



Released October 9, 2020, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Special Note

Each October, NASS has the opportunity to revise planted and harvested acreage estimates for corn, sorghum, soybeans, sunflower, canola, sugarbeets, and dry edible beans. Revisions are based on all available data, including the latest certified acreage data from the Farm Service Agency (FSA). All States in the estimating program for these crops were subject to review and updating. Detailed estimates are found on pages 6, 9, 11, 14, 17, 22, and 23.

Corn Production Down 1 Percent from September Forecast **Soybean Production Down 1 Percent** **Cotton Production Down Less Than 1 Percent** **Orange Production Down 11 Percent from Last Season**

Corn production for grain is forecast at 14.7 billion bushels, down 1 percent from the previous forecast but up 8 percent from 2019. Based on conditions as of October 1, yields are expected to average a record high 178.4 bushels per harvested acre, down 0.1 bushel from the previous forecast but up 10.9 bushels from last year. Area harvested for grain is forecast at 82.5 million acres, down 1 percent from the previous forecast, but up 1 percent from the previous year. Acreage updates were made in several States based on a thorough review of all available data.

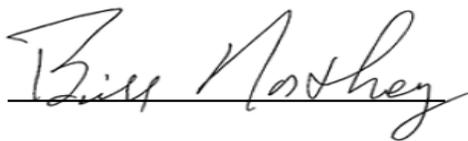
Soybean production for beans is forecast at 4.27 billion bushels, down 1 percent from the previous forecast but up 20 percent from last year. Based on conditions as of October 1, yields are expected to average a record high 51.9 bushels per harvested acre, unchanged from the previous forecast but up 4.5 bushels from 2019. Area harvested for beans in the United States is forecast at 82.3 million acres, down 1 percent from the previous forecast but up 10 percent from 2019. Acreage updates were made in several States based on a thorough review of all available data.

All cotton production is forecast at 17.0 million 480-pound bales, down less than 1 percent from the previous forecast, and down 14 percent from 2019. Based on conditions as of October 1, yields are expected to average 909 pounds per harvested acre, down 1 pound from the previous forecast but up 86 pounds from 2019. Upland cotton production is forecast at 16.5 million 480-pound bales, down less than 1 percent from the previous forecast and down 14 percent from 2019. Pima cotton production is forecast at 545,000 bales, down 3 percent from the previous forecast and down 20 percent from 2019. All cotton area harvested is forecast at 9.01 million acres, unchanged from the previous forecast, but down 22 percent from 2019.

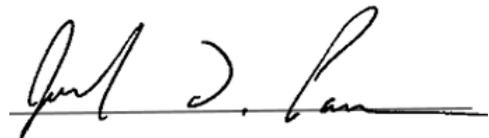
The United States all orange forecast for the 2020-2021 season is 4.65 million tons, down 11 percent from the 2019-2020 final utilization. The Florida all orange forecast, at 57.0 million boxes (2.57 million tons), down 15 percent from last season's final utilization. In Florida, early, midseason, and Navel varieties are forecast at 23.0 million boxes (1.04 million tons), down 22 percent from last season's final utilization. The Florida Valencia orange forecast, at 34.0 million boxes (1.53 million tons), is down 10 percent from last season's final utilization.

The California all orange forecast is 50.5 million boxes (2.02 million tons), down 5 percent from last season's final utilization. The California Navel orange forecast is 42.0 million boxes (1.68 million tons), down 5 percent from last season's final utilization. The California Valencia orange forecast is 8.50 million boxes (340,000 tons), down 6 percent from last season's final utilization. The Texas all orange forecast, at 1.50 million boxes (64,000 tons), is up 12 percent from last season's final utilization.

This report was approved on October 9, 2020.



Secretary of Agriculture
Designate
Bill Northey



Agricultural Statistics Board
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Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2019 - 2020

[Includes updates to planted and harvested area previously published]

State	Area planted for all purposes		Area harvested for grain	
	2019 (1,000 acres)	2020 (1,000 acres)	2019 (1,000 acres)	2020 ¹ (1,000 acres)
Alabama	320	340	305	325
Arizona	90	70	37	26
Arkansas	770	620	735	605
California	480	400	60	50
Colorado	1,550	1,430	1,300	1,160
Connecticut ²	23	23	(NA)	(NA)
Delaware	185	175	180	170
Florida	95	100	54	56
Georgia	395	430	350	380
Idaho	390	380	150	140
Illinois	10,500	11,400	10,200	11,200
Indiana	5,000	5,400	4,820	5,250
Iowa	13,500	13,700	13,050	12,700
Kansas	6,400	6,100	6,020	5,750
Kentucky	1,550	1,480	1,450	1,360
Louisiana	570	500	545	490
Maine ²	29	30	(NA)	(NA)
Maryland	510	500	460	455
Massachusetts ²	14	14	(NA)	(NA)
Michigan	2,000	2,350	1,610	1,980
Minnesota	7,800	8,000	7,250	7,550
Mississippi	660	510	620	490
Missouri	3,200	3,450	2,990	3,300
Montana	115	115	60	66
Nebraska	10,100	10,200	9,810	9,830
Nevada ²	15	17	(NA)	(NA)
New Hampshire ²	12	13	(NA)	(NA)
New Jersey	77	86	68	80
New Mexico	150	125	48	29
New York	1,020	1,050	545	520
North Carolina	990	1,000	930	940
North Dakota	3,500	1,950	3,130	1,790
Ohio	2,800	3,500	2,570	3,300
Oklahoma	370	360	330	320
Oregon	85	100	49	53
Pennsylvania	1,450	1,470	1,060	1,000
Rhode Island ²	2	2	(NA)	(NA)
South Carolina	380	400	350	370
South Dakota	4,350	5,000	3,870	4,560
Tennessee	970	870	910	820
Texas	2,500	2,250	2,150	1,870
Utah	85	90	26	28
Vermont ²	81	83	(NA)	(NA)
Virginia	540	570	380	410
Washington	175	180	90	105
West Virginia	52	50	38	35
Wisconsin	3,800	4,000	2,670	2,900
Wyoming	95	95	67	64
United States	89,745	90,978	81,337	82,527

(NA) Not available.

¹ Forecasted.

² Area harvested for grain not estimated.

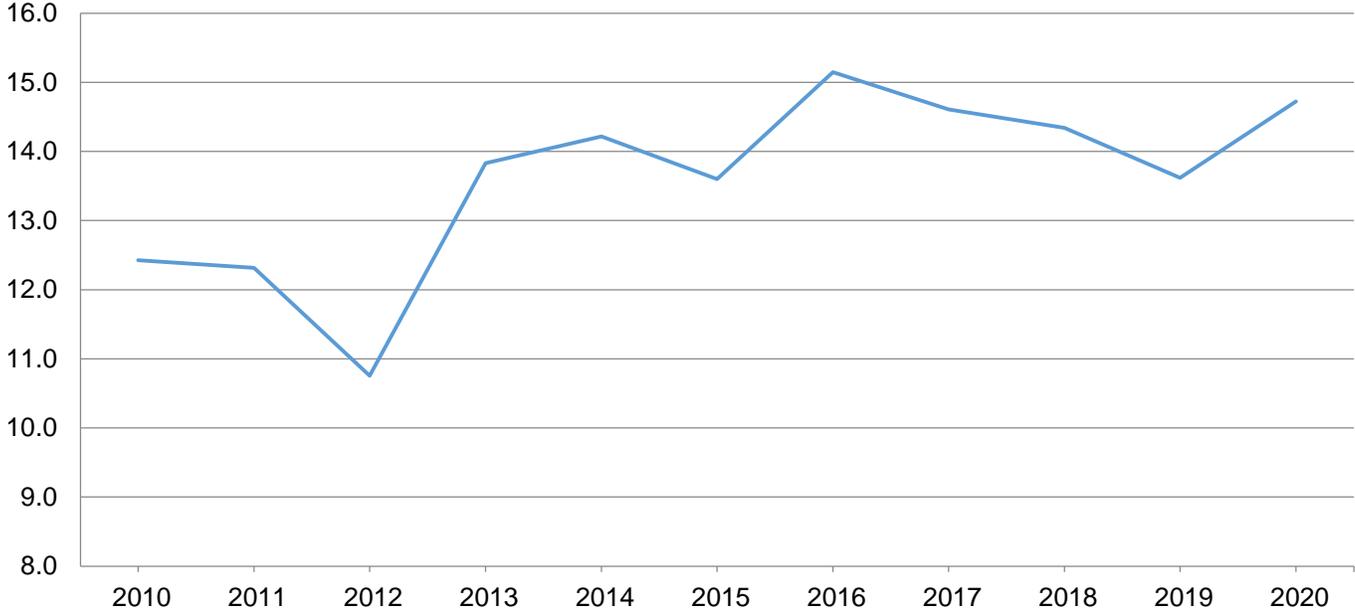
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	305	325	147.0	163.0	166.0	44,835	53,950
Arkansas	735	605	175.0	181.0	183.0	128,625	110,715
California	60	50	168.0	160.0	155.0	10,080	7,750
Colorado	1,300	1,160	123.0	117.0	125.0	159,900	145,000
Delaware	180	170	161.0	170.0	181.0	28,980	30,770
Georgia	350	380	160.0	181.0	182.0	56,000	69,160
Idaho	150	140	205.0	205.0	205.0	30,750	28,700
Illinois	10,200	11,200	181.0	203.0	200.0	1,846,200	2,240,000
Indiana	4,820	5,250	169.0	186.0	189.0	814,580	992,250
Iowa	13,050	12,700	198.0	191.0	186.0	2,583,900	2,362,200
Kansas	6,020	5,750	133.0	136.0	137.0	800,660	787,750
Kentucky	1,450	1,360	169.0	181.0	181.0	245,050	246,160
Louisiana	545	490	165.0	180.0	184.0	89,925	90,160
Maryland	460	455	161.0	163.0	155.0	74,060	70,525
Michigan	1,610	1,980	147.0	162.0	167.0	236,670	330,660
Minnesota	7,250	7,550	173.0	200.0	202.0	1,254,250	1,525,100
Mississippi	620	490	174.0	180.0	181.0	107,880	88,690
Missouri	2,990	3,300	155.0	169.0	169.0	463,450	557,700
Nebraska	9,810	9,830	182.0	188.0	187.0	1,785,420	1,838,210
New York	545	520	158.0	167.0	167.0	86,110	86,840
North Carolina	930	940	111.0	127.0	117.0	103,230	109,980
North Dakota	3,130	1,790	131.0	157.0	160.0	410,030	286,400
Ohio	2,570	3,300	164.0	172.0	173.0	421,480	570,900
Oklahoma	330	320	137.0	135.0	135.0	45,210	43,200
Pennsylvania	1,060	1,000	153.0	153.0	157.0	162,180	157,000
South Carolina	350	370	106.0	136.0	136.0	37,100	50,320
South Dakota	3,870	4,560	144.0	168.0	165.0	557,280	752,400
Tennessee	910	820	177.0	174.0	169.0	161,070	138,580
Texas	2,150	1,870	133.0	138.0	139.0	285,950	259,930
Virginia	380	410	144.0	132.0	136.0	54,720	55,760
Washington	90	105	237.0	240.0	240.0	21,330	25,200
Wisconsin	2,670	2,900	166.0	182.0	186.0	443,220	539,400
Other States ¹	447	437	156.2	159.3	161.0	69,803	70,345
United States	81,337	82,527	167.5	178.5	178.4	13,619,928	14,721,705

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 2020 Summary*.

Corn Production – United States

Billion bushels



Sorghum Area Planted for All Purpose and Harvested for Grain – States and United States: 2019 and 2020

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2019	2020	2019	2020 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado	365	375	310	300
Kansas	2,600	3,000	2,400	2,760
Nebraska	200	195	130	135
Oklahoma	300	310	260	255
South Dakota	250	210	175	100
Texas	1,550	1,700	1,400	1,450
United States	5,265	5,790	4,675	5,000

¹ Forecasted.

Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	310	300	41.0	36.0	40.0	12,710	12,000
Kansas	2,400	2,760	85.0	85.0	86.0	204,000	237,360
Nebraska	130	135	93.0	93.0	89.0	12,090	12,015
Oklahoma	260	255	51.0	44.0	42.0	13,260	10,710
South Dakota	175	100	80.0	86.0	86.0	14,000	8,600
Texas	1,400	1,450	61.0	66.0	62.0	85,400	89,900
United States	4,675	5,000	73.0	73.9	74.1	341,460	370,585

Rice Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre			Production ¹	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,126	1,441	7,480	7,500	7,500	84,257	108,075
California	496	510	8,450	8,700	8,800	41,933	44,880
Louisiana	414	474	6,380	6,800	6,800	26,408	32,232
Mississippi	113	170	7,350	7,400	7,400	8,302	12,580
Missouri	173	215	7,370	7,500	7,900	12,747	16,985
Texas	150	181	7,350	6,500	6,400	11,028	11,584
United States	2,472	2,991	7,471	7,529	7,567	184,675	226,336

¹ Includes sweet rice production.

Rice Production by Class – United States: 2019 and Forecasted October 1, 2020

Year	Long grain	Medium grain	Short grain ¹	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2019	125,610	56,669	2,396	184,675
2020 ²	169,962	53,666	2,708	226,336

¹ Sweet rice production included with short grain.

² The 2020 rice production by class forecasts are based on class harvested acreage estimates and the 5-year average class yield compared to the all rice yield.

Soybeans for Beans Area Planted and Harvested – States and United States: 2019 and 2020

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2019 (1,000 acres)	2020 (1,000 acres)	2019 (1,000 acres)	2020 ¹ (1,000 acres)
Alabama	265	280	260	275
Arkansas	2,650	2,820	2,610	2,780
Delaware	155	150	153	148
Georgia	100	100	86	93
Illinois	9,950	10,300	9,860	10,250
Indiana	5,400	5,700	5,360	5,680
Iowa	9,200	9,400	9,120	9,320
Kansas	4,550	4,800	4,490	4,750
Kentucky	1,700	1,850	1,690	1,840
Louisiana	890	1,050	860	1,020
Maryland	480	490	475	485
Michigan	1,760	2,200	1,720	2,190
Minnesota	6,850	7,400	6,770	7,330
Mississippi	1,660	2,090	1,630	2,060
Missouri	5,100	5,850	5,010	5,780
Nebraska	4,900	5,200	4,840	5,150
New Jersey	95	95	92	93
New York	235	310	225	300
North Carolina	1,540	1,600	1,520	1,570
North Dakota	5,600	5,750	5,400	5,700
Ohio	4,300	4,900	4,270	4,880
Oklahoma	465	560	440	530
Pennsylvania	620	610	610	605
South Carolina	335	310	315	295
South Dakota	3,500	4,950	3,440	4,900
Tennessee	1,400	1,650	1,370	1,620
Texas	80	120	73	105
Virginia	570	570	560	560
Wisconsin	1,750	2,000	1,690	1,980
United States	76,100	83,105	74,939	82,289

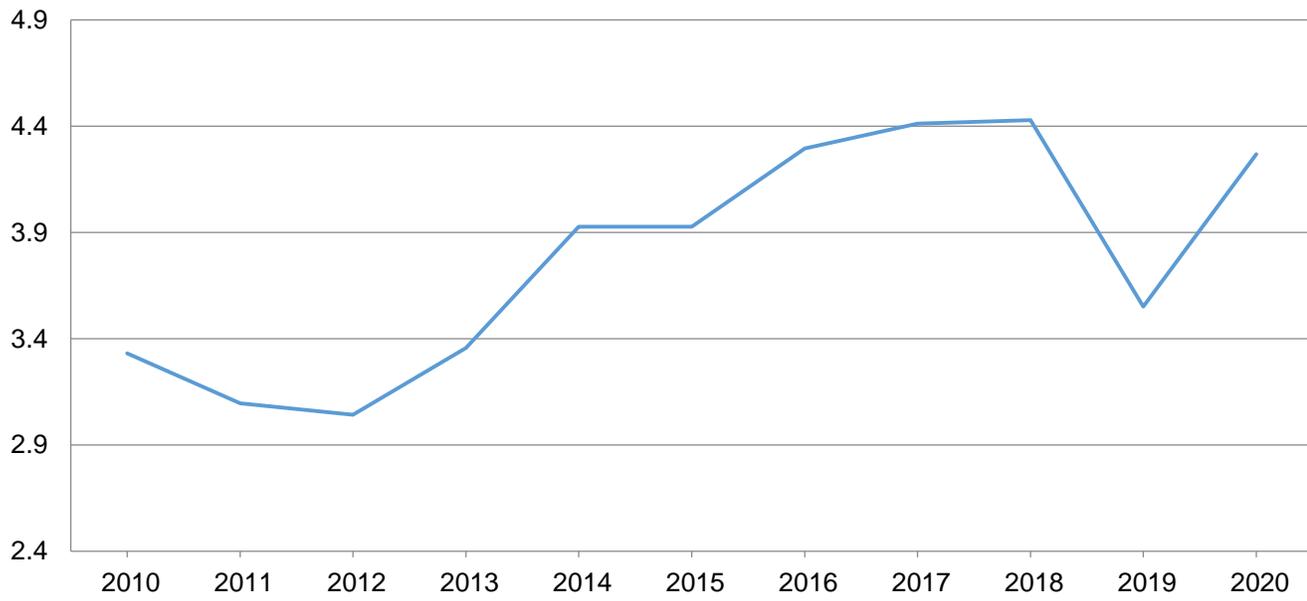
¹ Forecasted.

Soybeans for Beans Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	260	275	36.0	38.0	41.0	9,360	11,275
Arkansas	2,610	2,780	49.0	49.0	49.0	127,890	136,220
Delaware	153	148	47.0	47.0	47.0	7,191	6,956
Georgia	86	93	29.0	40.0	39.0	2,494	3,627
Illinois	9,860	10,250	54.0	62.0	60.0	532,440	615,000
Indiana	5,360	5,680	51.0	60.0	60.0	273,360	340,800
Iowa	9,120	9,320	55.0	54.0	56.0	501,600	521,920
Kansas	4,490	4,750	41.5	44.0	44.0	186,335	209,000
Kentucky	1,690	1,840	46.0	55.0	55.0	77,740	101,200
Louisiana	860	1,020	48.0	55.0	55.0	41,280	56,100
Maryland	475	485	44.0	49.0	48.0	20,900	23,280
Michigan	1,720	2,190	40.5	48.0	48.0	69,660	105,120
Minnesota	6,770	7,330	44.0	52.0	52.0	297,880	381,160
Mississippi	1,630	2,060	50.0	53.0	53.0	81,500	109,180
Missouri	5,010	5,780	46.0	51.0	50.0	230,460	289,000
Nebraska	4,840	5,150	58.5	60.0	60.0	283,140	309,000
New Jersey	92	93	37.0	41.0	39.0	3,404	3,627
New York	225	300	48.0	49.0	50.0	10,800	15,000
North Carolina	1,520	1,570	35.0	38.0	38.0	53,200	59,660
North Dakota	5,400	5,700	31.5	36.0	34.0	170,100	193,800
Ohio	4,270	4,880	49.0	56.0	56.0	209,230	273,280
Oklahoma	440	530	29.0	30.0	29.0	12,760	15,370
Pennsylvania	610	605	49.0	49.0	49.0	29,890	29,645
South Carolina	315	295	26.0	30.0	32.0	8,190	9,440
South Dakota	3,440	4,900	42.5	48.0	48.0	146,200	235,200
Tennessee	1,370	1,620	47.0	50.0	48.0	64,390	77,760
Texas	73	105	28.0	37.0	42.0	2,044	4,410
Virginia	560	560	34.0	39.0	41.0	19,040	22,960
Wisconsin	1,690	1,980	47.0	54.0	55.0	79,430	108,900
United States	74,939	82,289	47.4	51.9	51.9	3,551,908	4,267,890

Soybean Production – United States

Billion bushels



Sunflower Area Planted and Harvested by Type – States and United States: 2019 and 2020

[Includes updates to planted and harvested area previously published]

Varietal type and State	Area planted		Area harvested	
	2019 (1,000 acres)	2020 (1,000 acres)	2019 (1,000 acres)	2020 ¹ (1,000 acres)
Oil				
California	49.0	41.0	49.0	40.5
Colorado	47.0	41.0	44.0	37.0
Kansas	37.0	54.0	35.0	51.0
Minnesota	53.0	68.0	51.0	66.0
Nebraska	28.0	40.0	26.0	38.0
North Dakota	470.0	640.0	440.0	620.0
South Dakota	485.0	570.0	460.0	545.0
Texas	28.0	29.0	26.0	27.0
United States	1,197.0	1,483.0	1,131.0	1,424.5
Non-oil				
California	1.6	2.0	1.6	2.0
Colorado	12.0	18.0	11.0	16.0
Kansas	8.0	20.0	7.3	18.0
Minnesota	5.0	5.5	4.6	5.0
Nebraska	9.0	10.0	8.5	9.0
North Dakota	65.0	80.0	54.0	76.0
South Dakota	48.0	52.0	31.0	48.0
Texas	5.0	28.0	4.5	24.0
United States	153.6	215.5	122.5	198.0
All				
California	50.6	43.0	50.6	42.5
Colorado	59.0	59.0	55.0	53.0
Kansas	45.0	74.0	42.3	69.0
Minnesota	58.0	73.5	55.6	71.0
Nebraska	37.0	50.0	34.5	47.0
North Dakota	535.0	720.0	494.0	696.0
South Dakota	533.0	622.0	491.0	593.0
Texas	33.0	57.0	30.5	51.0
United States	1,350.6	1,698.5	1,253.5	1,622.5

¹ Forecasted.

Sunflower Area Harvested, Yield, and Production by Type – States and United States: 2019 and Forecasted October 1, 2020

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

Varietal type and State	Area harvested		Yield per acre		Production	
	2019	2020	2019	2020 ¹	2019	2020 ¹
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Oil						
California	49.0	40.5	1,400		68,600	
Colorado	44.0	37.0	1,000		44,000	
Kansas	35.0	51.0	1,400		49,000	
Minnesota	51.0	66.0	1,850		94,350	
Nebraska	26.0	38.0	1,300		33,800	
North Dakota	440.0	620.0	1,500		660,000	
South Dakota	460.0	545.0	1,700		782,000	
Texas	26.0	27.0	1,300		33,800	
United States	1,131.0	1,424.5	1,561		1,765,550	
Non-oil						
California	1.6	2.0	1,300		2,080	
Colorado	11.0	16.0	1,400		15,400	
Kansas	7.3	18.0	1,250		9,125	
Minnesota	4.6	5.0	1,800		8,280	
Nebraska	8.5	9.0	1,300		11,050	
North Dakota	54.0	76.0	1,650		89,100	
South Dakota	31.0	48.0	1,600		49,600	
Texas	4.5	24.0	1,300		5,850	
United States	122.5	198.0	1,555		190,485	
All						
California	50.6	42.5	1,397	1,334	70,680	56,675
Colorado	55.0	53.0	1,080	1,221	59,400	64,700
Kansas	42.3	69.0	1,374	1,467	58,125	101,250
Minnesota	55.6	71.0	1,846	1,696	102,630	120,450
Nebraska	34.5	47.0	1,300	1,450	44,850	68,140
North Dakota	494.0	696.0	1,516	1,761	749,100	1,225,600
South Dakota	491.0	593.0	1,694	1,867	831,600	1,107,300
Texas	30.5	51.0	1,300	1,235	39,650	63,000
United States	1,253.5	1,622.5	1,560	1,730	1,956,035	2,807,115

¹ 2020 yield and production estimates for oil and non-oil varieties will be published in the *Crop Production 2020 Summary*.

Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area planted		Area harvested	
	2019	2020	2019	2020
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	160.0	185.0	156.0	182.0
Arkansas	34.0	40.0	33.0	39.0
Florida	165.0	175.0	155.0	165.0
Georgia	675.0	810.0	660.0	800.0
Mississippi	20.0	23.0	19.0	22.0
New Mexico	4.7	6.2	4.7	6.2
North Carolina	104.0	107.0	102.0	105.0
Oklahoma	15.0	16.0	14.0	15.0
South Carolina	65.0	85.0	62.0	82.0
Texas	165.0	190.0	160.0	180.0
Virginia	25.0	28.0	24.0	27.0
United States	1,432.7	1,665.2	1,389.7	1,623.2

State	Yield per acre			Production	
	2019	2020		2019	2020
		September 1	October 1		
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	3,350	4,100	3,900	522,600	709,800
Arkansas	5,200	4,900	4,900	171,600	191,100
Florida	3,800	4,200	4,000	589,000	660,000
Georgia	4,170	4,500	4,500	2,752,200	3,600,000
Mississippi	4,000	4,500	4,500	76,000	99,000
New Mexico	3,210	3,100	3,100	15,087	19,220
North Carolina	4,400	4,200	4,300	448,800	451,500
Oklahoma	4,000	3,600	3,600	56,000	54,000
South Carolina	3,800	3,800	3,800	235,600	311,600
Texas	3,050	2,900	2,700	488,000	486,000
Virginia	4,650	4,300	4,200	111,600	113,400
United States	3,934	4,185	4,125	5,466,487	6,695,620

Canola Area Planted and Harvested – States and United States: 2019 and 2020

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2019	2020	2019	2020 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Kansas	29.0	5.0	19.0	3.0
Minnesota	51.0	50.0	48.5	48.0
Montana	150.0	155.0	138.0	145.0
North Dakota	1,700.0	1,540.0	1,610.0	1,520.0
Oklahoma	35.0	12.0	21.0	8.0
Washington	75.0	90.0	73.0	88.0
United States	2,040.0	1,852.0	1,909.5	1,812.0

¹ Forecasted.

Canola Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre		Production	
	2019	2020	2019	2020	2019	2020
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Kansas	19.0	3.0	1,090	1,910	20,710	5,730
Minnesota	48.5	48.0	2,270	1,400	110,095	67,200
Montana	138.0	145.0	1,450	1,500	200,100	217,500
North Dakota	1,610.0	1,520.0	1,800	1,770	2,898,000	2,690,400
Oklahoma	21.0	8.0	1,410	1,530	29,610	12,240
Washington	73.0	88.0	1,950	2,200	142,350	193,600
United States	1,909.5	1,812.0	1,781	1,759	3,400,865	3,186,670

Cotton Area Harvested, Yield, and Production by Type – States and United States: 2019 and Forecasted October 1, 2020

Type and State	Area harvested		Yield per acre			Production ¹	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) ²	(1,000 bales) ²
Upland							
Alabama	532.0	445.0	928	976	960	1,028.0	890.0
Arizona	158.0	123.0	1,154	1,366	1,366	380.0	350.0
Arkansas	610.0	520.0	1,185	1,200	1,200	1,506.0	1,300.0
California	53.0	40.0	1,576	1,620	1,620	174.0	135.0
Florida	110.0	98.0	895	882	833	205.0	170.0
Georgia	1,380.0	1,190.0	953	932	968	2,740.0	2,400.0
Kansas	151.0	195.0	890	788	788	280.0	320.0
Louisiana	270.0	165.0	1,035	1,105	1,047	582.0	360.0
Mississippi	700.0	525.0	1,112	1,179	1,198	1,621.0	1,310.0
Missouri	368.0	287.0	1,193	1,204	1,171	915.0	700.0
New Mexico	45.0	35.0	821	1,029	891	77.0	65.0
North Carolina	500.0	340.0	998	847	833	1,040.0	590.0
Oklahoma	460.0	460.0	688	939	762	659.0	730.0
South Carolina	295.0	185.0	809	856	804	497.0	310.0
Tennessee	405.0	275.0	1,138	1,135	1,065	960.0	610.0
Texas	5,250.0	3,850.0	578	736	761	6,320.0	6,100.0
Virginia	102.0	79.0	1,144	972	972	243.0	160.0
United States	11,389.0	8,812.0	810	899	899	19,227.0	16,500.0
American Pima							
Arizona	7.5	6.5	800	1,108	1,108	12.5	15.0
California	201.0	146.0	1,545	1,529	1,463	647.0	445.0
New Mexico	5.0	10.8	864	889	1,111	9.0	25.0
Texas	10.0	30.0	816	944	960	17.0	60.0
United States	223.5	193.3	1,472	1,388	1,353	685.5	545.0
All							
Alabama	532.0	445.0	928	976	960	1,028.0	890.0
Arizona	165.5	129.5	1,138	1,353	1,353	392.5	365.0
Arkansas	610.0	520.0	1,185	1,200	1,200	1,506.0	1,300.0
California	254.0	186.0	1,551	1,548	1,497	821.0	580.0
Florida	110.0	98.0	895	882	833	205.0	170.0
Georgia	1,380.0	1,190.0	953	932	968	2,740.0	2,400.0
Kansas	151.0	195.0	890	788	788	280.0	320.0
Louisiana	270.0	165.0	1,035	1,105	1,047	582.0	360.0
Mississippi	700.0	525.0	1,112	1,179	1,198	1,621.0	1,310.0
Missouri	368.0	287.0	1,193	1,204	1,171	915.0	700.0
New Mexico	50.0	45.8	826	996	943	86.0	90.0
North Carolina	500.0	340.0	998	847	833	1,040.0	590.0
Oklahoma	460.0	460.0	688	939	762	659.0	730.0
South Carolina	295.0	185.0	809	856	804	497.0	310.0
Tennessee	405.0	275.0	1,138	1,135	1,065	960.0	610.0
Texas	5,260.0	3,880.0	578	737	762	6,337.0	6,160.0
Virginia	102.0	79.0	1,144	972	972	243.0	160.0
United States	11,612.5	9,005.3	823	910	909	19,912.5	17,045.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

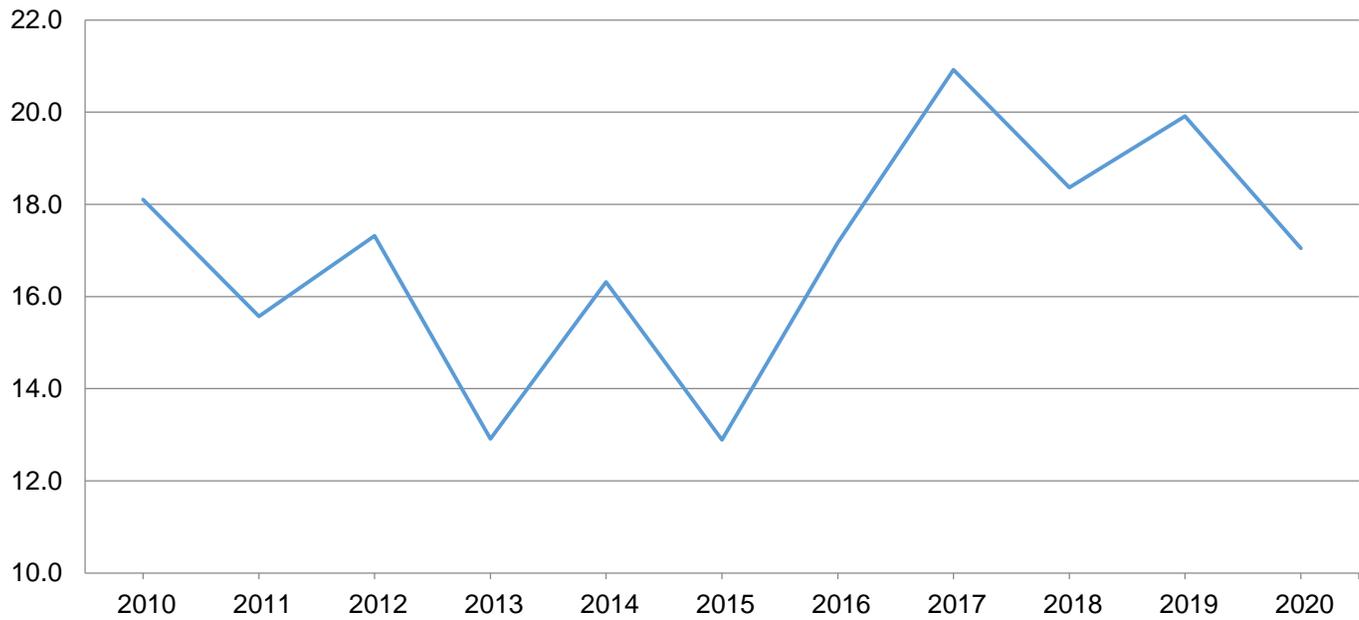
Cottonseed Production – United States: 2019 and Forecasted October 1, 2020

State	Production	
	2019 (1,000 tons)	2020 ¹ (1,000 tons)
United States	5,945.0	5,213.0

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

Cotton Production - United States

Million bales



Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre		Production	
	2019 (1,000 acres)	2020 (1,000 acres)	2019 (tons)	2020 (tons)	2019 (1,000 tons)	2020 (1,000 tons)
Arizona	280	270	8.30	8.60	2,324	2,322
California	580	435	7.10	6.70	4,118	2,915
Colorado	730	710	3.70	3.50	2,701	2,485
Idaho	1,010	1,010	4.40	4.40	4,444	4,444
Illinois	200	240	3.50	3.20	700	768
Indiana	220	220	3.00	3.20	660	704
Iowa	700	730	3.40	3.70	2,380	2,701
Kansas	630	530	4.00	3.20	2,520	1,696
Kentucky	145	140	3.20	3.00	464	420
Michigan	550	550	2.50	2.50	1,375	1,375
Minnesota	730	740	3.10	3.20	2,263	2,368
Missouri	260	230	2.70	2.80	702	644
Montana	2,100	1,900	2.15	2.40	4,515	4,560
Nebraska	950	970	3.80	3.90	3,610	3,783
Nevada	225	175	4.90	4.60	1,103	805
New Mexico	160	155	4.90	4.40	784	682
New York	290	280	2.20	2.00	638	560
North Dakota	1,220	1,450	1.80	1.60	2,196	2,320
Ohio	330	320	2.90	2.70	957	864
Oklahoma	205	220	3.00	3.00	615	660
Oregon	400	370	4.70	4.80	1,880	1,776
Pennsylvania	290	295	3.00	3.10	870	915
South Dakota	1,900	1,850	2.35	2.20	4,465	4,070
Texas	120	110	4.80	3.90	576	429
Utah	510	520	4.30	4.10	2,193	2,132
Virginia	45	40	3.00	3.40	135	136
Washington	330	400	4.60	4.60	1,518	1,840
Wisconsin	880	740	2.40	2.80	2,112	2,072
Wyoming	620	610	2.70	2.90	1,674	1,769
Other States ¹	133	142	2.88	2.89	383	410
United States	16,743	16,352	3.28	3.22	54,875	52,625

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 2020 Summary*.

All Other Hay Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre		Production	
	2019 (1,000 acres)	2020 (1,000 acres)	2019 (tons)	2020 (tons)	2019 (1,000 tons)	2020 (1,000 tons)
Alabama ¹	700	720	2.50	3.00	1,750	2,160
Arkansas	1,250	1,340	2.20	1.90	2,750	2,546
California	430	390	3.90	4.20	1,677	1,638
Colorado	730	700	1.85	1.70	1,351	1,190
Georgia ¹	560	610	2.75	3.00	1,540	1,830
Idaho	290	290	2.30	2.60	667	754
Illinois	220	250	2.00	2.40	440	600
Indiana	300	280	2.10	2.00	630	560
Iowa	320	330	2.30	2.60	736	858
Kansas	1,650	2,200	2.30	1.80	3,795	3,960
Kentucky	1,800	1,800	2.20	2.70	3,960	4,860
Louisiana ¹	390	380	2.50	2.70	975	1,026
Michigan	230	230	2.10	1.30	483	299
Minnesota	370	360	1.90	1.60	703	576
Mississippi ¹	610	620	2.30	2.20	1,403	1,364
Missouri	3,100	3,000	2.15	2.10	6,665	6,300
Montana	900	950	1.90	1.80	1,710	1,710
Nebraska	1,500	1,700	1.65	1.30	2,475	2,210
New York	890	800	1.80	1.50	1,602	1,200
North Carolina	810	770	2.30	2.40	1,863	1,848
North Dakota	1,200	1,050	1.60	1.60	1,920	1,680
Ohio	590	580	2.00	1.90	1,180	1,102
Oklahoma	2,800	2,700	1.90	1.70	5,320	4,590
Oregon	570	600	2.60	2.60	1,482	1,560
Pennsylvania	920	900	2.30	1.80	2,116	1,620
South Dakota	1,450	1,500	1.75	1.60	2,538	2,400
Tennessee	1,750	1,800	2.30	2.15	4,025	3,870
Texas	4,800	4,700	1.80	2.30	8,640	10,810
Virginia	1,100	1,130	2.20	2.35	2,420	2,656
Washington	310	300	3.00	2.80	930	840
West Virginia	500	510	1.70	1.90	850	969
Wisconsin	420	330	1.60	1.90	672	627
Wyoming	530	510	1.55	1.80	822	918
Other States ²	1,692	1,699	2.30	2.31	3,899	3,922
United States	35,682	36,029	2.07	2.08	73,989	75,053

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 2020 Summary*.

Sugarbeet Area Planted and Harvested – States and United States: 2019 and 2020

[Includes updates to planted and harvested area previously published]

State	Area planted		Area harvested	
	2019	2020	2019	2020 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	24.5	24.0	24.5	23.9
Colorado	25.1	24.5	24.4	24.0
Idaho	171.0	174.0	165.0	172.0
Michigan	146.0	157.0	145.0	154.0
Minnesota	424.0	432.0	336.0	425.0
Montana	41.8	43.5	36.5	43.3
Nebraska	44.0	46.3	42.1	45.8
North Dakota	212.0	221.0	170.0	219.0
Oregon	10.0	10.0	9.8	9.4
Washington	2.0	1.9	2.0	1.9
Wyoming	31.6	31.0	24.0	30.2
United States	1,132.0	1,165.2	979.3	1,148.5

¹ Forecasted.

Sugarbeet Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

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

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California ¹	24.5	23.9	44.1	45.3	45.3	1,080	1,083
Colorado	24.4	24.0	30.7	32.9	32.9	749	790
Idaho	165.0	172.0	39.0	40.2	40.2	6,435	6,914
Michigan	145.0	154.0	28.6	29.4	29.2	4,147	4,497
Minnesota	336.0	425.0	25.0	28.4	28.4	8,400	12,070
Montana	36.5	43.3	31.6	33.3	33.5	1,153	1,451
Nebraska	42.1	45.8	25.4	30.6	30.6	1,069	1,401
North Dakota	170.0	219.0	26.0	28.4	28.4	4,420	6,220
Oregon	9.8	9.4	38.5	40.0	40.2	377	378
Washington	2.0	1.9	45.4	47.3	47.5	91	90
Wyoming	24.0	30.2	28.3	30.5	30.5	679	921
United States	979.3	1,148.5	29.2	31.2	31.2	28,600	35,815

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: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre ¹			Production ¹	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	410.7	413.0	43.0	43.6	43.9	17,644	18,131
Louisiana	469.0	484.0	28.1	30.9	30.5	13,161	14,762
Texas	33.5	35.3	33.8	33.3	33.7	1,132	1,190
United States	913.2	932.3	35.0	36.6	36.6	31,937	34,083

¹ Net tons.

Dry Edible Bean Area Planted and Harvested – States and United States: 2019 and 2020

[Includes updates to planted and harvested area previously published. Excludes beans grown for garden seed and chickpeas]

State	Area planted		Area harvested	
	2019	2020	2019	2020 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	27.4	26.0	27.4	26.0
Colorado	37.0	58.0	33.8	54.0
Idaho	47.0	70.0	45.0	68.0
Michigan	185.0	260.0	180.0	257.0
Minnesota	210.0	275.0	201.0	263.0
Nebraska	120.0	165.0	97.0	149.0
North Dakota	615.0	820.0	550.0	800.0
Washington	25.0	41.0	25.0	40.0
Wyoming	21.0	28.0	17.3	26.0
United States	1,287.4	1,743.0	1,176.5	1,683.0

¹ Forecasted.

Dry Edible Bean Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

[Excludes beans grown for garden seed and chickpeas]

State	Area harvested		Yield per acre ¹		Production ¹	
	2019	2020	2019	2020	2019	2020
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
California	27.4	26.0	2,660	2,400	729	624
Colorado	33.8	54.0	1,840	2,020	623	1,091
Idaho	45.0	68.0	2,370	2,450	1,067	1,666
Michigan	180.0	257.0	2,030	2,350	3,662	6,040
Minnesota	201.0	263.0	2,040	2,220	4,101	5,839
Nebraska	97.0	149.0	1,940	2,340	1,883	3,487
North Dakota	550.0	800.0	1,400	1,820	7,691	14,560
Washington	25.0	40.0	2,660	2,600	665	1,040
Wyoming	17.3	26.0	2,250	2,450	390	637
United States	1,176.5	1,683.0	1,769	2,079	20,811	34,984

¹ Clean basis.

Tobacco Area Harvested, Yield, and Production – States and United States: 2019 and Forecasted October 1, 2020

State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Georgia	9,000	7,200	2,100	2,300	2,300	18,900	16,560
Kentucky	57,400	50,200	2,150	1,967	2,156	123,390	108,210
North Carolina	117,400	102,300	1,999	1,700	1,800	234,700	184,095
Pennsylvania	5,700	4,900	2,509	2,400	2,582	14,300	12,650
South Carolina	8,300	6,000	1,900	1,500	1,600	15,770	9,600
Tennessee	13,300	12,200	2,292	2,453	2,474	30,490	30,180
Virginia	16,020	12,650	1,898	2,178	2,078	30,406	26,290
United States	227,120	195,450	2,060	1,880	1,983	467,956	387,585

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2019 and Forecasted October 1, 2020

Class, type, and State	Area harvested		Yield per acre			Production	
	2019	2020	2019	2020		2019	2020
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Class 1, Flue-cured (11-14)							
Georgia	9,000	7,200	2,100	2,300	2,300	18,900	16,560
North Carolina	117,000	102,000	2,000	1,700	1,800	234,000	183,600
South Carolina	8,300	6,000	1,900	1,500	1,600	15,770	9,600
Virginia	15,000	12,000	1,900	2,200	2,100	28,500	25,200
United States	149,300	127,200	1,990	1,772	1,847	297,170	234,960
Class 2, Fire-cured (21-23)							
Kentucky	9,500	8,000	2,900	2,900	3,000	27,550	24,000
Tennessee	6,300	5,700	2,800	2,950	3,000	17,640	17,100
Virginia	320	250	1,800	1,900	1,800	576	450
United States	16,120	13,950	2,839	2,903	2,978	45,766	41,550
Class 3A, Light air-cured							
Type 31, Burley							
Kentucky	41,000	36,000	1,900	1,700	1,900	77,900	68,400
North Carolina	400	300	1,750	1,650	1,650	700	495
Pennsylvania	2,500	2,200	2,600	2,400	2,700	6,500	5,940
Tennessee	4,000	2,800	1,600	1,450	1,500	6,400	4,200
Virginia	700	400	1,900	1,700	1,600	1,330	640
United States	48,600	41,700	1,910	1,717	1,911	92,830	79,675
Type 32, Southern Maryland Belt							
Pennsylvania	1,000	400	2,300	2,400	2,400	2,300	960
United States	1,000	400	2,300	2,400	2,400	2,300	960
Total light air-cured (31-32)	49,600	42,100	1,918	1,723	1,915	95,130	80,635
Class 3B, Dark air-cured (35-37)							
Kentucky	6,900	6,200	2,600	2,300	2,550	17,940	15,810
Tennessee	3,000	3,700	2,150	2,500	2,400	6,450	8,880
United States	9,900	9,900	2,464	2,373	2,494	24,390	24,690
Class 4, Cigar filler							
Type 41, Pennsylvania Seedleaf							
Pennsylvania	2,200	2,300	2,500	2,400	2,500	5,500	5,750
United States	2,200	2,300	2,500	2,400	2,500	5,500	5,750
All tobacco							
United States	227,120	195,450	2,060	1,880	1,983	467,956	387,585

Utilized Production of Citrus Fruits by Crop – States and United States: 2019-2020 and Forecasted October 1, 2020

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

Crop and State	Utilized production boxes ¹		Utilized production ton equivalent	
	2019-2020	2020-2021	2019-2020	2020-2021
	(1,000 boxes)	(1,000 boxes)	(1,000 tons)	(1,000 tons)
Oranges				
California, all	53,300	50,500	2,132	2,020
Early, mid, and Navel ²	44,300	42,000	1,772	1,680
Valencia	9,000	8,500	360	340
Florida, all	67,300	57,000	3,028	2,565
Early, mid, and Navel ²	29,650	23,000	1,334	1,035
Valencia	37,650	34,000	1,694	1,530
Texas, all	1,340	1,500	57	64
Early, mid, and Navel ²	1,150	1,300	49	55
Valencia	190	200	8	9
United States, all	121,940	109,000	5,217	4,649
Early, mid, and Navel ²	75,100	66,300	3,155	2,770
Valencia	46,840	42,700	2,062	1,879
Grapefruit				
California	3,800	3,800	152	152
Florida, all	4,850	4,500	207	191
Red ³	4,060	(NA)	173	(NA)
White ³	790	(NA)	34	(NA)
Texas	4,400	4,900	176	196
United States	13,050	13,200	535	539
Tangerines and mandarins ⁴				
California	22,000	23,000	880	920
Florida	1,020	1,100	48	52
United States	23,020	24,100	928	972
Lemons				
Arizona	1,800	1,300	72	52
California	25,700	22,000	1,028	880
United States	27,500	23,300	1,100	932

(NA) Not available.

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

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

³ Estimates discontinued in 2020-2021.

⁴ Includes tangelos and tangors.

Pecan Production by Variety – States and United States: 2019 and Forecasted October 1, 2020

State and variety	Utilized production (in-shell basis)	
	2019 (1,000 pounds)	2020 (1,000 pounds)
Arizona	36,100	37,000
Improved	36,100	37,000
Georgia	73,000	125,000
Improved	73,000	125,000
New Mexico	87,800	86,000
Improved	87,800	86,000
Oklahoma	21,200	9,000
Improved	4,240	1,890
Native and seedling	16,960	7,110
Texas	37,500	35,000
Improved	30,000	27,000
Native and seedling	7,500	8,000
United States	255,600	292,000
Improved	231,140	276,890
Native and seedling	24,460	15,110

Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2019 and 2020

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

Crop	Area planted		Area harvested	
	2019	2020	2019	2020
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Grains and hay				
Barley	2,772	2,621	2,221	2,133
Corn for grain ¹	89,745	90,978	81,337	82,527
Corn for silage	(NA)		6,615	
Hay, all	(NA)	(NA)	52,425	52,381
Alfalfa	(NA)	(NA)	16,743	16,352
All other	(NA)	(NA)	35,682	36,029
Oats	2,830	2,984	828	1,004
Proso millet	506	511	465	
Rice	2,540	3,037	2,472	2,991
Rye	1,855	1,955	310	330
Sorghum for grain ¹	5,265	5,790	4,675	5,000
Sorghum for silage	(NA)		339	
Wheat, all	45,485	44,349	37,394	36,746
Winter	31,474	30,415	24,592	23,024
Durum	1,341	1,684	1,177	1,662
Other spring	12,670	12,250	11,625	12,060
Oilseeds				
Canola	2,040.0	1,852.0	1,909.5	1,812.0
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	374	355	319	328
Mustard seed	98.0	98.0	90.0	93.0
Peanuts	1,432.7	1,665.2	1,389.7	1,623.2
Rapeseed	11.3	12.5	10.4	11.8
Safflower	165.8	145.0	152.7	137.5
Soybeans for beans	76,100	83,105	74,939	82,289
Sunflower	1,350.6	1,698.5	1,253.5	1,622.5
Cotton, tobacco, and sugar crops				
Cotton, all	13,735.7	12,115.5	11,612.5	9,005.3
Upland	13,507.0	11,915.0	11,389.0	8,812.0
American Pima	228.7	200.5	223.5	193.3
Sugarbeets	1,132.0	1,165.2	979.3	1,148.5
Sugarcane	(NA)	(NA)	913.2	932.3
Tobacco	(NA)	(NA)	227.1	195.5
Dry beans, peas, and lentils				
Chickpeas	451.4	254.0	404.0	249.2
Dry edible beans	1,287.4	1,743.0	1,176.5	1,683.0
Dry edible peas	1,103.0	999.0	1,052.0	949.0
Lentils	486.0	518.0	431.0	486.0
Potatoes and miscellaneous				
Hops	(NA)	(NA)	56.5	59.2
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		52.4	
Potatoes	963.3	921.0	937.3	910.3
Spearmint oil	(NA)		18.5	

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2019 and 2020 (continued)

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

Crop	Yield per acre		Production	
	2019	2020	2019 (1,000)	2020 (1,000)
Grains and hay				
Barley bushels	77.7	77.5	172,499	165,324
Corn for grain bushels	167.5	178.4	13,619,928	14,721,705
Corn for silage tons	20.2		133,522	
Hay, all tons	2.46	2.44	128,864	127,678
Alfalfa tons	3.28	3.22	54,875	52,625
All other tons	2.07	2.08	73,989	75,053
Oats bushels	64.3	65.1	53,258	65,355
Proso millet bushels	35.7		16,608	
Rice ² cwt	7,471	7,567	184,675	226,336
Rye bushels	34.3	34.9	10,622	11,532
Sorghum for grain bushels	73.0	74.1	341,460	370,585
Sorghum for silage tons	11.9		4,019	
Wheat, all bushels	51.7	49.7	1,932,017	1,825,820
Winter bushels	53.6	50.9	1,316,963	1,171,022
Durum bushels	45.7	41.4	53,959	68,808
Other spring bushels	48.2	48.6	561,095	585,990
Oilseeds				
Canola pounds	1,781	1,759	3,400,865	3,186,670
Cottonseed tons	(X)	(X)	5,945.0	5,213.0
Flaxseed bushels	20.0		6,395	
Mustard seed pounds	706		63,580	
Peanuts pounds	3,934	4,125	5,466,487	6,695,620
Rapeseed pounds	2,160		22,464	
Safflower pounds	1,272		194,295	
Soybeans for beans bushels	47.4	51.9	3,551,908	4,267,890
Sunflower pounds	1,560	1,730	1,956,035	2,807,115
Cotton, tobacco, and sugar crops				
Cotton, all ² bales	823	909	19,912.5	17,045.0
Upland ² bales	810	899	19,227.0	16,500.0
American Pima ² bales	1,472	1,353	685.5	545.0
Sugarbeets tons	29.2	31.2	28,600	35,815
Sugarcane tons	35.0	36.6	31,937	34,083
Tobacco pounds	2,060	1,983	467,956	387,585
Dry beans, peas, and lentils				
Chickpeas ² cwt	1,544	1,561	6,237	3,889
Dry edible beans ² cwt	1,769	2,079	20,811	34,984
Dry edible peas ² cwt	2,124	1,953	22,346	18,534
Lentils ² cwt	1,250	1,338	5,388	6,504
Potatoes and miscellaneous				
Hops pounds	1,981	1,982	112,041.2	117,229.0
Maple syrup gallons	(NA)	(NA)	4,180	4,372
Mushrooms pounds	(NA)	(NA)	831,724	816,367
Peppermint oil pounds	104		5,452	
Potatoes cwt	453		424,419	
Spearmint oil pounds	130		2,413	

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Yield in pounds.

Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2019 and 2020

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

Crop	Area planted		Area harvested	
	2019	2020	2019	2020
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,121,800	1,060,690	898,820	863,200
Corn for grain ¹	36,318,900	36,817,890	32,916,270	33,397,850
Corn for silage	(NA)		2,677,020	
Hay, all ²	(NA)	(NA)	21,215,870	21,198,070
Alfalfa	(NA)	(NA)	6,775,720	6,617,490
All other	(NA)	(NA)	14,440,150	14,580,580
Oats	1,145,270	1,207,590	335,080	406,310
Proso millet	204,770	206,800	188,180	
Rice	1,027,910	1,229,040	1,000,390	1,210,430
Rye	750,700	791,170	125,450	133,550
Sorghum for grain ¹	2,130,690	2,343,160	1,891,930	2,023,450
Sorghum for silage	(NA)		137,190	
Wheat, all ²	18,407,320	17,947,600	15,132,980	14,870,740
Winter	12,737,210	12,308,650	9,952,140	9,317,580
Durum	542,690	681,500	476,320	672,590
Other spring	5,127,420	4,957,450	4,704,520	4,880,560
Oilseeds				
Canola	825,570	749,490	772,760	733,300
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	151,350	143,660	129,100	132,740
Mustard seed	39,660	39,660	36,420	37,640
Peanuts	579,800	673,890	562,400	656,890
Rapeseed	4,570	5,060	4,210	4,780
Safflower	67,100	58,680	61,800	55,640
Soybeans for beans	30,796,910	33,631,760	30,327,060	33,301,540
Sunflower	546,570	687,370	507,280	656,610
Cotton, tobacco, and sugar crops				
Cotton, all ²	5,558,700	4,903,020	4,699,460	3,644,350
Upland	5,466,150	4,821,880	4,609,010	3,566,130
American Pima	92,550	81,140	90,450	78,230
Sugarbeets	458,100	471,540	396,310	464,780
Sugarcane	(NA)	(NA)	369,560	377,290
Tobacco	(NA)	(NA)	91,910	79,100
Dry beans, peas, and lentils				
Chickpeas	182,680	102,790	163,490	100,850
Dry edible beans	521,000	705,370	476,120	681,090
Dry edible peas	446,370	404,290	425,730	384,050
Lentils	196,680	209,630	174,420	196,680
Potatoes and miscellaneous				
Hops	(NA)	(NA)	22,880	23,940
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		21,210	
Potatoes	389,830	372,720	379,310	368,390
Spearmint oil	(NA)		7,490	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States:
2019 and 2020 (continued)**

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

Crop	Yield per hectare		Production	
	2019	2020	2019	2020
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	4.18	4.17	3,755,720	3,599,510
Corn for grain	10.51	11.20	345,962,110	373,948,530
Corn for silage	45.25		121,129,120	
Hay, all ²	5.51	5.46	116,903,450	115,827,530
Alfalfa	7.35	7.21	49,781,760	47,740,600
All other	4.65	4.67	67,121,690	68,086,940
Oats	2.31	2.33	773,040	948,630
Proso millet	2.00		376,660	
Rice	8.37	8.48	8,376,720	10,266,430
Rye	2.15	2.19	269,810	292,930
Sorghum for grain	4.58	4.65	8,673,480	9,413,290
Sorghum for silage	26.58		3,645,980	
Wheat, all ²	3.47	3.34	52,580,890	49,690,680
Winter	3.60	3.42	35,841,860	31,870,000
Durum	3.08	2.78	1,468,520	1,872,650
Other spring	3.25	3.27	15,270,500	15,948,030
Oilseeds				
Canola	2.00	1.97	1,542,610	1,445,450
Cottonseed	(X)	(X)	5,393,210	4,729,150
Flaxseed	1.26		162,440	
Mustard seed	0.79		28,840	
Peanuts	4.41	4.62	2,479,560	3,037,080
Rapeseed	2.42		10,190	
Safflower	1.43		88,130	
Soybeans for beans	3.19	3.49	96,667,090	116,152,930
Sunflower	1.75	1.94	887,240	1,273,290
Cotton, tobacco, and sugar crops				
Cotton, all ²	0.92	1.02	4,335,440	3,711,110
Upland	0.91	1.01	4,186,190	3,592,450
American Pima	1.65	1.52	149,250	118,660
Sugarbeets	65.47	69.90	25,945,480	32,490,820
Sugarcane	78.40	81.95	28,972,760	30,919,580
Tobacco	2.31	2.22	212,260	175,810
Dry beans, peas, and lentils				
Chickpeas	1.73	1.75	282,910	176,400
Dry edible beans	1.98	2.33	943,970	1,586,850
Dry edible peas	2.38	2.19	1,013,600	840,690
Lentils	1.40	1.50	244,400	295,020
Potatoes and miscellaneous				
Hops	2.22	2.22	50,820	53,170
Maple syrup	(NA)	(NA)	20,900	21,860
Mushrooms	(NA)	(NA)	377,260	370,300
Peppermint oil	0.12		2,470	
Potatoes	50.75		19,251,320	
Spearmint oil	0.15		1,090	

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Total may not add due to rounding.

Fruits and Nuts Production in Domestic Units – United States: 2020 and 2021

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year, except citrus which is for the 2020-2021 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production		
	2020	2021	
Citrus ¹			
Grapefruit	1,000 tons	535	539
Lemons	1,000 tons	1,100	932
Oranges	1,000 tons	5,217	4,649
Tangerines and mandarins	1,000 tons	928	972
Noncitrus			
Apples, commercial	million pounds	10,650.0	
Apricots	tons	34,800	
Avocados	tons		
Blueberries, Cultivated	1,000 pounds		
Blueberries, Wild (Maine)	1,000 pounds		
Cherries, Sweet	tons	334,000	
Cherries, Tart	million pounds	197.0	
Coffee (Hawaii)	1,000 pounds		
Cranberries	barrel	8,970,000	
Dates	tons		
Grapes	tons	7,180,000	
Kiwifruit (California)	tons		
Nectarines (California)	tons		
Olives (California)	tons		
Papayas (Hawaii)	1,000 pounds		
Peaches	tons	645,500	
Pears	tons	800,000	
Plums (California)	tons		
Prunes (California)	tons		
Raspberries, all	1,000 pounds		
Strawberries	1,000 cwt		
Nuts and miscellaneous			
Almonds, shelled (California)	1,000 pounds	3,000,000	
Hazelnuts, in-shell (Oregon)	tons	71,000	
Macadamias (Hawaii)	1,000 pounds		
Pecans, in-shell	1,000 pounds	292,000	
Pistachios (California)	1,000 pounds		
Walnuts, in-shell (California)	tons	780,000	

¹ Production years are 2019-2020 and 2020-2021.

Fruits and Nuts Production in Metric Units – United States: 2020 and 2021

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year, except citrus which is for the 2020-2021 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2020 (metric tons)	2021 (metric tons)
Citrus¹		
Grapefruit	485,340	488,970
Lemons	997,900	845,500
Oranges	4,732,780	4,217,500
Tangerines and mandarins	841,870	881,780
Noncitrus		
Apples, commercial	4,830,760	
Apricots	31,570	
Avocados		
Blueberries, Cultivated		
Blueberries, Wild (Maine)		
Cherries, Sweet	303,000	
Cherries, Tart	89,360	
Coffee (Hawaii)		
Cranberries	406,870	
Dates		
Grapes	6,513,590	
Kiwifruit (California)		
Nectarines (California)		
Olives (California)		
Papayas (Hawaii)		
Peaches	585,590	
Pears	725,750	
Plums (California)		
Prunes (California)		
Raspberries, all		
Strawberries		
Nuts and miscellaneous		
Almonds, shelled (California)	1,360,780	
Hazelnuts, in-shell (Oregon)	64,410	
Macadamias (Hawaii)		
Pecans, in-shell	132,450	
Pistachios (California)		
Walnuts, in-shell (California)	707,600	

¹ Production years are 2019-2020 and 2020-2021.

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2020. Randomly selected plots in corn for grain fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are rounded actual field counts from this survey.

Corn for Grain Plant Population per Acre – Selected States: 2016-2020

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

State and month	2016	2017	2018	2019	2020	State and month	2016	2017	2018	2019	2020
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	31,100	30,800	32,000	31,100	30,600	All corn					
October	31,100	30,900	32,000	30,950	30,400	September ...	25,900	25,950	27,100	25,850	27,450
November	31,100	30,950	32,000	30,900		October	25,950	25,800	26,750	25,850	27,450
Final	31,100	30,950	32,000	30,900		November	26,000	25,700	26,750	25,700	
						Final	26,000	25,700	26,750	25,700	
Indiana						Irrigated					
September	30,200	29,550	30,450	29,300	29,850	September ...	28,200	29,050	30,300	28,300	29,950
October	29,950	29,350	30,400	29,050	29,800	October	28,200	29,000	29,900	28,350	30,100
November	29,800	29,200	30,400	29,000		November	28,300	28,750	29,900	28,300	
Final	29,800	29,200	30,400	28,950		Final	28,300	28,750	29,900	28,300	
Iowa						Non-irrigated					
September	31,250	31,300	31,350	30,850	31,050	September ...	22,900	22,500	23,350	23,300	24,950
October	31,050	31,150	31,150	30,800	31,000	October	23,000	22,200	23,100	23,250	24,750
November	31,050	31,150	31,100	30,750		November	23,000	22,250	23,150	23,000	
Final	31,050	31,150	31,100	30,750		Final	23,000	22,250	23,150	23,000	
Kansas						Ohio					
September	22,550	22,050	22,600	21,350	21,700	September	30,250	29,250	30,550	30,050	29,800
October	22,550	22,100	22,450	21,200	21,650	October	30,100	29,150	30,400	30,100	29,900
November	22,550	22,300	22,450	21,200		November	30,250	29,100	30,400	30,000	
Final	22,550	22,300	22,450	21,200		Final	30,250	29,100	30,400	30,000	
Minnesota						South Dakota					
September	30,800	30,750	30,950	30,700	31,750	September	26,200	26,250	27,000	26,400	25,450
October	30,700	30,550	30,900	30,650	31,800	October	26,100	26,200	26,750	26,100	25,400
November	30,550	30,600	30,900	30,550		November	26,000	26,200	27,000	26,000	
Final	30,550	30,600	30,900	30,650		Final	26,000	26,200	27,000	25,900	
Missouri						Wisconsin					
September	27,300	27,850	28,500	28,200	28,200	September	30,100	29,450	31,000	30,250	30,300
October	27,750	27,850	28,400	27,500	28,150	October	29,900	29,100	30,600	30,150	30,400
November	27,800	27,950	28,400	27,600		November	29,800	29,150	30,650	29,750	
Final	27,800	27,950	28,400	27,600		Final	29,800	29,100	30,650	29,850	
						10 State					
						September	29,050	28,800	29,500	28,650	29,000
						October	28,950	28,700	29,350	28,500	28,950
						November	28,950	28,700	29,400	28,450	
						Final	28,950	28,700	29,350	28,450	

Corn for Grain Number of Ears per Acre – Selected States: 2020

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

State and month	2016	2017	2018	2019	2020	State and month	2016	2017	2018	2019	2020
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	30,350	30,200	31,550	30,300	29,900	All corn					
October	30,450	30,300	31,500	30,300	29,800	September	25,700	25,800	27,100	25,850	26,800
November	30,450	30,250	31,500	30,150		October	25,350	26,050	26,750	25,950	26,850
Final	30,450	30,250	31,500	30,150		November	25,400	25,950	26,800	25,700	
						Final	25,400	25,950	26,800	25,700	
Indiana						Irrigated					
September	29,600	28,900	30,000	28,900	29,600	September	27,850	28,650	29,950	28,200	28,900
October	29,400	29,100	29,800	28,700	29,600	October	27,500	28,950	29,350	28,150	28,850
November	29,250	28,850	29,750	28,650		November	27,550	28,750	29,300	28,000	
Final	29,250	28,850	29,750	28,600		Final	27,550	28,750	29,300	28,000	
Iowa						Non-irrigated					
September	30,550	30,600	31,150	30,250	30,600	September	22,850	22,600	23,850	23,500	24,650
October	30,400	30,600	30,900	30,200	30,450	October	22,550	22,800	23,650	23,700	24,800
November	30,500	30,600	30,800	30,100		November	22,550	22,900	23,850	23,400	
Final	30,500	30,600	30,800	30,100		Final	22,550	22,900	23,850	23,400	
Kansas						Ohio					
September	22,650	22,800	22,350	21,550	22,050	September	29,750	29,500	30,750	29,850	29,350
October	22,450	22,600	21,650	22,250	21,250	October	29,200	29,250	30,300	29,750	29,700
November	22,450	22,650	21,700	22,200		November	29,600	29,150	30,300	29,550	
Final	22,450	22,650	21,700	22,200		Final	29,600	29,150	30,300	29,550	
Minnesota						South Dakota					
September	30,550	30,750	30,850	30,050	31,750	September	25,650	26,250	28,100	26,450	25,550
October	30,350	30,850	30,850	29,800	31,850	October	25,350	26,150	27,750	25,300	25,550
November	30,250	30,850	30,800	29,650		November	25,450	26,200	27,950	25,000	
Final	30,250	30,600	30,800	29,700		Final	25,450	25,850	28,050	24,900	
Missouri						Wisconsin					
September	26,900	27,750	27,400	26,950	27,650	September	29,300	28,950	30,700	29,850	30,050
October	27,150	27,800	27,300	26,950	27,600	October	28,900	28,800	30,450	30,250	30,400
November	27,150	27,850	27,300	27,100		November	28,750	28,600	30,450	29,850	
Final	27,150	27,850	27,300	27,100		Final	28,750	28,550	30,450	29,950	
						10-State					
						September	28,550	28,550	29,350	28,200	28,650
						October	28,350	28,550	29,100	28,200	28,600
						November	28,400	28,500	29,100	28,050	
						Final	28,400	28,450	29,100	28,050	

Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2016-2020

Year	October		November		
	Dent stage ¹	Mature ²	Dent stage ¹	Mature ²	
	(percent)	(percent)	(percent)	(percent)	
2016		17	73	(Z)	96
2017		41	51	(Z)	96
2018		13	80	(Z)	96
2019		49	29	1	94
2020		25	68		

(NA) Not available.

(X) Not applicable.

(Z) Less than half of the unit shown.

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

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

Soybean Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 11 soybean-producing States during 2020. Randomly selected plots in soybean fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

Soybean Pods with Beans per 18 Square Feet – Selected States: 2020

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

State and month	2016	2017	2018	2019	2020	State and month	2016	2017	2018	2019	2020
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						Missouri					
September	1,884	1,992	1,841	1,759	1,630	September	1,881	2,041	1,777	1,719	1,977
October	1,805	1,898	1,795	1,731	1,527	October	2,006	2,172	1,899	1,754	2,093
November	1,820	2,039	1,943	1,717		November	2,123	2,253	1,948	1,898	
Final	1,826	2,075	1,973	1,828		Final	2,164	2,239	1,961	1,921	
Illinois						Nebraska					
September	1,969	1,917	2,132	1,696	2,019	September	1,947	1,653	1,736	1,669	1,943
October	2,109	1,886	2,225	1,683	2,127	October	2,036	1,795	2,071	1,777	2,002
November	2,193	1,947	2,249	1,601		November	2,074	1,853	2,174	1,722	
Final	2,197	1,947	2,264	1,603		Final	2,074	1,853	2,174	1,722	
Indiana						North Dakota					
September	1,683	1,795	1,880	1,496	2,056	September	1,395	1,406	1,418	1,147	1,242
October	1,775	1,772	2,001	1,501	1,994	October	1,444	1,430	1,485	1,246	1,439
November	1,873	1,774	2,054	1,569		November	1,442	1,465	1,515	1,253	
Final	1,873	1,774	2,052	1,561		Final	1,470	1,451	1,514	1,195	
Iowa						Ohio					
September	1,808	1,644	1,823	1,601	1,675	September	1,773	1,765	2,019	1,563	1,811
October	1,801	1,670	1,984	1,642	1,933	October	1,715	1,714	2,180	1,760	1,972
November	1,861	1,717	2,082	1,660		November	1,782	1,828	2,210	1,587	
Final	1,890	1,735	2,097	1,682		Final	1,782	1,823	2,210	1,587	
Kansas						South Dakota					
September	1,467	1,487	1,552	1,561	1,650	September	1,561	1,511	1,649	1,504	1,688
October	1,643	1,472	1,456	1,604	1,699	October	1,639	1,472	1,867	1,316	1,720
November	1,720	1,561	1,548	1,596		November	1,709	1,457	1,822	1,331	
Final	1,737	1,561	1,558	1,583		Final	1,665	1,457	1,724	1,353	
Minnesota						11-State					
September	1,614	1,359	1,605	1,465	1,607	September	1,741	1,678	1,786	1,561	1,780
October	1,625	1,407	1,616	1,474	1,782	October	1,800	1,692	1,895	1,593	1,882
November	1,658	1,480	1,569	1,458		November	1,862	1,751	1,938	1,582	
Final	1,658	1,480	1,569	1,458		Final	1,870	1,752	1,938	1,586	

Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2016-2020

Year	October	November
	Mature ¹	Mature ¹
	(percent)	(percent)
2016	53	93
2017	49	93
2018	57	93
2019	25	91
2020	64	

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

Cotton Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in four cotton-producing States during 2020. Randomly selected plots in cotton fields are visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

Cotton Cumulative Boll Counts – Selected States: 2016-2020

[Includes small bolls (less than one inch in diameter), large unopened bolls (at least one inch in diameter), open bolls, partially opened bolls, and burrs per 40 feet of row. November, December, and Final exclude small bolls. Blank data cells indicate estimation period has not yet begun]

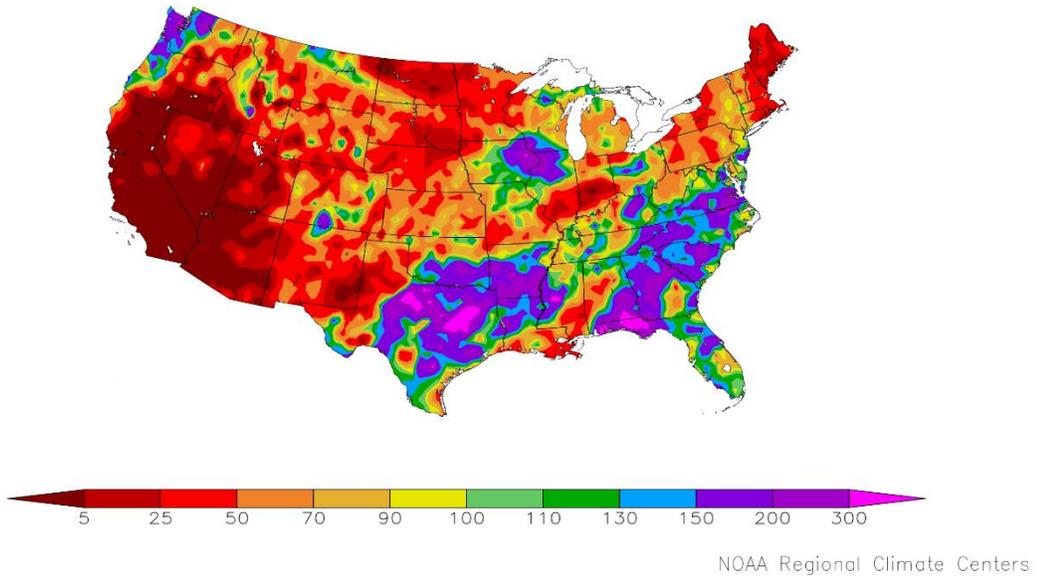
State and month	2016	2017	2018	2019	2020
	(number)	(number)	(number)	(number)	(number)
Arkansas					
September	800	911	891	900	994
October	769	839	910	896	849
November	779	825	892	925	
December	779	825	892	900	
Final	779	825	892	900	
Georgia					
September	562	593	605	598	606
October	668	608	737	783	747
November	719	680	712	790	
December	725	684	719	799	
Final	725	684	713	803	
Louisiana ¹					
September	654	648	759	(NA)	(NA)
October	760	667	734	(NA)	(NA)
November	784	665	739	(NA)	
December	784	665	739	(NA)	
Final	784	665	739	(NA)	
Mississippi					
September	953	904	871	944	900
October	942	810	895	895	867
November	974	804	846	904	
December	974	797	846	901	
Final	974	797	846	901	
North Carolina ¹					
September	558	637	601	(NA)	(NA)
October	599	705	641	(NA)	(NA)
November	660	769	714	(NA)	
December	660	769	719	(NA)	
Final	660	769	719	(NA)	
Texas					
September	467	592	570	458	576
October	474	602	576	438	581
November	528	603	553	456	
December	547	615	583	459	
Final	546	614	582	461	
4-State ²					
September	532	633	627	551	645
October	554	635	661	562	661
November	604	649	640	579	
December	618	656	659	580	
Final	618	656	657	593	

(NA) Not available.

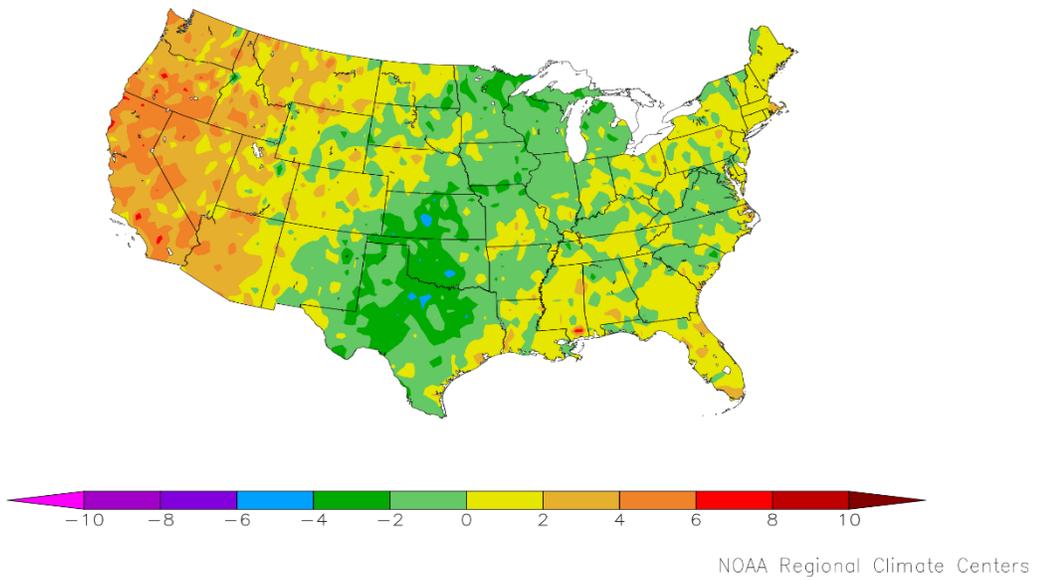
¹ Objective yield survey discontinued in 2019.

² 6-State total prior to 2019.

Percent of Normal Precipitation (%)
9/1/2020 – 9/30/2020



Departure from Normal Temperature (F)
9/1/2020 – 9/30/2020



September Weather Summary

The tropical Atlantic Basin remained active in September, with Hurricane Sally making landfall on the 16th in Alabama and Tropical Storm Beta arriving on the 21st along the middle Texas coast. Sally, a category 2 hurricane at landfall with sustained winds near 105 mph, battered crops and caused extensive flooding in southern Alabama and western Florida, with heavy rain extending as far north as southern Virginia. Beta's main impact was heavy rain, which spread northeastward from coastal Texas across the Mississippi Delta and into the Southeast. By September 27, topsoil moisture was rated at least one-fifth surplus in eight states—three in the Mississippi Delta and five along the Atlantic Coast from Florida to Maryland—led by Louisiana at 37 percent.

Farther north, mid-month rainfall generally arrived too late to benefit drought-stressed summer crops in Iowa and environs. Surrounding that wet area, short-term dryness developed or intensified in the Ohio Valley and upper Midwest. By September 27, Indiana led the Midwest with topsoil moisture rated 75 percent very short to short. Meanwhile, drought continued to worsen in New England, with topsoil moisture rated 100 percent very short to very short by September 27 in Maine and New Hampshire. As the month ended, however, beneficial rain overspread the Northeast.

Aside from a heavy-rainfall event in portions of Oklahoma and Texas, mostly dry weather covered the Plains. The rain (and snow) that fell was associated with an early-season cold snap, which resulted in freezes and potential harm to immature crops across portions of the northern Plains and far upper Midwest, particularly in eastern North Dakota, on September 8-9. By late September, topsoil moisture rated very short to short across the Plains ranged from 39 percent in Oklahoma to 77 percent in Colorado. On September 27, Texas led the Nation with 35 percent of its cotton rated very poor to poor, while Colorado led—among major production states—with 35 percent of its corn rated very poor to poor.

Elsewhere, Western dryness and periods of extreme heat led to two additional flare-ups in wildfire activity. From January to October, more than 7.5 million acres of vegetation burned Nationally, with much of that acreage occurring in the Pacific Coast States since mid-August. California's year-to-date total surpassed more than 4 million acres, including five of the six largest wildfires in modern state history. On September 27, more than one-half of rangeland and pastures were rated very poor to poor in all Western States except Idaho, Nevada, and Utah, led by Oregon at 82 percent. Late in the month, more than three-quarters (76 percent) of the 11-state Western region was experiencing drought, according to the *U.S. Drought Monitor*, while air-quality degradations plagued a broad area.

September Agricultural Summary

September was warmer than average for most of the western third of the Nation. Parts of California, the Pacific Northwest, the northern Rockies, and the Southwest recorded temperatures 4°F or more above normal for the month. In contrast, large parts of the Great Lakes, the Great Plains, the Mid-Atlantic, and Texas were cooler than normal. Pockets in Kansas, Oklahoma, and Texas recorded temperatures 4°F or more below normal. Most of the western half of the nation remained drier than normal for the month, as did most of the Northeast. However, above normal precipitation fell on large parts of the Corn Belt, the Delta, the Mid-Atlantic, Oklahoma, the Southeast, and Texas. Due to the effects of Hurricane Sally, parts of the Florida Panhandle recorded 15 inches or more of rain for the month.

By September 6, ninety-seven percent of the corn acreage was at or beyond the dough stage, 10 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. By September 6, seventy-nine percent of this year's crop acreage was denting, 28 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Denting progress advanced 10 percentage points or more in 15 of the 18 estimating States during the week. Twenty-five percent of the Nation's corn acreage was mature by September 6, fifteen percentage points ahead of last year and 6 percentage points ahead of the 5-year average. By September 20, ninety-five percent of this year's crop acreage was denting, 19 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Fifty-nine percent of the Nation's corn acreage was mature by September 20, thirty-three percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Corn maturing advanced 10 percentage points or more in 16 of the 18 estimating States. Eight percent of the 2020 acreage was harvested by September 20, two percentage points ahead of last year but 2 percentage points behind the 5-year average harvest pace. Eighty-seven percent of the Nation's corn acreage was mature by October 4, thirty-three percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Corn mature advanced 10 percentage points or more in 12 of the 18 estimating States. By October 4, Twenty-five percent of the 2020

acres was harvested, 11 percentage points ahead of last year and 1 percentage point ahead of the 5-year average harvest pace. As of October 4, sixty-two percent of the Nation's corn acreage was rated in good to excellent condition, 6 percentage points above the same time last year.

Soybeans leaves dropping advanced to 20 percent complete Nationally by September 6, thirteen percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Nebraska and South Dakota had advances of 20 percentage points or more from the previous week. Leaves dropping advanced to 59 percent complete Nationally by September 20, thirty percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 6 percent complete by September 20, 4 percentage points ahead of last year but equal to the 5-year average. Leaves dropping advanced to 85 percent complete Nationally by October 4, eighteen percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 38 percent complete by week's end, 26 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Harvest progress advanced 25 percentage points or more for the week in Iowa, Minnesota, Nebraska, North Dakota, and South Dakota. On October 4, sixty-four percent of the Nation's soybean acreage was rated in good to excellent condition, 11 percentage points above the same time last year.

Nationwide, producers had sown 10 percent of the intended 2021 winter wheat acreage by September 13, four percentage points ahead of last year and 2 percentage points ahead of the 5-year average. Planting progress was most advanced in Washington at 44 percent planted, 18 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Nationwide, producers had sown 35 percent of the intended 2021 winter wheat acreage by September 27, one percentage point ahead of last year and 2 percentage points ahead of the 5-year average. Planting progress was most advanced in Colorado at 66 percent planted, 6 percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Nationwide, 10 percent of the winter wheat acreage had emerged by September 27, two percentage points ahead of both last year and the 5-year average. Nationwide, producers had sown 52 percent of the intended 2021 winter wheat acreage by October 4, four percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Planting progress advanced by 20 percentage points or more during the week in Colorado, Idaho, Illinois, Kansas, and Nebraska. Nationwide, 24 percent of the winter wheat acreage had emerged by October 4, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average.

By September 6, ninety-six percent of the Nation's cotton acreage had begun setting bolls, 2 percentage points behind the previous year and 1 percentage point behind the 5-year average. Progress was complete or near completion in all estimating states. By September 6, thirty-seven percent of the Nation's cotton had open bolls, 4 percentage points behind last year but 3 percentage points ahead of the 5-year average. By September 20, fifty-seven percent of the Nation's cotton had open bolls, 4 percentage points behind last year but 2 percentage points ahead of the 5-year average. By September 20, eleven percent of the Nation's cotton acreage was harvested, 1 percentage point ahead of both last year and the 5-year average. By October 4, eighty-three percent of the Nation's cotton had open bolls, 2 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. California and Texas showed an increase in bolls opening from the previous week of 20 and 23 percentage points, respectively. By October 4, seventeen percent of the Nation's cotton acreage had been harvested, 5 percentage points behind last year and 3 percentage points behind the 5-year average. As of October 4, forty percent of the 2020 cotton acreage was rated in good to excellent condition, 1 percentage point above the same time last year.

Seventy-four percent of the Nation's sorghum acreage was at or beyond the coloring stage by September 6, thirteen percentage points ahead of last year and 4 percentage points ahead of the 5-year average. By September 6, twenty-nine percent of the Nation's sorghum acreage was mature, 3 percentage points ahead of last year but 4 percentage points behind the 5-year average. Twenty-one percent of the 2020 sorghum acreage was harvested by September 6, one percentage point behind last year and 2 percentage points behind the 5-year average. Ninety-two percent of the Nation's sorghum acreage was at or beyond the coloring stage by September 20, five percentage points ahead of last year and 3 percentage points ahead of the 5-year average. By September 20, fifty-one percent of the Nation's sorghum acreage was mature, 11 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Eighty-eight percent of Texas's sorghum acreage was mature by September 20, equal to last year but 9 percentage points ahead of the 5-year average. Twenty-seven percent of the 2020 sorghum acreage was harvested by September 20, 2 percentage points ahead of last year but 2 percentage points behind the 5-year average. By October 4, seventy-seven percent of the Nation's sorghum acreage was mature, 15 percentage points ahead of last year and

8 percentage points ahead of the 5-year average. Thirty-eight percent of the 2020 sorghum acreage was harvested by October 4, six percentage points ahead of last year but equal to the 5-year average. Eighty-eight percent of Texas' sorghum acreage was harvested by October 4, one percentage point ahead of last year and 13 percentage points ahead of the 5-year average. Fifty-one percent of the Nation's sorghum acreage was rated in good to excellent condition on October 4, 14 percentage points below the same time last year.

Nationally, 26 percent of the rice acreage was harvested by September 6, one percentage point behind last year and 9 percentage points behind the 5-year average. Nationally, 47 percent of the rice acreage was harvested by September 20, eight percentage points behind last year and 12 percentage points behind the 5-year average. As of September 20, seventy-four percent of the Nation's rice acreage was rated in good to excellent condition, 5 percentage points above the same time last year. Nationally, 71 percent of the rice acreage had been harvested by October 4, three percentage points behind last year and 7 percentage points behind the 5-year average. California and Missouri showed an increase from the previous week of 28 and 30 percentage points, respectively.

Ninety-six percent of the Nation's oat acreage was harvested by September 6, eight percentage points ahead of last year and 2 percentage points ahead of the 5-year average. Harvesting of oats was complete or nearing completion in 8 of the 9 estimating States.

By September 6, barley producers had harvested 85 percent of the Nation's barley crop, 6 percentage points ahead of last year but 5 percentage points behind the 5-year average. By September 13, barley producers had harvested 95 percent of the Nation's barley crop, 9 percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Harvesting of barley was nearly complete in all estimating States.

By September 6, eighty-two percent of the spring wheat was harvested, 16 percentage points ahead of last year but 5 percentage points behind the 5-year average. Harvest progress advanced 10 percentage points or more in 4 of the 6 estimating States during the week. By September 20, ninety-six percent of the spring wheat had been harvested, 12 percentage points ahead of last year but equal to the 5-year average. Harvesting of spring wheat was complete or nearing completion in all estimating States.

Four percent of the Nation's peanut acreage was harvested as of September 13, equal to both last year and the 5-year average. Eleven percent of the Nation's peanut acreage was harvested as of September 27, twelve percentage points behind last year and 8 percentage points behind the 5-year average. Seventeen percent of the Nation's peanut acreage was harvested as of October 4, twenty percentage points behind last year and 13 percentage points behind the 5-year average. Harvest progress was at or behind the 5-year average pace for all estimating States. On October 4, sixty-one percent of the Nation's peanut acreage was rated in good to excellent condition, 2 percentage points below the previous week but 7 percentage points above the same time last year.

By September 20, sugarbeet producers had harvested 15 percent of the Nation's crop, 5 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. By October 4, sugarbeet producers had harvested 46 percent of the Nation's crop, 28 percentage points ahead of last year and 16 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average pace in all estimating States. Minnesota and North Dakota showed an increase from the previous week of 32 and 40 percentage points, respectively.

By October 4, eleven percent of this year's sunflower crop was harvested, 10 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average pace in 3 of the 4 estimating States.

Crop Comments

Corn: Acreage updates were made in several States based on a thorough review of all available data. Total planted area, at 91.0 million acres, is down 1 percent from the previous estimate. Acreage harvested for grain is forecast at 82.5 million acres, down 1 percent from the previous forecast, but up 1 percent from last year.

The October 1 corn objective yield data indicate the fourth highest number of ears on record for the combined 10 objective yield States, (Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin).

At 14.7 billion bushels, 2020 corn production for grain is forecast to be the second highest production on record for the United States. The forecasted yield, at 178.4 bushels per acre, is up 7 percent from last year's final estimate of 167.5 bushels per acre. If realized, this would be a record high yield for the United States. Record high yields are forecast for Georgia, Indiana, Kentucky, Louisiana, Michigan, Minnesota, New York, North Dakota, South Carolina, South Dakota, Washington, and Wisconsin.

By September 6, ninety-seven percent of the corn acreage was at or beyond the dough stage, 10 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. By September 6, seventy-nine percent of this year's crop acreage was denting, 28 percentage points ahead of last year and 8 percentage points ahead of average.

Twenty-five percent of the Nation's corn was mature by September 6, fifteen percentage points ahead of last year and 6 percentage points ahead of average. By September 13, eighty-nine percent of this year's corn acreage was denting, 25 percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Forty-one percent of the Nation's corn acreage was mature by September 13, twenty-five percentage points ahead of last year and 9 percentage points ahead of the 5-year average.

Fifty-nine percent of the Nation's corn was mature by September 20, thirty-three percentage points ahead of last year and 10 percentage points ahead of 5-year average. Eight percent of the 2020 acreage was harvested by week's end, 2 percentage points ahead of last year but 2 percentage points behind the 5-year average harvest pace.

Seventy-five percent of the Nation's corn acreage was mature by September 27, thirty-six percentage points ahead of last year and 10 percentage points ahead of the 5 year average. Fifteen percent of the 2020 acreage was harvested by September 27, five percentage points ahead of last year but 1 percentage point behind the 5-year average.

Eighty-seven percent of the Nation's corn acreage was mature by October 4, thirty-three percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Twenty-five percent of the 2020 acreage was harvested by October 4, eleven percentage points ahead of last year and 1 percentage point ahead of the 5-year average harvest pace. As of October 4, sixty-two percent of the Nation's corn was rated in good to excellent condition, 6 percentage points above the same time last year.

Sorghum: Production is forecast at 371 million bushels, up 4 percent from the previous forecast and up 9 percent from last year. Acreage updates were made in several States following a thorough review of all available data. Planted area, at 5.79 million acres, is up 3 percent from the previous estimate and up 10 percent from last year. Area harvested for grain is forecast at 5.0 million acres, up 3 percent from the previous forecast and up 7 percent from 2019. Based on October 1 conditions, yield is forecast at 74.1 bushels per acre, 0.2 bushel higher than the previous forecast and 1.1 bushels per acre above the 2019 yield of 73.0 bushels per acre. Growers are expecting a record high yield in South Dakota.

As of October 4, Seventy-seven percent of the acreage was considered mature, 15 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Thirty-eight percent of the acreage was harvested, 6 percentage points ahead of last year but even with the 5-year average. Fifty-one percent of the acreage was rated in good to excellent condition on October 4, 14 percentage points below the same time last year.

Rice: Production is forecast at 226 million cwt, up 1 percent from the previous forecast and up 23 percent from 2019. Area for harvest is expected to total 2.99 million acres, up less than 1 percent from the previous forecast, and up 21 percent from 2019. Based on conditions as of October 1, the average United States yield is forecast at 7,567 pounds per acre, up 38 pounds per acre from the previous forecast and up 96 pounds per acre from 2019.

As of October 4, seventy-one percent of the rice acreage was harvested, 3 percentage points behind last year and 7 percentage points behind the 5-year average.

Soybeans: Acreage updates were made in several States based on a thorough review of all available data. Planted area, at 83.1 million acres, is down 1 percent from the previous estimate. Harvested area is forecast at 82.3 million acres, down 1 percent from the previous forecast but up 10 percent from 2019.

At 4.27 billion bushels, 2020 soybean production is forecast to be the fourth highest production on record for the United States. The forecasted yield, tied for a record high 51.9 bushels per acre, is unchanged from the previous forecast, but up 4.5 bushels from last year's final estimate of 47.4 bushels per acre, if realized.

The October objective yield data for the combined 11 major soybean-producing states (Arkansas, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Ohio, and South Dakota) indicate a higher pod count compared with the previous year. Compared with final counts for 2019, pod counts are up in 10 of the 11 published states. Illinois showed the greatest increase, up 524 pods per 18 square feet from the previous year.

As of October 4, eighty-five percent of the United States soybean acreage was at or beyond the leaf dropping stage, 18 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Soybean harvest was 38 percent complete as of October 4, twenty-six percentage points ahead of last year and 10 percentage points ahead of the 5-year average. At that time, harvest progress was at or ahead of the respective State 5-year average pace in 10 of the 18 States estimated in the *Crop Progress* report. As of October 4, sixty-four percent of the Nation's soybean acreage was rated in good to excellent condition, 11 percentage points ahead of the same time last year.

If realized, the forecasted yield will be a record high in Indiana, Kentucky, Minnesota, Missouri, Ohio, Pennsylvania, Texas and Wisconsin.

Sunflower: The first production forecast for 2020 is 2.81 billion pounds, up 44 percent from the revised 2019 production of 1.96 billion pounds, and is the highest since 2015. Area planted, at 1.70 million acres, is up 10 percent from the June estimate and up 26 percent from last year. Sunflower growers expect to harvest 1.62 million acres, up 10 percent from the June forecast and up 29 percent from 2019. Acreage updates were made in several States based on a thorough review of all available data. The October yield forecast, at 1,730 pounds per acre, is 170 pounds higher than last year's yield and will be just one pound less than the record high average yield for the Nation, if realized.

As of October 1, higher yields are expected in 5 of the 8 published States compared with last year, with decreases only expected in California, Minnesota, and Texas. The forecasted production in North Dakota, the leading sunflower-producing State this year, is 1.23 billion pounds, an increase of 64 percent from 2019. Compared with last year, the average yield forecast in North Dakota is up 245 pounds per acre from 2019 and will be the highest yield on record, if realized. In South Dakota, the average yield is forecast at 1,867 pounds per acre, up 173 pounds per acre from last year and will represent the second highest yield on record, if realized.

By the beginning of October, harvest was underway in all 4 estimating States published in the weekly *Crop Progress and Condition* report. As of October 4, eleven percent of the Nation's sunflower acreage was harvested, 8 percentage points ahead of the 5-year average pace.

Peanuts: Production is forecast at 6.70 billion pounds, down 1 percent from the previous forecast and up 22 percent from the revised 2019 total of 5.47 billion pounds. Area harvested is expected to total 1.62 million acres, unchanged from the previous forecast and up 17 percent from 2019. Based on conditions as of October 1, the average yield for the United States is forecast at 4,125 pounds per acre, down 60 pounds per acre from the previous month's forecast but up 191 pounds per acre from the revised 2019 yields. Record high production is forecasted in Georgia.

As of October 4, seventeen percent of the 2019 peanut acreage had been harvested, 20 percentage points behind last year and 13 percentage points behind the 5-year average. Sixty-one percent of the United States peanut acreage was rated in good to excellent condition on October 4 compared with 54 percent at the same time last year.

Canola: The first production forecast for 2020 is 3.19 billion pounds, down 6 percent from the 2019 revised production of 3.40 billion pounds. If realized, this will be the third largest production on record for the United States. Area planted, at 1.85 million acres, is down 1 percent from the June estimate and down 9 percent from last year's area. Canola farmers

expect to harvest 1.81 million acres, down 1 percent from June and down 5 percent from 2019. Acreage updates were made in several States based on a thorough review of all available data. Both planted and the harvested area forecast for the Nation will be the fourth largest on record. The October yield forecast, at 1,759 pounds per acre, is 22 pounds below last year's yield but will still represent the fifth highest average yield on record for the Nation, if realized. The yield forecast in Washington will be the highest on record since the published data series began in that State, if realized.

The yield in North Dakota, the largest canola-producing State, is forecast at 1,770 pounds per acre, down 30 pounds from last year's yield. Planted area in North Dakota is estimated at 1.54 million acres, down 9 percent from last year. Planting of the this year's canola crop in North Dakota generally lagged behind both last year's pace and the 5-year average pace. Blooming of the canola crop began in mid to late June, ahead of last year's pace but well behind the 5-year average. As of June 28, twenty-four percent of the canola acreage was blooming, 12 percentage points ahead of last year's pace but 24 percentage points behind the 5-year average pace. Maturation of the crop remained behind last year's pace but ahead of the 5-year average pace through July and into August. Harvest began in mid-August and progressed to 96 percent complete by October 4, twenty-eight percentage points ahead of last year and 4 percentage points ahead of the 5-year average.

Cotton: Upland harvested area for the Nation is expected to total 8.81 million acres, unchanged from the previous forecast but down 23 percent from last year. Expected Pima harvested area, at 193,300 acres, is unchanged from the previous forecast but down 14 percent from last year.

As of October 4, forty percent of the cotton acreage was rated in good to excellent condition, compared with 39 percent at the same time last year. As of October 4, eighty-three percent of the cotton acreage had open bolls, 2 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Seventeen percent of the cotton acreage had been harvested by October 4, five percentage points behind last year and 3 percentage points behind the 5-year average.

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

Ginnings totaled 915,450 running bales prior to October 1, compared with 1,282,950 running bales ginned prior to the same date last year.

Alfalfa and alfalfa mixtures: Production of alfalfa and alfalfa mixture dry hay for 2020 is forecast at 52.6 million tons, up 2 percent from the August forecast but down 4 percent from 2019. Based on October 1 conditions, yields are expected to average 3.22 tons per acre, up 0.06 ton from the August forecast but down 0.06 ton from last year. Harvested area is forecast at 16.4 million acres, unchanged from the previous forecast, and down 2 percent from 2019. Record high yields are forecast in Arizona, Idaho, and Oregon.

Other hay: Production of other hay is forecast at 75.1 million tons, up 2 percent from the August forecast and up 1 percent from 2019. Based on October 1 conditions, the United States yield is expected to average 2.08 tons per acre, up 0.04 from the August forecast and up 0.01 ton from last year. If realized this yield would represent the second highest yield on record. Harvested area is forecast at 36.0 million acres, unchanged from the previous forecast, but up 1 percent from 2019. Record high yields are expected in Alabama, California, Georgia, Idaho, Iowa, Kentucky, and Wyoming.

Dry beans: Production of dry edible beans is forecast at 35.0 million cwt, up 7 percent from the August forecast and up 68 percent from 2019. Area planted is estimated at 1.74 million acres, up 7 percent from the August forecast and up 35 percent from 2019. Area harvested is forecast at 1.68 million acres, up 7 percent from the August forecast and 43 percent above 2019. The yield is forecast at 2,079 pounds per acre, a decrease of 9 pounds from the August forecast, but an increase of 310 pounds from last season.

Tobacco: The 2020 United States all tobacco production is forecast at 388 million pounds, up 5 percent from last month but down 17 percent from 2019. Area harvested, at 195,450 acres, is 14 percent below last year. Yield for the 2020 crop year is forecast at 1,983 pounds per acre, 103 pounds above the previous forecast but 77 pounds below last year. If realized, this will be the lowest tobacco harvested acreage on record.

Sugarbeets: Production of sugarbeets for the 2020 crop year is forecast at 35.8 million tons, up 2 percent from last month and up 25 percent from last year. Area planted, at 1.17 million acres, is up 2 percent from the previous forecast and up 3 percent from last year. Sugarbeet producers expect to harvest 1.15 million acres, up 2 percent from the previous forecast and up 17 percent from 2019. Yield is forecast at 31.2 tons per acre, unchanged from the previous forecast but an increase of 2.0 tons from last year.

In Michigan, 36 percent of the harvest was complete by October 4, well ahead of last year and the five-year average. In Minnesota and North Dakota, weather was favorable for early harvest during September. Cercospora Leaf Spot was of continued concern but was under control with disease management and the help of drier weather the last few weeks of September.

Sugarcane: Production of sugarcane for sugar and seed is forecast at 34.1 million tons, down slightly from last month but up 7 percent from last year. Producers intend to harvest 932,300 acres for sugar and seed during the 2020 crop year, unchanged from the previous forecast but up 2 percent from last year. Yields for sugar and seed are expected to average 36.6 tons per acre, unchanged from last month but up 1.6 tons from 2019

In Louisiana, harvest began at the end of September. In Texas, harvest is expected to begin in mid-October.

Grapefruit: The United States 2020-2021 grapefruit crop is forecast at 539,000 tons, up 1 percent from last season's final utilization. The Texas forecast, at 4.90 million boxes (196,000 tons), is up 11 percent from the 2019-2020 season. The Florida forecast, at 4.50 million boxes (191,000 tons), is down 7 percent from the last season. The California forecast, at 3.80 million boxes (152,000 tons), is unchanged from the last season.

Lemons: The 2020-2021 United States lemon crop is forecast at 932,000 tons, down 15 percent from last season's final utilization. The California forecast, at 22.0 million boxes (880,000 tons), is down 14 percent from the 2019-2020 season. The Arizona forecast, at 1.30 million boxes (52,000 tons), is down 28 percent from last year.

Tangerines and mandarins: The United States tangerine and mandarin crop is forecast at 972,000 tons, up 5 percent from last season's final utilization. The California forecast, at 23.0 million boxes (920,000 tons), is up 5 percent from the previous year. The Florida tangerine and mandarin forecast, at 1.10 million boxes (52,000 tons), is up 8 percent from last year.

Pecans: Production is forecast at 292 million pounds (utilized, in-shell basis), up 14 percent from 2019. Improved varieties are expected to produce 277 million pounds or 95 percent of the total. The native and seedling varieties are expected to produce 15.1 million pounds, making up the remaining 5 percent of production.

Statistical Methodology

Field crop survey procedures: Objective yield and farm operator surveys were conducted between September 24 and October 5 to gather information on expected yield as of October 1. The objective yield surveys for corn, cotton, and soybeans were conducted in the major producing States that usually account for about 75 percent of the United States production. Randomly selected plots were revisited to make current counts. The counts made within each sample plot depend on the crop and the maturity of that crop. In all cases, plant counts are recorded along with other measurements that provide information to forecast the number of ears, bolls, or pods and their weight. The counts are used with similar data from previous years to develop a projected biological yield. The average harvesting loss is subtracted to obtain a net yield. The plots are visited starting in September and are revisited each month until crop maturity when the fruit is harvested and weighed. After the farm operator has harvested the sample field, another plot is sampled to obtain current year harvesting loss. Starting in 2019, NASS eliminated the August objective yield survey for cotton (except Texas), corn, and soybeans.

The farm operator survey was conducted primarily by telephone with some use of mail, internet, and personal interviewers. Approximately 10,200 producers were interviewed during the survey period and asked questions about probable yield. These growers will continue to be surveyed throughout the growing season to provide indications of average yields.

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

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

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

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

Reliability: To assist users in evaluating the reliability of the October 1 production forecast, the “Root Mean Square Error,” a statistical measure based on past performance, is computed. The deviation between the October 1 production forecast and the final estimate is expressed as a percentage of the final estimate. The average of the squared percentage

deviations for the latest 20-year period is computed. The square root of the average becomes statistically the “Root Mean Square Error.” Probability statements can be made concerning expected differences in the current forecast relative to the final end-of-season estimate, assuming that factors affecting this year’s forecast are not different from those influencing recent years. For example, the “Root Mean Square Error” for the October 1 corn for grain production forecast is 1.8 percent. This means that chances are 2 out of 3 that the current production forecast will not be above or below the final estimate by more than 1.8 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 3.1 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the October 1 forecast and the final estimate. Using corn again as an example, changes between the October 1 forecast and the final estimate during the last 20 years have averaged 177 million bushels, ranging from 3 million bushels to 437 million bushels. The October 1 forecast has been below the final estimate 9 times and above 10 times. This does not imply that the October 1 corn forecast this year is likely to understate or overstate final production.

Reliability of October 1 Crop Production Forecasts

[Based on data for the past twenty years]

Crop	Root mean square error	90 percent confidence interval	Difference between forecast and final estimate				
			Production			Years	
			Average	Smallest	Largest	Below final	Above final
	(percent)	(percent)	(millions)	(millions)	(millions)	(number)	(number)
Corn for grain bushels	1.8	3.1	177	3	437	9	10
Hay							
Alfalfa tons	5.1	8.8	2	(Z)	7	3	16
Other tons	4.3	7.4	3	(Z)	6	3	16
Oranges ¹ tons	7.5	13.0	449	2	1,676	3	16
Peanut ¹ pounds	6.8	11.8	280	16	729	11	8
Rice cwt	1.9	3.3	3	(Z)	12	10	9
Sorghum for grain bushels	5.2	9.0	15	3	31	9	10
Soybeans for beans bushels	2.6	4.5	63	1	261	13	6
Sugarbeets for sugar tons	5.5	9.6	1	(Z)	5	8	11
Sugarcane tons	5.9	10.2	1	(Z)	4	10	9
Upland cotton ¹ bales	5.5	9.5	822	76	1,754	8	11

(Z) Less than half of the unit shown.

¹ Quantity is in thousands of units.

USDA, National Agricultural Statistics Service Information Contacts

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

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David Colwell – Current Agricultural Industrial Reports	(202) 720-8800
Becky Sommer – Cotton, Cotton Ginnings, Sorghum	(202) 720-5944
James Johanson – Barley, County Estimates, Hay	(202) 690-8533
Greg Lemmons – Corn, Flaxseed, Proso Millet	(202) 720-9526
Jean Porter – Rye, Wheat	(202) 720-8068
John Stephens – Peanuts, Rice	(202) 720-7688
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369
Fleming Gibson, Head, Fruits, Vegetables and Special Crops Section.....	(202) 720-2127
Anastasiya Osborne – Almonds, Apples, Apricots, Asparagus, Carrots, Coffee, Onions, Plums, Prunes, Sweet Corn, Tobacco	(202) 720-4288
Krishna Rizal – Cauliflower, Celery, Grapefruit, Lemons, Macadamia, Mandarins and tangerines, Mushrooms, Olives, Oranges	(202) 720-5412
Heidi Lanouette – Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins, Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes, Tame Blueberries, Wild Blueberries.....	(202) 720-4285
Fleming Gibson – Artichokes, Cantaloupes, Dry Edible Peas, Green Peas, Lentils, Nectarines, Papayas, Peaches, Snap Beans, Spinach, Walnuts, Watermelons	(202) 720-2127
Robert Little – Dry Beans, Garlic, Hazelnuts, Honeydews, Kiwifruit, Lettuce, Maple Syrup, Mint, Pears, Sweet Cherries, Tart Cherries, Tomatoes	(202) 720-3250
Dawn Smoker – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas, Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans	(202) 720-4215

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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

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USDA NASS Data Users' Meeting

Virtual Meeting
Wednesday, October 28, 2020

USDA's National Agricultural Statistics Service will hold a virtual meeting for users of U.S. domestic and international agriculture data. NASS is organizing the 2020 Fall Data Users' Meeting in cooperation with five other USDA agencies – Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board – and the Census Bureau's Foreign Trade Division. Agency representatives will answer questions and welcome comments and input from data users. Registration details will be coming soon.