



Released October 11, 2018, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Corn Production Down Slightly from September Forecast
Soybean Production Down Slightly
Cotton Production Up Less Than 1 Percent
Orange Production Up 43 Percent from Last Season

Corn production is forecast at 14.8 billion bushels, down slightly from the September forecast but up 1 percent from last year. Based on conditions as of October 1, yields are expected to average 180.7 bushels per acre, down 0.6 bushel from the September forecast but up 4.1 bushels from 2017. If realized, this will be the highest yield and second highest production on record for the United States. Area harvested for grain is forecast at 81.8 million acres, down slightly from the previous estimate and down 1 percent from 2017. Acreage updates were made in several States based on a thorough review of all available data.

Soybean production is forecast at a record 4.69 billion bushels, down slightly from September but up 6 percent from last year. Based on October 1 conditions, yields are expected to average a record 53.1 bushels per acre, up 0.3 bushel from last month and up 3.8 bushels from last year. Area for harvest in the United States is forecast at 88.3 million acres, down 1 percent from September and down 1 percent from 2017. Acreage updates were made in several States based on a thorough review of all available data.

All cotton production is forecast at 19.8 million 480-pound bales, up less than 1 percent from September but down 6 percent from last year. Yield is expected to average 901 pounds per harvested acre, up 6 pounds from last month but down 4 pounds from last year. Harvested area for all cotton is expected to total 10.5 million acres, down less than 1 percent from September and down 5 percent from 2017. Upland cotton production is forecast at 19.0 million 480-pound bales, down 6 percent from 2017. Upland harvested area is expected to total 10.3 million acres, down 5 percent from last year. If realized, the United States average yield for all cotton and Upland cotton will be the second highest on record. Pima cotton production, forecast at 771,000 bales, was carried forward from last month.

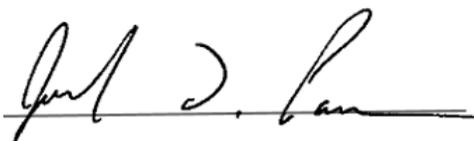
The United States all orange forecast for the 2018-2019 season is 5.62 million tons, up 43 percent from the 2017-2018 final utilization. The Florida all orange forecast, at 79.0 million boxes (3.56 million tons), is up 76 percent from last season's final utilization. Early, midseason, and Navel varieties in Florida are forecast at 34.0 million boxes (1.53 million tons), up 79 percent from last season's final utilization. The Florida Valencia orange forecast, at 45.0 million boxes (2.03 million tons), is up 73 percent from last season's final utilization.

The California Navel orange forecast is 49.0 million boxes (1.96 million tons), up 8 percent from last season's final utilization. The California Valencia orange forecast is 9.00 million boxes (360,000 tons), down 5 percent from last season's final utilization. The Texas all orange forecast, at 2.40 million boxes (103,000 tons), is up 28 percent from last season's final utilization.

This report was approved on October 11, 2018.



Secretary of Agriculture
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Selected Crops Area Planted and Harvested – States and United States: 2018

[Includes updates to planted and harvested area previously published]

State	Corn		Sorghum		Soybeans		Dry edible beans		Sugarbeets	
	Planted (1,000 acres)	Harvested (1,000 acres)								
Alabama	250	235			340	335				
Arizona	65	27								
Arkansas	660	650	12	10	3,280	3,250				
California	450	75					46.0	45.0	24.5	24.2
Colorado	1,470	1,350	355	310			42.0	36.0	26.3	25.7
Connecticut	23									
Delaware	170	159			170	168				
Florida	100	60			17	16				
Georgia	325	275	25	15	140	135				
Idaho	360	130					190.0	188.0	163.0	162.0
Illinois	11,000	10,850	18	16	10,800	10,750				
Indiana	5,350	5,170			5,950	5,930				
Iowa	13,200	12,750			10,000	9,940				
Kansas	5,400	5,100	2,850	2,650	4,750	4,710				
Kentucky	1,340	1,240			2,000	1,990				
Louisiana	460	450	8	7	1,340	1,310				
Maine	30									
Maryland	450	390			520	515				
Massachusetts	14									
Michigan	2,350	1,900			2,300	2,290	190.0	188.0	150.0	148.7
Minnesota	7,900	7,450			7,800	7,710	175.0	167.0	415.0	399.0
Mississippi	480	460	4	3	2,220	2,200				
Missouri	3,500	3,350	35	28	5,850	5,780				
Montana	115	60					390.0	383.0	43.2	42.7
Nebraska	9,600	9,250	220	155	5,700	5,650	140.0	128.0	45.5	44.2
Nevada	10									
New Hampshire	14									
New Jersey	75	67			105	103				
New Mexico	130	50	80	36						
New York	1,120	630			330	324				
North Carolina	910	840	20	13	1,650	1,570				
North Dakota	3,150	2,920			6,900	6,850	640.0	615.0	211.0	210.0
Ohio	3,500	3,260			5,000	4,990				
Oklahoma	320	280	300	260	640	620				
Oregon	80	42							9.6	9.6
Pennsylvania	1,340	910			600	595				
Rhode Island	2									
South Carolina	340	310			390	375				
South Dakota	5,300	4,950	265	190	5,650	5,610				
Tennessee	730	685			1,700	1,670				
Texas	2,200	1,910	1,600	1,400	175	155	20.0	18.0		
Utah	75	25								
Vermont	86									
Virginia	490	330			600	590				
Washington	160	71					215.0	213.0	1.8	1.8
West Virginia	46	31			28	27				
Wisconsin	3,900	3,000			2,200	2,190				
Wyoming	100	75					30.0	28.0	32.1	30.9
United States	89,140	81,767	5,792	5,093	89,145	88,348	2,078.0	2,009.0	1,122.0	1,098.8

Rice Area Planted and Harvested – States and United States: 2018

[Includes updates to harvested area previously published]

State	Rice							
	Long		Medium		Short ¹		All	
	Planted	Harvested	Planted	Harvested	Planted	Harvested	Planted	Harvested
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)				
Arkansas	1,250	1,240	190	181	1	1	1,441	1,422
California	10	10	450	446	40	40	500	496
Louisiana	395	390	45	44	-	-	440	434
Mississippi	140	139	-	-	-	-	140	139
Missouri	215	210	9	9	-	-	224	219
Texas	190	185	8	7	-	-	198	192
United States	2,200	2,174	702	687	41	41	2,943	2,902

- Represents zero.

¹ Sweet rice acreage included with short grain.

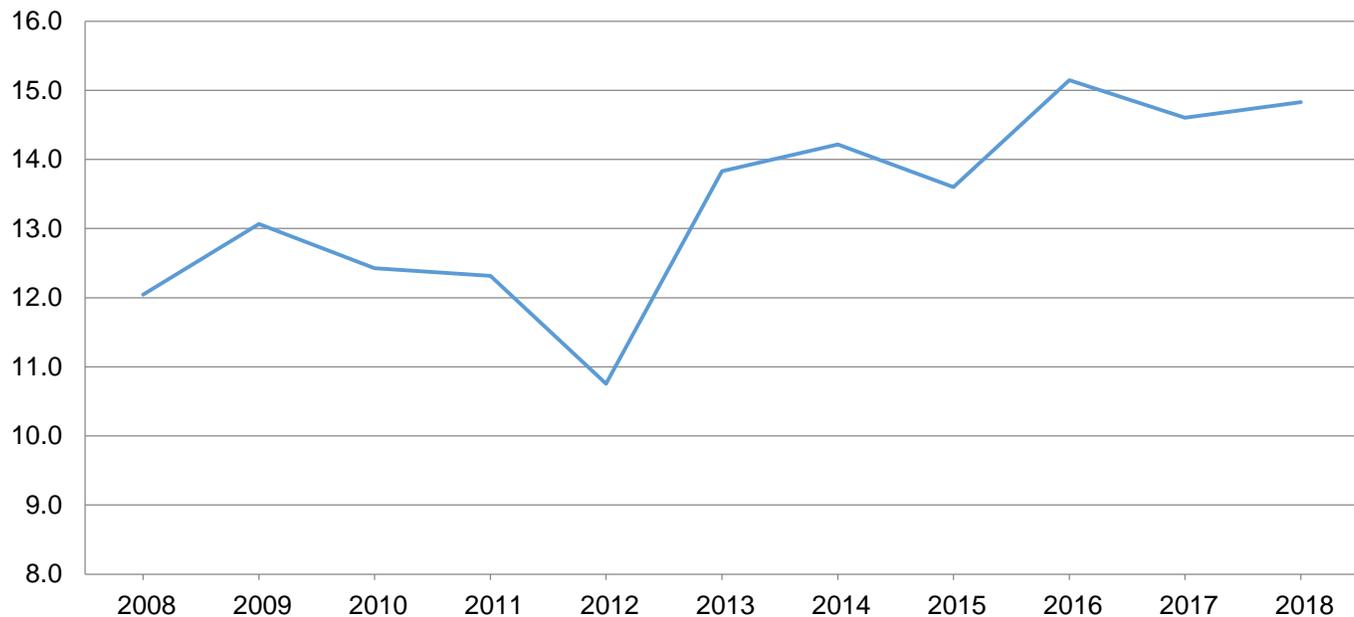
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	235	235	167.0	173.0	176.0	39,245	41,360
Arkansas	595	650	183.0	182.0	179.0	108,885	116,350
California	80	75	167.0	175.0	178.0	13,360	13,350
Colorado	1,300	1,350	143.0	130.0	127.0	185,900	171,450
Delaware	171	159	189.0	175.0	164.0	32,319	26,076
Georgia	245	275	176.0	170.0	170.0	43,120	46,750
Idaho	115	130	203.0	195.0	202.0	23,345	26,260
Illinois	10,950	10,850	201.0	214.0	212.0	2,200,950	2,300,200
Indiana	5,190	5,170	180.0	192.0	194.0	934,200	1,002,980
Iowa	12,900	12,750	202.0	206.0	204.0	2,605,800	2,601,000
Kansas	5,200	5,100	132.0	131.0	130.0	686,400	663,000
Kentucky	1,220	1,240	178.0	177.0	180.0	217,160	223,200
Louisiana	490	450	184.0	170.0	170.0	90,160	76,500
Maryland	420	390	172.0	175.0	162.0	72,240	63,180
Michigan	1,890	1,900	159.0	165.0	163.0	300,510	309,700
Minnesota	7,630	7,450	194.0	191.0	191.0	1,480,220	1,422,950
Mississippi	500	460	189.0	185.0	188.0	94,500	86,480
Missouri	3,250	3,350	170.0	138.0	142.0	552,500	475,700
Nebraska	9,300	9,250	181.0	198.0	195.0	1,683,300	1,803,750
New York	485	630	161.0	163.0	163.0	78,085	102,690
North Carolina	840	840	142.0	122.0	117.0	119,280	98,280
North Dakota	3,230	2,920	139.0	142.0	146.0	448,970	426,320
Ohio	3,130	3,260	177.0	188.0	190.0	554,010	619,400
Oklahoma	305	280	126.0	125.0	130.0	38,430	36,400
Pennsylvania	920	910	161.0	160.0	157.0	148,120	142,870
South Carolina	325	310	136.0	124.0	121.0	44,200	37,510
South Dakota	5,080	4,950	145.0	173.0	172.0	736,600	851,400
Tennessee	710	685	171.0	174.0	174.0	121,410	119,190
Texas	2,240	1,910	140.0	105.0	107.0	313,600	204,370
Virginia	340	330	140.0	148.0	148.0	47,600	48,840
Washington	80	71	225.0	225.0	230.0	18,000	16,330
Wisconsin	2,930	3,000	174.0	179.0	179.0	509,820	537,000
Other States ¹	407	437	151.9	154.5	153.3	61,828	66,990
United States	82,703	81,767	176.6	181.3	180.7	14,604,067	14,777,826

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 2018 Summary*.

Corn Production – United States

Billion bushels



Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas	7	10	76.0	80.0	80.0	532	800
Colorado	360	310	57.0	39.0	45.0	20,520	13,950
Kansas	2,450	2,650	82.0	87.0	91.0	200,900	241,150
Louisiana	13	7	91.0	95.0	95.0	1,183	665
Mississippi	4	3	72.0	80.0	80.0	288	240
Missouri	23	28	108.0	109.0	105.0	2,484	2,940
Nebraska	135	155	89.0	102.0	102.0	12,015	15,810
Oklahoma	295	260	53.0	43.0	50.0	15,635	13,000
South Dakota	170	190	68.0	80.0	78.0	11,560	14,820
Texas	1,500	1,400	63.0	51.0	53.0	94,500	74,200
Other States ¹	88	80	47.9	51.7	54.2	4,215	4,333
United States	5,045	5,093	72.1	71.1	75.0	363,832	381,908

¹ Other States include Georgia, Illinois, New Mexico, and North Carolina. Individual State level estimates will be published in the *Crop Production 2018 Summary*.

Rice Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre			Production ¹	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,104	1,422	7,490	7,500	7,500	82,644	106,650
California	443	496	8,410	8,700	8,600	37,277	42,656
Louisiana	395	434	6,710	7,000	7,000	26,503	30,380
Mississippi	114	139	7,400	7,300	7,300	8,436	10,147
Missouri	160	219	7,440	7,000	7,000	11,900	15,330
Texas	158	192	7,260	7,200	7,100	11,468	13,632
United States	2,374	2,902	7,507	7,563	7,539	178,228	218,795

¹ Includes sweet rice production.

Rice Production by Class – United States: 2017 and Forecasted October 1, 2018

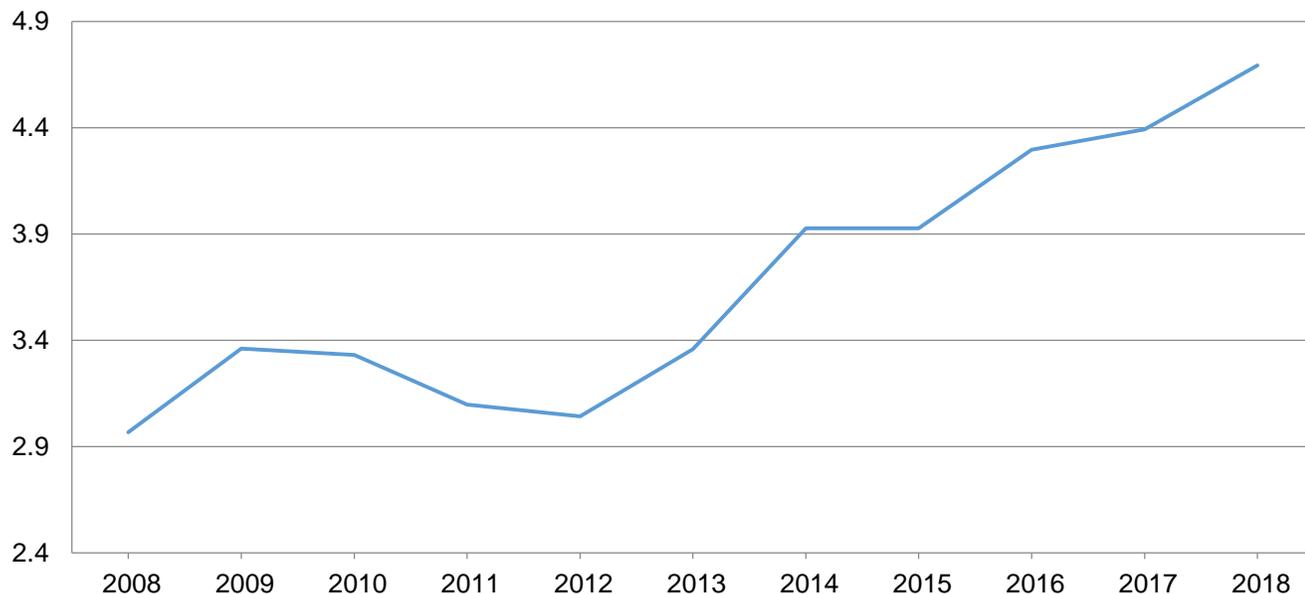
Year	Long grain	Medium grain	Short grain ¹	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2017	127,850	47,867	2,511	178,228
2018 ²	158,965	57,037	2,793	218,795

¹ Sweet rice production included with short grain.

² The 2018 rice production by class forecasts are based on class harvested acreage estimates and the 5-year average class yield compared to the all rice yield.

Soybean Production – United States

Billion bushels



Soybeans for Beans Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	345	335	46.0	44.0	46.0	15,870	15,410
Arkansas	3,500	3,250	51.0	50.0	48.0	178,500	156,000
Delaware	158	168	51.0	45.0	45.0	8,058	7,560
Georgia	150	135	42.0	40.0	36.0	6,300	4,860
Illinois	10,550	10,750	58.0	66.0	66.0	611,900	709,500
Indiana	5,940	5,930	54.0	60.0	60.0	320,760	355,800
Iowa	9,940	9,940	57.0	60.0	61.0	566,580	606,340
Kansas	5,110	4,710	37.5	41.0	42.0	191,625	197,820
Kentucky	1,940	1,990	53.0	57.0	57.0	102,820	113,430
Louisiana	1,250	1,310	54.0	50.0	50.0	67,500	65,500
Maryland	495	515	51.0	50.0	49.0	25,245	25,235
Michigan	2,270	2,290	42.5	49.0	49.0	96,475	112,210
Minnesota	8,090	7,710	47.5	50.0	50.0	384,275	385,500
Mississippi	2,170	2,200	53.0	53.0	53.0	115,010	116,600
Missouri	5,910	5,780	49.5	47.0	48.0	292,545	277,440
Nebraska	5,670	5,650	57.5	62.0	62.0	326,025	350,300
New Jersey	99	103	45.0	40.0	41.0	4,455	4,223
New York	265	324	45.0	49.0	49.0	11,925	15,876
North Carolina	1,690	1,570	40.0	38.0	36.0	67,600	56,520
North Dakota	7,050	6,850	34.5	36.0	36.0	243,225	246,600
Ohio	5,090	4,990	49.5	58.0	60.0	251,955	299,400
Oklahoma	640	620	29.0	31.0	31.0	18,560	19,220
Pennsylvania	585	595	48.0	50.0	51.0	28,080	30,345
South Carolina	390	375	38.0	32.0	32.0	14,820	12,000
South Dakota	5,610	5,610	43.0	49.0	50.0	241,230	280,500
Tennessee	1,660	1,670	50.0	51.0	50.0	83,000	83,500
Texas	185	155	37.0	34.0	32.0	6,845	4,960
Virginia	590	590	44.0	43.0	43.0	25,960	25,370
Wisconsin	2,140	2,190	47.5	50.0	50.0	101,650	109,500
Other States ¹	40	43	47.0	48.2	49.0	1,880	2,109
United States	89,522	88,348	49.3	52.8	53.1	4,410,673	4,689,628

¹ Other States include Florida and West Virginia. Individual State level estimates will be published in the *Crop Production 2018 Summary*.

Sunflower Area Harvested, Yield, and Production by Type – States and United States: 2017 and Forecasted October 1, 2018

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

Varietal type and State	Area planted		Area harvested		Yield per acre		Production	
	2017	2018	2017	2018	2017	2018 ¹	2017	2018 ¹
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Oil								
California	54.0	58.0	52.5	57.5	1,050		55,125	
Colorado	80.0	60.0	73.0	54.0	1,030		75,190	
Kansas	52.0	43.0	50.0	41.0	1,420		71,000	
Minnesota	34.0	45.0	33.0	43.0	1,800		59,400	
Nebraska	30.0	25.0	28.5	23.0	1,440		41,040	
North Dakota	395.0	395.0	381.0	386.0	1,630		621,030	
South Dakota	540.0	520.0	520.0	495.0	1,700		884,000	
Texas	31.0	20.0	30.0	18.0	1,480		44,400	
United States	1,216.0	1,166.0	1,168.0	1,117.5	1,585		1,851,185	
Non-oil								
California	1.3	2.0	1.3	2.0	1,000		1,300	
Colorado	12.0	8.0	11.0	7.0	1,300		14,300	
Kansas	13.5	10.0	12.2	9.0	1,460		17,812	
Minnesota	4.7	7.5	3.3	7.0	1,950		6,435	
Nebraska	15.5	12.0	15.0	10.0	1,870		28,050	
North Dakota	43.0	40.0	42.0	38.0	1,690		70,980	
South Dakota	82.0	51.0	68.0	45.0	2,200		149,600	
Texas	15.0	5.5	13.0	4.5	1,200		15,600	
United States	187.0	136.0	165.8	122.5	1,834		304,077	
All								
California	55.3	60.0	53.8	59.5	1,049	1,345	56,425	80,025
Colorado	92.0	68.0	84.0	61.0	1,065	880	89,490	53,700
Kansas	65.5	53.0	62.2	50.0	1,428	1,437	88,812	71,840
Minnesota	38.7	52.5	36.3	50.0	1,814	1,657	65,835	82,850
Nebraska	45.5	37.0	43.5	33.0	1,588	1,550	69,090	51,160
North Dakota	438.0	435.0	423.0	424.0	1,636	1,591	692,010	674,480
South Dakota	622.0	571.0	588.0	540.0	1,758	1,658	1,033,600	895,050
Texas	46.0	25.5	43.0	22.5	1,395	1,150	60,000	25,875
United States	1,403.0	1,302.0	1,333.8	1,240.0	1,616	1,560	2,155,262	1,934,980

¹ 2018 yield and production estimates for oil and non-oil varieties will be published in the *Crop Production 2018 Summary*.

Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area planted		Area harvested	
	2017	2018	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	195.0	165.0	193.0	163.0
Florida	195.0	155.0	185.0	146.0
Georgia	835.0	665.0	825.0	655.0
Mississippi	44.0	25.0	43.0	24.0
North Carolina	119.0	102.0	117.0	99.0
Oklahoma	22.0	16.0	21.0	15.0
South Carolina	122.0	87.0	118.0	82.0
Texas	275.0	155.0	210.0	145.0
Virginia	27.0	24.0	27.0	24.0
Other States ¹	37.6	32.5	36.6	31.5
United States	1,871.6	1,426.5	1,775.6	1,384.5

State	Yield per acre			Production	
	2017	2018		2017	2018
		September 1	October 1		
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	3,650	4,000	4,100	704,450	668,300
Florida	3,450	4,100	4,200	638,250	613,200
Georgia	4,330	4,500	4,500	3,572,250	2,947,500
Mississippi	4,000	4,000	4,000	172,000	96,000
North Carolina	4,100	3,900	3,800	479,700	376,200
Oklahoma	3,780	3,000	3,100	79,380	46,500
South Carolina	4,000	3,800	3,600	472,000	295,200
Texas	3,320	3,200	3,300	697,200	478,500
Virginia	4,440	4,100	4,100	119,880	98,400
Other States ¹	4,926	4,738	4,738	180,300	149,250
United States	4,007	4,151	4,167	7,115,410	5,769,050

¹ Other States include Arkansas and New Mexico.

Canola Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area planted		Area harvested		Yield per acre		Production	
	2017	2018	2017	2018	2017	2018	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Idaho	23.0	43.0	22.3	42.0	1,550	2,200	34,565	92,400
Kansas	50.0	47.0	47.0	34.0	1,320	840	62,040	28,560
Minnesota	36.0	46.0	34.5	44.0	2,050	1,850	70,725	81,400
Montana	155.0	120.0	137.0	116.0	870	1,650	119,190	191,400
North Dakota	1,590.0	1,590.0	1,560.0	1,580.0	1,630	1,920	2,542,800	3,033,600
Oklahoma	160.0	70.0	140.0	53.0	1,370	880	191,800	46,640
Oregon	8.0	4.5	7.2	4.1	1,550	2,200	11,160	9,020
Washington	55.0	70.0	54.0	68.0	1,600	2,000	86,400	136,000
United States	2,077.0	1,990.5	2,002.0	1,941.1	1,558	1,864	3,118,680	3,619,020

Cotton Area Harvested, Yield, and Production by Type – States and United States: 2017 and Forecasted October 1, 2018

Type and State	Area harvested		Yield per acre			Production ¹	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) ²	(1,000 bales) ²
Upland							
Alabama	430.0	505.0	902	1,041	1,065	808.0	1,120.0
Arizona	159.0	149.0	1,464	1,498	1,546	485.0	480.0
Arkansas	438.0	480.0	1,177	1,150	1,150	1,074.0	1,150.0
California	87.0	49.0	1,297	1,763	1,685	235.0	172.0
Florida	98.0	116.0	759	910	910	155.0	220.0
Georgia	1,270.0	1,420.0	841	946	980	2,225.0	2,900.0
Kansas	90.0	159.0	1,051	1,005	1,011	197.0	335.0
Louisiana	217.0	190.0	894	1,061	1,061	404.0	420.0
Mississippi	625.0	615.0	1,038	1,132	1,140	1,351.0	1,460.0
Missouri	297.0	320.0	1,212	1,230	1,245	750.0	830.0
New Mexico	46.0	65.0	1,179	1,108	1,108	113.0	150.0
North Carolina	367.0	400.0	969	921	804	741.0	670.0
Oklahoma	555.0	570.0	882	800	783	1,020.0	930.0
South Carolina	248.0	290.0	912	886	803	471.0	485.0
Tennessee	340.0	355.0	1,033	1,082	1,034	732.0	765.0
Texas	5,500.0	4,500.0	809	693	715	9,270.0	6,700.0
Virginia	83.0	97.0	1,110	1,089	1,014	192.0	205.0
United States	10,850.0	10,280.0	895	881	887	20,223.0	18,992.0
American Pima							
Arizona	15.0	13.5	966	889	889	30.2	25.0
California	215.0	209.0	1,407	1,610	1,610	630.0	701.0
New Mexico	7.4	6.9	863	904	904	13.3	13.0
Texas	13.0	16.0	960	960	960	26.0	32.0
United States	250.4	245.4	1,341	1,508	1,508	699.5	771.0
All							
Alabama	430.0	505.0	902	1,041	1,065	808.0	1,120.0
Arizona	174.0	162.5	1,421	1,447	1,492	515.2	505.0
Arkansas	438.0	480.0	1,177	1,150	1,150	1,074.0	1,150.0
California	302.0	258.0	1,375	1,639	1,624	865.0	873.0
Florida	98.0	116.0	759	910	910	155.0	220.0
Georgia	1,270.0	1,420.0	841	946	980	2,225.0	2,900.0
Kansas	90.0	159.0	1,051	1,005	1,011	197.0	335.0
Louisiana	217.0	190.0	894	1,061	1,061	404.0	420.0
Mississippi	625.0	615.0	1,038	1,132	1,140	1,351.0	1,460.0
Missouri	297.0	320.0	1,212	1,230	1,245	750.0	830.0
New Mexico	53.4	71.9	1,135	1,088	1,088	126.3	163.0
North Carolina	367.0	400.0	969	921	804	741.0	670.0
Oklahoma	555.0	570.0	882	800	783	1,020.0	930.0
South Carolina	248.0	290.0	912	886	803	471.0	485.0
Tennessee	340.0	355.0	1,033	1,082	1,034	732.0	765.0
Texas	5,513.0	4,516.0	809	694	716	9,296.0	6,732.0
Virginia	83.0	97.0	1,110	1,089	1,014	192.0	205.0
United States	11,100.4	10,525.4	905	895	901	20,922.5	19,763.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

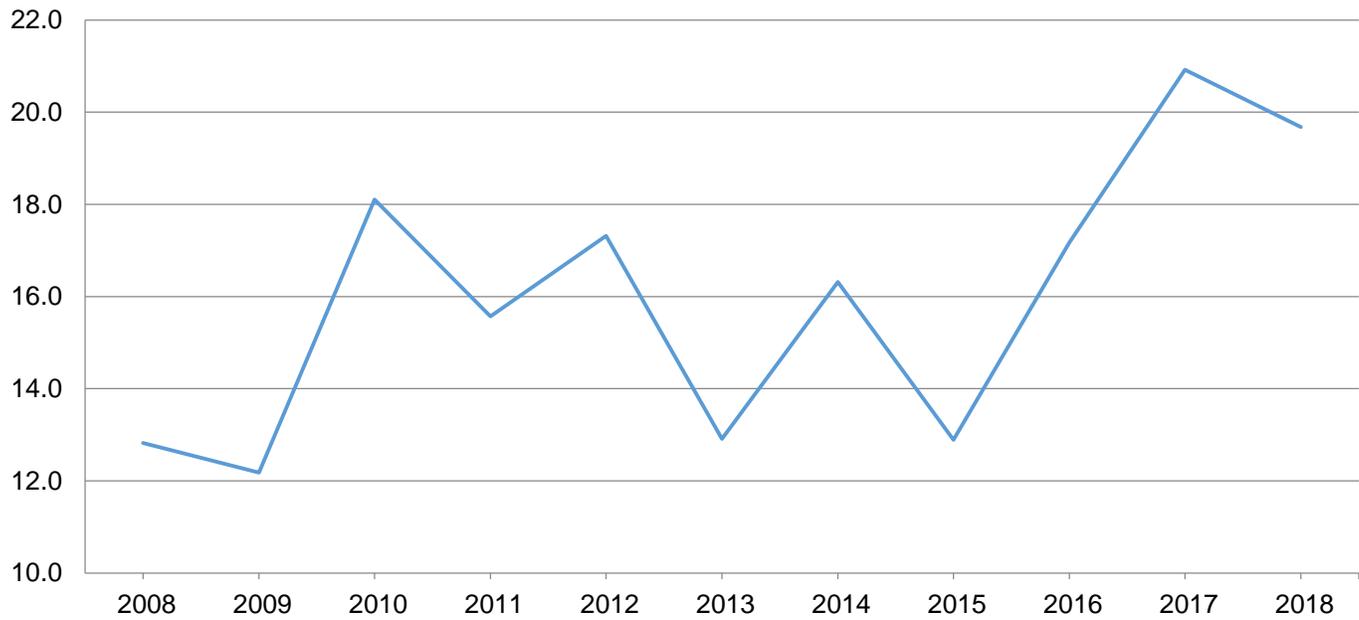
Cottonseed Production – United States: 2017 and Forecasted October 1, 2018

State	Production	
	2017 (1,000 tons)	2018 ¹ (1,000 tons)
United States	6,422.0	6,184.0

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: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre		Production	
	2017 (1,000 acres)	2018 (1,000 acres)	2017 (tons)	2018 (tons)	2017 (1,000 tons)	2018 (1,000 tons)
Arizona	275	270	8.40	8.00	2,310	2,160
California	660	650	6.80	6.80	4,488	4,420
Colorado	720	730	3.90	3.90	2,808	2,847
Idaho	1,060	1,170	4.00	4.30	4,240	5,031
Illinois	220	210	4.20	3.60	924	756
Indiana	270	290	3.30	3.60	891	1,044
Iowa	720	830	3.50	3.80	2,520	3,154
Kansas	570	490	3.60	3.30	2,052	1,617
Kentucky	150	140	3.50	3.70	525	518
Michigan	610	620	2.80	3.00	1,708	1,860
Minnesota	870	890	3.35	3.60	2,915	3,204
Missouri	300	330	2.40	2.20	720	726
Montana	1,600	1,800	2.10	2.40	3,360	4,320
Nebraska	830	880	3.95	4.10	3,279	3,608
Nevada	200	200	4.20	4.30	840	860
New Mexico	190	180	5.00	5.10	950	918
New York	400	370	2.95	2.80	1,180	1,036
North Dakota	1,350	1,500	1.40	1.80	1,890	2,700
Ohio	310	390	3.20	3.00	992	1,170
Oklahoma	280	200	3.10	3.50	868	700
Oregon	420	400	4.90	4.30	2,058	1,720
Pennsylvania	430	390	3.20	3.30	1,376	1,287
South Dakota	1,500	1,700	1.75	2.30	2,625	3,910
Texas	100	150	4.80	5.50	480	825
Utah	530	530	4.20	4.00	2,226	2,120
Virginia	55	45	3.50	3.60	193	162
Washington	390	370	5.20	5.20	2,028	1,924
Wisconsin	860	910	3.00	3.00	2,580	2,730
Wyoming	550	560	2.90	3.10	1,595	1,736
Other States ¹	143	156	3.13	2.97	447	464
United States	16,563	17,351	3.32	3.43	55,068	59,527

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 2018 Summary*.

All Other Hay Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre		Production	
	2017 (1,000 acres)	2018 (1,000 acres)	2017 (tons)	2018 (tons)	2017 (1,000 tons)	2018 (1,000 tons)
Alabama ¹	860	850	2.50	3.20	2,150	2,720
Arkansas	1,160	1,200	2.00	1.80	2,320	2,160
California	440	400	3.50	3.10	1,540	1,240
Colorado	720	690	1.80	1.80	1,296	1,242
Georgia ¹	620	600	2.90	3.10	1,798	1,860
Idaho	370	320	2.40	2.20	888	704
Illinois	270	260	2.60	2.70	702	702
Indiana	310	340	2.40	2.10	744	714
Iowa	360	370	2.30	2.40	828	888
Kansas	2,100	2,000	1.90	1.40	3,990	2,800
Kentucky	2,000	2,100	2.40	2.50	4,800	5,250
Louisiana ¹	370	380	2.60	2.30	962	874
Michigan	290	300	1.50	2.00	435	600
Minnesota	510	510	1.90	1.80	969	918
Mississippi ¹	610	590	2.40	2.00	1,464	1,180
Missouri	2,700	3,200	1.95	1.40	5,265	4,480
Montana	950	900	1.60	1.90	1,520	1,710
Nebraska	1,800	1,850	1.60	2.00	2,880	3,700
New York	920	1,060	1.75	1.70	1,610	1,802
North Carolina	650	700	2.30	2.40	1,495	1,680
North Dakota	1,300	1,400	1.30	1.60	1,690	2,240
Ohio	750	720	2.10	2.10	1,575	1,512
Oklahoma	2,700	2,800	1.90	2.00	5,130	5,600
Oregon	680	640	2.00	2.50	1,360	1,600
Pennsylvania	1,040	1,010	2.40	2.60	2,496	2,626
South Dakota	1,600	1,300	1.35	1.75	2,160	2,275
Tennessee	1,700	1,800	2.30	2.40	3,910	4,320
Texas	4,700	4,800	2.10	1.50	9,870	7,200
Virginia	1,150	1,050	2.30	2.40	2,645	2,520
Washington	350	400	2.70	2.70	945	1,080
West Virginia	570	570	1.80	2.00	1,026	1,140
Wisconsin	390	390	2.30	2.10	897	819
Wyoming	520	500	1.70	1.70	884	850
Other States ²	1,761	1,717	2.35	2.24	4,143	3,851
United States ³	37,221	37,717	2.05	1.98	76,387	74,857

¹ Alfalfa and alfalfa mixtures included in all other hay.

² For 2017, Other States include Arizona, Connecticut, Delaware, Florida, Maine, Maryland, Massachusetts, Nevada, New Hampshire, New Jersey, New Mexico, Rhode Island, South Carolina, Utah, and Vermont. For 2018, 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 2018 Summary*.

³ Beginning in 2018, United States total includes data for Alaska.

Sugarbeet Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

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

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California ¹	24.7	24.2	43.5	44.0	44.3	1,074	1,072
Colorado	29.0	25.7	35.7	35.1	34.7	1,035	892
Idaho	166.0	162.0	39.2	41.1	40.8	6,507	6,610
Michigan	143.0	148.7	25.2	30.4	31.0	3,604	4,610
Minnesota	409.0	399.0	30.6	30.1	28.2	12,515	11,252
Montana	42.7	42.7	32.7	34.3	33.2	1,396	1,418
Nebraska	45.2	44.2	31.8	34.3	33.4	1,437	1,476
North Dakota	212.0	210.0	30.4	30.9	30.6	6,445	6,426
Oregon	9.1	9.6	36.7	38.5	38.7	334	372
Washington	1.8	1.8	48.2	49.2	49.3	87	89
Wyoming	31.6	30.9	28.2	32.4	32.3	891	998
United States	1,114.1	1,098.8	31.7	32.8	32.0	35,325	35,215

¹ Relates to year of intended harvest for fall planted beets in central California and to year of planting for overwintered beets in central and southern California.

Sugarcane for Sugar and Seed Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre ¹			Production ¹	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	412.7	412.0	41.1	40.8	41.0	16,942	16,892
Louisiana	449.6	473.0	32.8	30.8	31.3	14,744	14,805
Texas	41.8	40.0	37.1	35.5	35.4	1,552	1,416
United States	904.1	925.0	36.8	35.5	35.8	33,238	33,113

¹ Net tons.

Dry Edible Bean Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre ¹		Production ¹	
	2017	2018	2017	2018	2017	2018
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
California	49.7	45.0	2,100	2,300	1,045	1,035
Colorado	54.5	36.0	2,000	2,150	1,092	774
Idaho	178.0	188.0	1,610	1,600	2,873	3,008
Michigan	218.5	188.0	2,010	2,400	4,394	4,512
Minnesota	163.0	167.0	2,190	2,500	3,567	4,175
Montana	260.0	383.0	1,000	1,500	2,594	5,745
Nebraska	155.0	128.0	2,520	2,540	3,901	3,251
North Dakota	685.0	615.0	1,810	1,800	12,392	11,070
Texas	20.0	18.0	1,100	1,100	220	198
Washington	190.0	213.0	1,490	1,600	2,834	3,408
Wyoming	39.0	28.0	2,390	2,400	933	672
United States	2,012.7	2,009.0	1,781	1,884	35,845	37,848

¹ Clean basis.

Spring Potato Area Planted, Harvested, Yield, and Production – States and United States: 2017 and 2018

State	Area planted		Area harvested		Yield per acre		Production	
	2017	2018	2017	2018	2017	2018	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)
California	29.0	25.0	29.0	25.0	435	395	12,615	9,875
Florida	29.0	22.0	28.7	20.8	250	265	7,175	5,512
United States	58.0	47.0	57.7	45.8	343	336	19,790	15,387

Tobacco Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted October 1, 2018

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Georgia	12,500	12,500	2,100	1,800	1,800	26,250	22,500
Kentucky	80,500	71,200	2,277	2,256	2,033	183,300	144,740
North Carolina	163,900	158,800	2,197	1,999	1,601	360,040	254,160
Pennsylvania	8,100	7,800	2,344	2,433	2,351	18,990	18,340
South Carolina	12,000	12,000	2,100	1,800	1,700	25,200	20,400
Tennessee	21,100	16,400	2,038	2,376	2,393	43,000	39,240
Virginia	23,370	23,280	2,284	2,179	2,080	53,381	48,432
United States	321,470	301,980	2,209	2,088	1,814	710,161	547,812

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2017 and Forecasted October 1, 2018

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

Class, type, and State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Class 1, Flue-cured (11-14)							
Georgia	12,500	12,500	2,100	1,800	1,800	26,250	22,500
North Carolina	163,000	158,000	2,200	2,000	1,600	358,600	252,800
South Carolina	12,000	12,000	2,100	1,800	1,700	25,200	20,400
Virginia	22,000	22,000	2,300	2,200	2,100	50,600	46,200
United States	209,500	204,500	2,199	1,998	1,672	460,650	341,900
Class 2, Fire-cured (21-23)							
Kentucky	11,500	11,000	3,300	3,200	3,200	37,950	35,200
Tennessee	7,500	7,600	2,800	2,900	2,900	21,000	22,040
Virginia	270	280	2,150	1,900	1,900	581	532
United States	19,270	18,880	3,089	3,060	3,060	59,531	57,772
Class 3A, Light air-cured							
Type 31, Burley							
Kentucky	63,000	53,000	2,050	2,000	1,700	129,150	90,100
North Carolina	900	800	1,600	1,700	1,700	1,440	1,360
Pennsylvania	4,500	4,000	2,300	2,500	2,400	10,350	9,600
Tennessee	12,000	6,000	1,500	1,700	1,700	18,000	10,200
Virginia	1,100	1,000	2,000	1,800	1,700	2,200	1,700
United States	81,500	64,800	1,977	1,996	1,743	161,140	112,960
Type 32, Southern Maryland Belt							
Pennsylvania	1,800	1,400	2,400	2,300	2,300	4,320	3,220
United States	1,800	1,400	2,400	2,300	2,300	4,320	3,220
Total light air-cured (31-32)	83,300	66,200	1,986	2,003	1,755	165,460	116,180
Class 3B, Dark air-cured (35-37)							
Kentucky	6,000	7,200	2,700	2,700	2,700	16,200	19,440
Tennessee	1,600	2,800	2,500	2,400	2,500	4,000	7,000
United States	7,600	10,000	2,658	2,616	2,644	20,200	26,440
Class 4, Cigar filler							
Type 41, Pennsylvania Seedleaf							
Pennsylvania	1,800	2,400	2,400	2,400	2,300	4,320	5,520
United States	1,800	2,400	2,400	2,400	2,300	4,320	5,520
All tobacco							
United States	321,470	301,980	2,209	2,088	1,814	710,161	547,812

Utilized Production of Oranges by Crop – States and United States: 2017-2018 and Forecasted October 1, 2018

[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	
	2017-2018 (1,000 boxes)	2018-2019 (1,000 boxes)	2017-2018 (1,000 tons)	2018-2019 (1,000 tons)
Oranges				
California, all	45,400	49,000	1,816	1,960
Early, mid, and Navel ²	35,900	40,000	1,436	1,600
Valencia	9,500	9,000	380	360
Florida, all	44,950	79,000	2,023	3,555
Early, mid, and Navel ²	18,950	34,000	853	1,530
Valencia	26,000	45,000	1,170	2,025
Texas, all	1,880	2,400	80	103
Early, mid, and Navel ²	1,530	1,800	65	77
Valencia	350	600	15	26
United States, all	92,230	130,400	3,919	5,618
Early, mid, and Navel ²	56,380	75,800	2,354	3,207
Valencia	35,850	54,600	1,565	2,411
Grapefruit				
California	4,000	3,900	160	156
Florida, all	3,880	6,700	165	285
Red	3,180	5,500	135	234
White	700	1,200	30	51
Texas	4,800	6,200	192	248
United States	12,680	16,800	517	689
Tangerines and mandarins ³				
California	19,200	23,000	768	920
Florida	750	1,200	36	57
United States	19,950	24,200	804	977
Lemons				
Arizona	1,000	1,400	40	56
California	21,200	20,000	848	800
United States	22,200	21,400	888	856

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

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

³ Includes tangelos and tangors.

Pecan Production by Variety – States and United States: 2017 and Forecasted October 1, 2018

State and variety	Utilized production (in-shell basis)	
	2017 (1,000 pounds)	2018 (1,000 pounds)
Alabama	1,850	1,800
Improved	1,600	1,600
Native and seedling	250	200
Arizona	28,000	26,500
Improved	28,000	26,500
California	5,000	5,600
Improved	5,000	5,600
Georgia	107,000	110,000
Improved	107,000	110,000
Louisiana	8,000	9,000
Improved	3,000	3,500
Native and seedling	5,000	5,500
New Mexico	92,000	85,000
Improved	92,000	85,000
Oklahoma	14,000	11,000
Improved	3,000	3,000
Native and seedling	11,000	8,000
Texas	38,000	30,000
Improved	30,000	23,000
Native and seedling	8,000	7,000
United States	293,850	278,900
Improved	269,600	258,200
Native and seedling	24,250	20,700

Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2017 and 2018

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2018 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2017	2018	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Grains and hay				
Barley	2,481	2,543	1,954	1,978
Corn for grain ¹	90,167	89,140	82,703	81,767
Corn for silage	(NA)		6,434	
Hay, all	(NA)	(NA)	53,784	55,068
Alfalfa	(NA)	(NA)	16,563	17,351
All other	(NA)	(NA)	37,221	37,717
Oats	2,588	2,746	801	865
Proso millet	478	490	404	
Rice	2,463	2,943	2,374	2,902
Rye	1,961	2,011	286	273
Sorghum for grain ¹	5,626	5,792	5,045	5,093
Sorghum for silage	(NA)		284	
Wheat, all	46,022	47,800	37,541	39,605
Winter	32,696	32,535	25,291	24,742
Durum	2,307	2,065	2,106	1,967
Other spring	11,019	13,200	10,144	12,896
Oilseeds				
Canola	2,077.0	1,990.5	2,002.0	1,941.1
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	303	168	272	160
Mustard seed	103.0	91.5	95.4	85.7
Peanuts	1,871.6	1,426.5	1,775.6	1,384.5
Rapeseed	10.1	5.4	9.7	5.1
Safflower	162.0	190.0	143.2	181.0
Soybeans for beans	90,142	89,145	89,522	88,348
Sunflower	1,403.0	1,302.0	1,333.8	1,240.0
Cotton, tobacco, and sugar crops				
Cotton, all	12,612.5	14,042.0	11,100.4	10,525.4
Upland	12,360.0	13,794.0	10,850.0	10,280.0
American Pima	252.5	248.0	250.4	245.4
Sugarbeets	1,131.2	1,122.0	1,114.1	1,098.8
Sugarcane	(NA)	(NA)	904.1	925.0
Tobacco	(NA)	(NA)	321.5	302.0
Dry beans, peas, and lentils				
Austrian winter peas	26.5	16.5	9.4	11.9
Dry edible beans	2,092.0	2,078.0	2,012.7	2,009.0
Chickpeas, all	618.8	819.7	599.3	651.3
Large	439.3	608.5	424.5	449.2
Small	179.5	211.2	174.8	202.1
Dry edible peas	1,128.0	865.0	1,050.5	824.5
Lentils	1,104.0	785.0	1,022.0	758.0
Wrinkled seed peas	(NA)		(NA)	
Potatoes and miscellaneous				
Hops	(NA)	(NA)	53.3	55.3
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		60.4	
Potatoes, all	1,033.0	1,020.7	1,024.9	1,009.7
Spring	58.0	47.0	57.7	45.8
Summer	68.3	62.0	65.5	59.5
Fall	906.7	911.7	901.7	904.4
Spearmint oil	(NA)		22.3	
Sweet potatoes	161.6	159.5	159.3	157.2
Taro (Hawaii)	(NA)		0.4	

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2017 and 2018 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2018 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per acre		Production		
	2017	2018	2017 (1,000)	2018 (1,000)	
Grains and hay					
Barley	bushels	72.6	77.4	141,923	153,082
Corn for grain	bushels	176.6	180.7	14,604,067	14,777,826
Corn for silage	tons	19.9		128,356	
Hay, all	tons	2.44	2.44	131,455	134,384
Alfalfa	tons	3.32	3.43	55,068	59,527
All other	tons	2.05	1.98	76,387	74,857
Oats	bushels	61.7	64.9	49,391	56,130
Proso millet	bushels	36.1		14,567	
Rice ²	cwt	7,507	7,539	178,228	218,795
Rye	bushels	33.9	30.9	9,696	8,432
Sorghum for grain	bushels	72.1	75.0	363,832	381,908
Sorghum for silage	tons	13.3		3,772	
Wheat, all	bushels	46.3	47.6	1,739,645	1,884,458
Winter	bushels	50.2	47.9	1,269,437	1,183,939
Durum	bushels	26.0	39.3	54,777	77,287
Other spring	bushels	41.0	48.3	415,431	623,232
Oilseeds					
Canola	pounds	1,558	1,864	3,118,680	3,619,020
Cottonseed	tons	(X)	(X)	6,422.0	6,184.0
Flaxseed	bushels	14.1		3,842	
Mustard seed	pounds	632		60,250	
Peanuts	pounds	4,007	4,167	7,115,410	5,769,050
Rapeseed	pounds	2,139		20,750	
Safflower	pounds	1,256		179,896	
Soybeans for beans	bushels	49.3	53.1	4,410,673	4,689,628
Sunflower	pounds	1,616	1,560	2,155,262	1,934,980
Cotton, tobacco, and sugar crops					
Cotton, all ²	bales	905	901	20,922.5	19,763.0
Upland ²	bales	895	887	20,223.0	18,992.0
American Pima ²	bales	1,341	1,508	699.5	771.0
Sugarbeets	tons	31.7	32.0	35,325	35,215
Sugarcane	tons	36.8	35.8	33,238	33,113
Tobacco	pounds	2,209	1,814	710,161	547,812
Dry beans, peas, and lentils					
Austrian winter peas ²	cwt	1,330	1,227	125	146
Dry edible beans ²	cwt	1,781	1,884	35,845	37,848
Chickpeas, all ²	cwt	1,152		6,905	
Large ²	cwt	1,165		4,945	
Small ²	cwt	1,121		1,960	
Dry edible peas ²	cwt	1,350	1,683	14,177	13,874
Lentils ²	cwt	732	1,159	7,482	8,787
Wrinkled seed peas	cwt	(NA)		357	
Potatoes and miscellaneous					
Hops	pounds	1,959	1,910	104,366.0	105,683.6
Maple syrup	gallons	(NA)	(NA)	4,271	4,159
Mushrooms	pounds	(NA)	(NA)	933,355	917,235
Peppermint oil	pounds	96		5,778	
Potatoes, all	cwt	431		442,034	
Spring	cwt	343	336	19,790	15,387
Summer	cwt	331	332	21,679	19,750
Fall	cwt	444		400,565	
Spearmint oil	pounds	125		2,796	
Sweet potatoes	cwt	224		35,646	
Taro (Hawaii)	pounds	10,530		3,686	

(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: 2017 and 2018

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2018 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2017	2018	2017	2018
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,004,040	1,029,130	790,760	800,480
Corn for grain ¹	36,489,680	36,074,070	33,469,080	33,090,290
Corn for silage	(NA)		2,603,780	
Hay, all ²	(NA)	(NA)	21,765,850	22,285,470
Alfalfa	(NA)	(NA)	6,702,880	7,021,780
All other	(NA)	(NA)	15,062,970	15,263,690
Oats	1,047,340	1,111,280	324,160	350,060
Proso millet	193,440	198,300	163,490	
Rice	996,750	1,191,000	960,730	1,174,410
Rye	793,600	813,830	115,740	110,480
Sorghum for grain ¹	2,276,790	2,343,960	2,041,660	2,061,090
Sorghum for silage	(NA)		114,930	
Wheat, all ²	18,624,640	19,344,180	15,192,470	16,027,750
Winter	13,231,740	13,166,590	10,235,010	10,012,840
Durum	933,620	835,680	852,280	796,030
Other spring	4,459,280	5,341,910	4,105,180	5,218,880
Oilseeds				
Canola	840,540	805,540	810,190	785,540
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	122,620	67,990	110,080	64,750
Mustard seed	41,680	37,030	38,610	34,680
Peanuts	757,420	577,290	718,570	560,290
Rapeseed	4,090	2,190	3,930	2,060
Safflower	65,560	76,890	57,950	73,250
Soybeans for beans	36,479,570	36,076,090	36,228,660	35,753,550
Sunflower	567,780	526,910	539,780	501,820
Cotton, tobacco, and sugar crops				
Cotton, all ²	5,104,150	5,682,660	4,492,220	4,259,520
Upland	5,001,970	5,582,290	4,390,890	4,160,210
American Pima	102,180	100,360	101,330	99,310
Sugarbeets	457,790	454,060	450,870	444,670
Sugarcane	(NA)	(NA)	365,880	374,340
Tobacco	(NA)	(NA)	130,100	122,210
Dry beans, peas, and lentils				
Austrian winter peas	10,720	6,680	3,800	4,820
Dry edible beans	846,610	840,950	814,520	813,020
Chickpeas ²	250,420	331,720	242,530	263,570
Large	177,780	246,250	171,790	181,790
Small	72,640	85,470	70,740	81,790
Dry edible peas	456,490	350,060	425,130	333,670
Lentils	446,780	317,680	413,590	306,760
Wrinkled seed peas	(NA)		(NA)	
Potatoes and miscellaneous				
Hops	(NA)	(NA)	21,560	22,400
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		24,440	
Potatoes, all ²	418,040	413,070	414,770	408,610
Spring	23,470	19,020	23,350	18,530
Summer	27,640	25,090	26,510	24,080
Fall	366,930	368,960	364,910	366,000
Spearmint oil	(NA)		9,020	
Sweet potatoes	65,400	64,550	64,470	63,620
Taro (Hawaii)	(NA)		140	

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States:
2017 and 2018 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2018 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Yield per hectare		Production	
	2017	2018	2017	2018
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	3.91	4.16	3,090,010	3,332,970
Corn for grain	11.08	11.34	370,960,390	375,374,070
Corn for silage	44.72		116,442,600	
Hay, all ²	5.48	5.47	119,253,970	121,911,110
Alfalfa	7.45	7.69	49,956,850	54,001,990
All other	4.60	4.45	69,297,120	67,909,130
Oats	2.21	2.33	716,910	814,720
Proso millet	2.02		330,370	
Rice	8.41	8.45	8,084,290	9,924,370
Rye	2.13	1.94	246,290	214,180
Sorghum for grain	4.53	4.71	9,241,760	9,700,910
Sorghum for silage	29.77		3,421,900	
Wheat, all ²	3.12	3.20	47,345,380	51,286,540
Winter	3.38	3.22	34,548,410	32,221,540
Durum	1.75	2.64	1,490,790	2,103,410
Other spring	2.75	3.25	11,306,180	16,961,600
Oilseeds				
Canola	1.75	2.09	1,414,610	1,641,560
Cottonseed	(X)	(X)	5,825,940	5,610,030
Flaxseed	0.89		97,590	
Mustard seed	0.71		27,330	
Peanuts	4.49	4.67	3,227,500	2,616,800
Rapeseed	2.40		9,410	
Safflower	1.41		81,600	
Soybeans for beans	3.31	3.57	120,038,850	127,630,760
Sunflower	1.81	1.75	977,610	877,690
Cotton, tobacco, and sugar crops				
Cotton, all ²	1.01	1.01	4,555,340	4,302,890
Upland	1.00	0.99	4,403,040	4,135,020
American Pima	1.50	1.69	152,300	167,870
Sugarbeets	71.08	71.84	32,046,300	31,946,510
Sugarcane	82.41	80.25	30,153,010	30,039,610
Tobacco	2.48	2.03	322,120	248,480
Dry beans, peas, and lentils				
Austrian winter peas	1.49	1.38	5,670	6,620
Dry edible beans	2.00	2.11	1,625,900	1,716,760
Chickpeas, all ²	1.29		313,210	
Large	1.31		224,300	
Small	1.26		88,900	
Dry edible peas	1.51	1.89	643,060	629,310
Lentils	0.82	1.30	339,380	398,570
Wrinkled seed peas	(NA)		16,190	
Potatoes and miscellaneous				
Hops	2.20	2.14	47,340	47,940
Maple syrup	(NA)	(NA)	21,360	20,800
Mushrooms	(NA)	(NA)	423,360	416,050
Peppermint oil	0.11		2,620	
Potatoes, all ²	48.34		20,050,330	
Spring	38.44	37.66	897,660	697,940
Summer	37.10	37.20	983,340	895,840
Fall	49.79		18,169,320	
Spearmint oil	0.14		1,270	
Sweet potatoes	25.08		1,616,880	
Taro (Hawaii)	11.80		1,670	

(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: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year, except citrus which is for the 2018-2019 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2018	2019
Citrus ¹		
Grapefruit 1,000 tons	517	689
Lemons 1,000 tons	888	856
Oranges 1,000 tons	3,919	5,618
Tangerines and mandarins 1,000 tons	804	977
Noncitrus		
Apples, commercial million pounds	11,452.2	
Apricots tons	39,800	
Avocados tons		
Bananas (Hawaii) 1,000 pounds		
Blackberries (Oregon) 1,000 pounds		
Blueberries, Cultivated 1,000 pounds		
Blueberries, Wild (Maine) 1,000 pounds		
Boysenberries (Oregon) 1,000 pounds		
Cherries, Sweet tons	319,900	
Cherries, Tart million pounds	352.7	
Coffee (Hawaii) 1,000 pounds		
Cranberries barrel	8,634,000	
Dates tons		
Figs (California) tons		
Grapes tons	7,659,000	
Kiwifruit (California) tons		
Nectarines tons		
Olives (California) tons		
Papayas (Hawaii) 1,000 pounds		
Peaches tons	732,050	
Pears tons	739,200	
Plums (California) tons		
Prunes (California) tons	80,000	
Raspberries, all 1,000 pounds		
Strawberries 1,000 cwt	31,764.9	
Nuts and miscellaneous		
Almonds, shelled (California) 1,000 pounds	2,450,000	
Hazelnuts, in-shell (Oregon) tons	52,000	
Macadamias (Hawaii) 1,000 pounds		
Pecans, in-shell 1,000 pounds	278,900	
Pistachios (California) 1,000 pounds		
Walnuts, in-shell (California) tons	690,000	

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

Fruits and Nuts Production in Metric Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year, except citrus which is for the 2018-2019 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2018 (metric tons)	2019 (metric tons)
Citrus¹		
Grapefruit	469,010	625,050
Lemons	805,580	776,550
Oranges	3,555,260	5,096,560
Tangerines and mandarins	729,380	886,320
Noncitrus		
Apples, commercial	5,194,630	
Apricots	36,110	
Avocados		
Bananas (Hawaii)		
Blackberries (Oregon)		
Blueberries, Cultivated		
Blueberries, Wild (Maine)		
Boysenberries (Oregon)		
Cherries, Sweet	290,210	
Cherries, Tart	159,980	
Coffee (Hawaii)		
Cranberries	391,630	
Dates		
Figs (California)		
Grapes	6,948,130	
Kiwifruit (California)		
Nectarines		
Olives (California)		
Papayas (Hawaii)		
Peaches	664,100	
Pears	670,590	
Plums (California)		
Prunes (California)	72,570	
Raspberries, all		
Strawberries	1,440,830	
Nuts and miscellaneous		
Almonds, shelled (California)	1,111,300	
Hazelnuts, in-shell (Oregon)	47,170	
Macadamias (Hawaii)		
Pecans, in-shell	126,510	
Pistachios (California)		
Walnuts, in-shell (California)	625,960	

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

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2018. Randomly selected plots in corn for grain fields are visited monthly from August 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: 2014-2018

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

State and month	2014	2015	2016	2017	2018	State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	30,900	31,800	31,100	30,800	32,000	All corn					
October	30,800	31,750	31,100	30,900	32,000	September ...	26,450	26,650	25,900	25,950	27,100
November	30,700	31,750	31,100	30,950		October	26,450	26,750	25,950	25,800	26,750
Final	30,700	31,750	31,100	30,950		November	26,200	26,700	26,000	25,700	
						Final	26,200	26,700	26,000	25,700	
Indiana						Irrigated					
September	31,200	30,400	30,200	29,550	30,450	September ...	28,850	29,100	28,200	29,050	30,300
October	31,000	30,100	29,950	29,350	30,400	October	28,850	29,300	28,200	29,000	29,900
November	30,850	30,000	29,800	29,200		November	28,700	29,250	28,300	28,750	
Final	30,850	29,950	29,800	29,200		Final	28,700	29,250	28,300	28,750	
Iowa						Non-irrigated					
September	30,850	31,500	31,250	31,300	31,350	September ...	22,650	23,500	22,900	22,500	23,350
October	30,800	31,450	31,050	31,150	31,150	October	22,550	23,550	23,000	22,200	23,100
November	30,800	31,450	31,050	31,150		November	22,250	23,550	23,000	22,250	
Final	30,800	31,450	31,050	31,150		Final	22,250	23,550	23,000	22,250	
Kansas						Ohio					
September	23,750	23,400	22,550	22,050	22,600	September	29,600	30,000	30,250	29,250	30,550
October	23,550	23,750	22,550	22,100	22,450	October	29,700	30,000	30,100	29,150	30,400
November	23,550	23,800	22,550	22,300		November	29,600	29,950	30,250	29,100	
Final	23,550	23,800	22,550	22,300		Final	29,600	29,950	30,250	29,100	
Minnesota						South Dakota					
September	31,400	30,650	30,800	30,750	30,950	September	24,550	26,350	26,200	26,250	27,000
October	31,350	30,750	30,700	30,550	30,900	October	24,250	26,250	26,100	26,200	26,750
November	31,150	30,750	30,550	30,600		November	24,150	26,200	26,000	26,200	
Final	31,250	30,750	30,550	30,600		Final	24,150	26,200	26,000	26,200	
Missouri						Wisconsin					
September	27,650	27,900	27,300	27,850	28,500	September	30,000	29,900	30,100	29,450	31,000
October	27,400	27,600	27,750	27,850	28,400	October	29,900	29,700	29,900	29,100	30,600
November	27,500	27,600	27,800	27,950		November	30,000	29,450	29,800	29,150	
Final	27,500	27,600	27,800	27,950		Final	30,050	29,450	29,800	29,100	
						10 State					
						September	29,200	29,550	29,050	28,800	29,500
						October	29,100	29,500	28,950	28,700	29,350
						November	29,000	29,450	28,950	28,700	
						Final	29,050	29,450	28,950	28,700	

Corn for Grain Number of Ears per Acre – Selected States: 2014-2018

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

State and month	2014	2015	2016	2017	2018	State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	30,300	30,800	30,350	30,200	31,550	All corn					
October	30,300	30,750	30,450	30,300	31,500	September	26,500	26,650	25,700	25,800	27,100
November	30,100	30,800	30,450	30,250		October	26,450	26,700	25,350	26,050	26,750
Final	30,100	30,800	30,450	30,250		November	26,200	26,700	25,400	25,950	
						Final	26,200	26,700	25,400	25,950	
Indiana						Irrigated					
September	30,850	29,550	29,600	28,900	30,000	September	28,750	29,000	27,850	28,650	29,950
October	30,650	29,300	29,400	29,100	29,800	October	28,900	29,250	27,500	28,950	29,350
November	30,450	29,250	29,250	28,850		November	28,700	29,200	27,550	28,750	
Final	30,450	29,150	29,250	28,850		Final	28,700	29,200	27,550	28,750	
Iowa						Non-irrigated					
September	30,350	30,950	30,550	30,600	31,150	September	22,900	23,650	22,850	22,600	23,850
October	30,150	30,800	30,400	30,600	30,900	October	22,550	23,550	22,550	22,800	23,650
November	30,150	30,850	30,500	30,600		November	22,250	23,550	22,550	22,900	
Final	30,150	30,850	30,500	30,600		Final	22,250	23,550	22,550	22,900	
Kansas						Ohio					
September	24,450	23,300	22,650	22,800	22,350	September	29,200	29,650	29,750	29,500	30,750
October	24,000	23,700	22,450	22,600	21,650	October	29,700	29,650	29,200	29,250	30,300
November	24,000	23,650	22,450	22,650		November	29,600	29,600	29,600	29,150	
Final	24,000	23,650	22,450	22,650		Final	29,600	29,600	29,600	29,150	
Minnesota						South Dakota					
September	31,050	30,500	30,550	30,750	30,850	September	24,850	26,200	25,650	26,250	28,100
October	31,050	30,400	30,350	30,850	30,850	October	24,400	25,900	25,350	26,150	27,750
November	30,750	30,450	30,250	30,850		November	24,450	25,750	25,450	26,200	
Final	30,950	30,450	30,250	30,600		Final	24,450	25,750	25,450	25,850	
Missouri						Wisconsin					
September	27,800	27,350	26,900	27,750	27,400	September	30,000	29,500	29,300	28,950	30,700
October	27,950	26,900	27,150	27,800	27,300	October	29,750	28,950	28,900	28,800	30,450
November	27,900	26,850	27,150	27,850		November	29,550	28,600	28,750	28,600	
Final	27,900	26,850	27,150	27,850		Final	29,700	28,600	28,750	28,550	
						10-State					
						September	29,000	29,050	28,550	28,550	29,350
						October	28,850	28,950	28,350	28,550	29,100
						November	28,750	28,900	28,400	28,500	
						Final	28,750	28,900	28,400	28,450	

Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2014-2018

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

Year	October		November	
	Dent stage ¹	Mature ²	Dent stage ¹	Mature ²
	(percent)	(percent)	(percent)	(percent)
2014		39		(Z) 96
2015		16		(Z) 96
2016		17		(Z) 96
2017		41		(Z) 96
2018		13		80

(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 2018. Randomly selected plots in soybean fields are visited monthly from August 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: 2014-2018

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

State and month	2014	2015	2016	2017	2018	State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						Missouri					
September	1,925	1,729	1,884	1,992	1,841	September	2,050	1,612	1,881	2,041	1,777
October	1,960	1,737	1,805	1,898	1,795	October	1,969	1,755	2,006	2,172	1,899
November	1,999	1,813	1,820	2,039		November	2,055	1,869	2,123	2,253	
Final	1,999	1,818	1,826	2,075		Final	2,043	1,899	2,164	2,239	
Illinois						Nebraska					
September	1,922	1,980	1,969	1,917	2,132	September	1,634	1,816	1,947	1,653	1,736
October	1,913	2,052	2,109	1,886	2,225	October	1,707	1,863	2,036	1,795	2,071
November	1,964	2,086	2,193	1,947		November	1,743	1,884	2,074	1,853	
Final	1,968	2,079	2,197	1,947		Final	1,743	1,884	2,074	1,853	
Indiana						North Dakota					
September	1,518	1,641	1,683	1,795	1,880	September	1,281	1,321	1,395	1,406	1,418
October	1,634	1,703	1,775	1,772	2,001	October	1,266	1,330	1,444	1,430	1,485
November	1,661	1,691	1,873	1,774		November	1,454	1,337	1,442	1,465	
Final	1,660	1,691	1,873	1,774		Final	1,459	1,337	1,470	1,451	
Iowa						Ohio					
September	1,621	1,779	1,808	1,644	1,823	September	1,882	1,621	1,773	1,765	2,019
October	1,690	1,805	1,801	1,670	1,984	October	1,835	1,691	1,715	1,714	2,180
November	1,772	1,834	1,861	1,717		November	1,796	1,776	1,782	1,828	
Final	1,768	1,834	1,890	1,735		Final	1,796	1,776	1,782	1,823	
Kansas						South Dakota					
September	1,303	1,285	1,467	1,487	1,552	September	1,533	1,541	1,561	1,511	1,649
October	1,384	1,602	1,643	1,472	1,456	October	1,485	1,557	1,639	1,472	1,867
November	1,428	1,715	1,720	1,561		November	1,498	1,563	1,709	1,457	
Final	1,453	1,715	1,737	1,561		Final	1,501	1,563	1,665	1,457	
Minnesota						11-State					
September	1,414	1,637	1,614	1,359	1,605	September	1,651	1,672	1,741	1,678	1,786
October	1,431	1,644	1,625	1,407	1,616	October	1,667	1,731	1,800	1,692	1,895
November	1,434	1,612	1,658	1,480		November	1,719	1,763	1,862	1,751	
Final	1,434	1,612	1,658	1,480		Final	1,720	1,764	1,870	1,752	

Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2014-2018

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

Year	October	November
	Mature ¹	Mature ¹
	(percent)	(percent)
2014	35	92
2015	54	95
2016	53	93
2017	49	93
2018	57	

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

Cotton Objective Yield Data

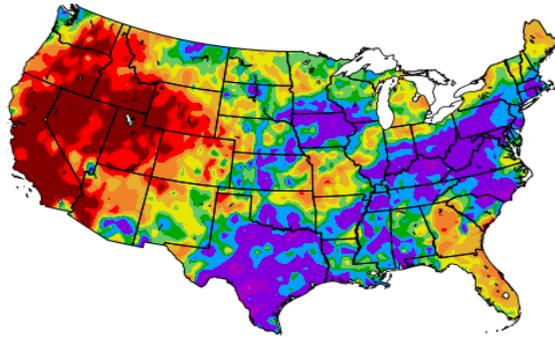
The National Agricultural Statistics Service conducted objective yield surveys in six cotton-producing States during 2018. Randomly selected plots in cotton fields were visited monthly from August through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

Cotton Cumulative Boll Counts – Selected States: 2014-2018

[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]

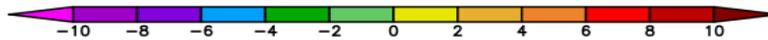
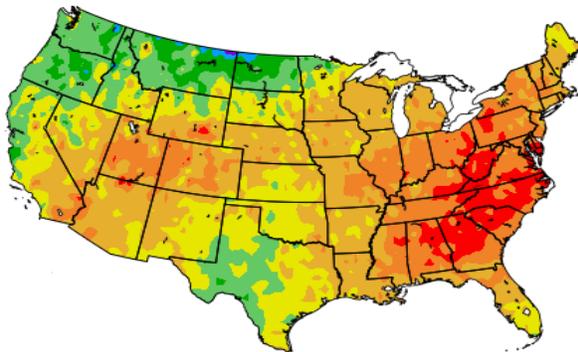
State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)
Arkansas					
September	910	763	800	911	891
October	741	769	769	839	910
November	771	856	779	825	
December	773	856	779	825	
Final	773	856	779	825	
Georgia					
September	660	645	562	593	605
October	660	630	668	608	737
November	717	748	719	680	
December	718	759	725	684	
Final	719	759	725	684	
Louisiana					
September	745	676	654	648	759
October	876	776	760	667	734
November	877	794	784	665	
December	877	793	784	665	
Final	877	793	784	665	
Mississippi					
September	843	887	953	904	871
October	808	839	942	810	895
November	861	898	974	804	
December	861	898	974	797	
Final	861	898	974	797	
North Carolina					
September	604	551	558	637	601
October	629	620	599	705	641
November	765	624	660	769	
December	764	632	660	769	
Final	764	632	660	769	
Texas					
September	485	566	467	592	570
October	373	442	474	602	576
November	453	481	528	603	
December	461	492	547	615	
Final	482	495	546	614	
6-State					
September	564	601	532	633	627
October	487	518	554	635	661
November	561	571	604	649	
December	566	581	618	656	
Final	587	583	618	656	

Percent of Normal Precipitation (%)
9/1/2018 – 9/30/2018



NOAA Regional Climate Centers

Departure from Normal Temperature (F)
9/1/2018 – 9/30/2018



NOAA Regional Climate Centers

September Weather Summary

Tropical moisture, most directly associated with Hurricane Florence, but also provided by Tropical Storm Gordon and Tropical Depression Nineteen-E, contributed to heavy rain in various parts of the country. Florence, which struck the southern Mid-Atlantic coast as a Category 1 hurricane on September 14, produced catastrophic flooding in parts of the eastern Carolinas. Agricultural losses due to flooding included poultry and hogs, as well as immature row crops such as cotton, peanuts, and soybeans.

More than a week earlier, on September 4, Gordon had made landfall along the central Gulf Coast and eventually merged with a cold front to spark heavy rain from the Ohio Valley into the northern Mid-Atlantic region. Finally, Tropical Depression Nineteen-E arrived across northwestern Mexico on September 19 and later helped to boost rainfall totals in the south-central United States.

Periods of heavy rain also soaked the upper Midwest, triggering additional rounds of lowland flooding and locally slowing early-season corn and soybean harvest efforts, despite earlier-than-normal crop maturation. By September 30, roughly one-quarter of the Nation's corn (26 percent) and soybeans (23 percent) had been harvested, slightly ahead of the respective 5-year averages of 17 and 20 percent. In addition, the early crop maturation protected upper Midwestern corn and soybeans in late September, when freezes struck Minnesota, North Dakota, and Wisconsin.

The widespread rain, east of the Rockies, reduced drought coverage in the contiguous United States from 34 to 29 percent during the 4-week period ending October 2, according to the U.S. Drought Monitor, with the most substantial improvement occurring on the southern Plains. In contrast, drier-than-normal conditions dominated the West. In particular, little or no September precipitation fell across California, the Great Basin, and the Intermountain West, accompanied by mostly above-normal temperatures. Despite the warm, dry conditions, wildfires burned less than a million acres of Western vegetation during September. Still, nearly 7.8 million acres had burned nationally by the end of September, roughly 130 percent of the 10-year average.

Generally cool weather prevailed in September from the Pacific Northwest to the northern Plains. Most of the remainder of the country experienced near- or above-normal monthly temperatures, with record-setting warmth affecting many locations in the Ohio Valley and the Southeast. For a few places in Florida, including Tampa, September 2018 was the hottest month on record for any time of year.

September Agricultural Summary

Average monthly temperatures were generally above normal across the eastern United States with areas in the Southeast recording average temperatures 4°F above normal in September. Temperatures were cooler than normal in the northern Rocky Mountains, Pacific Northwest, northern California, and in parts of Texas and Nevada for nearly the entire month. Precipitation levels were normal across the United States, except in the Corn Belt, Gulf Coast, and along the Atlantic Coast where Hurricane Florence brought significant amounts of rainfall and wind. In mid-September, portions of North Carolina and South Carolina received significant precipitation from Hurricane Florence with some areas recording 10 to 30 inches during the month.

By September 2, ninety-six percent of the Nation's corn acreage was at or beyond the dough stage, 5 percentage points ahead of both last year and the 5-year average. Seventy-five percent of this year's acreage was at or beyond the denting stage by September 2, seventeen percentage points ahead of last year and 15 percentage points ahead of the 5-year average. Twenty-two percent of the Nation's corn acreage was mature by September 2, eleven percentage points ahead of both last year and the 5-year average. Ninety-three percent of this year's acreage was at or beyond the denting stage by September 16, nine percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Fifty-four percent of the Nation's corn acreage was mature by September 16, twenty-two percentage points ahead of last year and 18 percentage points ahead of the 5-year average. Corn harvested across the Nation was 9 percent complete by September 16, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Eighty-six percent of the Nation's corn acreage was mature by September 30, twenty percentage points ahead of last year and 15 percentage points ahead of the 5-year average. Corn harvested across the Nation was 26 percent complete by September 30, ten percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Overall,

69 percent of the corn acreage was reported in good to excellent condition by September 30, six percentage points higher than at the same time last year.

Sixteen percent of the Nation's soybean acreage was at or beyond the dropping leaves stage by September 2, six percentage points ahead of last year and 7 percentage points ahead of the 5-year average. By September 16, fifty-three percent of the Nation's soybean acreage was at or beyond the leaf dropping stage, 15 percentage points ahead of last year and 17 percentage points ahead of the 5-year average. Soybeans harvested across the Nation was 6 percent complete by September 16, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Eighty-three percent of the Nation's soybean acreage was at or beyond the leaf dropping stage by September 30, five percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Soybeans harvested across the Nation was 23 percent complete by September 30, three percentage points ahead of both last year and the 5-year average. Sixty-eight percent of the Nation's soybean acreage was rated in good to excellent condition by September 30, eight percentage points above the same time last year.

By September 16, producers had sown 13 percent of the intended 2019 winter wheat acreage, 1 percentage point ahead of last year but 1 percentage point behind the 5-year average. By September 30, producers had sown 43 percent of the Nation's winter wheat acreage, 9 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Nationwide, 14 percent of the winter wheat crop was emerged by September 30, four percentage points ahead of last year but unchanged from the 5-year average.

Ninety-six percent of the Nation's cotton acreage had reached the boll setting stage by September 2, equal to both last year and the 5-year average. Bolls were opening in 29 percent of the Nation's cotton fields by September 2, five percentage points ahead of last year and 3 percentage points ahead of the 5-year average. By September 16, forty-nine percent of the Nation's cotton fields had bolls opening, 6 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Thirteen percent of the Nation's cotton acreage was harvested by September 16, two percentage points ahead of last year and 7 percentage points ahead of the 5-year average. By September 30, sixty-seven percent of the Nation's cotton fields had bolls opening, 1 percentage point ahead of last year but unchanged from the 5-year average. Nineteen percent of the Nation's cotton acreage was harvested by September 30, two percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Overall, 42 percent of the cotton acreage was rated in good to excellent condition by September 30, fifteen percentage points below the same time last year.

By September 2, heading of this year's sorghum acreage was 96 percent complete, 1 percentage point ahead of both last year and the 5-year average. Sixty-nine percent of the Nation's sorghum acreage was at or beyond the coloring stage by September 2, nine percentage points ahead of last year and 7 percentage points ahead of the 5-year average. By September 2, thirty percent of the Nation's sorghum acreage was considered mature, 1 percentage point behind last year and 3 percentage points behind the 5-year average. By September 2, producers had harvested 22 percent of the Nation's acreage, 1 percentage point behind both last year and the 5-year average. By September 16, eighty-eight percent of the Nation's sorghum acreage was at or beyond the coloring stage, 5 percentage points ahead of both last year and the 5-year average. Forty-one percent of the Nation's sorghum acreage was considered mature by September 16, one percentage point behind last year and 3 percentage points behind the 5-year average. Producers harvested 26 percent of the Nation's acreage by September 16, two percentage points behind last year and 3 percentage points behind the 5-year average. By September 30, ninety-seven percent of the Nation's sorghum acreage was at or beyond the coloring stage, 4 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. Sixty-two percent of the Nation's sorghum acreage was considered mature by September 30, three percentage points ahead of last year but 1 percentage point behind the 5-year average. By September 30, producers had harvested 34 percent of the Nation's sorghum acreage, unchanged from last year but 2 percentage points behind the 5-year average. Fifty-four percent of the Nation's sorghum acreage was rated in good to excellent condition as of September 30, ten percentage points below the same time last year.

Thirty-one percent of the Nation's rice acreage was harvested by September 2, three percentage points ahead of last year and 5 percentage points ahead of the 5-year average. By September 16, forty-nine percent of the Nation's rice acreage was harvested, 4 percentage points behind last year but 2 percentage points ahead of the 5-year average. Overall, 74 percent of the Nation's rice acreage was rated in good to excellent condition by September 16, five percentage points above the same time last year. By September 30, seventy percent of the Nation's rice acreage was harvested, 6 percentage points behind last year but unchanged from the 5-year average.

By September 2, ninety-four percent of the Nation's oat acreage had been harvested, 4 percentage points ahead of last year and 3 percentage points ahead of the 5-year average.

Eighty-four percent of the Nation's barley acreage was harvested by September 2, seven percentage points behind last year but 1 percentage point ahead of the 5-year average. By September 16, barley producers had harvested 96 percent of the Nation's barley acreage, 3 percentage point behind last year and 1 percentage point behind the 5-year average.

By September 2, eighty-seven percent of the Nation's spring wheat acreage was harvested, unchanged from last year but 12 percentage points ahead of the 5-year average. As of September 16, ninety-seven percent of the Nation's spring wheat acreage was harvested, 1 percentage point behind last year but 5 percentage points ahead of the 5-year average.

Three percent of the Nation's peanut acreage was harvested as of September 16, three percentage points behind both last year and the 5-year average. Twenty-one percent of the Nation's peanut acreage was harvested as of September 30, two percentage points behind last year but 2 percentage points ahead of the 5-year average. Overall, 71 percent of the Nation's peanut acreage was reported in good to excellent condition by September 30, four percentage points below the same time last year.

By September 16, producers had harvested 12 percent of the Nation's sugarbeet crop, 3 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. By September 30, sugarbeet producers had harvested 22 percent of the Nation's sugarbeet acreage, 1 percentage point ahead of last year and 2 percentage points ahead of the 5-year average.

Crop Comments

Corn: Acreage updates were made in several States following a thorough review of all available data. Total planted area, at 89.1 million acres, is up slightly from the previous estimate. Acreage harvested for grain is forecast at 81.8 million acres, down slightly from the previous estimate and down 1 percent from 2017.

The October 1 corn objective yield data indicate the 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 14.8 billion bushels, 2018 corn production is forecast to be the second highest production on record for the United States. The forecasted yield, at 180.7 bushels per acre is forecast to be the highest yield on record for the United States. Record high yields are forecast for Alabama, Illinois, Indiana, Iowa, Kentucky, Michigan, Nebraska, New York, Ohio, South Dakota, Tennessee, and Wisconsin.

Eighty-six percent of the Nation's corn acreage was mature by September 30, twenty percentage points ahead of last year and 15 percentage points ahead of the 5-year average. Corn harvested across the Nation was 26 percent complete, 10 percentage points ahead of last year and 9 percentage points ahead of the 5-year average. Overall, 69 percent of the corn acreage was reported in good to excellent condition, 6 percentage points higher than at the same time last year.

Sorghum: Production is forecast at 382 million bushels, up 1 percent from the September forecast and up 5 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 down 4 percent from the previous estimate but is up 3 percent from last year. Area harvested for grain is forecast at 5.09 million acres, down 4 percent from the previous forecast but up 1 percent from last year. Based on October 1 conditions, yield is forecast at 75.0 bushels per acre, 3.9 bushels higher than the September forecast and 2.9 bushels higher than the 2017 yield of 72.1 bushels per acre. The average yield for the Nation will be the third highest on record, if realized. A record high yield is forecast in Kansas.

As of September 30, ninety-seven percent of the crop had reached the coloring stage, 4 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. Sixty-two percent of the crop was considered mature at that time, 3 percentage points ahead of last year but 1 percentage point behind the 5-year average. As of September 30,

producers harvested 34 percent of the Nation's acreage, unchanged from last year but 2 percentage points behind the 5-year average. As of September 30, fifty-four percent of the Nation's sorghum was rated in good to excellent condition, down 10 percentage points from the same time last year.

Rice: Production is forecast at 219 million cwt, down less than 1 percent from the September forecast, but up 23 percent from last year. Area for harvest is expected to total 2.90 million acres, unchanged from the September forecast and up 22 percent from last year. Based on conditions as of October 1, the average United States yield is forecast at 7,539 pounds per acre, down 24 pounds per acre from the September forecast, but 32 pounds per acre higher than the 2017 average yield of 7,507 pounds per acre.

As of September 30, seventy percent of the rice acreage was harvested, 6 percentage points below the same time last year but unchanged from the 5-year average pace. Harvest was virtually complete in Louisiana and Texas as of September 30.

Soybeans: Acreage updates were made in several States based on a thorough review of all available data. Planted area, at 89.1 million acres, is down 1 percent from the previous estimate. Area for harvest is forecast at a record 88.3 million acres, down 1 percent from the September forecast and down 1 percent from 2017.

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 record high pod count compared to the previous year. Compared with final counts for 2017, pod counts are up in 8 of the 11 published States. An increase of more than 200 pods per 18 square feet from 2017's final pod count is expected in Illinois, Indiana, Iowa, Nebraska, Ohio, and South Dakota.

As of September 30, eighty-three percent of the United States soybean crop was dropping leaves or beyond, 5 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Soybean harvest was 23 percent complete as of September 30, three percentage points ahead of last year and 3 percentage points ahead of the 5-year average. At that time, harvest progress was at or ahead of the State 5-year average in 13 of the 18 estimating States. As of September 30, sixty-eight percent of the Nation's soybean crop was rated in good to excellent condition, 8 percentage points above the same week last year.

If realized, the forecasted yield will be a record high in Alabama, Illinois, Indiana, Iowa, Kentucky, Mississippi, Nebraska, New York, Ohio, Pennsylvania, South Dakota, and Tennessee.

Sunflower: The first production forecast for 2018 is 1.93 billion pounds, down 10 percent from the revised 2017 production of 2.16 billion pounds. If realized, production for the Nation will be the lowest since 1989. Area planted, at 1.30 million acres, is down 11 percent from the June estimate and down 7 percent from last year. Sunflower growers expect to harvest 1.24 million acres, down 12 percent from June and down 7 percent from the 2017 acreage. If realized, both planted and harvested area for the Nation will be the lowest since 1976. The October yield forecast, at 1,560 pounds per acre, is 56 pounds lower than last year's yield but will be the fourth highest on record, if realized.

As of October 1, lower yields are expected in 6 of the 8 published States compared with last year, with increases only expected in California and Kansas. Compared with last year, average yields forecast in North and South Dakota are down 45 pounds per acre and 100 pounds per acre, respectively. The forecasted production in South Dakota, the leading sunflower-producing State this year, is 895 million pounds, down 13 percent from 2017. In North Dakota, production is forecast at 674 million pounds, which would represent the second lowest production since 1976, if realized.

Peanuts: Production is forecast at 5.77 billion pounds, up slightly from the September forecast and down 19 percent from the revised 2017 total of 7.12 billion pounds. Harvested area is expected to total 1.38 million acres, down slightly from the September forecast and down 22 percent from 2017. Based on conditions as of October 1, the average yield for the United States is forecast at 4,167 pounds per acre, up 16 pounds per acre from September and up 160 pounds per acre from the 2017 average yield of 4,007 pounds per acre. Record high yields are forecast in Alabama and Florida.

As of September 30, twenty-one percent of the 2018 peanut crop had been harvested, 2 percentage points below last year but 2 percentage points ahead of the 5-year average. Seventy-one percent of the crop was rated in good to excellent condition on September 30, compared with 75 percent at the same time last year.

Canola: The first production forecast for 2018 is 3.62 billion pounds, up 16 percent from the 2017 production of 3.12 billion pounds. If realized, this will be the largest production on record for the United States. Area planted, at 1.99 million acres, is down 3 percent from the June estimate and down 4 percent from last year's record high area. Canola farmers expect to harvest 1.94 million acres, down 4 percent from June and down 3 percent from 2017. If realized, harvested area for the Nation will be the second largest on record. The October yield forecast, at a record high 1,864 pounds per acre, is 306 pounds above last year's yield. If realized, the yield forecast in Idaho, North Dakota, and Washington will be the highest on record since the published data series began for those States.

The yield in North Dakota, the largest canola-producing State, is forecast at 1,920 pounds per acre, up 290 pounds from last year's yield. Planted area in North Dakota is estimated at 1.59 million acres, unchanged from last year's record high. Planting of the canola crop in North Dakota was generally behind last year's pace, and didn't catch up to the 5-year average until near the end of May. Blooming of the canola crop began in early June behind both last year's pace and the 5-year average pace. By July 1, blooming of the canola crop had advanced ahead of both last year's pace and the 5-year average pace. Maturation of the crop remained mostly ahead of both last year's pace and the 5-year average pace for the remainder of the growing season and harvest was underway by early August. Harvest progress reached 91 percent complete by September 23, three percentage points behind last year but 2 percentage points ahead of the 5-year average. Ninety-four percent of the crop was harvested by September 30.

Cotton: Upland cotton harvested area for the Nation is expected to total 10.3 million acres, down less than 1 percent from September and down 5 percent from last year. Pima cotton harvested area, estimated at 245,400 acres, was carried forward from last month.

As of September 30, forty-two percent of the cotton acreage was rated in good to excellent condition, compared with 57 percent at the same time last year. Acreage rated in good to excellent condition dropped 14 percentage points or more in North Carolina and South Carolina from the week ending September 2, as Hurricane Florence made landfall in mid-September and brought significant flooding and wind damage. Despite the decline in conditions in the Carolinas, the acreage rated in good to excellent condition for the 15 weekly *Crop Progress* estimating States increased 1 percentage point during the month of September, primarily due to an increase of 7 percentage points in good to excellent condition ratings in Texas.

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

Ginnings totaled 1,287,350 running bales prior to October 1, compared with 1,249,300 running bales ginned prior to the same date last year.

Alfalfa and alfalfa mixtures: Production of alfalfa and alfalfa mixture dry hay for 2018 is forecast at 59.5 million tons, up 3 percent from the August forecast and up 8 percent from 2017. Based on October 1 conditions, yields are expected to average 3.43 tons per acre, up 0.10 ton from the August forecast and up 0.11 ton from last year. Harvested area is forecast at 17.4 million acres up 5 percent from 2017.

Montana, North Dakota, and South Dakota, the top three States in area of alfalfa and alfalfa mixtures in 2018, experienced drought conditions last year. Each of these States is expecting increased acres and improved yields in 2018 compared with 2017. A record high yield is expected in Pennsylvania.

Other hay: Production of other hay is forecast at 74.9 million tons, up 6 percent from the August forecast but down 2 percent from 2017. Based on October 1 conditions, the United States yield is expected to average 1.98 tons per acre, up 0.10 ton from the August forecast but down 0.07 ton from last year. Harvested area is forecast at 37.7 million acres up 1 percent from 2017.

Texas and Missouri, the top two States in area of other hay in 2018, are experiencing drought conditions of varying intensity. As a result, both of these States are expecting lower yields than last year. Favorable conditions in Alabama, Georgia, Kentucky, Montana, Nebraska, and Oklahoma have producers expecting record high yields in 2018.

Dry beans: United States dry edible bean production is forecast at 37.8 million cwt for 2018, up 6 percent from last year. If realized, this will be a record high production. Planted area is estimated at 2.08 million acres, down 1 percent from 2017. Harvested area is forecast at 2.01 million acres, down less than 1 percent from the previous year. The average United States yield is forecast at 1,884 pounds per acre, an increase of 103 pounds from 2017. If realized, Michigan, Minnesota, and Nebraska yields will be record highs.

In North Dakota, as of September 30, harvest was 91 percent complete, well ahead of the 5-year average of 66 percent. Between June 1 and August 31, temperatures averaged mostly above normal, while precipitation was average to above average, except for the northeastern part of North Dakota, which was below normal. As September 30, harvest in Montana was 89 percent complete, but behind the drought in 2017 where harvest was nearly complete by September 16.

In Michigan, as of September 30, nearly half of the bean crop was harvested and on schedule. Crop condition was rated mostly fair to good. In Minnesota, by mid-September, dry beans were rated mostly fair to good. As of September 30, ninety-four percent of the crop had been harvested, over two weeks ahead of the 5-year average.

Spring potatoes: Production of 2018 spring potatoes totaled 15.4 million cwt, down 22 percent from the 2017 crop. Area harvested, at 45,800 acres, decreased 21 percent from 2017. The average yield, at 336 cwt per acre, was down 7 cwt from 2017.

California's dry winter elevated concerns over water allotments early in the season, and a wet, cold spring further hindered planting which resulted in reduced planted acreage. Florida's growing conditions were dry early in the season which had a minimal impact on yield as most of the growing areas were in drought conditions throughout the spring. Some potato acreage was reported lost due to a late March frost.

Tobacco: The 2018 United States all tobacco production is forecast at 548 million pounds, down 23 percent from 2017. Area harvested, at 301,980 acres, is 6 percent below last year. Yield for the 2018 crop year is forecast at 1,814 pounds per acre, 395 pounds below last year.

Flue-cured tobacco production is expected to total 342 million pounds, down 26 percent from the 2017 crop. North Carolina growers were hit by Hurricane Florence mostly in the southeast part of the State. Growers reported significant damage and many were still deciding whether or not to continue harvesting.

Burley tobacco production is expected to total 113 million pounds, down 30 percent from last year. In Kentucky, 82 percent of the crop was harvested as of September 30, five percent below average. Some growers reported tobacco rotting in the field due to a wet September. Growers also reported bacterial leaf drop with some fields losing as much as 50 percent of their leaves.

Sugarbeets: Production of sugarbeets, for the 2018 crop year, is forecast at 35.2 million tons, down slightly from last year. Producers expect to harvest 1.10 million acres, down 1 percent from last year. Expected yield is forecast at 32.0 tons per acre, an increase of 0.3 ton from last year.

As of September 30, harvest was 10 percent complete in Colorado, Idaho, Nebraska, Oregon, and Washington. Sugar content was higher than expected in Idaho, Oregon, and Washington. Initial harvested beets in Michigan produced a better than expected yield. Leafspot and plant density issues caused a drop in expected yield in Minnesota and North Dakota.

Sugarcane: Production of sugarcane for sugar and seed in 2018 is forecast at 33.1 million tons, down slightly from last year. Producers intend to harvest 925,000 acres for sugar and seed during the 2018 crop year, up 2 percent from last year. Expected yield for sugar and seed is forecast at 35.8 tons per acre, down 1.0 ton from 2017.

Wet, warm weather dominated the start of harvest in Louisiana. Mud and trash were lowering sugar recoveries, but early indications were for high sugar recoveries once the weather dries. Early field observations indicated a higher than expected yield.

Grapefruit: The United States 2018-2019 grapefruit crop is forecast at 689,000 tons, up 33 percent from last season's final utilization. In Texas, expected production, at 6.20 million boxes (248,000 tons), is up 29 percent from last year.

Lemons: The forecast for the 2018-2019 United States lemon crop is 856,000 tons, down 4 percent from last season's final utilization. The California production forecast, at 20.0 million boxes (800,000 tons), is down 6 percent from the 2017-2018 season.

Tangerines and mandarins: The United States tangerine and mandarin crop is forecast at 977,000 tons, up 22 percent from last season's final utilization. The California tangerine and mandarin forecast, at 23.0 million boxes (920,000 tons), is up 20 percent from the previous year. The Florida tangerine and mandarin forecast is up 60 percent from last year.

Florida citrus: In the citrus growing region, reported daily temperatures were above average all month. Daily highs ranged from the mid-80s to mid-90s, with the majority of days reaching 91 F or above. Precipitation was irregular with only a few days of significant rainfall. Nearly all monitored citrus stations received less than average rainfall during the month. In the Central citrus growing area, Frost proof (Polk County) received the most rainfall at 6.25 inches, and in the Western citrus growing area, Balm (Hillsborough County) received the most at 4.58 inches. The Indian River District received the least rainfall, while Vero Beach (Indian River County) recorded the most on the east coast at 3.62 inches. According to the October 2, 2018 U.S. Drought Monitor, the majority of the Indian River District, and a small portion of the Central growing area began showing abnormally dry conditions. The remainder of the citrus growing region was drought free.

Caretakers were spraying, pulling vines and taking care of resets. Reports showed they were putting down fall miticide sprays for citrus rust mite and spider mite control. Due to deficit rainfall during the month, irrigation was being run on a regular basis in all areas. Reports on the health of the trees and progress of the fruit has been positive in well maintained groves. Owners were testing maturity levels for harvest of early oranges, grapefruit and tangerines. Packinghouses were setting up, getting ready to run early variety fruit.

California citrus: Lemons and limes were harvested. Valencia orange harvest continued with light volumes. Citrus groves were skirted, hedge-rowed, and irrigated. Pushed out citrus groves were prepared for planting and some were planted. Navel orange fruit thinning was ongoing. Finger lime harvest began at the end of the month in Tulare County. Citrus budding began for some varieties.

California noncitrus fruits and nuts: Grape vineyards were irrigated. Table grape harvest was ongoing. Raisin grapes were harvested and laid out for sun drying. Some early wine grapes, peaches, nectarines, pears, plums, and pomegranates were harvested. Stone fruit orchards were sprayed, irrigated, and fertilized. Summer pruning and topping of harvested stone fruit orchards continued. Some old orchards were torn out for replacement with new trees. Persimmon fruit was showing some color. Olives and persimmons continued to mature well. Almond, walnut, and pistachio orchard irrigation continued. Orchard floors were prepared for harvest. Almond and pistachio harvesting progressed, while harvesting of walnuts began in Tulare and Sutter County early in the month. By the end of September, walnut harvest was well underway.

Pecans: Production is forecast at 279 million pounds (utilized, in-shell basis), down 5 percent from 2017. Improved varieties are expected to produce 258 million pounds or 93 percent of the total. The native and seedling varieties are expected to produce 20.7 million pounds, making up the remaining 7 percent of production.

Statistical Methodology

Field crop survey procedures: Objective yield and farm operator surveys were conducted between September 24 and October 3 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 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.

The farm operator survey was conducted primarily by telephone with some use of mail, internet, and personal interviewers. Approximately 11,200 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 1.6 percent. This means that chances are 2 out of 3 that the current production forecast will not be above or below the final estimate by more than 1.6 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.8 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 148 million bushels, ranging from 3 million bushels to 374 million bushels. The October 1 forecast has been below the final estimate 10 times and above 9 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	1.6	2.8	148	3	374	10	9
Dry edible beans cwt	3.6	6.3	1	(Z)	3	14	5
Oranges ¹ tons	8.0	13.8	538	2	1,676	4	15
Oranges ^{1 2} tons	5.6	9.8	392	2	1,102	4	11
Rice cwt	2.0	3.4	3	(Z)	12	10	9
Sorghum for grain bushels	5.1	8.8	14	1	31	10	9
Soybeans for beans bushels	2.3	4.0	52	(Z)	182	12	7
Upland cotton ¹ bales	4.9	8.5	719	76	1,675	10	9

(Z) Less than half of the unit shown.

¹ Quantity is in thousands of units.

² Excluding freeze and hurricane seasons.

USDA, National Agricultural Statistics Service Information Contacts

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Sammy Neal – Peanuts, Rice	(202) 720-7688
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Jean Porter – Rye, Wheat	(202) 720-8068
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Greg Lemmons – Blackberries, Blueberries, Boysenberries, Cranberries, Cucumbers, Potatoes, Pumpkins, Raspberries, Squash, Sugarbeets, Sugarcane, Sweet Potatoes	(202) 720-4285
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