



Crop Production

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Released August 12, 2019, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Special Note

Survey respondents who reported acreage as not yet planted for corn, cotton, sorghum, and soybeans in fourteen States for the *Acreage* report, released June 28, 2019, were re-contacted in July. Excessive rainfall had led to planting delays and challenges at the time of the survey, leaving a portion of acres still to be planted for corn in Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, New York, North Dakota, Ohio, South Dakota, and Wisconsin; cotton in Arkansas; sorghum in Kansas; and soybeans in Arkansas, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, New York, North Dakota, Ohio, South Dakota, and Wisconsin.

When planting delays occur NASS has established procedures and processes in place to re-contact respondents. In addition to the updated survey information, NASS considered Farm Service Agency (FSA) certified acreage information as well as satellite-based indications of acreage to update planted and harvested acreage estimates for this report.

NASS estimates of planted area are always larger than the certified acres reported by FSA because of definitional differences and the fact that some producers do not participate in USDA programs and therefore do not report their acreage to FSA. It is also important to note that data are reported to FSA over an extended period of time, with varying due dates across the country, and is historically incomplete in early August. NASS has carefully analyzed these data for many years and has determined they normally don't become nearly complete until September for cotton and October for corn, soybeans, and sorghum. A detailed description of how NASS incorporates the FSA certified acreage information into the estimating process can be found at https://www.nass.usda.gov/Education_and_Outreach/Understanding_Statistics/FSA_Acreage.pdf.

Based on all of the data sources described above, planted and harvested area estimates for corn, soybeans, cotton, and sorghum were updated and included in this report. All States in the estimating program for these crops were subject to review and updating. The following table highlights the updated estimates. Detailed estimates by State can be found on pages 8 and 9.

Selected Crops Area Planted and Harvested – United States: 2019

[Includes updates to planted and harvested area previously published in the *Acreage* report released June 28, 2019]

Crop	Area Planted (1,000 Acres)	Area Harvested (1,000 Acres)
Corn ¹	90,005	82,017
Soybeans.....	76,700	75,866
Cotton, All.....	13,903.0	12,637.4
Cotton, Upland.....	13,630.0	12,378.0
Cotton, Pima.....	273.0	259.4
Sorghum ¹	5,290	4,785

¹ Harvested Area is for Grain

Corn Production Down 4 Percent from 2018
Soybean Production Down 19 Percent from 2018
Cotton Production Up 23 Percent from 2018
Winter Wheat Production Up 3 Percent from July Forecast

Corn production for grain is forecast at 13.9 billion bushels, down 4 percent from 2018. Based on conditions as of August 1, yields are expected to average 169.5 bushels per harvested acre, down 6.9 bushels from 2018. Area harvested for grain is forecast at 82.0 million acres, down 2 percent from the previous forecast, but up less than 1 percent from 2018. Area planted for all purposes totaled 90.0 million acres, down 2 percent from the previous estimate but up 1 percent from 2018.

Soybean production for beans is forecast at 3.68 billion bushels, down 19 percent from 2018. Based on conditions as of August 1, yields are expected to average 48.5 bushels per harvested acre, down 3.1 bushels from 2018. Area harvested for beans is forecast at 75.9 million acres, down 4 percent from the previous forecast, and down 14 percent from 2018. Area planted for all purposes totaled 76.7 million acres, down 4 percent from the previous estimate, and down 14 percent from 2018.

All cotton production is forecast at 22.5 million 480-pound bales, up 23 percent from 2018. Based on conditions as of August 1, yields are expected to average 855 pounds per harvested acre, down 9 pounds from 2018. Upland cotton production is forecast at 21.7 million 480-pound bales, up 24 percent from 2018. Pima cotton production is forecast at 790,000 bales, down 1 percent from 2018. All cotton area harvested is forecast at 12.6 million acres, up 24 percent from 2018. All cotton planted area totaled 13.9 million acres, up 1 percent from the previous estimate but down 1 percent from 2018.

All wheat production for grain is forecast at 1.98 billion bushels, up 3 percent from the previous forecast and up 5 percent from 2018. Based on August 1 conditions, yields are expected to average 51.6 bushels per harvested acre, up 1.6 bushel from the previous forecast, and up 4.0 bushels from 2018. Area harvested for grain is forecast at 38.4 million acres, unchanged from the previous forecast, but down 3 percent from 2018.

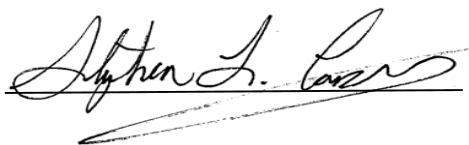
Winter wheat production for grain is forecast at 1.33 billion bushels, up 3 percent from the previous forecast and up 12 percent from 2018. Based on August 1 conditions, yields are expected to average 53.2 bushels per harvested acre, up 1.4 bushels from last month, and up 5.3 bushels from 2018. Area harvested for grain is forecast at 24.9 million acres, unchanged from the previous forecast, but up 1 percent from 2018.

Hard Red Winter production, at 840 million bushels, is up 4 percent from the previous forecast. Soft Red Winter, at 257 million bushels, is down 1 percent from the previous forecast. White Winter, at 229 million bushels, is up 1 percent from the previous forecast. Of the White Winter production, 24.6 million bushels are Hard White and 204 million bushels are Soft White.

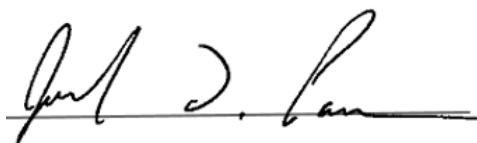
Durum wheat production for grain, is forecast at 57.3 million bushels, down 1 percent from the previous forecast and down 26 percent from 2018. Based on August 1 conditions, yields are expected to average 42.3 bushels per harvested acre, down 0.6 bushel from the previous forecast, but up 3.0 bushels from 2018. Area harvested for grain is forecast at 1.36 million acres, unchanged from the previous forecast, but down 31 percent from 2018.

Other spring wheat production for grain is forecast at 597 million bushels, down 1 percent from the previous forecast and down 4 percent from 2018. Based on August 1 conditions, yields are expected to average 49.2 bushels per harvested acre, up 2.0 bushels from the previous forecast, and up 0.9 bushel from 2018. Area harvested for grain is forecast at 12.1 million acres, unchanged from the previous forecast, but down 6 percent from 2018. Of the total production, 566 million bushels are Hard Red Spring wheat, down 4 percent from 2018.

This report was approved on August 12, 2019.

A handwritten signature in black ink, reading "Stephen L. Censky", written over a horizontal line.

Secretary of Agriculture
Designate
Stephen L. Censky

A handwritten signature in black ink, reading "Joseph L. Parsons", written over a horizontal line.

Agricultural Statistics Board
Chairperson
Joseph L. Parsons

Contents

Selected Crops Area Planted and Harvested – States and United States: 2019	8
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	10
Corn Production – United States Chart	11
Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	11
Oat Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	12
Barley Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	12
Winter Wheat Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	13
Durum Wheat Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	14
Other Spring Wheat Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	14
Wheat Production by Class – United States: 2018 and Forecasted August 1, 2019	14
Rice Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	15
Rice Production by Class – United States: 2018 and Forecasted August 1, 2019	15
Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	16
All Other Hay Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	17
Soybeans for Beans Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	18
Soybean Production – United States Chart	19
Peanut Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	19
Cotton Area Harvested, Yield, and Production by Type – States and United States: 2018 and Forecasted August 1, 2019	20
Cottonseed Production – United States: 2018 and Forecasted August 1, 2019	20
Cotton Production – United States Chart	21
Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	21

Dry Edible Bean Area Planted by Commercial Class – States and United States: 2018 and Forecasted August 1, 2019	22
Sugarbeet Area Planted and Harvested, Yield, and Production - States and United States: 2018 and Forecasted August 1, 2019	29
Sugarcane for Sugar and Seed Area Harvested, Yield, and Production - States and United States: 2018 and Forecasted August 1, 2019	29
Tobacco Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	29
Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2018 and Forecasted August 1, 2019	30
Hop Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019	31
Potato Area Planted for Certified Seed – Selected States and Total: 2018 and 2019	31
Commercial Apple Production – States and United States: 2018 and Forecasted August 1, 2019	32
Cranberry Production – States and United States: 2018 and Forecasted August 1, 2019	32
Grape Production – States and United States: 2018 and Forecasted August 1, 2019	32
Peach Production – States and United States: 2018 and Forecasted August 1, 2019	33
Pear Production – States and United States: 2018 and Forecasted August 1, 2019	33
Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019	34
Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019	36
Fruits and Nuts Production in Domestic Units – United States: 2018 and 2019	38
Fruits and Nuts Production in Metric Units – United States: 2018 and 2019	39
Winter Wheat Objective Yield Percent of Samples Processed in the Lab – United States: 2015-2019	40
Winter Wheat Heads per Square Foot – Selected States: 2015-2019	41
Percent of Normal Precipitation Map	42
Departure from Normal Temperature Map	42
July Weather Summary	43
July Agricultural Summary	43
Crop Comments	45
Statistical Methodology	52
Reliability of August 1 Crop Production Forecasts	53

Information Contacts.....54

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Selected Crops Area Planted and Harvested – States and United States: 2019

[Includes updates to planted and harvested area previously published in the *Acreage* report released June 2019]

State	Corn		Sorghum		Soybeans	
	Planted	Harvested ¹	Planted	Harvested ¹	Planted	Harvested
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	320	305			280	275
Arizona	75	36				
Arkansas	780	750			2,700	2,650
California	330	70				
Colorado	1,500	1,220	380	335		
Connecticut ²	25					
Delaware	190	180			160	158
Florida	80	45				
Georgia	380	335			110	105
Idaho	365	120				
Illinois	10,700	10,450			10,000	9,940
Indiana	5,100	4,900			5,400	5,370
Iowa	13,600	13,200			9,200	9,130
Kansas	6,400	6,000	2,600	2,450	4,600	4,550
Kentucky	1,600	1,500			1,700	1,690
Louisiana	570	550			900	870
Maine ²	32					
Maryland	500	430			510	505
Massachusetts ²	15					
Michigan	2,000	1,700			1,750	1,720
Minnesota	7,900	7,400			6,900	6,820
Mississippi	650	615			1,700	1,670
Missouri	3,250	3,060			5,100	5,030
Montana	120	65				
Nebraska	10,000	9,650	230	165	5,000	4,950
Nevada ²	14					
New Hampshire ²	14					
New Jersey	77	63			100	98
New Mexico	120	35				
New York	970	510			240	235
North Carolina	970	890			1,550	1,530
North Dakota	3,500	3,270			5,700	5,650
Ohio	2,800	2,590			4,200	4,170
Oklahoma	360	315	300	265	450	430
Oregon	80	52				
Pennsylvania	1,400	960			630	625
Rhode Island ²	2					
South Carolina	380	345			350	340
South Dakota	4,500	4,010	230	170	3,500	3,460
Tennessee	970	920			1,500	1,470
Texas	2,500	2,050	1,550	1,400	100	85
Utah	80	27				
Vermont ²	89					
Virginia	540	375			570	560
Washington	160	80				
West Virginia	52	39				
Wisconsin	3,850	2,840			1,800	1,780
Wyoming	95	65				
United States	90,005	82,017	5,290	4,785	76,700	75,866

See footnote(s) at end of table.

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Selected Crops Area Planted and Harvested – States and United States: 2019 (continued)

[Includes updates to planted and harvested area previously published in the *Acreage* report released June 2019]

State	Cotton					
	Upland		Pima		All	
	Planted	Harvested	Planted	Harvested	Planted	Harvested
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	540.0	535.0			540.0	535.0
Arizona	155.0	154.0	9.0	9.0	164.0	163.0
Arkansas	620.0	610.0			620.0	610.0
California	40.0	39.0	240.0	229.0	280.0	268.0
Colorado						
Connecticut						
Delaware						
Florida	120.0	118.0			120.0	118.0
Georgia	1,400.0	1,390.0			1,400.0	1,390.0
Idaho						
Illinois						
Indiana						
Iowa						
Kansas	185.0	170.0			185.0	170.0
Kentucky						
Louisiana	280.0	270.0			280.0	270.0
Maine						
Maryland						
Massachusetts						
Michigan						
Minnesota						
Mississippi	720.0	710.0			720.0	710.0
Missouri	380.0	368.0			380.0	368.0
Montana						
Nebraska						
Nevada						
New Hampshire						
New Jersey						
New Mexico	65.0	45.0	7.0	6.9	72.0	51.9
New York						
North Carolina	510.0	495.0			510.0	495.0
North Dakota						
Ohio						
Oklahoma	650.0	575.0			650.0	575.0
Oregon						
Pennsylvania						
Rhode Island						
South Carolina	300.0	295.0			300.0	295.0
South Dakota						
Tennessee	410.0	400.0			410.0	400.0
Texas	7,150.0	6,100.0	17.0	14.5	7,167.0	6,114.5
Utah						
Vermont						
Virginia	105.0	104.0			105.0	104.0
Washington						
West Virginia						
Wisconsin						
Wyoming						
United States	13,630.0	12,378.0	273.0	259.4	13,903.0	12,637.4

¹ Area harvested for grain.

² Area harvested for grain not estimated.

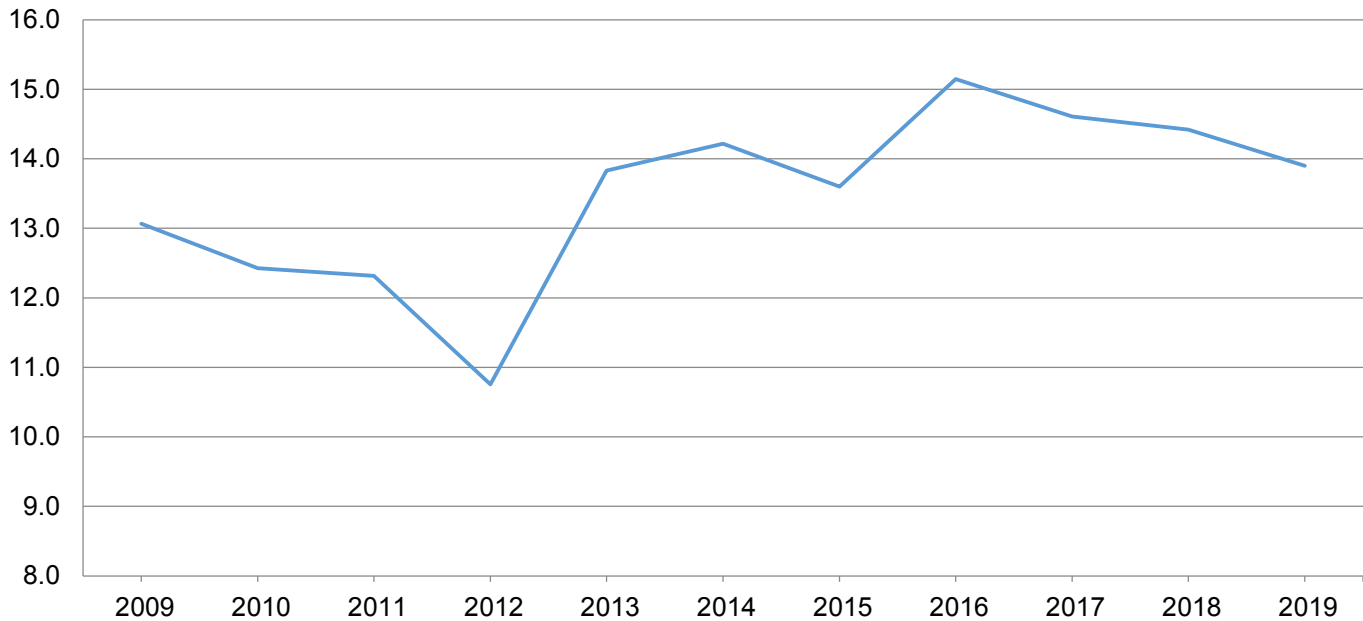
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019

State	Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	250	305	156.0	161.0	39,000	49,105
Arkansas	645	750	181.0	180.0	116,745	135,000
California	65	70	173.0	166.0	11,245	11,620
Colorado	1,200	1,220	130.0	150.0	156,000	183,000
Delaware	166	180	145.0	165.0	24,070	29,700
Georgia	285	335	176.0	170.0	50,160	56,950
Idaho	135	120	213.0	210.0	28,755	25,200
Illinois	10,850	10,450	210.0	181.0	2,278,500	1,891,450
Indiana	5,200	4,900	189.0	166.0	982,800	813,400
Iowa	12,800	13,200	196.0	191.0	2,508,800	2,521,200
Kansas	5,000	6,000	129.0	135.0	645,000	810,000
Kentucky	1,230	1,500	175.0	181.0	215,250	271,500
Louisiana	450	550	173.0	181.0	77,850	99,550
Maryland	390	430	146.0	170.0	56,940	73,100
Michigan	1,940	1,700	153.0	155.0	296,820	263,500
Minnesota	7,490	7,400	182.0	173.0	1,363,180	1,280,200
Mississippi	465	615	185.0	176.0	86,025	108,240
Missouri	3,330	3,060	140.0	160.0	466,200	489,600
Nebraska	9,310	9,650	192.0	186.0	1,787,520	1,794,900
New York	645	510	159.0	154.0	102,555	78,540
North Carolina	830	890	113.0	110.0	93,790	97,900
North Dakota	2,930	3,270	153.0	146.0	448,290	477,420
Ohio	3,300	2,590	187.0	160.0	617,100	414,400
Oklahoma	280	315	134.0	145.0	37,520	45,675
Pennsylvania	950	960	140.0	149.0	133,000	143,040
South Carolina	310	345	127.0	109.0	39,370	37,605
South Dakota	4,860	4,010	160.0	157.0	777,600	629,570
Tennessee	690	920	168.0	174.0	115,920	160,080
Texas	1,750	2,050	108.0	145.0	189,000	297,250
Virginia	325	375	146.0	147.0	47,450	55,125
Washington	85	80	220.0	210.0	18,700	16,800
Wisconsin	3,170	2,840	172.0	165.0	545,240	468,600
Other States ¹	414	427	153.9	167.3	63,706	71,431
United States	81,740	82,017	176.4	169.5	14,420,101	13,900,651

¹ Other States include Arizona, Florida, Montana, New Jersey, New Mexico, Oregon, Utah, West Virginia, and Wyoming. Individual State level estimates will be published in the *Crop Production 2019 Summary*.

Corn Production – United States

Billion bushels



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

State	Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas ¹	10	(NA)	77.0	(NA)	770	(NA)
Colorado	325	335	53.0	50.0	17,225	16,750
Georgia ¹	15	(NA)	53.0	(NA)	795	(NA)
Illinois ¹	16	(NA)	111.0	(NA)	1,776	(NA)
Kansas	2,650	2,450	88.0	79.0	233,200	193,550
Louisiana ¹	6	(NA)	84.0	(NA)	504	(NA)
Mississippi ¹	3	(NA)	90.0	(NA)	270	(NA)
Missouri ¹	21	(NA)	100.0	(NA)	2,100	(NA)
Nebraska	170	165	94.0	94.0	15,980	15,510
New Mexico ¹	47	(NA)	38.0	(NA)	1,786	(NA)
North Carolina ¹	8	(NA)	60.0	(NA)	480	(NA)
Oklahoma	240	265	50.0	53.0	12,000	14,045
South Dakota	200	170	80.0	77.0	16,000	13,090
Texas	1,350	1,400	46.0	72.0	62,100	100,800
United States	5,061	4,785	72.1	73.9	364,986	353,745

(NA) Not available.

¹ Estimates discontinued in 2019.

Oat Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				July 1	August 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
California	6	9	70.0	100.0	100.0	420	900
Idaho	10	10	84.0	85.0	71.0	840	710
Illinois	25	20	83.0	66.0	68.0	2,075	1,360
Iowa	33	80	63.0	63.0	65.0	2,079	5,200
Kansas	18	25	49.0	57.0	67.0	882	1,675
Maine	19	20	67.0	68.0	63.0	1,273	1,260
Michigan	50	35	63.0	67.0	62.0	3,150	2,170
Minnesota	105	110	59.0	75.0	76.0	6,195	8,360
Montana	23	30	43.0	40.0	47.0	989	1,410
Nebraska	22	19	69.0	82.0	62.0	1,518	1,178
New York	43	35	54.0	59.0	55.0	2,322	1,925
North Dakota	105	110	82.0	78.0	82.0	8,610	9,020
Ohio	30	35	65.0	63.0	60.0	1,950	2,100
Oregon	5	8	99.0	75.0	85.0	495	680
Pennsylvania	35	50	46.0	58.0	56.0	1,610	2,800
South Dakota	95	85	82.0	93.0	82.0	7,790	6,970
Texas	50	40	50.0	40.0	50.0	2,500	2,000
Wisconsin	90	130	61.0	62.0	57.0	5,490	7,410
Other States ¹	101	58	58.8	59.7	56.2	5,942	3,257
United States	865	909	64.9	67.8	66.4	56,130	60,385

¹ For 2018, Other States include: Alabama, Arkansas, Colorado, Georgia, Missouri, North Carolina, Oklahoma, South Carolina, Washington, and Wyoming. For 2019, Other States include: Arkansas, Georgia, Missouri, North Carolina, and Oklahoma. Individual State level estimates will be published in the *Small Grains 2019 Summary*.

Barley Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				July 1	August 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arizona	9	15	100.0	130.0	130.0	900	1,950
California	26	48	69.0	60.0	68.0	1,794	3,264
Colorado	52	77	145.0	130.0	138.0	7,540	10,626
Idaho	530	485	101.0	98.0	93.0	53,530	45,105
Minnesota	67	77	76.0	72.0	76.0	5,092	5,852
Montana	600	705	56.0	47.0	54.0	33,600	38,070
North Dakota	385	535	74.0	78.0	72.0	28,490	38,520
Virginia	9	9	70.0	73.0	70.0	630	630
Washington	67	93	73.0	68.0	70.0	4,891	6,510
Wyoming	50	76	100.0	100.0	97.0	5,000	7,372
Other States ¹	183	211	63.5	64.0	67.6	11,615	14,254
United States	1,978	2,331	77.4	73.3	73.9	153,082	172,153

¹ Other States include: Alaska, Delaware, Kansas, Maine, Maryland, Michigan, New York, North Carolina, Oregon, Pennsylvania, South Dakota, Utah, and Wisconsin. Individual State level estimates will be published in the *Small Grains 2019 Summary*.

Winter Wheat Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				July 1	August 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas	95	60	55.0	60.0	60.0	5,225	3,600
California	110	135	77.0	65.0	65.0	8,470	8,775
Colorado	1,950	2,150	36.0	44.0	46.0	70,200	98,900
Idaho	680	680	90.0	87.0	86.0	61,200	58,480
Illinois	560	590	66.0	63.0	65.0	36,960	38,350
Indiana	260	260	71.0	67.0	67.0	18,460	17,420
Kansas	7,300	6,600	38.0	50.0	53.0	277,400	349,800
Kentucky	300	320	66.0	77.0	76.0	19,800	24,320
Maryland	200	165	63.0	75.0	73.0	12,600	12,045
Michigan	470	490	76.0	75.0	77.0	35,720	37,730
Mississippi	30	20	49.0	52.0	52.0	1,470	1,040
Missouri	520	470	59.0	60.0	60.0	30,680	28,200
Montana	1,570	1,850	50.0	46.0	48.0	78,500	88,800
Nebraska	1,010	970	49.0	53.0	58.0	49,490	56,260
North Carolina	370	225	57.0	53.0	50.0	21,090	11,250
North Dakota	70	75	43.0	45.0	45.0	3,010	3,375
Ohio	450	420	75.0	64.0	61.0	33,750	25,620
Oklahoma	2,500	2,750	28.0	38.0	40.0	70,000	110,000
Oregon	695	730	67.0	58.0	59.0	46,565	43,070
South Dakota	660	730	48.0	54.0	52.0	31,680	37,960
Tennessee	285	225	65.0	66.0	66.0	18,525	14,850
Texas	1,750	2,200	32.0	35.0	35.0	56,000	77,000
Virginia	155	115	60.0	66.0	65.0	9,300	7,475
Washington	1,650	1,660	76.0	70.0	70.0	125,400	116,200
Wisconsin	200	170	71.0	66.0	63.0	14,200	10,710
Other States ¹	902	864	53.5	52.2	52.1	48,244	44,993
United States	24,742	24,924	47.9	51.8	53.2	1,183,939	1,326,223

¹ For 2018, Other States include Alabama, Arizona, Delaware, Florida, Georgia, Iowa, Louisiana, Minnesota, Nevada, New Jersey, New Mexico, New York, Pennsylvania, South Carolina, Utah, West Virginia, and Wyoming. For 2019, Other States include Alabama, Delaware, Georgia, New Jersey, New Mexico, New York, Pennsylvania, South Carolina, Utah, and Wyoming. Individual State level estimates will be published in the *Small Grains 2019 Summary*.

Durum Wheat Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				July 1	August 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arizona	70	44	106.0	103.0	103.0	7,420	4,532
California	33	42	95.0	107.0	107.0	3,135	4,494
Idaho	11	5	85.0	87.0	87.0	935	435
Montana	775	585	30.0	39.0	33.0	23,250	19,305
North Dakota	1,075	680	39.5	38.0	42.0	42,463	28,560
South Dakota ¹	3	(NA)	28.0	(NA)	(NA)	84	(NA)
United States	1,967	1,356	39.3	42.9	42.3	77,287	57,326

(NA) Not available.

¹ Estimates discontinued in 2019.

Other Spring Wheat Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019

State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				July 1	August 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Colorado ¹	4	(NA)	76.0	(NA)	(NA)	304	(NA)
Idaho	445	460	95.0	86.0	87.0	42,275	40,020
Minnesota	1,570	1,480	59.0	62.0	62.0	92,630	91,760
Montana	2,820	2,500	34.0	32.0	34.0	95,880	85,000
Nevada ¹	3	(NA)	100.0	(NA)	(NA)	300	(NA)
North Dakota	6,490	6,400	49.0	47.0	50.0	318,010	320,000
Oregon ¹	75	(NA)	67.0	(NA)	(NA)	5,025	(NA)
South Dakota	965	770	42.0	48.0	47.0	40,530	36,190
Utah ¹	9	(NA)	52.0	(NA)	(NA)	468	(NA)
Washington	515	515	54.0	45.0	46.0	27,810	23,690
United States	12,896	12,125	48.3	47.2	49.2	623,232	596,660

(NA) Not available.

¹ Estimates discontinued in 2019.

Wheat Production by Class – United States: 2018 and Forecasted August 1, 2019

[Wheat class estimates are based on the latest available data including both surveys and administrative data. The previous end-of-year season class percentages are used throughout the forecast season for States that do not have survey or administrative data available.]

Crop	2018	2019
	(1,000 bushels)	(1,000 bushels)
Winter		
Hard red	662,249	839,834
Soft red	285,558	257,489
Hard white	19,347	24,573
Soft white	216,785	204,327
Spring		
Hard red	587,007	565,753
Hard white	13,510	12,643
Soft white	22,715	18,264
Durum	77,287	57,326
Total	1,884,458	1,980,209

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

State	Area harvested		Yield per acre		Production ¹	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,427	1,276	7,520	7,450	107,325	95,062
California	504	489	8,620	8,700	43,425	42,543
Louisiana	436	415	7,130	6,700	31,094	27,805
Mississippi	139	149	7,350	7,350	10,217	10,952
Missouri	220	188	7,770	7,300	17,090	13,724
Texas	189	194	7,970	7,900	15,060	15,326
United States	2,915	2,711	7,692	7,577	224,211	205,412

¹ Includes sweet rice production.

Rice Production by Class – United States: 2018 and Forecasted August 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	149,091	53,480	2,841	205,412

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.

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

State	Area harvested		Yield		Production	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Arizona	260	285	8.30	8.60	2,158	2,451
California	620	560	6.90	7.20	4,278	4,032
Colorado	730	730	3.40	3.70	2,482	2,701
Idaho	1,050	1,020	4.20	4.00	4,410	4,080
Illinois	250	240	3.30	3.10	825	744
Indiana	240	270	3.00	3.50	720	945
Iowa	620	700	3.70	3.30	2,294	2,310
Kansas	610	560	3.50	3.50	2,135	1,960
Kentucky	145	115	3.10	3.40	450	391
Michigan	590	570	2.40	2.60	1,416	1,482
Minnesota	720	850	2.85	2.60	2,052	2,210
Missouri	270	280	2.40	2.80	648	784
Montana	1,900	2,000	2.05	2.30	3,895	4,600
Nebraska	850	900	4.30	3.80	3,655	3,420
Nevada	185	215	4.70	4.30	870	925
New Mexico	160	170	4.70	5.40	752	918
New York	300	290	2.40	2.70	720	783
North Dakota	1,470	1,350	1.70	1.80	2,499	2,430
Ohio	350	320	3.10	2.60	1,085	832
Oklahoma	230	200	2.70	2.90	621	580
Oregon	420	430	4.10	4.80	1,722	2,064
Pennsylvania	300	315	2.90	3.00	870	945
South Dakota	1,750	1,800	2.15	2.70	3,763	4,860
Texas	140	165	5.60	5.50	784	908
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	2.60	1,927	2,210
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	3.29	52,634	55,393

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 August 1, 2019

State	Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Alabama ¹	850	760	2.80	2.80	2,380	2,128
Arkansas	1,200	1,180	1.80	2.10	2,160	2,478
California	360	330	3.90	3.30	1,404	1,089
Colorado	690	730	1.65	1.70	1,139	1,241
Georgia ¹	600	580	2.90	2.90	1,740	1,682
Idaho	290	240	2.10	2.20	609	528
Illinois	220	230	2.20	2.30	484	529
Indiana	270	300	2.45	2.30	662	690
Iowa	320	380	2.20	2.40	704	912
Kansas	1,750	1,700	1.50	1.90	2,625	3,230
Kentucky	1,750	2,000	2.65	2.50	4,638	5,000
Louisiana ¹	380	390	2.20	2.00	836	780
Michigan	220	230	1.80	1.60	396	368
Minnesota	500	450	2.05	1.60	1,025	720
Mississippi ¹	590	600	2.10	2.50	1,239	1,500
Missouri	2,800	2,900	1.70	2.10	4,760	6,090
Montana	1,000	900	1.70	1.80	1,700	1,620
Nebraska	1,850	1,600	1.80	1.60	3,330	2,560
New York	920	920	2.20	2.00	2,024	1,840
North Carolina	810	810	2.70	2.50	2,187	2,025
North Dakota	1,200	1,300	1.60	1.70	1,920	2,210
Ohio	620	640	2.05	2.00	1,271	1,280
Oklahoma	3,000	3,100	1.50	1.80	4,500	5,580
Oregon	580	620	2.30	2.20	1,334	1,364
Pennsylvania	890	820	2.10	2.10	1,869	1,722
South Dakota	1,500	1,450	1.35	1.80	2,025	2,610
Tennessee	1,700	1,750	2.45	2.60	4,165	4,550
Texas	4,600	4,300	1.65	2.10	7,590	9,030
Virginia	1,100	1,100	2.20	2.10	2,420	2,310
Washington	410	360	2.90	2.80	1,189	1,008
West Virginia	520	480	1.70	2.00	884	960
Wisconsin	540	550	1.90	2.00	1,026	1,100
Wyoming	500	530	1.60	1.60	800	848
Other States ²	1,701	1,715	2.31	2.38	3,931	4,090
United States	36,231	35,945	1.96	2.11	70,966	75,672

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*.

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

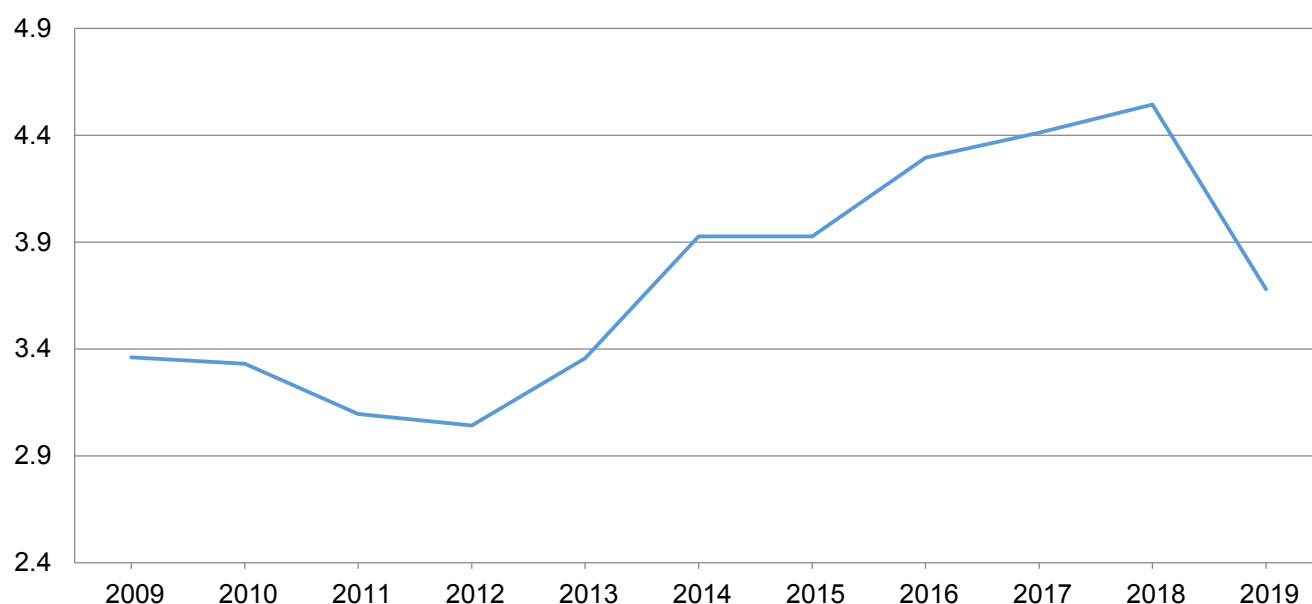
State	Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	340	275	41.0	44.0	13,940	12,100
Arkansas	3,240	2,650	51.0	51.0	165,240	135,150
Delaware	168	158	42.0	42.0	7,056	6,636
Florida ¹	12	(NA)	38.0	(NA)	456	(NA)
Georgia	135	105	40.0	38.0	5,400	3,990
Illinois	10,750	9,940	65.0	55.0	698,750	546,700
Indiana	5,920	5,370	58.5	50.0	346,320	268,500
Iowa	9,910	9,130	57.0	55.0	564,870	502,150
Kansas	4,700	4,550	43.5	42.0	204,450	191,100
Kentucky	1,990	1,690	52.0	53.0	103,480	89,570
Louisiana	1,200	870	52.0	51.0	62,400	44,370
Maryland	515	505	47.5	48.0	24,463	24,240
Michigan	2,280	1,720	48.0	45.0	109,440	77,400
Minnesota	7,710	6,820	50.5	46.0	389,355	313,720
Mississippi	2,190	1,670	54.5	53.0	119,355	88,510
Missouri	5,800	5,030	45.0	45.0	261,000	226,350
Nebraska	5,650	4,950	59.0	58.0	333,350	287,100
New Jersey	103	98	40.0	42.0	4,120	4,116
New York	320	235	52.5	45.0	16,800	10,575
North Carolina	1,570	1,530	34.0	38.0	53,380	58,140
North Dakota	6,860	5,650	35.5	35.0	243,530	197,750
Ohio	4,980	4,170	58.0	48.0	288,840	200,160
Oklahoma	600	430	30.0	26.0	18,000	11,180
Pennsylvania	630	625	45.0	48.0	28,350	30,000
South Carolina	375	340	29.5	31.0	11,063	10,540
South Dakota	5,580	3,460	46.0	45.0	256,680	155,700
Tennessee	1,670	1,470	46.0	50.0	76,820	73,500
Texas	135	85	32.0	38.0	4,320	3,230
Virginia	590	560	43.0	43.0	25,370	24,080
West Virginia ¹	27	(NA)	53.5	(NA)	1,445	(NA)
Wisconsin	2,160	1,780	49.0	47.0	105,840	83,660
United States	88,110	75,866	51.6	48.5	4,543,883	3,680,217

(NA) Not available.

¹ Estimates discontinued in 2019.

Soybean Production – United States

Billion bushels



Peanut Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 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)
Alabama	162.0	147.0	3,400	3,300	550,800	485,100
Arkansas	23.0	44.0	5,000	5,000	115,000	220,000
Florida	140.0	135.0	3,600	4,000	504,000	540,000
Georgia	650.0	590.0	4,450	4,400	2,892,500	2,596,000
Mississippi	24.0	24.0	4,000	4,000	96,000	96,000
New Mexico	5.5	5.0	3,000	3,200	16,500	16,000
North Carolina	98.0	98.0	3,900	3,800	382,200	372,400
Oklahoma	15.0	13.0	3,100	3,700	46,500	48,100
South Carolina	82.0	62.0	3,400	3,500	278,800	217,000
Texas	145.0	180.0	3,300	3,400	478,500	612,000
Virginia	24.0	25.0	4,200	4,000	100,800	100,000
United States	1,368.5	1,323.0	3,991	4,008	5,461,600	5,302,600

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

Type and State	Area harvested		Yield per acre		Production ¹	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 bales) ²	(1,000 bales) ²
Upland						
Alabama	497.0	535.0	858	942	888.0	1,050.0
Arizona	159.0	154.0	1,319	1,527	437.0	490.0
Arkansas	480.0	610.0	1,133	1,157	1,133.0	1,470.0
California	47.0	39.0	1,910	1,895	187.0	154.0
Florida	93.0	118.0	532	915	103.0	225.0
Georgia	1,305.0	1,390.0	719	932	1,955.0	2,700.0
Kansas	152.0	170.0	1,077	952	341.0	337.0
Louisiana	189.0	270.0	1,067	978	420.0	550.0
Mississippi	615.0	710.0	1,141	1,115	1,462.0	1,650.0
Missouri	322.0	368.0	1,373	1,239	921.0	950.0
 New Mexico	 56.0	 45.0	 977	 1,067	 114.0	 100.0
North Carolina	415.0	495.0	812	912	702.0	940.0
Oklahoma	550.0	575.0	595	835	682.0	1,000.0
South Carolina	275.0	295.0	733	895	420.0	550.0
Tennessee	355.0	400.0	1,041	1,128	770.0	940.0
Texas	4,350.0	6,100.0	756	661	6,850.0	8,400.0
Virginia	97.0	104.0	896	1,015	181.0	220.0
 United States	 9,957.0	 12,378.0	 847	 843	 17,566.0	 21,726.0
American Pima						
Arizona	14.5	9.0	943	1,013	28.5	19.0
California	210.0	229.0	1,662	1,530	727.0	730.0
New Mexico	6.8	6.9	812	835	11.5	12.0
Texas	17.5	14.5	933	960	34.0	29.0
 United States	 248.8	 259.4	 1,545	 1,462	 801.0	 790.0
All						
Alabama	497.0	535.0	858	942	888.0	1,050.0
Arizona	173.5	163.0	1,288	1,499	465.5	509.0
Arkansas	480.0	610.0	1,133	1,157	1,133.0	1,470.0
California	257.0	268.0	1,707	1,583	914.0	884.0
Florida	93.0	118.0	532	915	103.0	225.0
Georgia	1,305.0	1,390.0	719	932	1,955.0	2,700.0
Kansas	152.0	170.0	1,077	952	341.0	337.0
Louisiana	189.0	270.0	1,067	978	420.0	550.0
Mississippi	615.0	710.0	1,141	1,115	1,462.0	1,650.0
Missouri	322.0	368.0	1,373	1,239	921.0	950.0
 New Mexico	 62.8	 51.9	 959	 1,036	 125.5	 112.0
North Carolina	415.0	495.0	812	912	702.0	940.0
Oklahoma	550.0	575.0	595	835	682.0	1,000.0
South Carolina	275.0	295.0	733	895	420.0	550.0
Tennessee	355.0	400.0	1,041	1,128	770.0	940.0
Texas	4,367.5	6,114.5	757	662	6,884.0	8,429.0
Virginia	97.0	104.0	896	1,015	181.0	220.0
 United States	 10,205.8	 12,637.4	 864	 855	 18,367.0	 22,516.0

¹ Production ginned and to be ginned.

² 480-pound net weight bales.

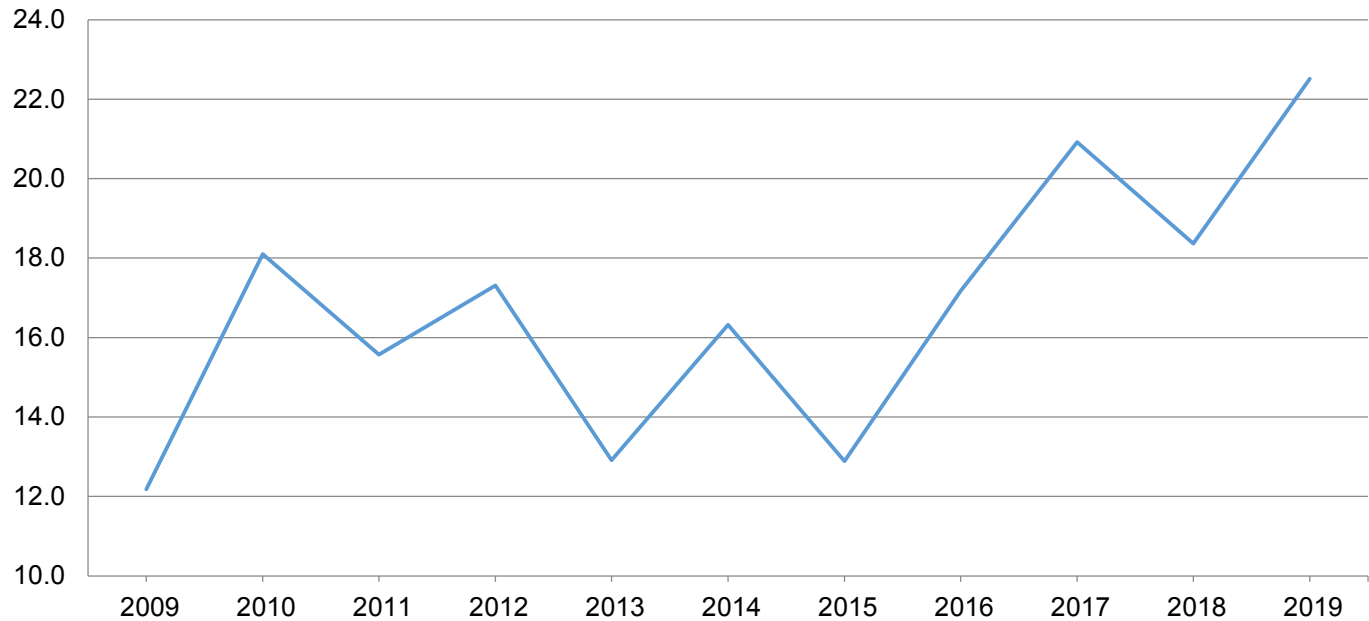
Cottonseed Production – United States: 2018 and Forecasted August 1, 2019

State	Production	
	2018	2019 ¹
	(1,000 tons)	(1,000 tons)
United States	5,631.0	6,969.0

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

Cotton Production - United States

Million bales



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

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

State	Area planted		Area harvested		Yield per acre ¹		Production ¹	
	2018	2019	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
California	48.0	26.5	47.7	25.5	2,500	2,400	1,191	612
Colorado	42.0	38.0	31.5	36.0	2,120	1,880	668	677
Idaho	185.0	58.0	183.0	57.5	1,710	2,440	3,127	1,403
Michigan	195.0	210.0	193.0	206.0	2,400	2,200	4,635	4,532
Minnesota	175.0	205.0	168.0	196.0	2,360	2,290	3,964	4,488
Montana ²	395.0	(NA)	386.0	(NA)	1,350	(NA)	5,214	(NA)
Nebraska	140.0	115.0	131.0	105.0	2,480	2,310	3,249	2,426
North Dakota	635.0	630.0	615.0	610.0	1,760	1,540	10,806	9,394
Texas ²	18.0	(NA)	16.0	(NA)	1,100	(NA)	176	(NA)
Washington	218.0	25.0	217.0	25.0	1,780	2,500	3,857	625
Wyoming	30.0	21.0	27.8	19.5	2,180	2,130	607	415
United States	2,081.0	1,328.5	2,016.0	1,280.5	1,860	1,919	37,494	24,572

(NA) Not available.

¹ Clean basis.

² Estimates discontinued in 2019.

Dry Edible Bean Area Planted by Commercial Class – States and United States: 2018 and Forecasted August 1, 2019

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

Class and State	2018 (1,000 acres)	2019 (1,000 acres)
Large lima		
California	10.2	7.3
Colorado	-	-
Idaho	(D)	(D)
Michigan	-	-
Minnesota	-	(D)
Montana ¹	-	(NA)
Nebraska	-	-
North Dakota	-	-
Texas ¹	-	(NA)
Washington	(D)	(D)
Wyoming	-	-
Other States ²	0.7	1.7
United States	10.9	9.0
Baby lima		
California	10.0	7.1
Colorado	-	-
Idaho	(D)	(D)
Michigan	-	-
Minnesota	-	(D)
Montana ¹	-	(NA)
Nebraska	-	-
North Dakota	-	-
Texas ¹	-	(NA)
Washington	(D)	(D)
Wyoming	-	-
Other States ²	1.1	1.7
United States	11.1	8.8
Navy		
California	-	-
Colorado	-	-
Idaho	1.2	1.3
Michigan	60.0	60.0
Minnesota	38.0	38.5
Montana ¹	-	(NA)
Nebraska	(D)	(D)
North Dakota	81.0	76.0
Texas ¹	-	(NA)
Washington	1.4	0.7
Wyoming	(D)	(D)
Other States ²	1.0	0.7
United States	182.6	177.2

See footnote(s) at end of table.

--continued

Dry Edible Bean Area Planted by Commercial Class – States and United States: 2018 and Forecasted August 1, 2019 (continued)

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

Class and State	2018	2019
	(1,000 acres)	(1,000 acres)
Great northern		
California	-	-
Colorado	(D)	(D)
Idaho	1.9	4.0
Michigan	(D)	(D)
Minnesota	(D)	(D)
Montana ¹	(D)	(NA)
Nebraska	41.0	44.5
North Dakota	(D)	(D)
Texas ¹	-	(NA)
Washington	(D)	(D)
Wyoming	(D)	(D)
Other States ²	8.0	10.7
United States	50.9	59.2
Small white		
California	-	-
Colorado	(D)	(D)
Idaho	(D)	(D)
Michigan	(D)	(D)
Minnesota	(D)	(D)
Montana ¹	-	(NA)
Nebraska	-	(D)
North Dakota	-	-
Texas ¹	-	(NA)
Washington	1.2	0.9
Wyoming	-	-
Other States ²	5.9	4.5
United States	7.1	5.4

See footnote(s) at end of table.

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Dry Edible Bean Area Planted by Commercial Class – States and United States: 2018 and Forecasted August 1, 2019 (continued)

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

Class and State	2018	2019
	(1,000 acres)	(1,000 acres)
Pinto		
California	-	-
Colorado	27.0	26.5
Idaho	22.0	15.2
Michigan	(D)	(D)
Minnesota	9.0	11.3
Montana ¹	3.0	(NA)
Nebraska	65.0	49.4
North Dakota	320.0	377.0
Texas ¹	(D)	(NA)
Washington	8.4	(D)
Wyoming	23.0	15.0
Other States ²	3.1	10.0
United States	480.5	504.4
Light red kidney		
California	(D)	(D)
Colorado	5.1	5.6
Idaho	1.0	2.3
Michigan	6.1	7.0
Minnesota	14.5	19.6
Montana ¹	-	(NA)
Nebraska	10.1	11.8
North Dakota	(D)	(D)
Texas ¹	-	(NA)
Washington	(D)	(D)
Wyoming	-	-
Other States ²	1.5	3.3
United States	38.3	49.6
Dark red kidney		
California	(D)	(D)
Colorado	(D)	(D)
Idaho	3.0	3.7
Michigan	2.7	3.0
Minnesota	54.7	64.2
Montana ¹	-	(NA)
Nebraska	(D)	(D)
North Dakota	1.5	4.6
Texas ¹	-	(NA)
Washington	1.9	1.0
Wyoming	(D)	(D)
Other States ²	2.0	0.7
United States	65.8	77.2

See footnote(s) at end of table.

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Dry Edible Bean Area Planted by Commercial Class – States and United States: 2018 and Forecasted August 1, 2019 (continued)

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

Class and State	2018	2019
	(1,000 acres)	(1,000 acres)
Pink		
California	(D)	(D)
Colorado	-	-
Idaho	7.5	7.4
Michigan	(D)	(D)
Minnesota	(D)	(D)
Montana ¹	-	(NA)
Nebraska	-	-
North Dakota	6.9	8.4
Texas ¹	-	(NA)
Washington	-	(D)
Wyoming	-	-
Other States ²	5.5	5.2
United States	19.9	21.0
Small red		
California	-	-
Colorado	0.9	(D)
Idaho	3.3	6.0
Michigan	13.3	11.0
Minnesota	(D)	(D)
Montana ¹	-	(NA)
Nebraska	(D)	(D)
North Dakota	9.0	11.7
Texas ¹	-	(NA)
Washington	3.8	2.7
Wyoming	(D)	(D)
Other States ²	2.7	2.1
United States	33.0	33.5
Cranberry		
California	0.6	0.3
Colorado	-	(D)
Idaho	1.2	1.6
Michigan	3.9	3.0
Minnesota	(D)	(D)
Montana ¹	(D)	(NA)
Nebraska	(D)	(D)
North Dakota	2.8	2.4
Texas ¹	-	(NA)
Washington	(D)	(D)
Wyoming	-	-
Other States ²	5.9	3.4
United States	14.4	10.7

See footnote(s) at end of table.

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Dry Edible Bean Area Planted by Commercial Class – States and United States: 2018 and Forecasted August 1, 2019 (continued)

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

Class and State	2018 (1,000 acres)	2019 (1,000 acres)
Black		
California	(D)	(D)
Colorado	(D)	(D)
Idaho	3.5	5.7
Michigan	100.0	115.0
Minnesota	41.0	53.6
Montana ¹	-	(NA)
Nebraska	3.5	2.6
North Dakota	93.0	134.0
Texas ¹	-	(NA)
Washington	3.9	5.0
Wyoming	(D)	(D)
Other States ²	3.1	3.5
United States	248.0	319.4
Blackeye		
California	6.7	6.2
Colorado	(D)	(D)
Idaho	(D)	(D)
Michigan	-	-
Minnesota	-	(D)
Montana ¹	-	(NA)
Nebraska	(D)	(D)
North Dakota	(D)	(D)
Texas ¹	16.0	(NA)
Washington	(D)	(D)
Wyoming	-	-
Other States ²	10.0	7.7
United States	32.7	13.9
Small chickpeas ^{3 4}		
California	-	-
Colorado ¹	-	(NA)
Idaho	62.0	30.0
Michigan ¹	-	(NA)
Minnesota ¹	-	(NA)
Montana	(D)	50.0
Nebraska ¹	(D)	(NA)
North Dakota	18.4	10.0
Texas ¹	-	(NA)
Washington	70.0	35.0
Wyoming ¹	-	(NA)
Other States ²	72.3	-
United States	222.7	125.0

See footnote(s) at end of table.

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Dry Edible Bean Area Planted by Commercial Class – States and United States: 2018 and Forecasted August 1, 2019 (continued)

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

Class and State	2018	2019
	(1,000 acres)	(1,000 acres)
Large chickpeas ^{4 5}		
California	15.1	14.5
Colorado ¹	(D)	(NA)
Idaho	72.0	60.0
Michigan ¹	-	(NA)
Minnesota ¹	(D)	(NA)
Montana	(D)	200.0
Nebraska ¹	(D)	(NA)
North Dakota	96.0	65.0
Texas ¹	-	(NA)
Washington	120.0	95.0
Wyoming ¹	(D)	(NA)
Other States ²	333.8	-
United States	636.9	434.5
All chickpeas ⁴		
California	15.1	14.5
Colorado ¹	(D)	(NA)
Idaho	134.0	90.0
Michigan ¹	-	(NA)
Minnesota ¹	(D)	(NA)
Montana	390.0	250.0
Nebraska ¹	12.5	(NA)
North Dakota	114.4	75.0
Texas ¹	-	(NA)
Washington	190.0	130.0
Wyoming ¹	(D)	(NA)
Other States ²	3.6	-
United States	859.6	559.5

See footnote(s) at end of table.

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Dry Edible Bean Area Planted by Commercial Class – States and United States: 2018 and Forecasted August 1, 2019 (continued)

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

Class and State	2018	2019
	(1,000 acres)	(1,000 acres)
Other		
California	3.8	4.3
Colorado	2.8	2.1
Idaho	(D)	(D)
Michigan	5.2	6.0
Minnesota	(D)	(D)
Montana ¹	(D)	(NA)
Nebraska	(D)	(D)
North Dakota	(D)	(D)
Texas ¹	(D)	(NA)
Washington	1.9	1.6
Wyoming	(D)	(D)
Other States ²	12.5	25.2
United States	26.2	39.2
All dry edible beans		
United States	2,081.0	1,328.5

- Represents zero.

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

(NA) Not available.

¹ Estimates discontinued in 2019.

² Includes data withheld above.

³ Chickpeas smaller than 20/64 inches.

⁴ Estimates from current year carried forward from an earlier forecast.

⁵ Chickpeas larger than 20/64 inches.

Sugarbeet Area Planted and Harvested, Yield, and Production - States and United States: 2018 and Forecasted August 1, 2019

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

State	Area planted		Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California ¹	24.6	24.6	24.6	24.2	44.4	43.1	1,092.0	1,043.0
Colorado	26.3	25.4	25.5	24.5	32.6	31.3	831.0	767.0
Idaho	163.0	166.0	163.0	166.0	40.5	40.9	6,602.0	6,789.0
Michigan	150.0	147.0	147.0	145.0	29.1	29.9	4,278.0	4,336.0
Minnesota	415.0	426.0	408.0	421.0	25.7	27.5	10,486.0	11,578.0
Montana	43.5	42.0	42.4	41.5	31.1	33.5	1,319.0	1,390.0
Nebraska	45.5	44.1	44.1	43.2	31.9	31.6	1,407.0	1,365.0
North Dakota	202.0	212.0	199.0	209.0	28.8	29.3	5,731.0	6,124.0
Oregon	9.3	9.7	9.3	9.7	39.4	38.4	366.0	372.0
Washington	1.8	2.0	1.8	2.0	48.2	46.7	87.0	93.0
Wyoming	32.1	31.8	30.7	30.6	30.8	29.2	946.0	894.0
United States	1,113.1	1,130.6	1,095.4	1,116.7	30.3	31.1	33,145.0	34,751.0

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 August 1, 2019

State	Area harvested		Yield per acre ¹		Production ¹	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	412.3	408.0	41.9	43.3	17,256	17,666
Louisiana	448.5	475.0	35.4	32.5	15,861	15,438
Texas	38.9	33.8	36.6	38.2	1,425	1,291
United States	899.7	916.8	38.4	37.5	34,542	34,395

¹ Net tons.

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

State	Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019
	(acres)	(acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Georgia	12,500	9,000	1,900	2,000	23,750	18,000
Kentucky	68,100	61,500	1,973	2,275	134,370	139,920
North Carolina	152,750	122,400	1,649	1,999	251,925	244,720
Pennsylvania	7,800	5,700	2,231	2,300	17,400	13,110
South Carolina	12,300	8,500	1,800	2,000	22,140	17,000
Tennessee	15,700	13,800	2,523	2,448	39,610	33,780
Virginia	22,280	18,020	1,977	2,088	44,046	37,632
United States	291,430	238,920	1,830	2,110	533,241	504,162

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

Class, type, and State	Area harvested		Yield per acre			Production	
	2018	2019	2018	2019		2018	2019
				July 1	August 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	1,900	2,000	23,750	18,000
North Carolina	152,000	122,000	1,650	2,000	2,000	250,800	244,000
South Carolina	12,300	8,500	1,800	2,000	2,000	22,140	17,000
Virginia	21,000	17,000	2,000	2,200	2,100	42,000	35,700
United States	197,800	156,500	1,712	2,015	2,011	338,690	314,700
Class 2, Fire-cured (21-23)							
Kentucky	11,000	9,300	3,200	(NA)	3,200	35,200	29,760
Tennessee	7,600	6,400	3,050	(NA)	2,700	23,180	17,280
Virginia	280	320	1,950	(NA)	2,100	546	672
United States	18,880	16,020	3,121	(NA)	2,978	58,926	47,712
Class 3A, Light air-cured							
Type 31, Burley							
Kentucky	50,000	45,000	1,600	(NA)	2,000	80,000	90,000
North Carolina	750	400	1,500	(NA)	1,800	1,125	720
Pennsylvania	4,000	2,500	2,200	(NA)	2,300	8,800	5,750
Tennessee	5,300	4,000	1,700	(NA)	2,000	9,010	8,000
Virginia	1,000	700	1,500	(NA)	1,800	1,500	1,260
United States	61,050	52,600	1,645	(NA)	2,010	100,435	105,730
Type 32, Southern Maryland Belt							
Pennsylvania	1,400	1,000	2,200	(NA)	2,300	3,080	2,300
United States	1,400	1,000	2,200	(NA)	2,300	3,080	2,300
Total light air-cured (31-32)	62,450	53,600	1,658	(NA)	2,015	103,515	108,030
Class 3B, Dark air-cured (35-37)							
Kentucky	7,100	7,200	2,700	(NA)	2,800	19,170	20,160
Tennessee	2,800	3,400	2,650	(NA)	2,500	7,420	8,500
United States	9,900	10,600	2,686	(NA)	2,704	26,590	28,660
Class 4, Cigar filler							
Type 41, Pennsylvania Seedleaf							
Pennsylvania	2,400	2,200	2,300	(NA)	2,300	5,520	5,060
United States	2,400	2,200	2,300	(NA)	2,300	5,520	5,060
All tobacco							
United States	291,430	238,920	1,830	(NA)	2,110	533,241	504,162

(NA) Not available.

Hop Area Harvested, Yield, and Production – States and United States: 2018 and Forecasted August 1, 2019

State	Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019
	(acres)	(acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Idaho	8,140	8,250	1,995	1,900	16,242.8	15,675.0
Oregon	7,725	7,050	1,675	1,720	12,936.2	12,126.0
Washington	39,170	40,500	1,984	1,940	77,727.7	78,570.0
United States	55,035	55,800	1,943	1,906	106,906.7	106,371.0

Potato Area Planted for Certified Seed – Selected States and Total: 2018 and 2019

[Data supplied by State seed certification officials]

State	2018 Crop			2019 Crop
	Entered for certification	Certified	Percent certified	Entered for certification
	(acres)	(acres)	(percent)	(acres)
Alaska	42	42	100	(NA)
Arizona	150	122	81	381
California	979	966	99	822
Colorado	10,282	9,306	91	8,413
Idaho ¹	29,694	29,294	99	(NA)
Maine	9,631	8,892	92	10,118
Michigan	2,550	2,499	98	2,566
Minnesota	5,478	4,482	82	6,134
Montana	10,356	10,356	100	10,403
Nebraska	5,973	5,973	100	5,965
Nevada	84	84	100	108
New York	613	611	100	599
North Dakota	14,008	13,681	98	13,236
Oregon	2,817	2,714	96	2,581
Pennsylvania	352	352	100	437
Washington	3,681	3,681	100	3,526
Wisconsin	9,303	9,269	100	9,240
Wyoming	464	464	100	562
Total	106,457	102,788	97	(X)

(NA) Not available.

(X) Not applicable.

¹ Includes certified acreage in northern Utah.

Commercial Apple Production – States and United States: 2018 and Forecasted August 1, 2019

State	Total production	
	2018	2019
	(million pounds)	(million pounds)
California	250.0	300.0
Michigan	1,050.0	1,050.0
New York	1,395.0	1,250.0
Oregon	170.0	145.0
Pennsylvania	488.0	500.0
Virginia	204.0	185.0
Washington	6,700.0	7,200.0
United States	10,257.0	10,630.0

Cranberry Production – States and United States: 2018 and Forecasted August 1, 2019

[A barrel weighs 100 lbs]

State	Total production	
	2018	2019
	(barrels)	(barrels)
Massachusetts	2,290,000	2,300,000
New Jersey	512,000	570,000
Oregon	579,000	570,000
Wisconsin	5,545,000	5,600,000
United States	8,926,000	9,040,000

Grape Production – States and United States: 2018 and Forecasted August 1, 2019

State	Total production	
	2018	2019
	(tons)	(tons)
California	7,130,000	7,050,000
Raisin ¹	1,545,000	1,550,000
Table ¹	1,300,000	1,300,000
Wine	4,285,000	4,200,000
Washington	466,000	450,000
Juice	205,000	190,000
Wine	261,000	260,000
United States	7,596,000	7,500,000

¹ Fresh basis.

Peach Production – States and United States: 2018 and Forecasted August 1, 2019

State	Total production	
	2018	2019
	(tons)	(tons)
California	479,000	510,000
Freestone	220,000	240,000
Clingstone	259,000	270,000
Colorado	15,000	17,000
Georgia	26,000	50,000
Michigan	12,000	6,000
New Jersey	23,000	25,000
Pennsylvania	17,400	16,500
South Carolina	65,800	93,000
Washington	13,300	16,000
United States	651,500	733,500

Pear Production – States and United States: 2018 and Forecasted August 1, 2019

State	Total production	
	2018	2019
	(tons)	(tons)
California	161,500	185,000
Oregon	246,000	260,000
Washington	398,000	360,000
United States	805,500	805,000

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	2,543	2,857	1,978	2,331
Corn for grain ¹	89,129	90,005	81,740	82,017
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	2,549	865	909
Proso millet	443	433	403	
Rice	2,946	2,756	2,915	2,711
Rye	2,011	1,875	273	298
Sorghum for grain ¹	5,690	5,290	5,061	4,785
Sorghum for silage	(NA)		264	
Wheat, all	47,800	45,609	39,605	38,405
Winter	32,535	31,778	24,742	24,924
Durum	2,065	1,401	1,967	1,356
Other spring	13,200	12,430	12,896	12,125
Oilseeds				
Canola	1,990.7	2,018.0	1,943.5	1,986.0
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	208	355	198	340
Mustard seed	102.5	110.0	97.5	104.5
Peanuts	1,425.5	1,364.0	1,368.5	1,323.0
Rapeseed	5.7	14.8	5.4	14.0
Safflower	167.5	153.0	156.4	145.5
Soybeans for beans	89,196	76,700	88,110	75,866
Sunflower	1,301.0	1,380.0	1,222.5	1,322.0
Cotton, tobacco, and sugar crops				
Cotton, all	14,100.3	13,903.0	10,205.8	12,637.4
Upland	13,850.0	13,630.0	9,957.0	12,378.0
American Pima	250.3	273.0	248.8	259.4
Sugarbeets	1,113.1	1,130.6	1,095.4	1,116.7
Sugarcane	(NA)	(NA)	899.7	916.8
Tobacco	(NA)	(NA)	291.4	238.9
Dry beans, peas, and lentils				
Austrian winter peas ²	16.4	(NA)	10.9	(NA)
Chickpeas ³	859.6	559.5	842.8	547.7
Dry edible beans ³	2,081.0	1,328.5	2,016.0	1,280.5
Dry edible peas ²	856.5	1,027.0	807.9	972.0
Lentils	780.0	535.0	718.0	508.0
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)	
Peppermint oil	(NA)		58.5	
Potatoes	1,033.2	967.5	1,023.3	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	2019	
			(1,000)	(1,000)	
Grains and hay					
Barley	bushels	77.4	73.9	153,082	172,153
Corn for grain	bushels	176.4	169.5	14,420,101	13,900,651
Corn for silage	tons	19.9		121,361	
Hay, all	tons	2.34	2.48	123,600	131,065
Alfalfa	tons	3.17	3.29	52,634	55,393
All other	tons	1.96	2.11	70,966	75,672
Oats	bushels	64.9	66.4	56,130	60,385
Proso millet	bushels	29.8		11,991	
Rice ⁵	cwt	7,692	7,577	224,211	205,412
Rye	bushels	30.9		8,432	
Sorghum for grain	bushels	72.1	73.9	364,986	353,745
Sorghum for silage	tons	12.6		3,326	
Wheat, all	bushels	47.6	51.6	1,884,458	1,980,209
Winter	bushels	47.9	53.2	1,183,939	1,326,223
Durum	bushels	39.3	42.3	77,287	57,326
Other spring	bushels	48.3	49.2	623,232	596,660
Oilseeds					
Canola	pounds	1,861		3,616,560	
Cottonseed	tons	(X)	(X)	5,631.0	6,969.0
Flaxseed	bushels	22.6		4,466	
Mustard seed	pounds	750		73,078	
Peanuts	pounds	3,991	4,008	5,461,600	5,302,600
Rapeseed	pounds	1,524		8,230	
Safflower	pounds	1,511		236,380	
Soybeans for beans	bushels	51.6	48.5	4,543,883	3,680,217
Sunflower	pounds	1,731		2,116,410	
Cotton, tobacco, and sugar crops					
Cotton, all ⁵	bales	864	855	18,367.0	22,516.0
Upland ⁵	bales	847	843	17,566.0	21,726.0
American Pima ⁵	bales	1,545	1,462	801.0	790.0
Sugarbeets	tons	30.3	31.1	33,145	34,751
Sugarcane	tons	38.4	37.5	34,542	34,395
Tobacco	pounds	1,830	2,110	533,241	504,162
Dry beans, peas, and lentils					
Austrian winter peas ^{2 5}	cwt	1,138	(NA)	124	(NA)
Chickpeas ^{3 5}	cwt	1,512		12,742	
Dry edible beans ^{3 5}	cwt	1,860	1,919	37,494	24,572
Dry edible peas ^{2 5}	cwt	1,972		15,929	
Lentils ⁵	cwt	1,171		8,408	
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)		917,235	
Peppermint oil	pounds	92		5,377	
Potatoes	cwt	444		454,314	
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	1,029,130	1,156,200	800,480	943,330
Corn for grain ¹	36,069,620	36,424,120	33,079,360	33,191,460
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	1,031,550	350,060	367,860
Proso millet	179,280	175,230	163,090	
Rice	1,192,220	1,115,330	1,179,670	1,097,110
Rye	813,830	758,790	110,480	120,600
Sorghum for grain ¹	2,302,690	2,140,810	2,048,140	1,936,440
Sorghum for silage	(NA)		106,840	
Wheat, all ²	19,344,180	18,457,510	16,027,750	15,542,120
Winter	13,166,590	12,860,240	10,012,840	10,086,490
Durum	835,680	566,970	796,030	548,760
Other spring	5,341,910	5,030,300	5,218,880	4,906,870
Oilseeds				
Canola	805,620	816,660	786,520	803,710
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	552,000	553,820	535,400
Rapeseed	2,310	5,990	2,190	5,670
Safflower	67,790	61,920	63,290	58,880
Soybeans for beans	36,096,730	31,039,720	35,657,240	30,702,210
Sunflower	526,500	558,470	494,730	535,000
Cotton, tobacco, and sugar crops				
Cotton, all ²	5,706,250	5,626,410	4,130,190	5,114,230
Upland	5,604,960	5,515,920	4,029,500	5,009,250
American Pima	101,290	110,480	100,690	104,980
Sugarbeets	450,460	457,540	443,300	451,920
Sugarcane	(NA)	(NA)	364,100	371,020
Tobacco	(NA)	(NA)	117,940	96,690
Dry beans, peas, and lentils				
Austrian winter peas ³	6,640	(NA)	4,410	(NA)
Chickpeas ⁴	347,870	226,420	341,070	221,650
Dry edible beans ⁴	842,160	537,630	815,860	518,210
Dry edible peas ³	346,620	415,620	326,950	393,360
Lentils	315,660	216,510	290,570	205,580
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)	
Peppermint oil	(NA)		23,670	
Potatoes	418,130	391,540	414,120	388,340
Spearmint oil	(NA)		8,420	
Taro (Hawaii) ⁵	(NA)	(NA)	130	(NA)

See footnote(s) at end of table.

--continued

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	4.16	3.97	3,332,970	3,748,190
Corn for grain	11.07	10.64	366,287,440	353,092,800
Corn for silage	44.50		110,096,850	
Hay, all ²	5.24	5.57	112,128,030	118,900,170
Alfalfa	7.10	7.38	47,748,760	50,251,680
All other	4.39	4.72	64,379,270	68,648,480
Oats	2.33	2.38	814,720	876,490
Proso millet	1.67		271,950	
Rice	8.62	8.49	10,170,040	9,317,330
Rye	1.94		214,180	
Sorghum for grain	4.53	4.64	9,271,070	8,985,540
Sorghum for silage	28.24		3,017,300	
Wheat, all ²	3.20	3.47	51,286,540	53,892,460
Winter	3.22	3.58	32,221,540	36,093,880
Durum	2.64	2.84	2,103,410	1,560,160
Other spring	3.25	3.31	16,961,600	16,238,420
Oilseeds				
Canola	2.09		1,640,440	
Cottonseed	(X)	(X)	5,108,360	6,322,170
Flaxseed	1.42		113,440	
Mustard seed	0.84		33,150	
Peanuts	4.47	4.49	2,477,340	2,405,220
Rapeseed	1.71		3,730	
Safflower	1.69		107,220	
Soybeans for beans	3.47	3.26	123,664,230	100,159,090
Sunflower	1.94		959,990	
Cotton, tobacco, and sugar crops				
Cotton, all ²	0.97	0.96	3,998,940	4,902,280
Upland	0.95	0.94	3,824,550	4,730,280
American Pima	1.73	1.64	174,400	172,000
Sugarbeets	67.83	69.76	30,068,640	31,525,580
Sugarcane	86.06	84.10	31,335,980	31,202,620
Tobacco	2.05	2.37	241,870	228,680
Dry beans, peas, and lentils				
Austrian winter peas ³	1.28	(NA)	5,620	(NA)
Chickpeas ⁴	1.69		577,970	
Dry edible beans ⁴	2.08	2.15	1,700,700	1,114,570
Dry edible peas ³	2.21		722,530	
Lentils	1.31		381,380	
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)		416,050	
Peppermint oil	0.10		2,440	
Potatoes	49.76		20,607,340	
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: 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, except citrus which is for the 2018-2019 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2018	2019
Citrus ¹		
Grapefruit1,000 tons	517	616
Lemons1,000 tons	888	896
Oranges1,000 tons	3,924	5,328
Tangerines and mandarins1,000 tons	804	887
Noncitrus		
Apples, commercialmillion pounds	10,257.0	10,630.0
Apricots tons	39,550	64,500
Avocados tons	185,770	
Blueberries, Cultivated1,000 pounds	562,300	
Blueberries, Wild (Maine)1,000 pounds	50,400	
Cherries, Sweet tons	344,400	362,000
Cherries, Tartmillion pounds	298.3	290.2
Coffee (Hawaii)1,000 pounds	27,300	
Cranberries barrel	8,926,000	9,040,000
Dates tons	41,050	
Grapes tons	7,596,000	7,500,000
Kiwifruit (California) tons	37,800	
Nectarines (California) tons	120,500	
Olives (California) tons	53,600	
Papayas (Hawaii)1,000 pounds	10,400	
Peaches tons	651,500	733,500
Pears tons	805,500	805,000
Plums (California) tons	100,000	
Prunes (California) tons	90,200	110,000
Raspberries, all1,000 pounds	218,800	
Strawberries1,000 cwt	28,577.9	
Nuts and miscellaneous		
Almonds, shelled (California)1,000 pounds	2,280,000	2,200,000
Hazelnuts, in-shell (Oregon) tons	51,000	
Macadamias (Hawaii)1,000 pounds	35,300	
Pecans, in-shell1,000 pounds	242,930	
Pistachios (California)1,000 pounds	987,000	
Walnuts, in-shell (California) tons	676,000	

¹ Production years are 2017-2018 and 2018-2019.

Fruits and Nuts 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, except citrus which is for the 2018-2019 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2018	2019
	(metric tons)	(metric tons)
Citrus ¹		
Grapefruit	469,010	558,830
Lemons	805,580	812,840
Oranges	3,559,790	4,833,480
Tangerines and mandarins	729,380	804,670
Noncitrus		
Apples, commercial	4,652,500	4,821,690
Apricots	35,880	58,510
Avocados	168,530	
Blueberries, Cultivated	255,050	
Blueberries, Wild (Maine)	22,860	
Cherries, Sweet	312,430	328,400
Cherries, Tart	135,310	131,630
Coffee (Hawaii)	12,380	
Cranberries	404,880	410,050
Dates	37,240	
Grapes	6,890,970	6,803,890
Kiwifruit (California)	34,290	
Nectarines (California)	109,320	
Olives (California)	48,630	
Papayas (Hawaii)	4,720	
Peaches	591,030	665,420
Pears	730,740	730,280
Plums (California)	90,720	
Prunes (California)	81,830	99,790
Raspberries, all	99,250	
Strawberries	1,296,270	
Nuts and miscellaneous		
Almonds, shelled (California)	1,034,190	997,900
Hazelnuts, in-shell (Oregon)	46,270	
Macadamias (Hawaii)	16,010	
Pecans, in-shell	110,190	
Pistachios (California)	447,700	
Walnuts, in-shell (California)	613,260	

¹ Production years are 2017-2018 and 2018-2019.

Winter Wheat for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 winter wheat-producing States during 2019. Randomly selected plots in winter wheat for grain fields are visited monthly from May through harvest to obtain specific counts and measurements. Data in these tables are based on counts from this survey.

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

Year	June	July	August
	Mature ¹	Mature ¹	Mature ¹
	(percent)	(percent)	(percent)
2015	16	64	93
2016	21	68	94
2017	28	69	93
2018	18	69	93
2019	8	50	89

¹ Includes winter wheat in the hard dough stage or beyond and are considered mature or almost mature.

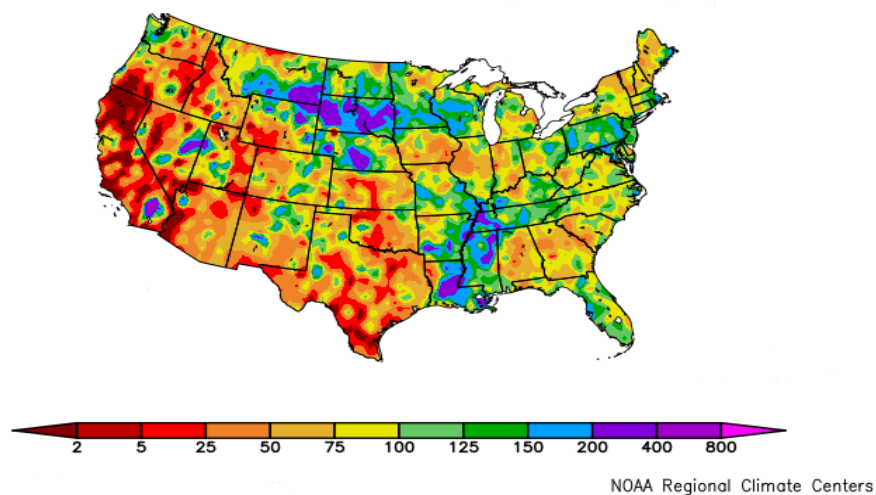
Winter Wheat Heads per Square Foot – Selected States: 2015-2019

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

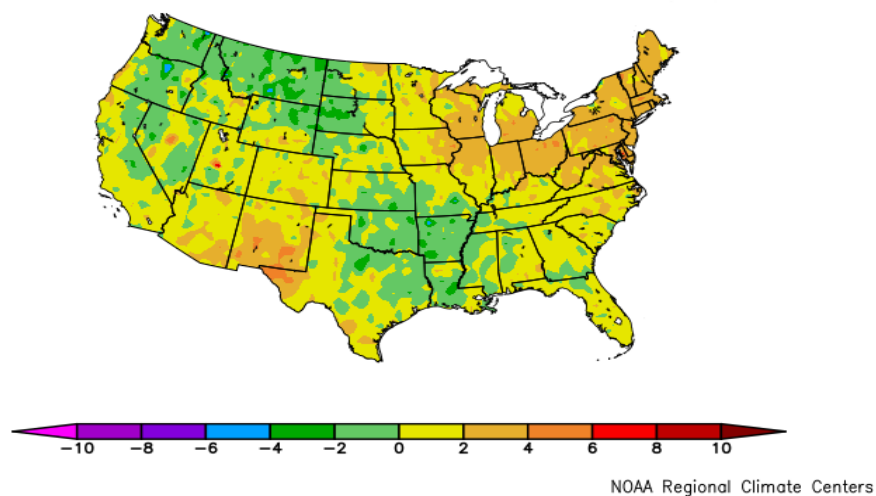
State	2015	2016	2017	2018	2019 ¹
	(number)	(number)	(number)	(number)	(number)
Colorado					
July	51.1	43.0	43.4	40.6	49.3
August	49.3	43.6	43.2	41.0	50.8
Final	49.3	43.6	43.2	41.0	
Illinois					
July	56.7	57.4	56.4	60.9	48.1
August	56.9	57.3	56.4	60.9	49.2
Final	56.9	57.3	56.4	60.9	
Kansas					
July	43.1	54.7	44.3	37.3	46.9
August	43.1	54.7	44.6	37.3	47.2
Final	43.1	54.7	44.6	37.3	
Missouri					
July	52.5	53.7	53.9	53.7	56.4
August	52.5	53.7	53.9	53.7	56.4
Final	52.5	53.7	53.9	53.7	
Montana					
July	48.9	54.6	44.4	44.1	45.2
August	47.7	55.2	46.2	44.8	43.5
Final	47.7	55.2	46.2	44.7	
Nebraska					
July	47.9	60.2	52.5	50.5	53.1
August	47.6	60.3	53.3	50.4	53.7
Final	47.6	60.3	53.3	50.4	
Ohio					
July	51.0	58.0	58.2	70.3	52.0
August	51.2	58.0	58.2	70.3	53.0
Final	51.2	58.0	58.2	70.3	
Oklahoma					
July	39.6	41.8	35.7	32.9	38.1
August	39.4	41.8	35.7	32.4	38.1
Final	39.4	41.8	35.7	32.4	
Texas					
July	34.3	34.4	26.6	30.9	34.3
August	34.3	34.4	26.8	30.9	34.3
Final	34.2	34.5	26.8	31.1	
Washington					
July	31.3	36.1	34.3	41.8	34.2
August	31.3	35.3	35.8	42.3	34.3
Final	31.3	35.5	35.7	42.3	
10 State					
July	42.8	48.3	41.2	40.1	44.0
August	42.4	48.4	41.7	40.1	44.1
Final	42.4	48.4	41.7	40.2	

¹ Final head counts will be published in the *Small Grains 2019 Summary*.

Percent of Normal Precipitation (%)
7/1/2019 – 7/31/2019



Departure from Normal Temperature (F)
7/1/2019 – 7/31/2019



July Weather Summary

Significant rain continued through July in several areas, including the northern Plains and upper Midwest, but precipitation tapered to light showers across the southern half of the Plains and portions of the central and eastern Corn Belt. The southern Plains' dry spell, accompanied by building heat late in the month, led to an increase in stress on rangeland, pastures, and summer crops. By July 28, topsoil moisture was rated 60 percent very short to short in Texas, along with 55 percent in Oklahoma and 40 percent in Kansas.

Short-term dryness also adversely affected summer crops in parts of the Corn Belt, especially in areas where corn and soybeans were planted very late and have poorly established root systems. By July 28, topsoil moisture was rated 51 percent very short to short in Michigan, along with 40 percent in Illinois and 39 percent in Indiana. Developmental delays compounded problems for those summer crops; by July 28, for example, only 20 to 40 percent of the corn was silking in Indiana, Michigan, Ohio, and South Dakota, with each of those values more than 40 percentage points behind the respective State 5-year averages.

Farther south, Hurricane Barry reached the Louisiana coast on July 13. Following landfall, the minimal hurricane rapidly weakened and drifted northward, delivering locally heavy mid-month showers in the lower Mississippi Valley and environs. Highly localized flooding struck several areas, including parts of Arkansas and Louisiana.

Elsewhere, pockets of drought lingered in the Southeast, mainly from Alabama to the Carolinas, while seasonably dry weather prevailed in much of the Far West. Across the interior Northwest, mostly dry weather favored winter wheat harvesting and maturation of spring-sown small grains. By July 28, the Northwestern winter wheat harvest ranged from 6 percent complete in Idaho to 33 percent complete in Oregon.

July Agricultural Summary

July was cooler than average for the month in parts of the Great Plains, Mississippi Valley, northern Rocky Mountains, and Pacific Northwest with temperatures averaging 2°F or more below normal. However, temperatures were warmer in the Great Lakes, New England, New Mexico, and Utah averaging 4°F or more above normal in some areas. During the month of July, parts of the Delta received more than 8 inches of rain. However, parts of California, the Pacific Northwest, Southwest, Southern Plains, and Southeast remained dry.

By July 7, ninety-eight percent of the Nation's corn acreage had emerged, 2 percentage points behind both the previous year and the 5-year average. Eight percent of the Nation's corn acreage had reached the silking stage by July 7, twenty-six percentage points behind the previous year and 14 percentage points behind the 5-year average. Corn silking advanced to 35 percent complete by July 21, forty-three percentage points behind the previous year and 31 percentage points behind the 5-year average. By July 21, five percent of the corn acreage was at or beyond the dough stage, 11 percentage points behind the previous year and 5 percentage points behind the 5-year average. Seventy-eight percent of the Nation's corn acreage was at or beyond the silking stage by August 4, seventeen percentage points behind the previous year and 15 percentage points behind the 5-year average. By August 4, twenty-three percent of the corn acreage was at or beyond the dough stage, 31 percentage points behind the previous year and 19 percentage points behind the 5-year average. By August 4, fifty-seven percent of the Nation's corn acreage was rated in good to excellent condition, 14 percentage points below the same time last year.

Ninety-six percent of the Nation's soybean acreage was planted by July 7, four percentage points behind the previous year and 3 percentage points behind the 5-year average. Ninety percent of the Nation's soybean acreage had emerged by July 7, ten percentage points behind the previous year and 8 percentage points behind the 5-year average. By July 7, ten percent of the Nation's soybean acreage had reached the blooming stage, 34 percentage points behind the previous year and 22 percentage points behind the 5-year average. By July 21, forty percent of the Nation's soybean acreage had reached the blooming stage, 36 percentage points behind the previous year and 26 percentage points behind the 5-year average. Blooming advanced at a rapid pace, with gains of at least 12 percentage points during the week in 14 of the 18 major estimating States. Nationally, 7 percent of the Nation's soybean acreage was setting pods by July 21, thirty-four percentage points behind the previous year and 21 percentage points behind the 5-year average. Advances were farthest along in the Delta. By August 4, seventy-two percent of the Nation's soybean acreage had reached the blooming

stage, 19 percentage points behind the previous year and 15 percentage points behind the 5-year average. Nationally, 37 percent of the Nation's soybean acreage was setting pods by August 4, thirty-six percentage points behind the previous year and 26 percentage points behind the 5-year average. Advances of 19 percentage points or more occurred in Iowa, Minnesota, South Dakota, and Wisconsin. By August 4, fifty-four percent of the Nation's soybean acreage was rated in good to excellent condition, 13 percentage points below the same time last year.

Forty-seven percent of the 2019 winter wheat acreage was harvested by July 7, fourteen percentage points behind both the previous year and the 5-year average. In Kansas, 61 percent of the State's winter wheat acreage was harvested at that time, 28 percentage points behind the previous year and 23 percentage points behind the 5-year average. On July 7, sixty-four percent of the 2019 winter wheat acreage was reported in good to excellent condition, 27 percentage points above the same time last year. Sixty-nine percent of the 2019 winter wheat acreage was harvested by July 21, ten percentage points behind both the previous year and the 5-year average. By August 4, eighty-two percent of the 2019 winter wheat acreage was harvested, 7 percentage points behind the previous year and 10 percentage points behind the 5-year average. Winter wheat harvest progress continued with advances of 16 percentage points or more reported in Michigan, Montana, Nebraska, Oregon, South Dakota, and Washington during the week ending August 4.

Forty-seven percent of the Nation's cotton acreage had reached the squaring stage by July 7, ten percentage points behind the previous year and 7 percentage points behind the 5-year average. In Texas, 37 percent of the 2019 cotton acreage had reached the squaring stage by that time, 11 percentage points behind last year and 6 percentage points behind the 5-year average. By July 7, thirteen percent of the Nation's cotton acreage had begun setting bolls, 7 percentage points behind the previous year and 3 percentage points behind the 5-year average. Seventy-eight percent of the Nation's cotton acreage had reached the squaring stage by July 21, one percentage point ahead of the previous year but 2 percentage points behind the 5-year average. In Texas, 74 percent of the 2019 cotton acreage had reached the squaring stage by July 21, four percentage points ahead of last year but identical to the 5-year average. By July 21, thirty-three percent of the Nation's cotton acreage had begun setting bolls, 7 percentage points behind the previous year and 4 percentage points behind the 5-year average. Ninety-five percent of the Nation's cotton acreage had reached the squaring stage by August 4, four percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. By August 4, fifty-nine percent of the Nation's cotton acreage had begun setting bolls, 1 percentage point ahead of the previous year but 2 percentage points behind the 5-year average. Advances of 16 percentage points or more were estimated in 6 of the 15 estimating States. On August 4, fifty-four percent of the 2019 cotton acreage was rated in good to excellent condition, 14 percentage points above the same time last year.

By July 7, ninety-seven percent of the Nation's sorghum acreage was planted, 3 percentage points behind the previous year and 2 percentage points behind the 5-year average. Twenty-two percent of the Nation's sorghum acreage had reached the headed stage by July 7, three percentage points behind the previous year and 4 percentage points behind the 5-year average. Sixty-two percent of Texas' sorghum acreage had reached the headed stage by July 7, identical to the same time last year but 1 percentage point ahead of the 5-year average. Thirteen percent of Nation's sorghum acreage was at or beyond the coloring stage by July 7, three percentage points behind both the previous year and the 5-year average. By July 21, twenty-seven percent of the Nation's sorghum acreage had reached the headed stage, 13 percentage points behind both the previous year and the 5-year average. Seventy-three percent of Texas' sorghum acreage had reached the headed stage by July 21, one percentage point behind the previous year and 5 percentage points behind the 5-year average. Sixteen percent of Nation's sorghum acreage was at or beyond the coloring stage by July 21, six percentage points behind both the previous year and the 5-year average. By August 4, forty-five percent of the Nation's sorghum acreage had reached the headed stage, 22 percentage points behind the previous year and 17 percentage points behind the 5-year average. Eighty-two percent of Texas' sorghum acreage had reached the headed stage by August 4, three percentage points behind the previous year and 4 percentage points behind the 5-year average. Twenty-three percent of the Nation's sorghum acreage was at or beyond the coloring stage by August 4, seven percentage points behind both the previous year and the 5-year average. On August 4, seventy-one percent of Texas' sorghum acreage had reached the coloring stage, 4 percentage points behind the previous year but 1 percentage point ahead of the 5-year average. On August 4, sixty-eight percent of the Nation's sorghum acreage was rated in good to excellent condition, 19 percentage points above the same time last year.

By July 7, sixteen percent of the Nation's rice acreage had reached the headed stage, 4 percentage points behind the previous year and 6 percentage points behind the 5-year average. Three percent of Arkansas rice acreage had reached the

headed stage by July 7, six percentage points behind the previous year and 8 percentage points behind the 5-year average. By July 21, thirty-one percent of the Nation's rice acreage had reached the headed stage, 13 percentage points behind the previous year and 12 percentage points behind the 5-year average. Heading in Louisiana and Texas was the most advanced with 78 percent of the acreage headed in both States. By August 4, sixty percent of the Nation's rice acreage had reached the headed stage, 19 percentage points behind the previous year and 13 percentage points behind the 5-year average. Heading development was nearing completion in Texas. On August 4, sixty-eight percent of the Nation's rice acreage was rated in good to excellent condition, 1 percentage point below the same time last year.

Seventy-four percent of the Nation's oat acreage had headed by July 7, sixteen percentage points behind both the previous year and the 5-year average. Heading was behind the 5-year average pace by 17 percentage points or more in 4 of the 9 estimating States. Heading was complete in Texas. By July 21, ninety-four percent of the Nation's oat acreage had headed, 5 percentage points behind the previous year and 4 percentage points behind the 5-year average. Twelve percent of the Nation's oat acreage had been harvested by July 21, eleven percentage points behind the previous year and 10 percentage points behind the 5-year average. By July 28, ninety-seven percent of the Nation's oat acreage had headed, 3 percentage points behind both the previous year and the 5-year average. By August 4, thirty-two percent of the Nation's oat acreage had been harvested, 17 percentage points behind both the previous year and the 5-year average. Harvest progress continued with advances of 21 percentage points or more reported in Iowa, Nebraska, and Ohio. Harvest was complete in Texas at that time. On August 4, sixty-five percent of the Nation's oat acreage was rated in good to excellent condition, 6 percentage points below the same time last year.

Fifty-five percent of the Nation's barley acreage had reached the headed stage by July 7, nineteen percentage points behind the previous year and 20 percentage points behind the 5-year average. Ninety percent of the Nation's barley acreage had reached the headed stage by July 21, three percentage points behind the previous year and 5 percentage points behind the 5-year average. Three percent of the Nation's barley acreage was harvested by August 4, eleven percentage points behind the previous year and 15 percentage points behind the 5-year average. Harvest progress was behind the 5-year average in all 5 estimating States. On August 4, seventy-six percent of the Nation's barley acreage was rated in good to excellent condition, 3 percentage points below the same time last year.

By July 7, fifty-six percent of the Nation's spring wheat acres had reached the headed stage, 22 percentage points behind the previous year and 17 percentage points behind the 5-year average. By July 21, ninety-two percent of the Nation's spring wheat acres had reached the headed stage, 4 percentage points behind the previous year and 2 percentage points behind the 5-year average. By July 28, ninety-seven percent of the Nation's spring wheat acres had reached the headed stage, 2 percentage points behind the previous year and 1 percentage point behind the 5-year average. By August 4, two percent of the spring wheat was harvested, 10 percentage points behind the previous year and 12 percentage points behind the 5-year average. Harvest progress was behind the 5-year average in all 6 estimating States. On August 4, seventy-three percent of the Nation's spring wheat acreage was rated in good to excellent condition 1 percentage point below the same time last year.

By July 7, fifty-eight percent of the Nation's peanut acreage had reached the pegging stage, 2 percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. By July 21, seventy-eight percent of the Nation's peanut acreage had reached the pegging stage, identical to the previous year but 1 percentage point ahead of the 5-year average. By August 4, ninety-two percent of the Nation's peanut acreage had reached the pegging stage, 3 percentage points ahead of the previous week and 1 percentage point ahead of the 5-year average. On August 4, sixty-nine percent of the Nation's peanut acreage was rated in good to excellent condition, 2 percentage points below the same time last year.

Crop Comments

Corn: The 2019 corn planted area for all purposes is estimated at 90.0 million acres, down 2 percent from the previous estimate, but up 1 percent from 2018. Area harvested for grain is forecast at 82.0 million acres, down 2 percent from the previous forecast, but up less than 1 percent from last year.

At 13.9 billion bushels, 2019 corn production for grain is forecast to be the fifth highest production on record for the United States. The forecasted yield, at 169.5 bushels per acre, is down 4 percent from last year's final estimate of 176.4 bushels per acre. Record high yields are forecast for Kentucky and Tennessee.

Most of the country was abnormally wet in April, disrupting planting activities in a multitude of regions, including the northern and southern Plains, Mississippi Delta, and much of the Midwest and Northwest. In addition, runoff from rain and melting snow led to widespread lowland flooding, especially in the eastern Dakotas and Mississippi Valley. By April 28, only 15 percent of the Nation's intended corn acreage had been planted—the slowest early-season planting pace since 2013, when 5 percent had been sown by that date.

Rainfall continued into May causing new rounds of flooding which further hampered fieldwork throughout the month. By May 5, producers had planted 23 percent of the Nation's corn acreage, 13 percentage points behind last year and 23 percentage points behind the 5-year average. Six percent of the Nation's corn acreage had emerged by May 5, one percentage point behind last year and 7 percentage points behind the 5-year average. By May 19, producers had planted 49 percent of the Nation's corn acreage, 29 percentage points behind last year and 31 percentage points behind the 5-year average. Nineteen percent of the Nation's corn acreage had emerged by May 19, twenty-eight percentage points behind last year and 30 percentage points behind the 5-year average. By May 26, producers had planted 58 percent of the Nation's corn acreage, 32 percentage points behind both last year and the 5-year average. Thirty-two percent of the Nation's corn acreage had emerged by May 26, thirty-seven percentage points behind both last year and the 5-year average. Emergence in 13 of the 18 estimating States was behind the 5-year average by 20 percentage points or more.

Due to the wet field conditions throughout much of the spring planting season, producers had only planted 67 percent of the Nation's corn acreage by June 2, twenty-nine percentage points behind both last year and the 5-year average. Forty-six percent of the corn acreage had emerged by June 2, thirty-eight percentage points behind both last year and the 5-year average. By June 9, producers had planted 83 percent of the Nation's corn acreage, 16 percentage points behind both last year and the 5-year average. Sixty-two percent of the corn acreage had emerged by June 9, thirty-one percentage points behind both last year and the 5-year average. By June 23, producers had planted 96 percent of the Nation's corn acreage, 4 percentage points behind both last year and the 5-year average. Eighty-nine percent of the corn acreage had emerged by June 23, eleven percentage points behind last year and 10 percentage points behind the 5-year average. Emergence was behind the 5-year average by 20 percentage points or more in Michigan, Ohio, and South Dakota at that time. Ninety-four percent of the Nation's corn acreage had emerged by June 30, six percentage points behind both last year and the 5-year average. On June 30, fifty-six percent of the Nation's corn acreage was rated in good to excellent condition, 20 percentage points below the same time last year.

Eight percent of the corn acreage had reached the silking stage by July 7, twenty-six percentage points behind last year and 14 percentage points behind the 5-year average. Seventeen percent of the Nation's corn acreage had reached the silking stage by July 14, forty-two percentage points behind last year and 25 percentage points behind the 5-year average. On July 14, fifty-eight percent of the Nation's corn was rated in good to excellent condition, 14 percentage points below the same time last year. Thirty-five percent of the Nation's corn acreage was at or beyond the silking stage by July 21, forty-three percentage points behind last year and 31 percentage points behind the 5-year average. By July 21, five percent of the Nation's corn was at or beyond the dough stage, 11 percentage points behind last year and 5 percentage points behind the 5-year average. Fifty-eight percent of the Nation's corn acreage was at or beyond the silking stage by July 28, thirty-two percentage points behind last year and 25 percentage points behind the 5-year average. Silking progress was most active at that time in the Corn Belt, advancing at least 18 percentage points in Illinois, Iowa, Minnesota, Nebraska, North Dakota, South Dakota, and Wisconsin. By July 28, thirteen percent of the corn acreage was at or beyond the dough stage, 22 percentage points behind last year and 10 percentage points behind the 5-year average.

Seventy-eight percent of the Nation's corn acreage was at or beyond the silking stage by August 4, seventeen percentage points behind last year and 15 percentage points behind the 5-year average. By August 4, twenty-three percent of the corn was at or beyond the dough stage, 31 percentage points behind last year and 19 percentage points behind average. Acreage at or beyond the dough stage advanced 12 percentage points or more in eight of the 18 estimating States for the week ending August 4. Overall, 57 percent of the corn was rated in good to excellent condition on August 4, fourteen percentage points below the same time last year.

Sorghum: Production is forecast at 354 million bushels, down 3 percent from last year. Area harvested for grain is forecast at 4.79 million acres, up 4 percent from the previous forecast, but down 5 percent from 2018. Based on August 1

conditions, yield is forecast at 73.9 bushels per acre, 1.8 bushels above the 2018 yield of 72.1 bushels per acre. Growers are expecting record high yields in Texas.

As of August 4, forty-five percent of the sorghum acreage was headed, 22 percentage points behind last year and 17 percentage points behind the 5-year average. Twenty-three percent of the acreage was coloring at that time, 7 percentage points behind both last year and the 5-year average. Sixty-eight percent of the acreage was rated in good to excellent condition on August 4, nineteen percentage points above the same time last year.

Oats: Production is forecast at 60.4 million bushels, down 2 percent from the previous forecast but up 12 percent from 2018 for comparable States. Growers expect to harvest 909,000 acres for grain, unchanged from the previous forecast but up 10 percent from 2018 for comparable States. Based on conditions as of August 1, the United States yield is forecast at 66.4 bushels per acre, down 1.4 bushels from the previous forecast but 1.1 bushels above the 2018 average yield for comparable States.

As of August 4, thirty-two percent of the oat acreage was harvested, 17 percentage points behind both last year and the 5-year average. As of August 4, sixty-five percent of the acreage was rated in good to excellent condition, compared with 71 percent at the same time last year.

Barley: Production is forecast at 172 million bushels, up 1 percent from the previous forecast and up 12 percent from 2018. Based on conditions as of August 1, the average yield for the United States is forecast at 73.9 bushels per acre, up 0.6 bushel from the previous forecast but down 3.5 bushels from 2018. Area harvested for grain, is forecast at 2.33 million acres, unchanged from the previous forecast, but up 18 percent from 2018.

Ninety-six percent of the Nation's barley acreage was at or beyond the heading stage by July 28, one percentage point behind last year and 2 percentage points behind the 5-year average. By August 4, three percent of the Nation's barley acreage was harvested, 11 percentage points behind last year and 15 percentage points behind the 5-year average. Overall, 76 percent of the barley acreage was reported in good to excellent condition on August 4, three percentage points below the same time last year.

Winter wheat: Production is forecast at 1.33 billion bushels, up 3 percent from the previous forecast and up 12 percent from 2018. Based on August 1 conditions, the United States yield is forecast at 53.2 bushels per acre, up 1.4 bushels from last month and up 5.3 bushels from last year's average yield of 47.9 bushels per acre. If realized, this will be the second highest yield on record, only behind 2016's record high yield of 55.3 bushels per acre. The area expected to be harvested for grain or seed totals 24.9 million acres, unchanged from last month but up 1 percent from last year. A record high yield is forecast in Maryland, Nebraska, and Oklahoma for 2019.

Forecasted head counts from the objective yield survey in the six Hard Red Winter States (Colorado, Kansas, Montana, Nebraska, Oklahoma, and Texas) are above last year's final head count in all States, except Montana. As of August 4, harvest progress was behind normal by more than 21 percentage points in Montana, Nebraska, and South Dakota. Harvest progress was complete or nearly complete in California, Colorado, Kansas, Oklahoma, and Texas.

Forecasted head counts from the objective yield survey in the three Soft Red Winter States (Illinois, Missouri, and Ohio) are above last year's levels in Missouri but below last year's level in Illinois and Ohio. As of August 4, harvest progress in the Soft Red Winter (SRW) growing area was behind normal in all major producing States except Arkansas, Illinois, Indiana, Missouri, North Carolina, and Ohio where harvest was complete or nearly complete. Progress in Michigan was behind the 5-year average pace by 18 percentage points.

Forecasted head counts from the objective yield survey in Washington are below last year. Harvest progress in the Pacific Northwest was behind the respective 5-year average pace by more than 23 percentage points as of August 4. Seventy-one percent of the Washington acreage was rated in good to excellent condition as of August 4.

Durum wheat: Production is forecast at 57.3 million bushels, down 1 percent from the previous forecast and down 26 percent from 2018. The United States yield is forecast at 42.3 bushels per acre, down 0.6 bushel from last month but up

3.0 bushels from last year. Area expected to be harvested for grain totals 1.36 million acres, unchanged from last month but 31 percent below 2018. A record high yield is forecast in North Dakota, the largest Durum-producing State, for 2019.

Crop development has remained behind the normal pace this year in Montana and North Dakota, the two largest Durum-producing States. As of August 4, seventy-seven percent of the acreage in Montana and 69 percent of the acreage in North Dakota was rated in good to excellent condition.

Other spring wheat: Production is forecast at 597 million bushels, up 4 percent from the previous forecast but down 4 percent from 2018. The United States yield is forecast at 49.2 bushels per acre, up 2.0 bushels from the previous forecast and up 0.9 bushel from a year ago. If realized, this will be the highest United States yield on record. Of the total production, 566 million bushels are Hard Red Spring wheat, down 4 percent from last year. The area expected to be harvested for grain is expected to total 12.1 million acres, unchanged from last month but 6 percent below 2018. A record high yield is forecast in North Dakota for 2019.

In the six major producing States, 2 percent of the acreage was harvested as of August 4, ten percentage points behind last year and 12 percentage points behind the 5 year average. Harvest progress was most advanced in Washington with 10 percent of the acreage harvested. As of August 4, seventy-three percent of the other spring wheat acreage was rated in good to excellent condition, compared with 74 percent rated in these two categories at the same time last year.

Rice: Production is forecast at 205 million cwt, down 8 percent from 2018. Area for harvest is expected to total 2.71 million acres, unchanged from the previous forecast, but down 7 percent from 2018. Based on conditions as of August 1, the average United States yield is forecast at 7,577 pounds per acre, down 115 pounds per acre from 2018.

As of August 4, sixty percent of the rice acreage was headed, 19 percentage points behind last year and 13 percentage points behind the 5-year average. Sixty-eight percent of the rice acreage was reported in good to excellent condition on August 4, compared with 69 percent at the same time last year.

Alfalfa and alfalfa mixtures: Production of alfalfa and alfalfa mixture dry hay for 2019 is forecast at 55.4 million tons, up 5 percent from 2018. Based on August 1 conditions, yields are expected to average 3.29 tons per acre, up 0.12 ton from last year. Harvested area is forecast at 16.8 million acres, unchanged from the June forecast, but up 1 percent from 2018. Record high yields are expected in Arizona, California, New Mexico, and Oregon.

Other hay: Production of other hay is forecast at 75.7 million tons, up 7 percent from 2018. Based on August 1 conditions, the United States yield is expected to average 2.11 tons per acre, up 0.15 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 June forecast, but down 1 percent from 2018.

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

Soybeans: Area for harvest in the United States is forecast at 75.9 million acres, down 4 percent from the previous forecast and down 14 percent from 2018. Planted area for the Nation is estimated at 76.7 million acres, down 4 percent from the previous estimate.

Planting was underway by the start of May in 16 of the 18 major soybean-producing States. Six percent of the acreage was planted by May 5, eight percentage points behind both last year and the 5-year average. Heavy rains in the Plains and Midwest lead to a record-slow planting pace for soybeans with 39 percent of the acreage planted by June 2, forty percentage points behind the 5-year average.

Nationally, 55 percent of the soybean acreage was emerged by June 16, thirty-four percentage points behind last year and 29 percentage points behind the 5-year average. Soybean emergence in Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Ohio, South Dakota, and Wisconsin was at least 20 percentage points behind the 5-year average as

of June 16. By July 7, ten percent of the soybean acreage was blooming, 34 percentage points behind last year and 22 percentage points behind the 5-year average.

Twenty-two percent of the Nation's soybeans were blooming by July 14, forty percentage points behind last year and 27 percentage points behind the 5-year average. By July 21, seven percent of the Nation's soybeans were at or beyond the pod-setting stage, 34 percentage points behind last year and 21 percentage points behind the 5-year average. Fifty-seven percent of the soybeans were at or beyond the blooming stage by July 28, twenty-eight percentage points behind last year and 22 percentage points behind the 5-year average. By July 28, twenty-one percent of the Nation's soybeans were setting pods, 37 percentage points behind last year and 24 percentage points behind the 5-year average.

As of August 4, fifty-four percent of the soybean acreage was rated in good to excellent condition, compared with 67 percent at the same time last year. Conditions were below last year in 12 of the 18 major estimating States.

If realized, the forecasted yield will be a record high in Arkansas, Kentucky, and Tennessee.

Peanuts: Production is forecast at 5.30 billion pounds, down 3 percent from 2018. Area harvested is expected to total 1.32 million acres, unchanged from the previous forecast but down 3 percent from 2018. Based on conditions as of August 1, the average yield for the United States is forecast at 4,008 pounds per acre, up 17 pounds per acre from 2018. If realized, this would represent the second highest yield on record for the United States.

As of August 4, sixty-nine percent of the United States peanut acreage was rated in good to excellent condition, compared with 71 percent at the same time last year. Ninety-two percent of the acreage was pegging at that time, 3 percentage points ahead of last year, and 1 percentage point ahead of the five-year average.

Cotton: Area planted to Upland cotton is estimated at 13.6 million acres, up 1 percent from the previous estimate, but down 2 percent from 2018. Harvested area is expected to total 12.4 million acres, up 24 percent from 2018. Pima cotton planted area is estimated at 273,000 acres, down 1 percent from the previous estimate but up 9 percent from 2018. Expected harvested area, at 259,400 acres, is up 4 percent from the previous year. If realized, Upland harvested area in Kansas will be the highest on record.

As of August 4, fifty-four percent of the cotton acreage was rated in good to excellent condition compared with 40 percent at the same time last year. Fifty-nine percent of the acreage had set bolls by August 4, one percentage point ahead of last year but 2 percentage points behind the five-year average.

In Georgia, weather conditions were very hot and dry during the planting season, resulting in some stress on the newly planted acreage and causing delays for farmers that had not yet planted. The hot and dry conditions continued in to July; however, timely rains aided the cotton acreage as it remained in mostly good condition. In Texas, many growers reported having a beautiful crop on both irrigated and dryland acreage, but the dryland needs some more precipitation. Heat unit accumulation in Texas has not been a problem, with highs near or above 100 and lows in the mid-70s.

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

Dry beans: Production of dry edible beans is forecast at 24.6 million cwt, down 34 percent from 2018. Area planted is estimated at 1.33 million acres, up 2 percent from the previous forecast but down 36 percent from 2018. Area harvested is forecast at 1.28 million acres, up 2 percent from the previous forecast but 36 percent below 2018. The average United States yield is forecast at 1,919 pounds per acre, an increase of 59 pounds from last season. Beginning in 2019, estimates no longer include chickpeas.

Sugarbeets: Production of sugarbeets for the 2019 crop year is forecast at 34.8 million tons, up 5 percent from last year. Producers expect to harvest 1.12 million acres, up 2 percent from last year. Yield is forecast at 31.1 tons per acre, an increase of 0.8 ton from last year.

Crop development in Montana and North Dakota was behind normal. The effects of a wetter June in Minnesota and North Dakota were becoming evident as isolated cases of Fusarium root rot were being found in areas where none had been found previously. Rhizoctonia root rot continued to progress, though the severity of the disease remains uncertain.

Sugarcane: Production of sugarcane for sugar and seed in 2019 is forecast at 34.4 million tons, down slightly from last year. Producers intend to harvest 916,800 acres for sugar and seed during the 2019 crop year, up 2 percent from last year. Yields for sugar and seed are expected to average 37.5 tons per acre, down 0.9 ton from 2018.

Height and growth per day were below average in Louisiana fields, but the stalk population looked good. There were still some lingering effects from the 2018 harvest, but growers are anticipating an average crop.

Tobacco: The 2019 United States all tobacco production is forecast at 504 million pounds, down 5 percent from 2018. Area harvested, at 238,920 acres, is down 18 percent from last year. Yield for the 2019 crop year is forecast at 2,110 pounds per acre, 280 pounds above last year. If realized, this will be the lowest harvested acreage on record.

Flue-cured production is expected to total 315 million pounds, down 2 percent from the last month and 7 percent from 2018. North Carolina growers reported that most of their crop was rated in fair to good condition.

Burley production is expected to total 106 million pounds, up 5 percent from last year.

Hops: Production of hops is forecast at 106 million pounds for 2019, down 1 percent from last year. Area harvested is forecast at 55,800 acres, up 1 percent from 2018. Yield is forecast at 1,906 pounds per acre, 37 pounds lower than the 2018 yield.

Cool nights in early June in the Northwest caused some varieties to bloom early and challenged some of the newly planted bines. The mild summer is proving ideal for later harvested varieties with those yields expected to be above average.

Apples, commercial: United States apple production for the 2019 crop year is forecast at 10.6 billion pounds, up 4 percent from the previous year. In Washington, growers reported favorable summer growing weather, contributing to a crop with excellent quality and finish. New York growers reported adequate moisture and favorable growing conditions. In Michigan, wet spring weather hampered pollination, with below normal fruit counts partially offset by good fruit sizing.

Cranberries: United States 2019 total cranberry production is forecast at 9.04 million barrels, up 1 percent from 2018. In Wisconsin a cold, wet spring put the crop 1 to 2 weeks behind normal, but warmer temperatures in July helped the crop catch up. Some Massachusetts growers reported excessive moisture.

Grapes: United States grape production for 2019 is forecast at 7.50 million tons, down 1 percent from last year. In California, harvest of grapes for fresh use was complete in the Coachella Valley after rain and cold weather delayed the harvest. Harvest of all grape types in the San Joaquin Valley was also delayed due to unusually rainy and cold weather.

California's wine type grape production is forecast at 4.20 million tons, down 2 percent from 2018, and represents 60 percent of California's total grape crop. California's raisin type grape production is forecast at 1.55 million tons, up slightly from last year, and represents 22 percent of California's total grape crop. California's table type grape production is forecast at 1.30 million tons, unchanged from the previous year. If realized, this will be tied with 2018 for the highest table grape production on record.

Peaches: United States peach production is forecast at 733,500 tons, up 13 percent from 2018.

In California, rain and plenty of chilling hours benefited the Freestone crop with a very good bloom reported. Favorable growing conditions continued after bloom as warm days and cool evenings helped with color and sizing. California Clingstone full bloom occurred on March 18, a few days later than last year.

In Georgia, trees received plenty of chill hours with little frost damage and natural thinning from a couple of light March freezes. Growers reported an abundant crop and attributed it to plentiful rains and cool spring temperatures. Harvest began in early-May. In South Carolina, some growers reported their best crop in several years. There were plenty of early chill hours, adequate moisture, and trees full of blooms. In South Carolina, harvest is expected to continue through mid-September.

In New Jersey, growers reported good quantity and excellent size and color. Michigan growers in the Southwest area reported most of their crop was destroyed by harsh winter conditions. Peaches in West Central, Northwest, and Southeast Michigan were less affected by the cold snap. Colorado producers expect their largest crop since 2012.

Pears: United States pear production for 2019 is forecast at 805,000 tons, down slightly from last year. Growers in Oregon reported that rains interfered with pollination, but overall quality and size is good. In California, ideal weather conditions resulted in an excellent bloom. Growers reported good quality, shape, and sizing due to aggressive pruning. Growers in Washington reported fire blight, hail, and heavy rain which caused damage to some trees.

Statistical Methodology

Survey procedures: Objective yield and farm operator surveys were conducted between July 25 and August 6 to gather information on expected yields as of August 1. The objective yield survey for winter wheat was conducted in 10 States that account for 70 percent of the 2018 winter wheat production. The objective yield survey for cotton was only conducted in the southern portions of Texas. Farm operators selected for the objective yield survey were interviewed to update previously reported acreage data and seek permission to randomly locate two sample plots in selected fields for the objective yield survey. The counts made within each sample plot depend on the crop and the maturity of that crop. In all cases, the number of plants is recorded along with other measurements that provide information to forecast the number heads or bolls and their weight. The counts are used with similar data from previous years to develop a projected biological yield. The average harvesting loss is subtracted to obtain a net yield. The plots are revisited each month until crop maturity when the fruit are 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 first objective yield survey conducted for these crops will begin in September.

The farm operator survey was conducted primarily by telephone with some use of mail, internet, and personal interviews. Approximately 20,800 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.

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 with 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 August 1 forecasts.

Revision policy: The August 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 either special survey data, administrative data, such as Farm Service Agency program “sign up” data, or remote sensing data are available. Harvested acres may be revised any time a production forecast is made if there is strong evidence that the intended harvested area has changed since the last forecast.

Reliability: To assist users in evaluating the reliability of the August 1 production forecast, the “Root Mean Square Error,” a statistical measure based on past performance, is computed. The deviation between the August 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 August 1 corn for grain production forecast is 3.6 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 3.6 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 6.2 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the August 1 forecast and the final estimate. Using corn again as an example, changes between the August 1 forecast and the final estimate during the last 20 years have averaged 305 million bushels, ranging from 5 million bushels to 940 million bushels. The August 1 forecast has been below the final estimate 9 times and above 11 times. This does not imply that the August 1 corn forecast this year is likely to understate or overstate final production.

Reliability of August 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)
Barley bushels	5.9	10.2	10	1	25	7	13
Corn for grain bushels	3.6	6.2	305	5	940	9	11
Dry edible beans cwt	7.7	13.3	2	(Z)	5	14	6
Oats bushels	12.0	20.8	9	(Z)	27	2	18
Rice cwt	4.4	7.7	8	1	20	9	11
Sorghum for grain bushels	8.2	14.1	24	(Z)	107	10	10
Soybeans for beans bushels	6.6	11.4	152	6	408	14	6
Upland cotton ¹ bales	7.4	12.8	1,140	192	3,025	8	12
Wheat							
Durum wheat bushels	9.0	15.6	6	(Z)	14	9	11
Other spring bushels	6.9	11.8	27	3	69	11	9
Winter wheat bushels	2.1	3.6	23	(Z)	71	7	13

(Z) Less than half of the unit shown.

¹ Quantity is in thousands of units.

USDA, National Agricultural Statistics Service Information Contacts

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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.