	2,231	2,326	2,326	17,400	13,260
South Carolina	12,300	8,000	1,800	2,000	1,700	22,140	13,600
Tennessee	15,700	13,800	2,523	2,332	2,278	39,610	31,440
Virginia	22,280	16,020	1,977	2,181	1,993	44,046	31,932
United States	291,430	228,620	1,830	2,090	1,960	533,241	448,062

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2018 and Forecasted October 1, 2019

Class, type, and State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Class 1, Flue-cured (11-14)							
Georgia	12,500	9,000	1,900	2,000	2,000	23,750	18,000
North Carolina	152,000	118,000	1,650	2,000	1,800	250,800	212,400
South Carolina	12,300	8,000	1,800	2,000	1,700	22,140	13,600
Virginia	21,000	15,000	2,000	2,200	2,000	42,000	30,000
United States	197,800	150,000	1,712	2,020	1,827	338,690	274,000
Class 2, Fire-cured (21-23)							
Kentucky	11,000	9,500	3,200	3,100	3,100	35,200	29,450
Tennessee	7,600	6,400	3,050	2,700	2,700	23,180	17,280
Virginia	280	320	1,950	2,100	2,100	546	672
United States	18,880	16,220	3,121	2,920	2,922	58,926	47,402
Class 3A, Light air-cured							
Type 31, Burley							
Kentucky	50,000	41,000	1,600	1,900	1,900	80,000	77,900
North Carolina	750	400	1,500	1,600	1,600	1,125	640
Pennsylvania	4,000	2,500	2,200	2,400	2,400	8,800	6,000
Tennessee	5,300	4,000	1,700	1,600	1,500	9,010	6,000
Virginia	1,000	700	1,500	1,800	1,800	1,500	1,260
United States	61,050	48,600	1,645	1,897	1,889	100,435	91,800
Type 32, Southern Maryland Belt							
Pennsylvania	1,400	1,000	2,200	2,200	2,200	3,080	2,200
United States	1,400	1,000	2,200	2,200	2,200	3,080	2,200
Total light air-cured (31-32)	62,450	49,600	1,658	1,903	1,895	103,515	94,000
Class 3B, Dark air-cured (35-37)							
Kentucky	7,100	7,200	2,700	2,800	2,700	19,170	19,440
Tennessee	2,800	3,400	2,650	2,500	2,400	7,420	8,160
United States	9,900	10,600	2,686	2,704	2,604	26,590	27,600
Class 4, Cigar filler							
Type 41, Pennsylvania Seedleaf							
Pennsylvania	2,400	2,200	2,300	2,300	2,300	5,520	5,060
United States	2,400	2,200	2,300	2,300	2,300	5,520	5,060
All tobacco							
United States	291,430	228,620	1,830	2,090	1,960	533,241	448,062

Utilized Production of Citrus Fruits by Crop – States and United States: 2018-2019 and Forecasted October 1, 2019

[The crop year begins with the bloom of the first year shown and ends with the completion of harvest the following year]

Crop and State	Utilized production boxes ¹		Utilized production ton equivalent	
	2018-2019 (1,000 boxes)	2019-2020 (1,000 boxes)	2018-2019 (1,000 tons)	2019-2020 (1,000 tons)
Oranges				
California, all	49,800	47,000	1,992	1,880
Early, mid, and Navel ²	40,800	38,000	1,632	1,520
Valencia	9,000	9,000	360	360
Florida, all	71,750	74,000	3,229	3,330
Early, mid, and Navel ²	30,400	32,000	1,368	1,440
Valencia	41,350	42,000	1,861	1,890
Texas, all	2,500	2,700	106	115
Early, mid, and Navel ²	2,210	2,050	94	87
Valencia	290	650	12	28
United States, all	124,050	123,700	5,327	5,325
Early, mid, and Navel ²	73,410	72,050	3,094	3,047
Valencia	50,640	51,650	2,233	2,278
Grapefruit				
California	3,200	4,200	128	168
Florida, all	4,510	4,600	192	196
Red	3,740	3,900	159	166
White	770	700	33	30
Texas	6,100	5,700	244	228
United States	13,810	14,500	564	592
Tangerines and mandarins ³				
California	26,000	23,000	1,040	920
Florida	990	1,050	47	50
United States	26,990	24,050	1,087	970
Lemons				
Arizona	1,350	1,400	54	56
California	22,800	20,000	912	800
United States	24,150	21,400	966	856

¹ Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California-80, Florida-85, Texas-80; tangerines and mandarins in California-80, Florida-95; lemons-80.

² Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

³ Includes tangelos and tangors.

Pecan Production by Variety – States and United States: 2018 and Forecasted October 1, 2019

State and variety	Utilized production (in-shell basis)	
	2018 (1,000 pounds)	2019 (1,000 pounds)
Alabama ¹	1,600	(NA)
Improved	1,490	(NA)
Native and seedling	110	(NA)
Arizona	27,900	38,000
Improved	27,900	38,000
California ¹	3,700	(NA)
Improved	3,700	(NA)
Georgia	70,000	76,000
Improved	70,000	76,000
Louisiana ¹	6,030	(NA)
Improved	2,510	(NA)
Native and seedling	3,520	(NA)
New Mexico	91,100	97,000
Improved	91,100	97,000
Oklahoma	9,000	23,000
Improved	2,970	4,600
Native and seedling	6,030	18,400
Texas	33,600	47,000
Improved	28,800	37,600
Native and seedling	4,800	9,400
United States	242,930	281,000
Improved	228,470	253,200
Native and seedling	14,460	27,800

(NA) Not available.

¹ Estimates discontinued in 2019.

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	2,214
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	842
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	38,052
Winter	32,542	31,159	24,742	24,327
Durum	2,073	1,339	1,974	1,290
Other spring	13,200	12,660	12,896	12,435
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	1,116.2
Sugarcane	(NA)	(NA)	899.7	924.3
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	967.5	1,014.8	959.6
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	77.4	153,527	171,343
Corn for grain	bushels	176.4	168.4	14,420,101	13,779,335
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	64.4	56,130	54,194
Proso millet	bushels	29.8		11,991	
Rice ⁵	cwt	7,692	7,616	224,211	188,637
Rye	bushels	30.9	34.3	8,432	10,622
Sorghum for grain	bushels	72.1	73.9	364,986	348,625
Sorghum for silage	tons	12.6		3,326	
Wheat, all	bushels	47.6	51.6	1,885,156	1,961,734
Winter	bushels	47.9	53.6	1,183,939	1,304,003
Durum	bushels	39.5	44.8	77,985	57,741
Other spring	bushels	48.3	48.3	623,232	599,990
Oilseeds					
Canola	pounds	1,861	1,860	3,615,440	3,709,110
Cottonseed	tons	(X)	(X)	5,631.0	6,725.0
Flaxseed	bushels	22.6		4,466	
Mustard seed	pounds	750		73,078	
Peanuts	pounds	4,001	3,964	5,495,935	5,482,100
Rapeseed	pounds	1,524		8,230	
Safflower	pounds	1,511		236,380	
Soybeans for beans	bushels	50.6	46.9	4,428,150	3,550,281
Sunflower	pounds	1,731	1,724	2,107,045	2,252,700
Cotton, tobacco, and sugar crops					
Cotton, all ⁵	bales	864	833	18,367.0	21,705.0
Upland ⁵	bales	847	820	17,566.0	20,981.0
American Pima ⁵	bales	1,545	1,522	801.0	724.0
Sugarbeets	tons	30.3	30.1	33,145	33,606
Sugarcane	tons	38.4	37.6	34,542	34,775
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		450,020	
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	895,980
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	340,750
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	15,399,260
Winter	13,169,420	12,609,740	10,012,840	9,844,890
Durum	838,920	541,880	798,860	522,050
Other spring	5,341,910	5,123,380	5,218,880	5,032,320
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	451,710
Sugarcane	(NA)	(NA)	364,100	374,050
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	391,540	410,680	388,340
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	4.16	3,342,660	3,730,550
Corn for grain	11.07	10.57	366,287,440	350,011,230
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	786,620
Proso millet	1.67		271,950	
Rice	8.62	8.54	10,170,040	8,556,430
Rye	1.94	2.15	214,180	269,810
Sorghum for grain	4.53	4.64	9,271,070	8,855,480
Sorghum for silage	28.24		3,017,300	
Wheat, all ²	3.20	3.47	51,305,540	53,389,650
Winter	3.22	3.60	32,221,540	35,489,150
Durum	2.66	3.01	2,122,400	1,571,450
Other spring	3.25	3.24	16,961,600	16,329,050
Oilseeds				
Canola	2.09	2.08	1,639,940	1,682,420
Cottonseed	(X)	(X)	5,108,360	6,100,820
Flaxseed	1.42		113,440	
Mustard seed	0.84		33,150	
Peanuts	4.48	4.44	2,492,910	2,486,640
Rapeseed	1.71		3,730	
Safflower	1.69		107,220	
Soybeans for beans	3.40	3.16	120,514,490	96,622,810
Sunflower	1.94	1.93	955,740	1,021,810
Cotton, tobacco, and sugar crops				
Cotton, all ²	0.97	0.93	3,998,940	4,725,710
Upland	0.95	0.92	3,824,550	4,568,070
American Pima	1.73	1.71	174,400	157,630
Sugarbeets	67.83	67.49	30,068,640	30,486,850
Sugarcane	86.06	84.34	31,335,980	31,547,350
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		20,412,570	
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		
Grapefruit1,000 tons	564	592
Lemons1,000 tons	966	856
Oranges1,000 tons	5,327	5,325
Tangerines and mandarins1,000 tons	1,087	970
Noncitrus		
Apples, commercialmillion pounds	10,630.0	
Apricots tons	64,500	
Avocados tons		
Blueberries, Cultivated1,000 pounds		
Blueberries, Wild (Maine)1,000 pounds		
Cherries, Sweet tons	362,000	
Cherries, Tartmillion 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, all1,000 pounds		
Strawberries1,000 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-shell1,000 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)
Citrus ¹		
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		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	
						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		November	29,250	28,300	28,750	29,900	
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		November	23,550	23,000	22,250	23,150	
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		November	29,950	30,250	29,100	30,400	
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		November	26,200	26,000	26,200	27,000	
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		November	29,450	29,800	29,150	30,650	
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	
						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		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	
						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		November	29,200	27,550	28,750	29,300	
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		November	23,550	22,550	22,900	23,850	
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		November	29,600	29,600	29,150	30,300	
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		November	25,750	25,450	26,200	27,950	
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		November	28,600	28,750	28,600	30,450	
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	
						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		

(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.

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		November	1,869	2,123	2,253	1,948	
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		November	1,884	2,074	1,853	2,174	
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		November	1,337	1,442	1,465	1,515	
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		November	1,776	1,782	1,828	2,210	
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		November	1,563	1,709	1,457	1,822	
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		November	1,763	1,862	1,751	1,938	
Final	1,612	1,658	1,480	1,569		Final	1,764	1,870	1,752	1,938	

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	

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

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]

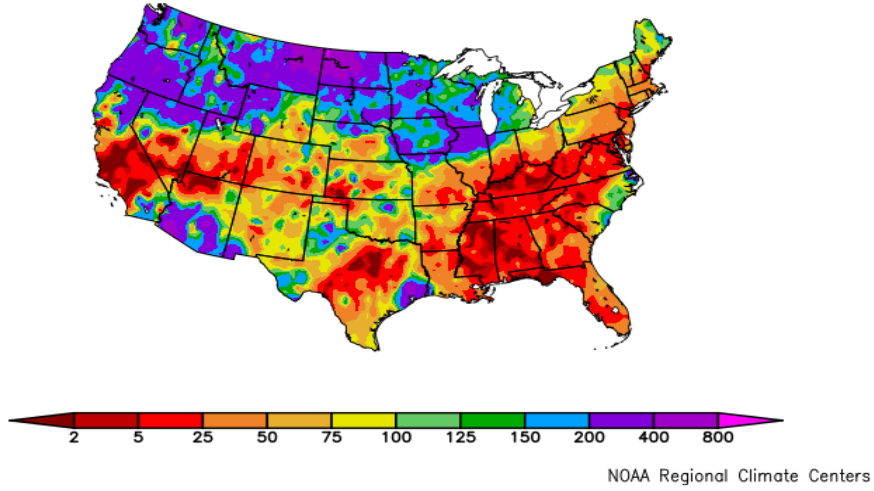
State and month	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)
Arkansas					
September	763	800	911	891	900
October	769	769	839	910	896
November	856	779	825	892	
December	856	779	825	892	
Final	856	779	825	892	
Georgia					
September	645	562	593	605	598
October	630	668	608	737	783
November	748	719	680	712	
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	
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	
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	
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	
December	492	547	615	583	
Final	495	546	614	582	
4-State ²					
September	601	532	633	627	551
October	518	554	635	661	562
November	571	604	649	640	
December	581	618	656	659	
Final	583	618	656	657	

(NA) Not available.

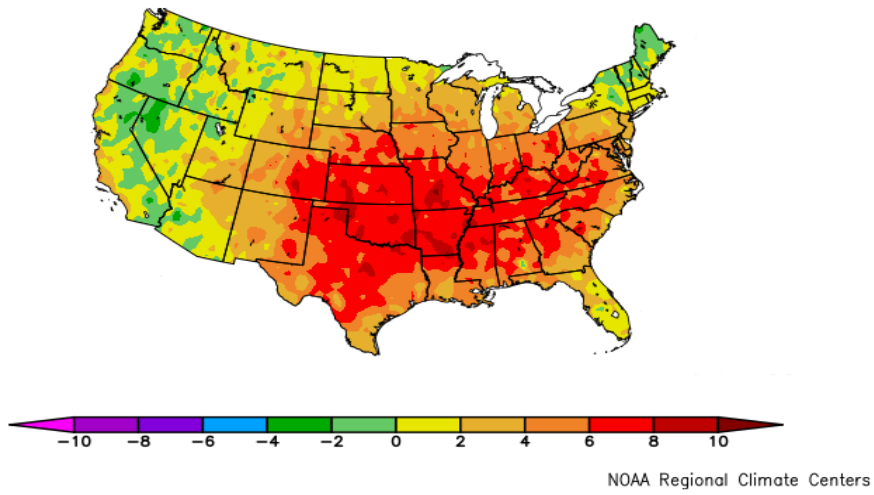
¹ Objective yield survey discontinued in 2019.

² 6-State total prior to 2019.

Percent of Normal Precipitation (%)
9/1/2019 – 9/30/2019



Departure from Normal Temperature (F)
9/1/2019 – 9/30/2019



September Weather Summary

Summer-like heat (monthly temperatures 5 to 10°F above normal) baked the Southeast, favoring summer crop maturation and harvesting. However, the hot weather—accompanied by little or no rainfall in most areas—stressed pastures and depleted topsoil moisture. The hot, dry weather extended as far north as the Ohio Valley and Mid-Atlantic States. By September 29, pastures were rated more than 40 percent very poor to poor in Alabama, Arizona, Georgia, Indiana, Kentucky, Tennessee, Texas, Virginia, West Virginia, and the Carolinas. In addition, topsoil moisture was at least 90 percent very short to short on that date in Alabama, Delaware, Georgia, and Maryland.

In stark contrast, excessively wet conditions across the northern Plains hampered late-season small grain harvest efforts and threatened the quality of crops remaining in the field. In late September, a particularly strong storm delivered heavy precipitation, including wind-driven snow, in northern sections of the Rockies and High Plains.

Heavy precipitation also extended into the Northwest, providing drought relief, and across the northern and western Corn Belt. The upper Midwestern wetness was detrimental to crops, maintaining a slow pace of development for late-planted corn and soybeans. Although warm, dry weather benefited crops in the southeastern Corn Belt, overall development remained significantly behind the normal pace. By September 29, just 43 percent of the Nation's corn crop was fully mature—the slowest crop development pace since 2009. Only 55 percent of the soybeans were dropping leaves on that date, comparable to the slowest development pace in the last one-quarter century—56 percent in 1996.

Farther south, shower activity increased during September across portions of the southern Plains, improving prospects for newly planted winter wheat and benefiting rangeland and pastures. In Texas, topsoil moisture rated very short to short improved from 84 to 64 percent between September 1 and 29. Showers also provided some limited drought relief in the Southwest, particularly across southern Arizona.

Elsewhere, two named tropical systems affected the mainland United States during September. Hurricane Dorian grazed the southern Atlantic Coast early in the month, officially making landfall on Cape Hatteras, North Carolina, on September 6, with maximum sustained winds near 90 mph. Although heavy rain and high winds affected some coastal locations, Dorian's inland agricultural impacts were relatively minor. Less than 2 weeks later, on September 17, Tropical Storm Imelda suddenly developed and moved inland near Freeport, Texas. Imelda delivered inundating rainfall (1 to 3 feet or more) across a relatively small geographic area, mainly in southeastern Texas, but caused only localized agricultural losses.

September Agricultural Summary

September was warmer than average for parts of Colorado, Illinois, Indiana, the Mississippi Valley, New Mexico, North Carolina, Ohio, the southern Plains, Virginia, and West Virginia with temperatures averaging 6°F or more above normal. However, temperatures were cooler in parts of Arizona, California, Idaho, Montana, Nevada, New England, and the Pacific Northwest. During the month of September the United States remained extremely dry except along the Carolina coastline, northern Illinois, western North Dakota, southeast Texas, and southern Wisconsin.

By September 1, eighty-one percent of the corn acreage was at or beyond the dough stage, 14 percentage points behind the previous year and 12 percentage points behind the 5-year average. Forty-one percent of the acreage was denting by September 1, thirty-two percentage points behind the previous year and 22 percentage points behind the 5-year average. Six percent of the 2019 corn acreage had reached maturity as of September 1, fourteen percentage points behind the previous year and 7 percentage points behind the 5-year average. By September 15, ninety-three percent of the corn acreage was at or beyond the dough stage, 6 percentage points behind the previous year and 5 percentage points behind the 5-year average. Sixty-eight percent of the acreage was denting by September 15, twenty-four percentage points behind last year and 19 percentage points behind the 5-year average. Eighteen percent of the 2019 corn acreage had reached maturity as of September 15, thirty-three percentage points behind the previous year and 21 percentage points behind the 5-year average. By September 15, four percent of the 2019 acreage was harvested, 4 percentage points behind the previous year and 3 percentage points behind the 5-year average pace. Eighty-eight percent of the acreage was denting by September 29, twelve percentage points behind the previous year and 10 percentage points behind the 5-year average. By September 29, forty-three percent of the 2019 corn acreage had reached maturity, forty-one percentage points behind the

previous year and 30 percentage points behind the 5-year average. Eleven percent of the 2019 acreage was harvested by September 29, fourteen percentage points behind the previous year and 8 percentage points behind the 5-year average pace. Overall, 57 percent of the Nation's corn acreage was rated in good to excellent condition on September 29, twelve percentage points below the same time last year.

Ninety-six percent of the Nation's soybean acreage had reached the blooming stage by September 1, four percentage points behind both the previous year and the 5-year average. By September 1, eighty-six percent of the Nation's soybean acreage was setting pods, 12 percentage points behind the previous year and 10 percentage points behind the 5-year average. By September 15, ninety-five percent of the Nation's soybean acreage was setting pods, 5 percentage points behind both the previous year and the 5-year average. Fifteen percent of the Nation's soybean acreage was at or beyond the leaf dropping stage by September 15, thirty-five percentage points behind the previous year and 23 percentage points behind the 5-year average. Fifty-five percent of the Nation's soybean acreage was at or beyond the leaf dropping stage by September 29, twenty-six percentage points behind the previous year and 21 percentage points behind 5-year average. By September 29, soybean harvest was 7 percent complete across the Nation, 15 percentage points behind the previous year and 13 percentage points behind the 5-year average. Overall, 55 percent of the Nation's soybean acreage was rated in good to excellent condition on September 29, thirteen percentage points below the same time last year.

Eight percent of the Nations intended 2020 winter wheat acreage was sown by September 15, four percentage points behind both the previous year and the 5-year average. By September 29, producers had sown 39 percent of the intended 2020 winter wheat acreage, two percentage points behind the previous year but 1 percentage point ahead of the 5-year average. Nationwide, 11 percent of the winter wheat acreage had emerged by September 29, one percentage point behind the previous year and 2 percentage points behind the 5-year average.

By September 1, ninety-seven percent of the Nation's cotton acreage had set bolls, 2 percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. Thirty-six percent of the Nation's cotton had open bolls by September 1, eight percentage points ahead of the previous year and 9 percentage points ahead of the 5-year average. By September 15, fifty-four percent of the Nation's cotton acreage had open bolls, 6 percentage points ahead of the previous year and 7 percentage points ahead of the 5-year average. Nine percent of the Nation's cotton acreage was harvested by September 15, four percentage points behind last year but 1 percentage point ahead of the 5-year average. By September 29, seventy-seven percent of the Nation's cotton acreage had open bolls, 11 percentage points ahead of the previous year and 10 percentage points ahead of the 5-year average. Sixteen percent of the Nation's cotton acreage was harvested by September 29, three percentage points behind the previous year but 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 September 29, two percentage points below the same time last year.

By September 1, ninety-two percent of the Nation's sorghum acreage had reached the heading stage, 4 percentage points behind the previous year and 3 percentage points behind the 5-year average. Fifty-two percent of Nation's sorghum acreage was at or beyond the coloring stage by September 1, fifteen percentage points behind the previous year and 12 percentage points behind the 5-year average. By September 1, twenty-four percent of the Nation's sorghum acreage was considered mature, 6 percentage points behind the previous year and 9 percentage points behind the 5-year average. Seventy-six percent of Texas' sorghum acreage had reached the mature stage by September 1, two percentage points ahead of both the previous year and the 5-year average. Twenty-one percent of the 2019 sorghum acreage was harvested by September 1, one percentage point behind both the previous year and the 5-year average. By September 15, seventy-nine percent of Nation's sorghum acreage was at or beyond the coloring stage, eight percentage points behind the previous year and 5 percentage points behind the 5-year average. Thirty-four percent of the Nation's sorghum acreage was considered mature by September 15, six percentage points behind the previous year and 10 percentage points behind the 5-year average. Eighty-seven percent of Texas' sorghum acreage had reached maturity by September 15, seven percentage points ahead of the previous year and 9 percentage points ahead of the 5-year average. By September 15, twenty-four percent of the 2019 sorghum acreage was harvested, two percentage points behind the previous year and 3 percentage points behind the 5-year average. Ninety-five percent of the Nation's sorghum acreage was at or beyond the coloring stage by September 29, two percentage points behind the previous year but equal to the 5-year average. By September 29, fifty-four percent of the Nation's sorghum acreage was considered mature, 6 percentage points behind the previous year and 9 percentage points behind the 5-year average. Ninety-one percent of Texas' sorghum acreage had reached maturity by September 29, seven percentage points ahead of the previous year and 9 percentage points ahead of

the 5-year average. Thirty percent of the 2019 sorghum acreage was harvested by September 29, three percentage points behind the previous year and 5 percentage points behind the 5-year average. Overall, 65 percent of the Nation's sorghum acreage was rated in good to excellent condition on September 29, eleven percentage points above the same time last year.

Nationally, 21 percent of the rice acreage was harvested by September 1, eight percentage points behind the previous year and 6 percentage points behind the 5-year average. Nationally, 46 percent of the rice acreage was harvested by September 15, two percentage points behind both the previous year and the 5-year average. Overall, 69 percent of the Nation's rice acreage was rated in good to excellent condition on September 15, five percentage points below the same time last year. Nationally, 68 percent of the rice acreage was harvested by September 29, one percentage point behind the previous year and 3 percentage points behind the 5-year average.

Eighty-four percent of the Nation's oat acreage had been harvested by September 1, nine percentage points behind the previous year and 7 percentage points behind the 5-year average. By September 15, ninety-two percent of the Nation's oat acreage had been harvested, 4 percentage points behind the previous year and 5 percentage points behind the 5-year average. Ninety-six percent of the Nation's oat acreage had been harvested by September 22, four percentage points behind the previous year and 3 percentage points behind the 5-year average.

By September 1, seventy-two percent of the Nation's barley acreage was harvested, 11 percentage points behind both the previous year and the 5-year average. Eighty-seven percent of the Nation's barley acreage was harvested by September 15, eight percentage points behind the previous year and 9 percentage points behind the 5-year average. By September 29, ninety-six percent of the Nation's barley acreage was harvested, 4 percentage points behind both the previous year and the 5-year average.

Fifty-five percent of the spring wheat acreage was harvested by September 1, thirty-one percentage points behind last year and 23 percentage points behind the 5-year average. Overall, 67 percent of the Nation's spring wheat acreage was rated in good to excellent condition on September 1, seven percentage points below the same time last year. By September 15, seventy-six percent of the spring wheat acreage was harvested, 20 percentage points behind the previous year and 17 percentage points behind the 5-year average. Ninety percent of the spring wheat acreage was harvested by September 29, ten percentage points behind last year and 9 percentage points behind the 5-year average.

By September 15, five percent of the Nation's peanut acreage was harvested, 2 percentage points ahead of the previous year but equal to the 5-year average. Twenty-six percent of the Nation's peanut acreage was harvested as of September 29, seven percentage points ahead of both the previous year and the 5-year average. Overall, 55 percent of the Nation's peanut acreage was rated in good to excellent condition on September 29, sixteen percentage points below the same time last year.

Sugarbeet producers harvested 8 percent of the Nation's acreage by September 15, three percentage points behind the previous year and 1 percentage point behind the 5-year average. By September 29, sugarbeet producers had harvested 16 percent of the Nation's acreage, 5 percentage points behind the previous year and 4 percentage points behind the 5-year average.

Crop Comments

Corn: Acreage updates were made in several States based on a thorough review of all available data. Total planted area, at 89.9 million acres, is down slightly from the previous estimate. Acreage harvested for grain is forecast at 81.8 million acres, down less than 1 percent from the previous forecast but up slightly from 2018.

The October 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 13.8 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 168.4 bushels per acre, is up 0.2 bushel from the previous forecast of 168.2 bushels per acre. Record high yields are forecast for Kentucky and Tennessee.

By September 1, eighty-one percent of the corn acreage was at or beyond the dough stage, 14 percentage points behind last year and 12 percentage points behind the 5-year average. By September 1, forty-one percent of the corn acreage was denting, 32 percentage points behind last year and 22 percentage points behind the 5-year average. All of the estimating States, except Texas, were behind their respective 5-year average for denting progress on September 1. Six percent of the 2019 corn acreage had matured by September 1, fourteen percentage points behind last year and 7 percentage points behind the 5-year average.

By September 15, ninety-three percent of the corn acreage was at or beyond the dough stage, 6 percentage points behind last year and 5 percentage points behind the 5-year average. By September 15, sixty-eight percent of the corn acreage was dented, 24 percentage points behind last year and 19 percentage points behind the 5-year average. Eighteen percent of the 2019 corn acreage had reached maturity as of September 15, thirty-three percentage points behind last year and 21 percentage points behind the 5-year average. Four percent of the 2019 acreage was harvested by September 15, four percentage points behind last year and 3 percentage points behind the 5-year average pace.

By September 29, eighty-eight percent of the corn acreage was dented, 12 percentage points behind last year and 10 percentage points behind the 5-year average. Forty-three percent of the 2019 corn acreage had reached maturity by September 29, forty-one percentage points behind last year and 30 percentage points behind the 5-year average. Eleven percent of the corn acreage was harvested by September 29, fourteen percentage points behind last year and 8 percentage points behind the 5-year average. Overall, 57 percent of the Nation's corn was rated in good to excellent condition as of September 29, twelve percentage points below the same time last year.

Sorghum: Production is forecast at 349 million bushels, down 1 percent from the previous forecast and down 4 percent from last year. Acreage updates were made in several States following a thorough review of all available data. Planted area, at 5.26 million acres, is down 1 percent from the previous estimate and down 8 percent from last year. Area harvested for grain is forecast at 4.72 million acres, down less than 1 percent from the previous forecast and down 7 percent from 2018. Based on October 1 conditions, yield is forecast at 73.9 bushels per acre, 0.4 bushel lower than the previous forecast but 1.8 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 September 29, ninety-five percent of the acreage was at the coloring stage, 2 percentage points behind last year but equal to the 5-year average. Fifty-four percent of the acreage was considered mature, 6 percentage points behind last year and 9 percentage points behind the 5-year average. Thirty percent of the acreage was harvested, 3 percentage points behind last year and 5 percentage points behind the 5-year average. Sixty-five percent of the acreage was rated in good to excellent condition on September 29, eleven percentage points above the same time last year.

Rice: Production is forecast at 189 million cwt, up 1 percent from the previous forecast, but down 16 percent from last year. Area for harvest 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 October 1, the average United States yield is forecast at 7,616 pounds per acre, up 53 pounds from the previous forecast, but 76 pounds lower than the 2018 average yield of 7,692 pounds per acre.

As of September 29, sixty-eight percent of the rice acreage was harvested, 1 percentage point behind the same time last year and 3 percentage points behind the 5-year average pace. As of September 29, harvest was virtually complete in Louisiana and Texas.

Soybeans: Acreage updates were made in several States based on a thorough review of all available data. Planted area, at 76.5 million acres, is down less than 1 percent from the previous estimate. Harvested area is forecast at 75.6 million acres, down less than 1 percent from the previous forecast and down 14 percent from 2018.

The October objective yield data for the combined 11 major soybean-producing States (Arkansas, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Ohio, and South Dakota) indicate a lower pod count compared to 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 400 pods per 18 square feet from 2018's final pod count is expected in Illinois, Indiana, Iowa, Ohio, and South Dakota.

As of September 29, fifty-five percent of the United States soybean acreage was at or beyond the leaf dropping stage, 26 percentage points behind last year and 21 percentage points behind the 5-year average. Soybean harvest was 7 percent complete as of September 29, fifteen percentage points behind last year and 13 percentage points behind the 5-year average. At that time, harvest progress was at or behind the respective State 5-year average pace in 15 of the 18 estimating States. As of September 29, fifty-four percent of the Nation's soybean acreage was rated in good to excellent condition, 14 percentage points below the same time last year.

If realized, the forecasted yield will be a record high in Pennsylvania.

Sunflower: The first production forecast for 2019 is 2.25 billion pounds, up 7 percent from the revised 2018 production of 2.11 billion pounds. Area planted, at 1.36 million acres, is down 2 percent from the June estimate but up 4 percent from last year. Sunflower growers expect to harvest 1.31 million acres, down 1 percent from the June forecast but up 7 percent from the 2018 acreage. Acreage updates were made in several States based on a thorough review of all available data. Both planted area and the harvested area forecast for the Nation will be the second lowest since 1976. The October yield forecast, at 1,724 pounds per acre, is 7 pounds lower than last year's yield but will be the third highest on record, if realized.

As of October 1, lower yields are expected in 5 of the 8 published States compared with last year, with increases only expected in Kansas, Nebraska, and North Dakota. Compared with last year, the average yield forecast in South Dakota is down 67 pounds per acre from 2018, but will represent the fifth highest yield on record, if realized. In contrast, the average yield forecast in North Dakota is up 72 pounds per acre to a record high 1,832 pounds per acre, if realized. The forecasted production in North Dakota, the leading sunflower-producing State this year, is 956 million pounds, an increase of 29 percent from 2018.

By the beginning of October, harvest was underway in Colorado and Kansas but had not yet begun in the Dakotas. As of October 6, harvest was one percent complete, 4 percentage points behind both last year's pace and the 5-year average.

Peanuts: Production is forecast at 5.48 billion pounds, down 3 percent from the previous forecast and down less than 1 percent from the revised 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 October 1, the average yield for the United States is forecast at 3,964 pounds per acre, down 122 pounds from the previous forecast and down 37 pounds from the 2018 average yield of 4,001 pounds per acre. Record high production is forecast in Arkansas.

As of September 29, twenty-six percent of the 2019 peanut acreage had been harvested, 7 percentage points ahead of both last year and the 5-year average. Fifty-five percent of the acreage was rated in good to excellent condition on September 29, compared with 71 percent at the same time last year.

Canola: The first production forecast for 2019 is 3.71 billion pounds, up 3 percent from the 2018 revised production of 3.62 billion pounds. If realized, this will be the largest production on record for the United States. Area planted, at 2.04 million acres, is up 1 percent from the June estimate and up 2 percent from last year's area. Canola farmers expect to harvest 1.99 million acres, up less than 1 percent from June and up 3 percent from 2018. Acreage updates were made in several States based on a thorough review of all available data. Both planted and the harvested area forecast for the Nation will be the second largest on record. The October yield forecast, at 1,860 pounds per acre, is 1 pound below last year's record high yield. If realized, the yield forecast in Minnesota will be the highest on record since the published data series began in that State.

The yield in North Dakota, the largest canola-producing State, is forecast at 1,900 pounds per acre, down 60 pounds from last year's yield. Planted area in North Dakota is estimated at a record high 1.70 million acres, up 7 percent from last year. Planting of the this year's canola crop in North Dakota was generally similar to last year's pace, but did not catch up to the 5-year average until the end of May. Blooming of the canola crop began in late June, behind both last year's pace and the 5-year average pace. As of June 30, only 15 percent of the canola acreage was blooming, 52 percentage points behind last year's pace and 44 percentage points behind the 5-year average pace. Maturation of the crop remained behind both last year's pace and the 5-year average pace through July and into August. Harvest began in mid-August and progressed to 67 percent complete by September 29, twenty-seven percentage points behind last year and 28 percentage points behind

the 5-year average. Sixty-nine percent of the crop was harvested by October 6.

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.

As of September 29, forty percent of the cotton acreage was rated in good to excellent condition, compared with 42 percent at the same time last year. As of September 29, seventy-seven percent of the cotton acreage had open bolls, 11 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Sixteen percent of the cotton acreage had been harvested by September 29, three percentage points behind last year but 2 percentage points ahead of the 5-year average.

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

Ginnings totaled 1,282,950 running bales prior to October 1, compared with 1,287,350 running bales ginned prior to the same date last year.

Alfalfa and alfalfa mixtures: Production of alfalfa and alfalfa mixture dry hay for 2019 is forecast at 54.2 million tons, down 2 percent from the previous forecast but up 3 percent from 2018. Based on October 1 conditions, yields are expected to average 3.22 tons per acre, down 0.07 ton from the previous forecast but up 0.05 ton from last year. Harvested area is forecast at 16.8 million acres, unchanged from the previous forecast, but up 1 percent from 2018. Record high yields are expected in Nevada and New Mexico.

Other hay: Production of other hay is forecast at 76.7 million tons, up 1 percent from the previous forecast and up 8 percent from 2018. Based on October 1 conditions, the United States yield is expected to average 2.13 tons per acre, up 0.02 ton from the previous forecast and up 0.17 ton from last year. If realized, this would represent a new record high for the United States, surpassing the previous record of 2.09 tons per acre in 2016. Harvested area is forecast at 35.9 million acres, unchanged from the previous forecast, but down 1 percent from 2018.

Much of the country has received significant precipitation this year. While moisture has hindered fieldwork at times, it has encouraged forage growth. Favorable conditions in Iowa, Missouri, and Tennessee have producers expecting record high yields in 2019.

Dry beans: Production of dry edible beans is forecast at 23.8 million cwt, down 3 percent from the August forecast and down 37 percent from 2018. Area planted is estimated at 1.31 million acres, down 2 percent from the August forecast and down 37 percent from 2018. Area harvested is forecast at 1.26 million acres, down 2 percent from the August forecast and 37 percent below 2018. Acreage updates were made in several States based on a thorough review of all available data. The average United States yield is forecast at 1,889 pounds per acre, a decrease of 30 pounds from the August forecast, but an increase of 29 pounds from last season. Beginning in 2019, estimates no longer include chickpeas.

Tobacco: The 2019 United States all tobacco production is forecast at 448 million pounds, down 7 percent from the previous forecast and down 16 percent from 2018. Area harvested, at 228,620 acres, is down 1 percent from the previous month and down 22 percent from last year. If realized, this will be the lowest harvested acreage on record. Yield for the 2019 crop year is forecast at 1,960 pounds per acre, down 130 pounds from last month but 130 pounds above last year.

Flue-cured production is expected to total 274 million pounds, down 10 percent from last month and 19 percent from 2018. North Carolina growers reported suffering wind damage from Hurricane Dorian, with reports of bruised leaves, leaning plants, and leaves blown to the ground. Burley production is expected to total 91.8 million pounds, down 4 percent from the last month and 9 percent from last year.

Sugarbeets: Production of sugarbeets for the 2019 crop year is forecast at 33.6 million tons, up slightly from last month and up 1 percent from last year. Area planted, at 1.13 million acres, is up slightly from the August forecast and up 2 percent from last year's planted area. Sugarbeet producers expect to harvest 1.12 million acres, down slightly from the previous forecast but up 2 percent from 2018. Acreage updates were made in several States based on a thorough review of

all available data. Yield is forecast at 30.1 tons per acre, an increase of 0.1 ton from the previous forecast but a decrease of 0.2 ton from last year.

Michigan's early harvest was going well until some rainfall in late September. Montana's harvest was also delayed due to excessive rain. Crop development was behind in Minnesota, Montana, and North Dakota. Minnesota and North Dakota's sugarbeet growing regions were suffering from either too much rain or not enough. Cercospora Leaf Spot continued to be of concern in both States, but was still under control.

Sugarcane: Production of sugarcane for sugar and seed in 2019 is forecast at 34.8 million tons, up slightly from last month, and one percent above last year. Producers intend to harvest 924,300 acres for sugar and seed during the 2019 crop year, up one percent from last month and up 3 percent from last year. Yields for sugar and seed are expected to average 37.6 tons per acre down 0.2 ton from last month, and down 0.8 ton from 2018.

Crop height was below average in Louisiana fields. Favorable weather for the past three weeks allowed growers to complete planting. Harvest in Louisiana is expected to start the first of October, and harvest in Texas should begin mid-October.

Grapefruit: The United States 2019-2020 grapefruit crop is forecast at 592,000 tons, up 5 percent from last season's final utilization. In Texas, expected production, at 5.70 million boxes (228,000 tons), is down 7 percent from last year.

Lemons: The forecast for the 2019-2020 United States lemon crop is 856,000 tons, down 11 percent from last season's final utilization. The California production forecast, at 20.0 million boxes (800,000 tons), is down 12 percent from the 2018-2019 season.

Tangerines and mandarins: The United States tangerine and mandarin crop is forecast at 970,000 tons, down 11 percent from last season's final utilization. The California forecast, at 23.0 million boxes (920,000 tons), is down 12 percent from the previous year. The Florida tangerine and mandarin forecast is up 6 percent from last year.

Pecans: Production is forecast at 281 million pounds (utilized, in-shell basis), up 21 percent for comparable States in 2018. Improved varieties are expected to produce 253 million pounds or 90 percent of the total. The native and seedling varieties are expected to produce 27.8 million pounds, making up the remaining 10 percent of production.

Beginning in 2019, pecan estimates were discontinued in Alabama, California, and Louisiana.

Statistical Methodology

Field crop survey procedures: Objective yield and farm operator surveys were conducted between September 24 and October 4 to gather information on expected yield as of October 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 visited starting in September and 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 10,900 producers were interviewed during the survey period and asked questions about probable yield. These growers will continue to be surveyed throughout the growing season to provide indications of average yields.

Orange survey procedures: In Florida, during August and September, the number of bearing trees and the number of fruit per tree is determined. In August and subsequent months, fruit size measurement and fruit droppage surveys are conducted, which combined with the previous components are used to develop the current forecast of production. California and Texas conduct grower surveys on a quarterly basis in October, January, April, and July. California also conducts objective measurement surveys in September for Navel oranges and in March for Valencia oranges.

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 October 1 forecasts.

Orange estimating procedures: State level objective measurement estimates for Florida oranges were reviewed for errors, reasonableness, and consistency with historical estimates. Reports from growers in California and Texas were also used for setting estimates. These three States submit their analyses of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the survey data and the State analyses to prepare the published October 1 forecast.

Revision policy: The October 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. 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 Annual* 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 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. End-of-season orange estimates will be published in August’s *Citrus Fruits Summary*. The orange production estimates are based on all data available at the end of the marketing season, including information from marketing orders, shipments, and processor records. Allowances are made for recorded local utilization and home use.

Reliability: To assist users in evaluating the reliability of the October 1 production forecast, the “Root Mean Square Error,” a statistical measure based on past performance, is computed. The deviation between the October 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 October 1 corn for grain production forecast is 1.7 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 1.7 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.9 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the October 1 forecast and the final estimate. Using corn again as an example, changes between the October 1 forecast and the final estimate during the last 20 years have averaged 166 million bushels, ranging from 3 million bushels to 374 million bushels. The October 1 forecast has been below the final estimate 9 times and above 10 times. This does not imply that the October 1 corn forecast this year is likely to understate or overstate final production.

Reliability of October 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	1.7	2.9	166	3	374	9	10
Dry edible beans cwt	3.6	6.2	1	(Z)	3	14	5
Oranges ¹ tons	8.5	14.7	530	2	1,676	4	15
Oranges ^{1 2} tons	6.9	11.9	433	2	1,192	4	12
Rice cwt	2.0	3.5	3	(Z)	12	10	9
Sorghum for grain bushels	5.2	9.0	15	3	31	10	9
Soybeans for beans bushels	2.7	4.6	65	1	261	12	7
Upland cotton ¹ bales	5.1	8.9	760	76	1,675	9	10

(Z) Less than half of the unit shown.

¹ Quantity is in thousands of units.

² Excluding freeze and hurricane seasons.

USDA, National Agricultural Statistics Service Information Contacts

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

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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

Access to NASS Reports

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

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

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USDA Data Users' Meeting



USDA NASS Data Users' Meeting **Tuesday, October 15, 2019**

American Farm Bureau Federation
600 Maryland Ave SW #1000w
Washington, DC 20024

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

For registration details and additional information about the Data Users' Meeting, see the meeting page on the NASS website (https://www.nass.usda.gov/Education_and_Outreach/Meeting/index.php). Contact Vernita Murray (NASS) at 202-690-8141 or vernita.murray@nass.usda.gov or Patricia Snipe (NASS) at 202-720-2248 or patricia.snipe@nass.usda.gov for information.