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Released October 12, 2017, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

**Corn Production Up 1 Percent from September Forecast**  
**Soybean Production Down Slightly**  
**Cotton Production Down 3 Percent**  
**Orange Production Down 16 Percent from Last Season**

**Corn** production is forecast at 14.3 billion bushels, down 6 percent from last year but up 1 percent from the September forecast. Based on conditions as of October 1, yields are expected to average 171.8 bushels per acre, up 1.9 bushels from the September forecast but down 2.8 bushels from 2016. If realized, this will be the second highest yield and production on record for the United States. Area harvested for grain is forecast at 83.1 million acres, down less than 1 percent from the previous estimate and down 4 percent from 2016. Acreage updates were made in several States based on a thorough review of all available data.

**Soybean** production is forecast at a record 4.43 billion bushels, down slightly from September but up 3 percent from last year. Based on October 1 conditions, yields are expected to average 49.5 bushels per acre, down 0.4 bushel from last month and down 2.5 bushels from last year. Area for harvest in the United States is forecast at a record high 89.5 million acres, up 1 percent from September and up 8 percent from 2016. Acreage updates were made in several States based on a thorough review of all available data.

**All cotton** production is forecast at 21.1 million 480-pound bales, down 3 percent from September but up 23 percent from last year. Yield is expected to average 889 pounds per harvested acre, down 19 pounds from last month but up 22 pounds from last year. If realized, the cotton yield forecast for the Nation will be the second highest yield on record. Upland cotton production is forecast at 20.4 million 480-pound bales, up 23 percent from 2016. Pima cotton production, forecast at 727,000 bales, was carried forward from last month.

**The United States all orange** forecast for the 2017-2018 season is 4.34 million tons, down 16 percent from the 2016-2017 final utilization. The Florida all orange forecast, at 54.0 million boxes (2.43 million tons), is down 21 percent from last season's final utilization. Early, midseason, and Navel varieties in Florida are forecast at 23.0 million boxes (1.04 million tons), down 30 percent from last season's final utilization. The Florida Valencia orange forecast, at 31.0 million boxes (1.40 million tons), is down 13 percent from last season's final utilization.

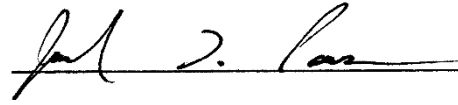
The California Navel orange forecast is 35.0 million boxes (1.40 million tons), down 11 percent from last season's final utilization. The California Valencia orange forecast is 11.0 million boxes (440,000 tons), unchanged from last season's final utilization. The Texas all orange forecast, at 1.65 million boxes (70,000 tons), is up 20 percent from last season's final utilization.

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This report was approved on October 12, 2017.



Secretary of Agriculture  
Designate  
Robert Johansson



Agricultural Statistics Board  
Chairperson  
Joseph L. Parsons

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## Selected Crops Area Planted and Harvested – States and United States: 2017

[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)	Planted (1,000 acres)	Harvested (1,000 acres)	Planted (1,000 acres)	Harvested (1,000 acres)	Planted (1,000 acres)	Harvested (1,000 acres)	Planted (1,000 acres)	Harvested (1,000 acres)
Alabama .....	250	235			350	340				
Arizona .....	65	31								
Arkansas .....	620	595	9	7	3,530	3,500				
California .....	460	100					47.5	47.0	25.0	24.5
Colorado .....	1,460	1,270	410	375			60.0	56.0	29.4	29.1
Connecticut .....	25									
Delaware .....	180	170			160	158				
Florida .....	75	42			15	14				
Georgia .....	290	250	20	10	155	145				
Idaho .....	340	100					185.0	182.0	167.0	167.0
Illinois .....	11,200	11,050	20	18	10,600	10,540				
Indiana .....	5,350	5,220			5,950	5,940				
Iowa .....	13,300	12,900			10,000	9,950				
Kansas .....	5,500	5,200	2,600	2,360	5,150	5,100				
Kentucky .....	1,330	1,240			1,950	1,940				
Louisiana .....	500	490	15	13	1,270	1,240				
Maine .....	31									
Maryland .....	480	425			500	495				
Massachusetts .....	15									
Michigan .....	2,300	1,950			2,290	2,280	220.0	217.0	144.0	143.0
Minnesota .....	8,100	7,650			8,150	8,100	175.0	168.0	428.0	413.0
Mississippi .....	520	500	5	4	2,190	2,170				
Missouri .....	3,400	3,250	30	24	6,000	5,920				
Montana .....	115	60					275.0	260.0	42.6	42.5
Nebraska .....	9,600	9,300	190	150	5,700	5,650	185.0	170.0	45.5	44.6
Nevada .....	11									
New Hampshire .....	14									
New Jersey .....	75	66			100	98				
New Mexico .....	115	46	90	66						
New York .....	1,010	530			270	265				
North Carolina .....	890	830	20	17	1,700	1,670				
North Dakota .....	3,420	3,190			7,150	7,100	700.0	675.0	214.0	208.0
Ohio .....	3,400	3,130			5,050	5,040				
Oklahoma .....	360	320	320	280	660	630				
Oregon .....	85	49							9.1	9.1
Pennsylvania .....	1,350	960			590	585				
Rhode Island .....	2									
South Carolina .....	350	325			400	390				
South Dakota .....	5,700	5,250	280	225	5,650	5,610				
Tennessee .....	760	705			1,690	1,660				
Texas .....	2,500	2,190	1,700	1,500	210	185	22.0	20.0		
Utah .....	85	32								
Vermont .....	82									
Virginia .....	500	340			600	590				
Washington .....	170	80					200.0	198.0	1.8	1.8
West Virginia .....	49	35			27	26				
Wisconsin .....	3,900	2,950			2,150	2,140				
Wyoming .....	95	63					42.0	40.0	31.7	31.6
United States .....	90,429	83,119	5,709	5,049	90,207	89,471	2,111.5	2,033.0	1,138.1	1,114.2

## Selected Crops Area Planted and Harvested – States and United States: 2017 (continued)

[Includes updates to planted and harvested area previously published]

State	Canola		Sunflower					
			Oil		Non-oil		All	
	Planted	Harvested	Planted	Harvested	Planted	Harvested	Planted	Harvested
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California .....			54.0	53.5	1.3	1.3	55.3	54.8
Colorado .....			80.0	76.0	13.0	12.0	93.0	88.0
Idaho .....	22.0	21.3						
Kansas .....	50.0	47.0	52.0	48.0	14.0	13.0	66.0	61.0
Minnesota .....	36.0	34.5	34.0	33.0	12.0	11.5	46.0	44.5
Montana .....	155.0	146.0						
Nebraska .....			30.0	28.0	16.0	14.0	46.0	42.0
North Dakota .....	1,590.0	1,580.0	395.0	385.0	35.0	33.0	430.0	418.0
Oklahoma .....	160.0	140.0						
Oregon .....	8.0	7.2						
South Dakota .....			540.0	525.0	83.0	79.0	623.0	604.0
Texas .....			30.0	27.0	15.0	13.0	45.0	40.0
Washington .....	55.0	52.0						
United States .....	2,076.0	2,028.0	1,215.0	1,175.5	189.3	176.8	1,404.3	1,352.3

## Rice Area Planted and Harvested – States and United States: 2017

[Includes updates to harvested area previously published]

State	Rice							
	Long		Medium		Short <sup>1</sup>		All	
	Planted	Harvested	Planted	Harvested	Planted	Harvested	Planted	Harvested
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas .....	995	945	165	147	1	1	1,161	1,093
California .....	7	7	415	411	40	40	462	458
Louisiana .....	370	366	30	29			400	395
Mississippi .....	120	118					120	118
Missouri .....	160	151	9	9			169	160
Texas .....	165	162	10	5			175	167
United States .....	1,817	1,749	629	601	41	41	2,487	2,391

<sup>1</sup> Sweet rice acreage included with short grain.

**Corn for Grain Area Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017**

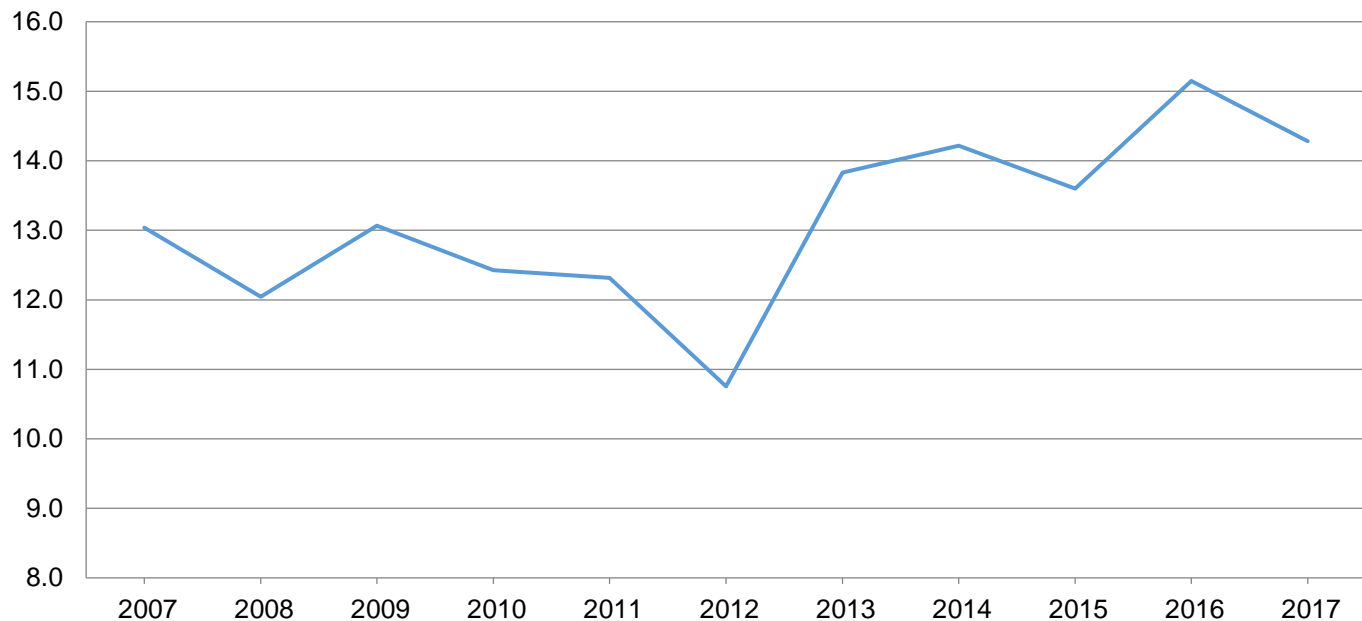
State	Area harvested		Yield per acre			Production	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama .....	315	235	120.0	167.0	170.0	37,800	39,950
Arkansas .....	745	595	171.0	182.0	179.0	127,395	106,505
California .....	100	100	185.0	178.0	184.0	18,500	18,400
Colorado .....	1,170	1,270	137.0	145.0	145.0	160,290	184,150
Delaware .....	164	170	170.0	200.0	190.0	27,880	32,300
Georgia .....	340	250	165.0	182.0	184.0	56,100	46,000
Idaho .....	100	100	188.0	205.0	210.0	18,800	21,000
Illinois .....	11,450	11,050	197.0	189.0	192.0	2,255,650	2,121,600
Indiana .....	5,470	5,220	173.0	171.0	173.0	946,310	903,060
Iowa .....	13,500	12,900	203.0	187.0	191.0	2,740,500	2,463,900
Kansas .....	4,920	5,200	142.0	133.0	134.0	698,640	696,800
Kentucky .....	1,400	1,240	159.0	171.0	174.0	222,600	215,760
Louisiana .....	550	490	165.0	185.0	183.0	90,750	89,670
Maryland .....	400	425	152.0	164.0	166.0	60,800	70,550
Michigan .....	2,040	1,950	157.0	169.0	168.0	320,280	327,600
Minnesota .....	8,000	7,650	193.0	182.0	184.0	1,544,000	1,407,600
Mississippi .....	720	500	166.0	185.0	188.0	119,520	94,000
Missouri .....	3,500	3,250	163.0	164.0	172.0	570,500	559,000
Nebraska .....	9,550	9,300	178.0	181.0	181.0	1,699,900	1,683,300
New York .....	570	530	129.0	150.0	147.0	73,530	77,910
North Carolina .....	940	830	129.0	142.0	138.0	121,260	114,540
North Dakota .....	3,270	3,190	158.0	124.0	126.0	516,660	401,940
Ohio .....	3,300	3,130	159.0	173.0	173.0	524,700	541,490
Oklahoma .....	350	320	121.0	120.0	123.0	42,350	39,360
Pennsylvania .....	950	960	129.0	160.0	163.0	122,550	156,480
South Carolina .....	350	325	127.0	135.0	135.0	44,450	43,875
South Dakota .....	5,130	5,250	161.0	145.0	147.0	825,930	771,750
Tennessee .....	830	705	151.0	168.0	170.0	125,330	119,850
Texas .....	2,550	2,190	127.0	140.0	142.0	323,850	310,980
Virginia .....	340	340	148.0	140.0	152.0	50,320	51,680
Washington .....	85	80	235.0	230.0	230.0	19,975	18,400
Wisconsin .....	3,220	2,950	178.0	162.0	164.0	573,160	483,800
Other States <sup>1</sup> .....	429	424	157.9	159.6	157.8	67,758	66,912
United States .....	86,748	83,119	174.6	169.9	171.8	15,148,038	14,280,112

<sup>1</sup> 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 2017 Summary*.



## Corn Production – United States

Billion bushels



## Sorghum for Grain Area Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017

State	Area harvested		Yield per acre			Production	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas .....	44	7	73.0	80.0	80.0	3,212	560
Colorado .....	415	375	50.0	51.0	55.0	20,750	20,625
Kansas .....	2,950	2,360	91.0	80.0	82.0	268,450	193,520
Louisiana .....	46	13	102.0	90.0	90.0	4,692	1,170
Mississippi .....	11	4	89.0	89.0	89.0	979	356
Missouri .....	54	24	95.0	95.0	90.0	5,130	2,160
Nebraska .....	175	150	102.0	94.0	96.0	17,850	14,400
Oklahoma .....	370	280	55.0	46.0	45.0	20,350	12,600
South Dakota .....	200	225	79.0	65.0	65.0	15,800	14,625
Texas .....	1,750	1,500	66.0	63.0	66.0	115,500	99,000
Other States <sup>1</sup> .....	148	111	51.0	51.0	49.1	7,548	5,445
United States .....	6,163	5,049	77.9	69.8	72.2	480,261	364,461

<sup>1</sup> Other States include Georgia, Illinois, New Mexico, and North Carolina. Individual State level estimates will be published in the *Crop Production 2017 Summary*.

## Rice Area Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017

State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas .....	1,521	1,093	6,920	7,300	7,350	105,314	80,336
California .....	536	458	8,840	8,800	8,600	47,394	39,388
Louisiana .....	428	395	6,630	7,000	7,000	28,390	27,650
Mississippi .....	194	118	7,180	7,200	7,200	13,929	8,496
Missouri .....	231	160	6,650	7,200	7,100	15,352	11,360
Texas .....	187	167	7,360	7,000	6,800	13,766	11,356
United States .....	3,097	2,391	7,237	7,504	7,469	224,145	178,586

<sup>1</sup> Includes sweet rice production.

## Rice Production by Class – United States: 2016 and Forecasted October 1, 2017

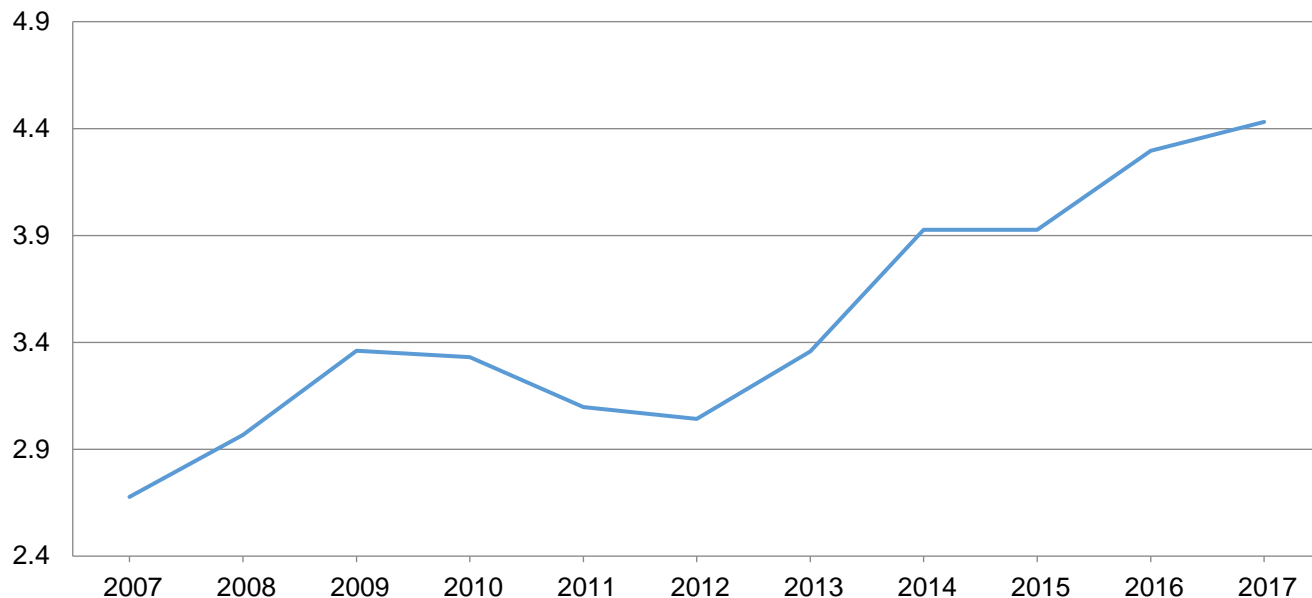
Year	Long grain	Medium grain	Short grain <sup>1</sup>	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2016 .....	166,465	54,533	3,147	224,145
2017 <sup>2</sup> .....	126,286	49,515	2,785	178,586

<sup>1</sup> Sweet rice production included with short grain.

<sup>2</sup> The 2017 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: 2016 and Forecasted October 1, 2017**

State	Area harvested		Yield per acre			Production	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama .....	410	340	32.0	44.0	44.0	13,120	14,960
Arkansas .....	3,100	3,500	47.0	51.0	51.0	145,700	178,500
Delaware .....	163	158	41.5	52.0	51.0	6,765	8,058
Georgia .....	240	145	30.0	44.0	45.0	7,200	6,525
Illinois .....	10,050	10,540	59.0	58.0	57.0	592,950	600,780
Indiana .....	5,630	5,940	57.5	56.0	55.0	323,725	326,700
Iowa .....	9,440	9,950	60.0	57.0	56.0	566,400	557,200
Kansas .....	4,010	5,100	48.0	43.0	41.0	192,480	209,100
Kentucky .....	1,780	1,940	50.0	52.0	53.0	89,000	102,820
Louisiana .....	1,190	1,240	48.5	52.0	54.0	57,715	66,960
Maryland .....	515	495	41.5	48.0	50.0	21,373	24,750
Michigan .....	2,060	2,280	50.5	48.0	49.0	104,030	111,720
Minnesota .....	7,490	8,100	52.0	47.0	46.0	389,480	372,600
Mississippi .....	2,020	2,170	48.0	52.0	52.0	96,960	112,840
Missouri .....	5,540	5,920	49.0	49.0	49.0	271,460	290,080
Nebraska .....	5,150	5,650	61.0	56.0	56.0	314,150	316,400
New Jersey .....	98	98	36.0	43.0	40.0	3,528	3,920
New York .....	320	265	41.0	47.0	49.0	13,120	12,985
North Carolina .....	1,660	1,670	35.0	38.0	39.0	58,100	65,130
North Dakota .....	5,990	7,100	41.5	35.0	36.0	248,585	255,600
Ohio .....	4,840	5,040	54.5	54.0	52.0	263,780	262,080
Oklahoma .....	470	630	29.0	27.0	27.0	13,630	17,010
Pennsylvania .....	575	585	44.0	50.0	52.0	25,300	30,420
South Carolina .....	405	390	31.0	36.0	36.0	12,555	14,040
South Dakota .....	5,170	5,610	49.5	45.0	45.0	255,915	252,450
Tennessee .....	1,630	1,660	45.0	48.0	50.0	73,350	83,000
Texas .....	145	185	31.0	40.0	37.0	4,495	6,845
Virginia .....	600	590	36.0	39.0	42.0	21,600	24,780
Wisconsin .....	1,950	2,140	55.0	48.0	47.0	107,250	100,580
Other States <sup>1</sup> .....	55	40	43.1	43.8	44.7	2,370	1,788
United States .....	82,696	89,471	52.0	49.9	49.5	4,296,086	4,430,621

<sup>1</sup> Other States include Florida and West Virginia. Individual State level estimates will be published in the *Crop Production 2017 Summary*.

## Sunflower Area Harvested, Yield, and Production by Type – States and United States: 2016 and Forecasted October 1, 2017

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

Varietal type and State	Area harvested		Yield per acre		Production	
	2016 (1,000 acres)	2017 (1,000 acres)	2016 (pounds)	2017 <sup>1</sup> (pounds)	2016 (1,000 pounds)	2017 <sup>1</sup> (1,000 pounds)
<b>Oil</b>						
California .....	44.5	53.5	1,350		60,075	
Colorado .....	57.0	76.0	1,200		68,400	
Kansas .....	42.0	48.0	1,370		57,540	
Minnesota .....	64.0	33.0	1,500		96,000	
Nebraska .....	28.0	28.0	1,350		37,800	
North Dakota .....	610.0	385.0	1,730		1,055,300	
South Dakota .....	495.0	525.0	1,940		960,300	
Texas .....	28.0	27.0	1,200		33,600	
United States .....	1,368.5	1,175.5	1,731		2,369,015	
<b>Non-oil</b>						
California .....	1.5	1.3	1,200		1,800	
Colorado .....	13.0	12.0	1,700		22,100	
Kansas .....	16.0	13.0	1,570		25,120	
Minnesota .....	13.5	11.5	1,300		17,550	
Nebraska .....	11.0	14.0	1,850		20,350	
North Dakota .....	53.0	33.0	1,550		82,150	
South Dakota .....	45.0	79.0	2,150		96,750	
Texas .....	10.5	13.0	1,600		16,800	
United States .....	163.5	176.8	1,729		282,620	
<b>All</b>						
California .....	46.0	54.8	1,345	1,295	61,875	70,980
Colorado .....	70.0	88.0	1,293	1,295	90,500	114,000
Kansas .....	58.0	61.0	1,425	1,333	82,660	81,310
Minnesota .....	77.5	44.5	1,465	1,705	113,550	75,875
Nebraska .....	39.0	42.0	1,491	1,333	58,150	56,000
North Dakota .....	663.0	418.0	1,716	1,097	1,137,450	458,590
South Dakota .....	540.0	604.0	1,958	1,455	1,057,050	878,780
Texas .....	38.5	40.0	1,309	1,868	50,400	74,700
United States .....	1,532.0	1,352.3	1,731	1,339	2,651,635	1,810,235

<sup>1</sup> 2017 yield and production estimates for oil and non-oil varieties will be published in the *Crop Production 2017 Summary*.

**Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017**

State	Area planted		Area harvested	
	2016	2017	2016	2017
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama .....	175.0	195.0	172.0	192.0
Florida .....	155.0	195.0	146.0	183.0
Georgia .....	720.0	840.0	706.0	830.0
Mississippi .....	39.0	44.0	38.0	42.0
North Carolina .....	101.0	120.0	99.0	118.0
Oklahoma .....	13.0	21.0	12.0	19.0
South Carolina .....	110.0	125.0	106.0	120.0
Texas .....	305.0	275.0	205.0	260.0
Virginia .....	21.0	27.0	21.0	27.0
Other States <sup>1</sup> .....	32.0	39.0	31.0	38.0
United States .....	1,671.0	1,881.0	1,536.0	1,829.0

State	Yield per acre			Production	
	2016	2017		2016	2017
		September 1	October 1		
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama .....	3,600	4,100	4,200	619,200	806,400
Florida .....	3,800	3,700	3,500	554,800	640,500
Georgia .....	3,900	4,700	4,700	2,753,400	3,901,000
Mississippi .....	4,000	4,500	4,500	152,000	189,000
North Carolina .....	3,530	4,100	4,100	349,470	483,800
Oklahoma .....	3,700	3,600	3,400	44,400	64,600
South Carolina .....	3,200	3,900	3,900	339,200	468,000
Texas .....	2,730	3,600	3,700	559,650	962,000
Virginia .....	3,650	4,300	4,300	76,650	116,100
Other States <sup>1</sup> .....	4,284	4,068	4,068	132,800	154,600
United States .....	3,634	4,254	4,257	5,581,570	7,786,000

<sup>1</sup> Other States include Arkansas and New Mexico.

**Canola Area Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017**

State	Area harvested		Yield per acre		Production	
	2016	2017	2016	2017	2016	2017
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Idaho .....	20.5	21.3	2,100	1,600	43,050	34,080
Kansas .....	24.0	47.0	1,940	1,400	46,560	65,800
Minnesota .....	27.5	34.5	1,700	1,950	46,750	67,275
Montana .....	60.0	146.0	1,670	800	100,200	116,800
North Dakota .....	1,450.0	1,580.0	1,840	1,410	2,668,000	2,227,800
Oklahoma .....	75.0	140.0	1,520	1,370	114,000	191,800
Oregon .....	3.7	7.2	2,400	1,900	8,880	13,680
Washington .....	31.0	52.0	1,900	1,700	58,900	88,400
United States .....	1,691.7	2,028.0	1,824	1,383	3,086,340	2,805,635

**Cotton Area Harvested, Yield, and Production by Type – States and United States: 2016 and Forecasted October 1, 2017**

Type and State	Area harvested		Yield per acre			Production <sup>1</sup>	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) <sup>2</sup>	(1,000 bales) <sup>2</sup>
<b>Upland</b>							
Alabama .....	343.0	428.0	988	953	976	706.0	870.0
Arizona .....	118.0	158.0	1,525	1,574	1,574	375.0	518.0
Arkansas .....	375.0	438.0	1,075	1,096	1,096	840.0	1,000.0
California .....	62.0	90.0	1,897	1,776	1,760	245.0	330.0
Florida .....	102.0	98.0	922	882	931	196.0	190.0
Georgia .....	1,165.0	1,280.0	898	1,013	900	2,180.0	2,400.0
Kansas .....	31.0	91.0	1,099	1,081	1,002	71.0	190.0
Louisiana .....	137.0	215.0	939	1,027	982	268.0	440.0
Mississippi .....	430.0	625.0	1,207	1,152	1,152	1,081.0	1,500.0
Missouri .....	266.0	297.0	1,021	1,196	1,220	566.0	755.0
New Mexico .....	41.0	55.0	1,030	873	916	88.0	105.0
North Carolina .....	255.0	365.0	646	980	921	343.0	700.0
Oklahoma .....	290.0	555.0	1,021	848	848	617.0	980.0
South Carolina .....	183.0	245.0	656	960	940	250.0	480.0
Tennessee .....	250.0	340.0	1,104	1,045	1,045	575.0	740.0
Texas .....	5,200.0	5,800.0	748	757	745	8,100.0	9,000.0
Virginia .....	72.0	83.0	667	1,099	1,099	100.0	190.0
United States .....	9,320.0	11,163.0	855	896	877	16,601.0	20,388.0
<b>American Pima <sup>3</sup></b>							
Arizona .....	11.0	14.5	851	894	894	19.5	27.0
California .....	154.0	208.0	1,565	1,528	1,528	502.0	662.0
New Mexico .....	7.8	7.2	886	800	800	14.4	12.0
Texas .....	15.0	12.5	1,056	998	998	33.0	26.0
United States .....	187.8	242.2	1,454	1,441	1,441	568.9	727.0
<b>All</b>							
Alabama .....	343.0	428.0	988	953	976	706.0	870.0
Arizona .....	129.0	172.5	1,468	1,517	1,517	394.5	545.0
Arkansas .....	375.0	438.0	1,075	1,096	1,096	840.0	1,000.0
California .....	216.0	298.0	1,660	1,603	1,598	747.0	992.0
Florida .....	102.0	98.0	922	882	931	196.0	190.0
Georgia .....	1,165.0	1,280.0	898	1,013	900	2,180.0	2,400.0
Kansas .....	31.0	91.0	1,099	1,081	1,002	71.0	190.0
Louisiana .....	137.0	215.0	939	1,027	982	268.0	440.0
Mississippi .....	430.0	625.0	1,207	1,152	1,152	1,081.0	1,500.0
Missouri .....	266.0	297.0	1,021	1,196	1,220	566.0	755.0
New Mexico .....	48.8	62.2	1,007	864	903	102.4	117.0
North Carolina .....	255.0	365.0	646	980	921	343.0	700.0
Oklahoma .....	290.0	555.0	1,021	848	848	617.0	980.0
South Carolina .....	183.0	245.0	656	960	940	250.0	480.0
Tennessee .....	250.0	340.0	1,104	1,045	1,045	575.0	740.0
Texas .....	5,215.0	5,812.5	749	757	745	8,133.0	9,026.0
Virginia .....	72.0	83.0	667	1,099	1,099	100.0	190.0
United States .....	9,507.8	11,405.2	867	908	889	17,169.9	21,115.0

<sup>1</sup> Production ginned and to be ginned.

<sup>2</sup> 480-pound net weight bale.

<sup>3</sup> Estimates for current year carried forward from an earlier forecast.

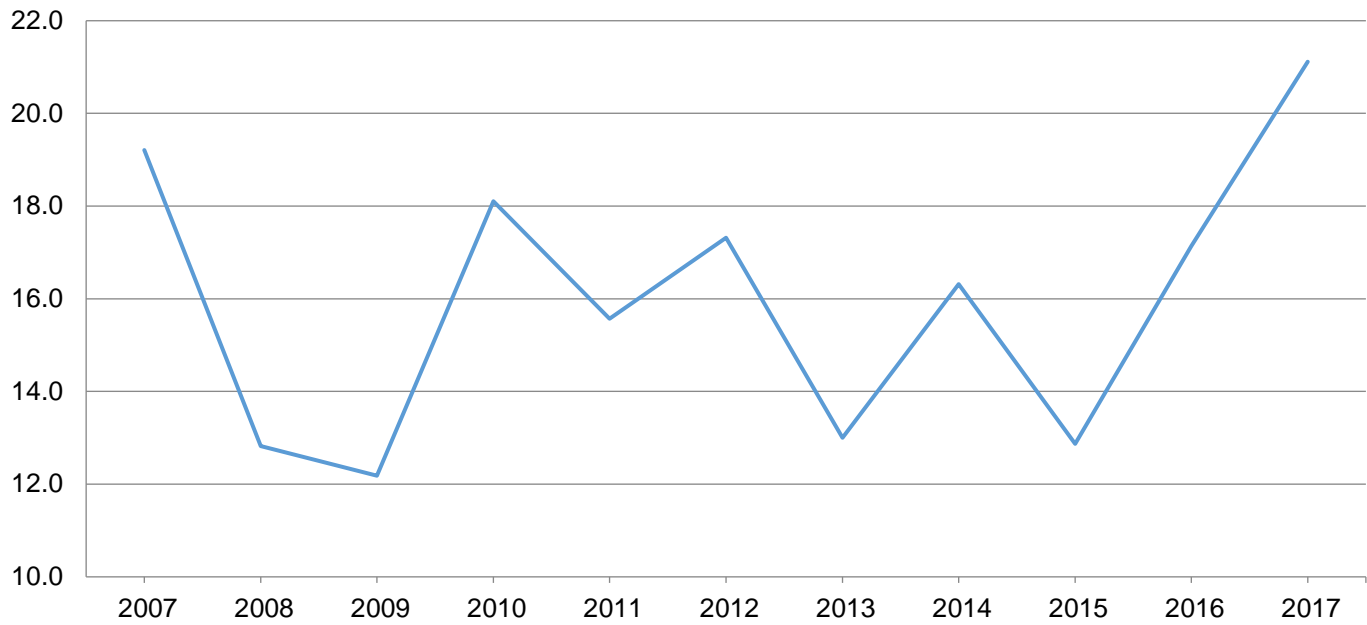
## Cottonseed Production – United States: 2016 and Forecasted October 1, 2017

State	Production	
	2016 (1,000 tons)	2017 <sup>1</sup> (1,000 tons)
United States .....	5,369.0	6,676.0

<sup>1</sup> 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: 2016 and Forecasted October 1, 2017**

State	Area harvested		Yield per acre		Production	
	2016 (1,000 acres)	2017 (1,000 acres)	2016 (tons)	2017 (tons)	2016 (1,000 tons)	2017 (1,000 tons)
Arizona .....	280	275	8.60	8.60	2,408	2,365
California .....	720	750	7.00	6.90	5,040	5,175
Colorado .....	680	700	3.50	3.90	2,380	2,730
Idaho .....	1,000	1,000	4.40	4.40	4,400	4,400
Illinois .....	230	260	3.90	3.10	897	806
Indiana .....	210	240	4.20	4.30	882	1,032
Iowa .....	550	740	4.20	3.40	2,310	2,516
Kansas .....	700	650	4.30	3.30	3,010	2,145
Kentucky .....	150	150	3.60	3.90	540	585
Michigan .....	640	610	3.00	3.00	1,920	1,830
Minnesota .....	1,000	900	3.40	2.90	3,400	2,610
Missouri .....	230	230	3.20	3.10	736	713
Montana .....	1,800	1,750	2.00	1.80	3,600	3,150
Nebraska .....	750	770	4.15	4.20	3,113	3,234
Nevada .....	190	230	4.40	4.70	836	1,081
New Mexico .....	190	190	4.60	5.00	874	950
New York .....	350	360	2.20	2.40	770	864
North Dakota .....	1,400	1,450	1.70	1.15	2,380	1,668
Ohio .....	330	320	3.40	3.20	1,122	1,024
Oklahoma .....	210	330	3.80	3.40	798	1,122
Oregon .....	420	390	4.70	4.80	1,974	1,872
Pennsylvania .....	350	400	3.00	3.00	1,050	1,200
South Dakota .....	1,700	1,650	2.00	1.75	3,400	2,888
Texas .....	130	120	5.30	4.70	689	564
Utah .....	530	520	4.20	4.20	2,226	2,184
Virginia .....	65	55	3.10	3.10	202	171
Washington .....	430	380	5.20	5.00	2,236	1,900
Wisconsin .....	1,000	1,000	3.20	3.30	3,200	3,300
Wyoming .....	500	550	2.80	2.80	1,400	1,540
Other States <sup>1</sup> .....	150	141	3.13	2.86	470	403
United States .....	16,885	17,111	3.45	3.27	58,263	56,022

<sup>1</sup> 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 2017 Summary*.



**All Other Hay Area Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017**

State	Area harvested		Yield per acre		Production	
	2016 (1,000 acres)	2017 (1,000 acres)	2016 (tons)	2017 (tons)	2016 (1,000 tons)	2017 (1,000 tons)
Alabama <sup>2</sup> .....	810	790	2.10	2.80	1,701	2,212
Arkansas .....	1,200	1,120	2.00	2.40	2,400	2,688
California .....	480	450	3.20	3.10	1,536	1,395
Colorado .....	700	710	1.70	1.90	1,190	1,349
Georgia <sup>2</sup> .....	600	600	2.30	2.80	1,380	1,680
Idaho .....	330	300	2.20	2.40	726	720
Illinois .....	250	240	2.40	2.40	600	576
Indiana .....	290	330	3.10	3.00	899	990
Iowa .....	360	370	2.50	2.00	900	740
Kansas .....	1,900	1,850	1.70	1.60	3,230	2,960
Kentucky .....	2,100	2,100	2.40	2.50	5,040	5,250
Louisiana <sup>2</sup> .....	380	370	2.90	2.80	1,102	1,036
Michigan .....	230	290	1.90	1.50	437	435
Minnesota .....	520	700	2.00	1.90	1,040	1,330
Mississippi <sup>2</sup> .....	640	630	2.20	2.40	1,408	1,512
Missouri .....	2,600	2,700	2.05	2.10	5,330	5,670
Montana .....	850	950	1.80	1.40	1,530	1,330
Nebraska .....	1,700	1,700	1.55	1.60	2,635	2,720
New York .....	1,010	950	1.50	1.90	1,515	1,805
North Carolina .....	680	710	2.30	2.20	1,564	1,562
North Dakota .....	1,100	1,100	1.75	1.00	1,925	1,100
Ohio .....	640	700	2.10	2.20	1,344	1,540
Oklahoma .....	2,800	2,500	1.80	2.00	5,040	5,000
Oregon .....	710	720	2.70	2.50	1,917	1,800
Pennsylvania .....	1,000	950	2.10	2.50	2,100	2,375
South Dakota .....	1,400	1,600	1.50	1.60	2,100	2,560
Tennessee .....	1,800	1,850	2.15	2.30	3,870	4,255
Texas .....	4,700	4,300	2.50	2.00	11,750	8,600
Virginia .....	1,150	1,240	2.30	2.30	2,645	2,852
Washington .....	410	380	2.70	2.80	1,107	1,064
West Virginia .....	570	550	1.80	1.80	1,026	990
Wisconsin .....	330	350	2.20	2.40	726	840
Wyoming .....	520	520	1.70	1.70	884	884
Other States <sup>1</sup> .....	1,816	1,787	2.16	2.28	3,921	4,066
United States .....	36,576	36,407	2.09	2.08	76,518	75,886

<sup>1</sup> Other States include 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 2017 Summary*.

<sup>2</sup> Alfalfa and alfalfa mixtures included in all other hay.

## Sugarbeet Area Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017

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

State	Area harvested		Yield per acre			Production	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California <sup>1</sup> .....	25.0	24.5	44.3	43.9	43.5	1,108	1,066
Colorado .....	27.6	29.1	33.6	35.7	35.4	927	1,030
Idaho .....	170.0	167.0	41.4	41.6	41.1	7,038	6,864
Michigan .....	149.0	143.0	30.8	29.9	28.0	4,589	4,004
Minnesota .....	417.0	413.0	30.0	31.1	29.5	12,510	12,184
Montana .....	45.3	42.5	35.0	34.3	33.6	1,586	1,428
Nebraska .....	47.2	44.6	29.9	33.1	32.1	1,411	1,432
North Dakota .....	203.0	208.0	30.8	31.4	30.6	6,242	6,365
Oregon .....	10.2	9.1	42.0	39.9	39.9	428	363
Washington .....	1.9	1.8	47.9	47.4	47.4	91	85
Wyoming .....	30.0	31.6	31.7	28.0	27.8	951	878
United States .....	1,126.2	1,114.2	32.7	33.3	32.0	36,881	35,699

<sup>1</sup> 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: 2016 and Forecasted October 1, 2017

State	Area harvested		Yield per acre <sup>1</sup>			Production <sup>1</sup>	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida .....	417.0	414.0	40.5	42.5	42.1	16,904	17,429
Hawaii <sup>2</sup> .....	15.5	(NA)	86.2	(NA)	(NA)	1,336	(NA)
Louisiana .....	431.0	440.0	28.8	29.6	30.8	12,413	13,552
Texas .....	39.6	41.3	37.0	39.5	37.3	1,465	1,540
United States .....	903.1	895.3	35.6	36.1	36.3	32,118	32,521

(NA) Not available.

<sup>1</sup> Net tons.

<sup>2</sup> Estimates discontinued in 2017.

**Dry Edible Bean Area Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017**

State	Area harvested		Yield per acre <sup>1</sup>		Production <sup>1</sup>	
	2016 (1,000 acres)	2017 (1,000 acres)	2016 (pounds)	2017 (pounds)	2016 (1,000 cwt)	2017 (1,000 cwt)
California .....	49.0	47.0	2,330	2,290	1,141	1,076
Colorado .....	43.0	56.0	1,750	2,000	751	1,120
Idaho .....	137.0	182.0	1,920	1,650	2,624	3,003
Michigan .....	208.0	217.0	1,920	1,730	4,002	3,754
Minnesota .....	147.0	168.0	2,230	2,190	3,279	3,679
Montana .....	99.5	260.0	1,620	1,100	1,613	2,860
Nebraska .....	122.0	170.0	2,270	2,420	2,766	4,114
North Dakota .....	565.0	675.0	1,580	1,640	8,908	11,070
Texas .....	24.0	20.0	1,100	1,150	264	230
Washington .....	133.0	198.0	1,980	1,700	2,631	3,366
Wyoming .....	31.1	40.0	2,360	2,600	733	1,040
United States .....	1,558.6	2,033.0	1,842	1,737	28,712	35,312

<sup>1</sup> Clean basis.

**Spring Potato Area Planted, Harvested, Yield, and Production – States and United States: 2016 and 2017**

State	Area planted		Area harvested		Yield per acre		Production	
	2016	2017	2016	2017	2016	2017	2016	2017
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)
California .....	26.0	29.0	25.1	29.0	390	435	9,789	12,615
Florida .....	25.0	29.0	22.9	28.7	235	250	5,382	7,175
United States .....	51.0	58.0	48.0	57.7	316	343	15,171	19,790

**Tobacco Area Harvested, Yield, and Production – States and United States: 2016 and Forecasted October 1, 2017**

State	Area harvested		Yield per acre			Production	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Georgia .....	13,500	12,500	2,100	2,000	2,000	28,350	25,000
Kentucky .....	75,300	80,500	1,810	2,209	2,280	136,280	183,550
North Carolina .....	166,000	163,900	1,999	2,298	2,298	331,800	376,610
Pennsylvania .....	8,200	7,900	2,495	2,520	2,500	20,460	19,750
South Carolina .....	13,000	12,000	1,900	2,000	1,900	24,700	22,800
Tennessee .....	20,200	21,100	1,767	2,209	2,066	35,690	43,590
Virginia .....	23,460	23,380	2,193	2,239	2,241	51,440	52,397
United States .....	319,660	321,280	1,967	2,248	2,253	628,720	723,697

## Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2016 and Forecasted October 1, 2017

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

Class, type, and State	Area harvested		Yield per acre			Production	
	2016	2017	2016	2017		2016	2017
				September 1	October 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
<b>Class 1, Flue-cured (11-14)</b>							
Georgia .....	13,500	12,500	2,100	2,000	2,000	28,350	25,000
North Carolina .....	165,000	163,000	2,000	2,300	2,300	330,000	374,900
South Carolina .....	13,000	12,000	1,900	2,000	1,900	24,700	22,800
Virginia .....	22,000	22,000	2,200	2,250	2,250	48,400	49,500
United States .....	213,500	209,500	2,021	2,260	2,254	431,450	472,200
<b>Class 2, Fire-cured (21-23)</b>							
Kentucky .....	9,500	11,500	2,300	3,100	3,100	21,850	35,650
Tennessee .....	7,000	7,500	2,450	3,100	2,900	17,150	21,750
Virginia .....	260	280	2,000	1,900	1,900	520	532
United States .....	16,760	19,280	2,358	3,075	3,005	39,520	57,932
<b>Class 3A, Light air-cured</b>							
Type 31, Burley							
Kentucky .....	61,000	63,000	1,750	2,000	2,100	106,750	132,300
North Carolina .....	1,000	900	1,800	1,900	1,900	1,800	1,710
Pennsylvania .....	4,800	4,500	2,600	2,500	2,500	12,480	11,250
Tennessee .....	12,000	12,000	1,350	1,600	1,500	16,200	18,000
Virginia .....	1,200	1,100	2,100	2,150	2,150	2,520	2,365
United States .....	80,000	81,500	1,747	1,970	2,032	139,750	165,625
Type 32, Southern Maryland Belt							
Pennsylvania .....	1,800	1,800	2,300	2,500	2,500	4,140	4,500
United States .....	1,800	1,800	2,300	2,500	2,500	4,140	4,500
<b>Total light air-cured (31-32) .....</b>	<b>81,800</b>	<b>83,300</b>	<b>1,759</b>	<b>1,981</b>	<b>2,042</b>	<b>143,890</b>	<b>170,125</b>
<b>Class 3B, Dark air-cured (35-37)</b>							
Kentucky .....	4,800	6,000	1,600	2,700	2,600	7,680	15,600
Tennessee .....	1,200	1,600	1,950	2,600	2,400	2,340	3,840
United States .....	6,000	7,600	1,670	2,679	2,558	10,020	19,440
<b>Class 4, Cigar filler</b>							
Type 41, Pennsylvania Seedleaf							
Pennsylvania .....	1,600	1,600	2,400	2,600	2,500	3,840	4,000
United States .....	1,600	1,600	2,400	2,600	2,500	3,840	4,000
<b>All tobacco</b>							
United States .....	319,660	321,280	1,967	2,248	2,253	628,720	723,697

## Utilized Production of Oranges by Crop – States and United States: 2016-2017 and Forecasted October 1, 2017

[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 <sup>1</sup>		Utilized production ton equivalent	
	2016-2017 (1,000 boxes)	2017-2018 (1,000 boxes)	2016-2017 (1,000 tons)	2017-2018 (1,000 tons)
<b>Oranges</b>				
California, all .....	50,300	46,000	2,012	1,840
Early, mid, and Navel <sup>2</sup> .....	39,300	35,000	1,572	1,400
Valencia .....	11,000	11,000	440	440
Florida, all .....	68,750	54,000	3,094	2,430
Early, mid, and Navel <sup>2</sup> .....	33,000	23,000	1,485	1,035
Valencia .....	35,750	31,000	1,609	1,395
Texas, all .....	1,370	1,650	58	70
Early, mid, and Navel <sup>2</sup> .....	1,090	1,350	46	57
Valencia .....	280	300	12	13
United States, all .....	120,420	101,650	5,164	4,340
Early, mid, and Navel <sup>2</sup> .....	73,390	59,350	3,103	2,492
Valencia .....	47,030	42,300	2,061	1,848
<b>Grapefruit</b>				
California .....	4,000	4,200	160	168
Florida, all .....	7,760	4,900	330	208
Red .....	6,280	4,000	267	170
White .....	1,480	900	63	38
Texas .....	4,800	5,300	192	212
United States .....	16,560	14,400	682	588
<b>Tangerines and mandarins <sup>3</sup></b>				
California .....	23,900	23,000	956	920
Florida .....	1,620	1,000	77	48
United States .....	25,520	24,000	1,033	968
<b>Lemons</b>				
Arizona .....	1,650	1,600	66	64
California .....	20,500	21,000	820	840
United States .....	22,150	22,600	886	904

<sup>1</sup> 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.

<sup>2</sup> Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

<sup>3</sup> Includes tangelos and tangors.

## Pecan Production by Variety – States and United States: 2016 and Forecasted October 1, 2017

State and variety	Utilized production (in-shell basis)	
	2016 (1,000 pounds)	2017 (1,000 pounds)
Alabama .....	2,200	2,400
Improved .....	1,900	2,100
Native and seedling .....	300	300
Arizona .....	24,800	28,000
Improved .....	24,800	28,000
California .....	5,770	5,000
Improved .....	5,770	5,000
Georgia .....	109,000	81,000
Improved .....	109,000	81,000
Louisiana .....	4,000	15,000
Improved .....	1,500	6,000
Native and seedling .....	2,500	9,000
New Mexico .....	72,000	79,000
Improved .....	72,000	79,000
Oklahoma .....	12,000	20,000
Improved .....	3,000	5,000
Native and seedling .....	9,000	15,000
Texas .....	39,000	47,000
Improved .....	32,000	40,000
Native and seedling .....	7,000	7,000
United States .....	268,770	277,400
Improved .....	249,970	246,100
Native and seedling .....	18,800	31,300

## Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2016 and 2017

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2017 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2016	2017	2016	2017
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Grains and hay</b>				
Barley .....	3,059	2,481	2,565	1,954
Corn for grain <sup>1</sup> .....	94,004	90,429	86,748	83,119
Corn for silage .....	(NA)		6,186	
Hay, all .....	(NA)	(NA)	53,461	53,518
Alfalfa .....	(NA)	(NA)	16,885	17,111
All other .....	(NA)	(NA)	36,576	36,407
Oats .....	2,829	2,588	981	801
Proso millet .....	443	550	413	
Rice .....	3,150	2,487	3,097	2,391
Rye .....	1,891	1,961	414	286
Sorghum for grain <sup>1</sup> .....	6,690	5,709	6,163	5,049
Sorghum for silage .....	(NA)		298	
Wheat, all .....	50,119	46,012	43,850	37,586
Winter .....	36,152	32,696	30,237	25,291
Durum .....	2,412	2,307	2,360	2,136
Other spring .....	11,555	11,009	11,253	10,159
<b>Oilseeds</b>				
Canola .....	1,714.0	2,076.0	1,691.7	2,028.0
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	374	283	367	277
Mustard seed .....	103.1	76.0	98.2	72.1
Peanuts .....	1,671.0	1,881.0	1,536.0	1,829.0
Rapeseed .....	11.0	12.5	10.5	11.7
Safflower .....	161.1	162.0	154.4	154.8
Soybeans for beans .....	83,433	90,207	82,696	89,471
Sunflower .....	1,596.6	1,404.3	1,532.0	1,352.3
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all .....	10,072.5	12,618.5	9,507.8	11,405.2
Upland .....	9,878.0	12,372.0	9,320.0	11,163.0
American Pima .....	194.5	246.5	187.8	242.2
Sugarbeets .....	1,163.4	1,138.1	1,126.2	1,114.2
Sugarcane .....	(NA)	(NA)	903.1	895.3
Tobacco .....	(NA)	(NA)	319.7	321.3
<b>Dry beans, peas, and lentils</b>				
Austrian winter peas .....	38.0	29.0	28.0	16.0
Dry edible beans .....	1,662.0	2,111.5	1,558.6	2,033.0
Chickpeas, all .....	325.3	603.8	320.0	456.0
Large .....	211.5	425.6	209.2	296.2
Small .....	113.8	178.2	110.8	159.8
Dry edible peas .....	1,382.0	1,153.0	1,329.8	1,111.4
Lentils .....	933.0	1,109.0	908.0	1,017.0
Wrinkled seed peas .....	(NA)		(NA)	
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	50.9	54.1
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		65.3	
Potatoes, all .....	1,037.0	1,031.8	1,018.3	1,022.0
Spring .....	51.0	58.0	48.0	57.7
Summer .....	62.2	66.0	60.7	62.9
Fall .....	923.8	907.8	909.6	901.4
Spearmint oil .....	(NA)		24.5	
Sweet potatoes .....	168.1	151.4	163.3	148.6
Taro (Hawaii) .....	(NA)		(D)	

See footnote(s) at end of table.

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## Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2016 and 2017 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2017 crop year.  
Blank data cells indicate estimation period has not yet begun]

Crop	Yield per acre		Production		
	2016	2017	2016 (1,000)	2017 (1,000)	
<b>Grains and hay</b>					
Barley .....	bushels	77.9	72.6	199,914	141,923
Corn for grain .....	bushels	174.6	171.8	15,148,038	14,280,112
Corn for silage .....	tons	20.3		125,670	
Hay, all .....	tons	2.52	2.46	134,781	131,908
Alfalfa .....	tons	3.45	3.27	58,263	56,022
All other .....	tons	2.09	2.08	76,518	75,886
Oats .....	bushels	66.0	61.7	64,770	49,391
Proso millet .....	bushels	30.4		12,558	
Rice <sup>2</sup> .....	cwt	7,237	7,469	224,145	178,586
Rye .....	bushels	32.5	33.9	13,451	9,696
Sorghum for grain .....	bushels	77.9	72.2	480,261	364,461
Sorghum for silage .....	tons	14.0		4,171	
Wheat, all .....	bushels	52.7	46.3	2,308,723	1,740,582
Winter .....	bushels	55.3	50.2	1,672,582	1,269,437
Durum .....	bushels	44.0	25.7	103,914	54,909
Other spring .....	bushels	47.3	41.0	532,227	416,236
<b>Oilseeds</b>					
Canola .....	pounds	1,824	1,383	3,086,340	2,805,635
Cottonseed .....	tons	(X)	(X)	5,369.0	6,676.0
Flaxseed .....	bushels	23.7		8,680	
Mustard seed .....	pounds	980		96,270	
Peanuts .....	pounds	3,634	4,257	5,581,570	7,786,000
Rapeseed .....	pounds	1,840		19,320	
Safflower .....	pounds	1,425		220,090	
Soybeans for beans .....	bushels	52.0	49.5	4,296,086	4,430,621
Sunflower .....	pounds	1,731	1,339	2,651,635	1,810,235
<b>Cotton, tobacco, and sugar crops</b>					
Cotton, all <sup>2</sup> .....	bales	867	889	17,169.9	21,115.0
Upland <sup>2</sup> .....	bales	855	877	16,601.0	20,388.0
American Pima <sup>2</sup> .....	bales	1,454	1,441	568.9	727.0
Sugarbeets .....	tons	32.7	32.0	36,881	35,699
Sugarcane .....	tons	35.6	36.3	32,118	32,521
Tobacco .....	pounds	1,967	2,253	628,720	723,697
<b>Dry beans, peas, and lentils</b>					
Austrian winter peas <sup>2</sup> .....	cwt	1,704	869	477	139
Dry edible beans <sup>2</sup> .....	cwt	1,842	1,737	28,712	35,312
Chickpeas, all <sup>2</sup> .....	cwt	1,702		5,447	
Large <sup>2</sup> .....	cwt	1,677		3,509	
Small <sup>2</sup> .....	cwt	1,749		1,938	
Dry edible peas <sup>2</sup> .....	cwt	2,086	1,383	27,737	15,367
Lentils <sup>2</sup> .....	cwt	1,397	733	12,685	7,457
Wrinkled seed peas .....	cwt	(NA)		439	
<b>Potatoes and miscellaneous</b>					
Hops .....	pounds	1,713	1,803	87,139.6	97,587.7
Maple syrup .....	gallons	(NA)	(NA)	4,207	4,271
Mushrooms .....	pounds	(NA)	(NA)	943,414	928,605
Peppermint oil .....	pounds	89		5,800	
Potatoes, all .....	cwt	433		441,411	
Spring .....	cwt	316	343	15,171	19,790
Summer .....	cwt	323	322	19,602	20,248
Fall .....	cwt	447		406,638	
Spearmint oil .....	pounds	131		3,208	
Sweet potatoes .....	cwt	193		31,546	
Taro (Hawaii) .....	pounds	(D)		(D)	

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

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Yield in pounds.

## Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2016 and 2017

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2017 crop year. Blank data cells indicate estimation period has not yet begun]

Crop	Area planted		Area harvested	
	2016 (hectares)	2017 (hectares)	2016 (hectares)	2017 (hectares)
<b>Grains and hay</b>				
Barley .....	1,237,950	1,004,040	1,038,030	790,760
Corn for grain <sup>1</sup> .....	38,042,480	36,595,710	35,106,050	33,637,430
Corn for silage .....	(NA)		2,503,410	
Hay, all <sup>2</sup> .....	(NA)	(NA)	21,635,130	21,658,200
Alfalfa .....	(NA)	(NA)	6,833,190	6,924,650
All other .....	(NA)	(NA)	14,801,940	14,733,550
Oats .....	1,144,870	1,047,340	397,000	324,160
Proso millet .....	179,280	222,580	167,140	
Rice .....	1,274,770	1,006,460	1,253,320	967,610
Rye .....	765,270	793,600	167,540	115,740
Sorghum for grain <sup>1</sup> .....	2,707,380	2,310,380	2,494,100	2,043,280
Sorghum for silage .....	(NA)		120,600	
Wheat, all <sup>2</sup> .....	20,282,660	18,620,600	17,745,660	15,210,680
Winter .....	14,630,350	13,231,740	12,236,610	10,235,010
Durum .....	976,110	933,620	955,070	864,420
Other spring .....	4,676,190	4,455,230	4,553,980	4,111,250
<b>Oilseeds</b>				
Canola .....	693,640	840,140	684,610	820,710
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	151,350	114,530	148,520	112,100
Mustard seed .....	41,720	30,760	39,740	29,180
Peanuts .....	676,240	761,220	621,600	740,180
Rapeseed .....	4,450	5,060	4,250	4,730
Safflower .....	65,200	65,560	62,480	62,650
Soybeans for beans .....	33,764,500	36,505,870	33,466,240	36,208,020
Sunflower .....	646,130	568,310	619,990	547,260
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	4,076,240	5,106,580	3,847,710	4,615,570
Upland .....	3,997,530	5,006,820	3,771,710	4,517,550
American Pima .....	78,710	99,760	76,000	98,020
Sugarbeets .....	470,820	460,580	455,760	450,910
Sugarcane .....	(NA)	(NA)	365,480	362,320
Tobacco .....	(NA)	(NA)	129,360	130,020
<b>Dry beans, peas, and lentils</b>				
Austrian winter peas .....	15,380	11,740	11,330	6,480
Dry edible beans .....	672,590	854,500	630,750	822,730
Chickpeas <sup>2</sup> .....	131,650	244,350	129,500	184,540
Large .....	85,590	172,240	84,660	119,870
Small .....	46,050	72,120	44,840	64,670
Dry edible peas .....	559,280	466,610	538,160	449,770
Lentils .....	377,580	448,800	367,460	411,570
Wrinkled seed peas .....	(NA)		(NA)	
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	20,580	21,910
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)		26,430	
Potatoes, all <sup>2</sup> .....	419,660	417,560	412,100	413,590
Spring .....	20,640	23,470	19,430	23,350
Summer .....	25,170	26,710	24,560	25,460
Fall .....	373,850	367,380	368,110	364,790
Spearmint oil .....	(NA)		9,910	
Sweet potatoes .....	68,030	61,270	66,090	60,140
Taro (Hawaii) .....	(NA)		(D)	

See footnote(s) at end of table.

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## Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2016 and 2017 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2017 crop year.  
Blank data cells indicate estimation period has not yet begun]

Crop	Yield per hectare		Production	
	2016	2017	2016	2017
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
<b>Grains and hay</b>				
Barley .....	4.19	3.91	4,352,610	3,090,010
Corn for grain .....	10.96	10.78	384,777,890	362,731,550
Corn for silage .....	45.54		114,005,910	
Hay, all <sup>2</sup> .....	5.65	5.53	122,271,270	119,664,920
Alfalfa .....	7.74	7.34	52,855,300	50,822,300
All other .....	4.69	4.67	69,415,960	68,842,620
Oats .....	2.37	2.21	940,130	716,910
Proso millet .....	1.70		284,810	
Rice .....	8.11	8.37	10,167,050	8,100,530
Rye .....	2.04	2.13	341,670	246,290
Sorghum for grain .....	4.89	4.53	12,199,190	9,257,740
Sorghum for silage .....	31.38		3,783,870	
Wheat, all <sup>2</sup> .....	3.54	3.11	62,833,140	47,370,880
Winter .....	3.72	3.38	45,520,220	34,548,410
Durum .....	2.96	1.73	2,828,080	1,494,380
Other spring .....	3.18	2.76	14,484,850	11,328,090
<b>Oilseeds</b>				
Canola .....	2.04	1.55	1,399,940	1,272,610
Cottonseed .....	(X)	(X)	4,870,670	6,056,370
Flaxseed .....	1.48		220,480	
Mustard seed .....	1.10		43,670	
Peanuts .....	4.07	4.77	2,531,760	3,531,670
Rapeseed .....	2.06		8,760	
Safflower .....	1.60		99,830	
Soybeans for beans .....	3.49	3.33	116,920,300	120,581,740
Sunflower .....	1.94	1.50	1,202,760	821,110
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	0.97	1.00	3,738,310	4,597,250
Upland .....	0.96	0.98	3,614,440	4,438,960
American Pima .....	1.63	1.61	123,860	158,290
Sugarbeets .....	73.41	71.82	33,457,880	32,385,590
Sugarcane .....	79.72	81.43	29,136,960	29,502,550
Tobacco .....	2.20	2.52	285,180	328,260
<b>Dry beans, peas, and lentils</b>				
Austrian winter peas .....	1.91	0.97	21,640	6,300
Dry edible beans .....	2.06	1.95	1,302,350	1,601,730
Chickpeas, all <sup>2</sup> .....	1.91		247,070	
Large .....	1.88		159,170	
Small .....	1.96		87,910	
Dry edible peas .....	2.34	1.55	1,258,130	697,040
Lentils .....	1.57	0.82	575,380	338,240
Wrinkled seed peas .....	(NA)		19,910	
<b>Potatoes and miscellaneous</b>				
Hops .....	1.92	2.02	39,530	44,270
Maple syrup .....	(NA)	(NA)	21,040	21,360
Mushrooms .....	(NA)	(NA)	427,930	421,210
Peppermint oil .....	0.10		2,630	
Potatoes, all <sup>2</sup> .....	48.59		20,022,070	
Spring .....	35.43	38.44	688,150	897,660
Summer .....	36.20	36.08	889,130	918,430
Fall .....	50.11		18,444,790	
Spearmint oil .....	0.15		1,460	
Sweet potatoes .....	21.65		1,430,900	
Taro (Hawaii) .....	(D)		(D)	

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

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Total may not add due to rounding.

## Fruits and Nuts 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 2017 crop year, except citrus which is for the 2016-2017 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2017	2018
<b>Citrus <sup>1</sup></b>		
Grapefruit .....1,000 tons	682	588
Lemons .....1,000 tons	886	904
Oranges .....1,000 tons	5,164	4,340
Tangerines and mandarins .....1,000 tons	1,033	968
<b>Noncitrus</b>		
Apples .....million pounds	10,444.0	
Apricots ..... tons	55,500	
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	432,760	
Cherries, Tart .....million pounds	238.2	
Coffee (Hawaii) .....1,000 pounds		
Cranberries ..... barrel	9,050,000	
Dates ..... tons		
Figs (California) ..... tons		
Grapes ..... tons	7,505,300	
Kiwifruit (California) ..... tons		
Nectarines ..... tons		
Olives (California) ..... tons		
Papayas (Hawaii) .....1,000 pounds		
Peaches ..... tons	735,200	
Pears ..... tons	707,000	
Plums (California) ..... tons		
Prunes (California) ..... tons	105,000	
Raspberries, all .....1,000 pounds		
Strawberries ..... 1,000 cwt	30,534	
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) .....1,000 pounds	2,250,000	
Hazelnuts, in-shell (Oregon) ..... tons	36,000	
Macadamias (Hawaii) .....1,000 pounds		
Pecans, in-shell .....1,000 pounds	277,400	
Pistachios (California) .....1,000 pounds		
Walnuts, in-shell (California) ..... tons	650,000	

<sup>1</sup> Production years are 2016-2017 and 2017-2018.

## Fruits and Nuts 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 2017 crop year, except citrus which is for the 2016-2017 season. Blank data cells indicate estimation period has not yet begun]

Crop	Production	
	2017 (metric tons)	2018 (metric tons)
<b>Citrus<sup>1</sup></b>		
Grapefruit .....	618,700	533,420
Lemons .....	803,770	820,100
Oranges .....	4,684,700	3,937,180
Tangerines and mandarins .....	937,120	878,150
<b>Noncitrus</b>		
Apples .....	4,737,320	
Apricots .....	50,350	
Avocados .....		
Bananas (Hawaii) .....		
Blackberries (Oregon) .....		
Blueberries, Cultivated .....		
Blueberries, Wild (Maine) .....		
Boysenberries (Oregon) .....		
Cherries, Sweet .....	392,590	
Cherries, Tart .....	108,050	
Coffee (Hawaii) .....		
Cranberries .....	410,500	
Dates .....		
Figs (California) .....		
Grapes .....	6,808,690	
Kiwifruit (California) .....		
Nectarines .....		
Olives (California) .....		
Papayas (Hawaii) .....		
Peaches .....	666,960	
Pears .....	641,380	
Plums (California) .....		
Prunes (California) .....	95,250	
Raspberries, all .....		
Strawberries .....	1,384,990	
<b>Nuts and miscellaneous</b>		
Almonds, shelled (California) .....	1,020,580	
Hazelnuts, in-shell (Oregon) .....	32,660	
Macadamias (Hawaii) .....		
Pecans, in-shell .....	125,830	
Pistachios (California) .....		
Walnuts, in-shell (California) .....	589,670	

<sup>1</sup> Production years are 2016-2017 and 2017-2018.

## Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2017. 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: 2013-2017

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

State and month	2013	2014	2015	2016	2017	State and month	2013	2014	2015	2016	2017
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	30,700	30,900	31,800	31,100	30,800	All corn					
October .....	(NA)	30,800	31,750	31,100	30,900	September ...	26,000	26,450	26,650	25,900	25,950
November .....	30,850	30,700	31,750	31,100		October .....	(NA)	26,450	26,750	25,950	25,800
Final .....	30,850	30,700	31,750	31,100		November ....	26,100	26,200	26,700	26,000	
						Final .....	26,100	26,200	26,700	26,000	
<b>Indiana</b>						Irrigated					
September .....	30,250	31,200	30,400	30,200	29,550	September ...	29,150	28,850	29,100	28,200	29,050
October .....	(NA)	31,000	30,100	29,950	29,350	October .....	(NA)	28,850	29,300	28,200	29,000
November .....	30,400	30,850	30,000	29,800		November ....	29,300	28,700	29,250	28,300	
Final .....	30,450	30,850	29,950	29,800		Final .....	29,250	28,700	29,250	28,300	
<b>Iowa</b>						Non-irrigated					
September .....	30,250	30,850	31,500	31,250	31,300	September ...	21,000	22,650	23,500	22,900	22,500
October .....	(NA)	30,800	31,450	31,050	31,150	October .....	(NA)	22,550	23,550	23,000	22,200
November .....	30,000	30,800	31,450	31,050		November ....	21,050	22,250	23,550	23,000	
Final .....	30,050	30,800	31,450	31,050		Final .....	21,050	22,250	23,550	23,000	
<b>Kansas</b>						<b>Ohio</b>					
September .....	22,900	23,750	23,400	22,550	22,050	September ....	28,800	29,600	30,000	30,250	29,250
October .....	(NA)	23,550	23,750	22,550	22,100	October .....	(NA)	29,700	30,000	30,100	29,150
November .....	22,850	23,550	23,800	22,550		November ....	28,700	29,600	29,950	30,250	
Final .....	22,850	23,550	23,800	22,550		Final .....	28,650	29,600	29,950	30,250	
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	31,350	31,400	30,650	30,800	30,750	September ....	25,300	24,550	26,350	26,200	26,250
October .....	(NA)	31,350	30,750	30,700	30,550	October .....	(NA)	24,250	26,250	26,100	26,200
November .....	30,950	31,150	30,750	30,550		November ....	25,100	24,150	26,200	26,000	
Final .....	30,950	31,250	30,750	30,550		Final .....	25,100	24,150	26,200	26,000	
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	27,700	27,650	27,900	27,300	27,850	September ....	29,050	30,000	29,900	30,100	29,450
October .....	(NA)	27,400	27,600	27,750	27,850	October .....	(NA)	29,900	29,700	29,900	29,100
November .....	27,800	27,500	27,600	27,800		November ....	29,150	30,000	29,450	29,800	
Final .....	27,850	27,500	27,600	27,800		Final .....	29,150	30,050	29,450	29,800	
						<b>10 State</b>					
						September ....	28,750	29,200	29,550	29,050	28,800
						October .....	(NA)	29,100	29,500	28,950	28,700
						November ....	28,700	29,000	29,450	28,950	
						Final .....	28,700	29,050	29,450	28,950	

(NA) Not available.

## Corn for Grain Number of Ears per Acre – Selected States: 2013-2017

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

State and month	2013	2014	2015	2016	2017	State and month	2013	2014	2015	2016	2017
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	29,900	30,300	30,800	30,350	30,200	All corn					
October .....	(NA)	30,300	30,750	30,450	30,300	September .....	26,050	26,500	26,650	25,700	25,800
November .....	30,150	30,100	30,800	30,450		October .....	(NA)	26,450	26,700	25,350	26,050
Final .....	30,150	30,100	30,800	30,450		November .....	25,700	26,200	26,700	25,400	
						Final .....	25,700	26,200	26,700	25,400	
<b>Indiana</b>						<b>Irrigated</b>					
September .....	29,850	30,850	29,550	29,600	28,900	September .....	29,150	28,750	29,000	27,850	28,650
October .....	(NA)	30,650	29,300	29,400	29,100	October .....	(NA)	28,900	29,250	27,500	28,950
November .....	29,750	30,450	29,250	29,250		November .....	28,700	28,700	29,200	27,550	
Final .....	29,850	30,450	29,150	29,250		Final .....	28,700	28,700	29,200	27,550	
<b>Iowa</b>						<b>Non-irrigated</b>					
September .....	29,700	30,350	30,950	30,550	30,600	September .....	21,200	22,900	23,650	22,850	22,600
October .....	(NA)	30,150	30,800	30,400	30,600	October .....	(NA)	22,550	23,550	22,550	22,800
November .....	29,500	30,150	30,850	30,500		November .....	20,950	22,250	23,550	22,550	
Final .....	29,550	30,150	30,850	30,500		Final .....	20,950	22,250	23,550	22,550	
<b>Kansas</b>						<b>Ohio</b>					
September .....	22,500	24,450	23,300	22,650	22,800	September .....	28,350	29,200	29,650	29,750	29,500
October .....	(NA)	24,000	23,700	22,450	22,600	October .....	(NA)	29,700	29,650	29,200	29,250
November .....	22,200	24,000	23,650	22,450		November .....	28,200	29,600	29,600	29,600	
Final .....	22,200	24,000	23,650	22,450		Final .....	28,300	29,600	29,600	29,600	
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,750	31,050	30,500	30,550	30,750	September .....	25,600	24,850	26,200	25,650	26,250
October .....	(NA)	31,050	30,400	30,350	30,850	October .....	(NA)	24,400	25,900	25,350	26,150
November .....	30,850	30,750	30,450	30,250		November .....	25,300	24,450	25,750	25,450	
Final .....	30,850	30,950	30,450	30,250		Final .....	25,300	24,450	25,750	25,450	
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	26,950	27,800	27,350	26,900	27,750	September .....	28,900	30,000	29,500	29,300	28,950
October .....	(NA)	27,950	26,900	27,150	27,800	October .....	(NA)	29,750	28,950	28,900	28,800
November .....	27,050	27,900	26,850	27,150		November .....	28,900	29,550	28,600	28,750	
Final .....	27,100	27,900	26,850	27,150		Final .....	28,850	29,700	28,600	28,750	
						<b>10-State</b>					
						September .....	28,350	29,000	29,050	28,550	28,550
						October .....	(NA)	28,850	28,950	28,350	28,550
						November .....	28,250	28,750	28,900	28,400	
						Final .....	28,300	28,750	28,900	28,400	

(NA) Not available.

## Corn Objective Yield Percent of Samples Processed in the Lab – United States: 2013-2017

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

Year	October		November	
	Dent stage <sup>1</sup>	Mature <sup>2</sup>	Dent stage <sup>1</sup>	Mature <sup>2</sup>
	(percent)	(percent)	(percent)	(percent)
2013 .....	(NA)	(NA)	(Z)	86
2014 .....	39	53	(Z)	96
2015 .....	16	70	(Z)	96
2016 .....	17	73	(Z)	96
2017 .....	41	51		

(NA) Not available.

(Z) Less than half of the unit shown.

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

<sup>2</sup> 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 2017. 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: 2013-2017

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

State and month	2013	2014	2015	2016	2017	State and month	2013	2014	2015	2016	2017
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>						<b>Missouri</b>					
September .....	1,864	1,925	1,729	1,884	1,992	September .....	1,528	2,050	1,612	1,881	2,041
October .....	(NA)	1,960	1,737	1,805	1,898	October .....	(NA)	1,969	1,755	2,006	2,172
November .....	1,864	1,999	1,813	1,820		November .....	1,522	2,055	1,869	2,123	
Final .....	1,734	1,999	1,818	1,826		Final .....	1,500	2,043	1,899	2,164	
<b>Illinois</b>						<b>Nebraska</b>					
September .....	1,682	1,922	1,980	1,969	1,917	September .....	1,671	1,634	1,816	1,947	1,653
October .....	(NA)	1,913	2,052	2,109	1,886	October .....	(NA)	1,707	1,863	2,036	1,795
November .....	1,713	1,964	2,086	2,193		November .....	1,801	1,743	1,884	2,074	
Final .....	1,697	1,968	2,079	2,197		Final .....	1,801	1,743	1,884	2,074	
<b>Indiana</b>						<b>North Dakota</b>					
September .....	1,638	1,518	1,641	1,683	1,795	September .....	1,275	1,281	1,321	1,395	1,406
October .....	(NA)	1,634	1,703	1,775	1,772	October .....	(NA)	1,266	1,330	1,444	1,430
November .....	1,696	1,661	1,691	1,873		November .....	1,336	1,454	1,337	1,442	
Final .....	1,705	1,660	1,691	1,873		Final .....	1,336	1,459	1,337	1,470	
<b>Iowa</b>						<b>Ohio</b>					
September .....	1,414	1,621	1,779	1,808	1,644	September .....	1,889	1,882	1,621	1,773	1,765
October .....	(NA)	1,690	1,805	1,801	1,670	October .....	(NA)	1,835	1,691	1,715	1,714
November .....	1,538	1,772	1,834	1,861		November .....	1,780	1,796	1,776	1,782	
Final .....	1,531	1,768	1,834	1,890		Final .....	1,799	1,796	1,776	1,782	
<b>Kansas</b>						<b>South Dakota</b>					
September .....	1,295	1,303	1,285	1,467	1,487	September .....	1,508	1,533	1,541	1,561	1,511
October .....	(NA)	1,384	1,602	1,643	1,472	October .....	(NA)	1,485	1,557	1,639	1,472
November .....	1,319	1,428	1,715	1,720		November .....	1,543	1,498	1,563	1,709	
Final .....	1,360	1,453	1,715	1,737		Final .....	1,489	1,501	1,563	1,665	
<b>Minnesota</b>						<b>11-State</b>					
September .....	1,433	1,414	1,637	1,614	1,359	September .....	1,555	1,651	1,672	1,741	1,678
October .....	(NA)	1,431	1,644	1,625	1,407	October .....	(NA)	1,667	1,731	1,800	1,692
November .....	1,400	1,434	1,612	1,658		November .....	1,589	1,719	1,763	1,862	
Final .....	1,418	1,434	1,612	1,658		Final .....	1,580	1,720	1,764	1,870	

(NA) Not available.

### Soybean Objective Yield Percent of Samples Processed in the Lab – United States: 2013-2017

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

Year	October	November
	Mature <sup>1</sup>	Mature <sup>1</sup>
	(percent)	(percent)
2013 .....	(NA)	73
2014 .....	35	92
2015 .....	54	95
2016 .....	53	93
2017 .....	49	

(NA) Not available.

<sup>1</sup> 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 2017. 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.

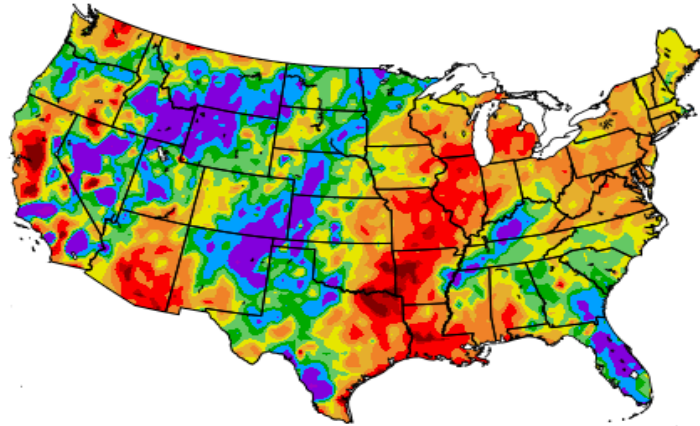
### Cotton Cumulative Boll Counts – Selected States: 2013-2017

[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	2013	2014	2015	2016	2017
	(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>					
September .....	1,025	910	763	800	911
October .....	(NA)	741	769	769	839
November .....	855	771	856	779	
December .....	862	773	856	779	
Final .....	862	773	856	779	
<b>Georgia</b>					
September .....	481	660	645	562	593
October .....	(NA)	660	630	668	608
November .....	663	717	748	719	
December .....	669	718	759	725	
Final .....	670	719	759	725	
<b>Louisiana</b>					
September .....	806	745	676	654	648
October .....	(NA)	876	776	760	667
November .....	857	877	794	784	
December .....	857	877	793	784	
Final .....	857	877	793	784	
<b>Mississippi</b>					
September .....	925	843	887	953	904
October .....	(NA)	808	839	942	810
November .....	906	861	898	974	
December .....	907	861	898	974	
Final .....	907	861	898	974	
<b>North Carolina</b>					
September .....	532	604	551	558	637
October .....	(NA)	629	620	599	705
November .....	636	765	624	660	
December .....	668	764	632	660	
Final .....	668	764	632	660	
<b>Texas</b>					
September .....	547	485	566	467	592
October .....	(NA)	373	442	474	602
November .....	517	453	481	528	
December .....	526	461	492	547	
Final .....	525	482	495	546	
<b>6-State</b>					
September .....	580	564	601	532	633
October .....	(NA)	487	518	554	635
November .....	608	561	571	604	
December .....	614	566	581	618	
Final .....	617	587	583	618	

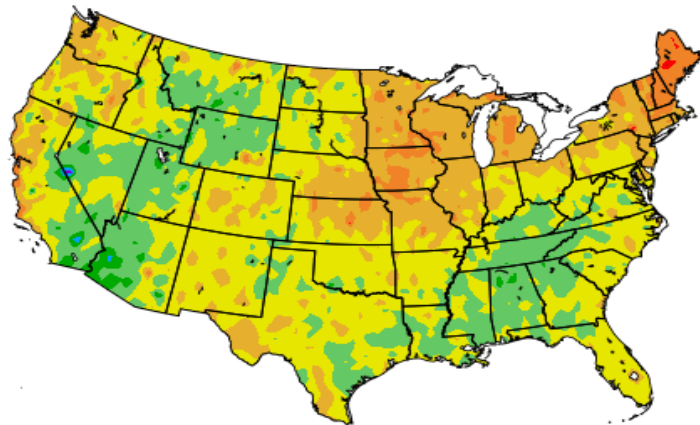
(NA) Not available.

Percent of Normal Precipitation (%)  
9/1/2017 - 9/30/2017



NOAA Regional Climate Centers

Departure from Normal Temperature (F)  
9/1/2017 - 9/30/2017



NOAA Regional Climate Centers

## September Weather Summary

Following Harvey's strike on Texas in late August, hurricanes continued to dominate national weather headlines in September. First, Hurricane Irma passed just north of and battered the northern United States Virgin Islands of St. Thomas and St. John on September 6. And, after tracking roughly parallel to the northern coast of Cuba, Irma made a sharp right turn, passing through the Florida Keys on the morning of September 10. Irma's final landfall occurred on Marco Island, Florida, later that afternoon. On September 10-11, wind, rain, and flooding associated with Irma's remnants spread throughout Florida's peninsula and into Georgia, resulting in widespread power outages; infrastructural damage; and losses for a variety of commodities. Little more than a week later, on September 20, Hurricane Maria passed just south of St. Croix, United States Virgin Islands, and—after weakening slightly—made a direct hit on Puerto Rico. Maria, which cut all power on Puerto Rico and caused substantial wind and flood damage, brought long-term agricultural devastation in the form of damaged or destroyed farm buildings, as well as near-total losses of plantation and orchard crops, such as bananas, plantains, coffee, and citrus.

Aside from Irma-affected areas of the Southeast, minimal September rain fell along and east of a line from eastern Texas into Lower Michigan. The short-term dryness sharply reduced topsoil moisture for winter wheat and cover crops. However, the Midwest also experienced a period of exceptional, late-season warmth, helping to push developmentally delayed corn and soybeans toward maturity.

In contrast, wetness dominated the Nation's mid-section, starting in mid-September. The axis of heaviest rain stretched from southern sections of the Rockies and Plains into the upper Midwest, slowing or halting fieldwork but improving soil moisture for newly planted winter wheat.

Across the northern High Plains and the Northwest, several rounds of mid- to late-month precipitation eased drought, aided wildfire containment efforts, and improved air quality, following a hot, dry, smoky summer. Elsewhere in the West, early-month heat yielded to periods of precipitation—except in California and the Desert Southwest—and markedly cooler conditions.

## September Agricultural Summary

Most of the United States experienced above-average temperatures for the month of September with some locations in the Corn Belt and New England recording average temperatures more than 4°F above normal. Despite warm temperatures across major agricultural producing regions of the Nation, maturity and harvest of most fall harvested crops remained behind normal throughout the month. Scattered areas in the northern Rockies, Southwest, and Southeast recorded below-average temperatures for the month. Precipitation levels were variable across the Nation with some areas of the Pacific Northwest, Great Plains, and Southeast recording more than 4 inches of total precipitation for the month. In mid-September, Hurricane Irma brought heavy rain and winds to Florida and other southern Atlantic Coast States. Portions of Florida received more than 16 inches of precipitation from the storm. Above-normal monthly rainfall benefited drought areas of Montana, North Dakota, and South Dakota but delayed fieldwork.

By September 3, ninety-two percent of the Nation's corn had reached the dough stage, 3 percentage points behind last year and 2 percentage points behind the 5-year average. Nationally, 60 percent of the corn crop was at or beyond the dent stage by September 3, fourteen percentage points behind last year and 8 percentage points behind the 5-year average. Fourteen of the 18 estimating States reported double-digit advances in the percentage of the crop dented during the first week of the month. Twelve percent of this year's crop was reported as mature by September 3, five percentage points behind last year and 6 percentage points behind the 5-year average. Ninety-six percent of the corn crop had reached the dough stage by September 10, three percentage points behind last year and slightly behind the 5-year average. Three-quarters of this year's corn crop was at or beyond the dent stage by September 10, ten percentage points behind last year and 6 percentage points behind the 5-year average. Nationwide, 21 percent of the corn crop was mature by September 10, ten percentage points behind both last year and the 5-year average. The maturity of the corn crop was behind historical trends in the Corn Belt, including 17 percentage points behind the 5-year average in South Dakota and 15 percentage points behind in both Illinois and Minnesota. By September 10, five percent of the corn crop was harvested, equal to last year but slightly behind the 5-year average. Ninety-three percent of the 2017 corn crop was dented by September 24, three percentage points behind last year and 2 percentage points behind the 5-year average.

Fifty-one percent of the corn crop was mature by September 24, nineteen percentage points behind last year and 13 percentage points behind the 5-year average. By September 24, producers had harvested 11 percent of the Nation's corn crop, 3 percentage points behind last year and 6 percentage points behind the 5-year average. Ninety-six percent of the 2017 corn crop was dented by October 1, four percentage points behind last year and 2 percentage points behind the 5-year average. By October 1, sixty-eight percent of the corn crop was mature, 16 percentage points behind last year and 10 percentage points behind the 5-year average. Nationwide, producers had harvested 17 percent of the corn crop by October 1, six percentage points behind last year and 9 percentage points behind the 5-year average. Harvest progress was 17 percentage points behind the 5-year average in Illinois and 16 percentage points behind in South Dakota. Overall, 63 percent of the Nation's corn was rated in good to excellent condition on October 1, up 2 percentage points from September 3 but 10 percentage points below the same time last year.

Nationally, 96 percent of the sorghum crop was at or beyond the heading stage by September 3, two percentage points behind last year but 2 percentage points ahead of the 5-year average. Sixty-two percent of the sorghum crop was at or beyond the coloring stage by September 3, ten percentage points behind last year and 2 percentage points behind the 5-year average. Nationwide, 31 percent of the sorghum crop was mature by September 3, six percentage points behind last year and 3 percentage points behind the 5-year average. Producers had harvested 23 percent of the sorghum crop by September 3, three percentage points ahead of last year but slightly behind the 5-year average. By September 17, eighty-four percent of the sorghum crop was at or beyond the coloring stage, 3 percentage points behind last year but slightly ahead of the 5-year average. Nationally, sorghum maturity advanced to 43 percent complete by September 17, seven percentage points behind last year and 3 percentage points behind the 5-year average. Nationwide, harvest advanced to 29 percent complete by September 17, equal to both last year and the 5-year average. By October 1, sorghum coloring had advanced to 94 percent complete, 2 percentage points behind last year but equal to the 5-year average. Nationwide, 60 percent of the sorghum crop was mature by October 1, ten percentage points behind last year and 3 percentage points behind the 5-year average. By October 1, thirty-four percent of the Nation's crop was harvested, 6 percentage points behind last year and 3 percentage points behind the 5-year average. The sorghum harvest was 21 percentage points behind the 5-year average in South Dakota. Overall, 64 percent of the sorghum was reported in good to excellent condition on October 1, up slightly from the beginning of September but 2 percentage points lower than at the same time last year.

Ninety-one percent of the Nation's oat crop was harvested by September 3, seven percentage points behind last year and 3 percentage points behind the 5-year average. Harvest progress advanced 11 percentage points in Minnesota during the week ending September 3. Oat producers had harvested 96 percent of this year's crop by September 10, four percentage points behind last year and slightly behind the 5-year average. Oat harvest was over 90 percent complete in all estimating States except Pennsylvania by September 10.

Barley producers had harvested 92 percent of this year's crop by September 3, two percentage points ahead of last year and 8 percentage points ahead of the 5-year average. In North Dakota, the barley harvest was 12 percentage points ahead of normal at the beginning of September. By September 10, ninety-six percent of the barley crop was harvested, 2 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. The barley harvest was virtually complete in all estimating States except Washington on September 10.

Only five estimating States reported the planting of winter wheat during the first week of September, with progress limited to Colorado, Kansas, Montana, Nebraska, and Washington. By September 10, five percent of the Nation's 2018 crop was planted, equal to last year but slightly behind the 5-year average. Producers had sown 13 percent of the 2018 winter wheat crop by September 17, two percentage points behind both last year and the 5-year average. By September 24, producers had sown 24 percent of the Nation's intended 2018 acreage, 4 percentage points behind both last year and the 5-year average. Montana had 23 percent of the winter wheat crop planted by September 24, twenty-seven percentage points behind the State's 5-year average. By October 1, producers had sown 36 percent of the Nation's 2018 winter wheat crop, 5 percentage points behind last year and 7 percentage points behind the 5-year average. Planting progress advanced 30 percentage points in Montana and 27 percentage points in Idaho during the last week of the month. Nationwide, 12 percent of the winter wheat crop was emerged by October 1, six percentage points behind last year and 4 percentage points behind the 5-year average. Emergence was at or behind the 5-year average in 14 of the 18 estimating States on October 1.

Eighty-nine percent of the spring wheat crop was harvested by September 3, slightly behind last year but 11 percentage points ahead of the 5-year average. Harvest progress was nearly two weeks ahead of the 5-year average in Montana at the beginning of the month. Spring wheat producers had harvested 95 percent of this year's crop by September 10, slightly ahead of last year and 8 percentage points ahead of the 5-year average. By September 10, the North Dakota spring wheat harvest was 10 percentage points ahead of the State 5-year average.

Rice producers had harvested 29 percent of this year's crop by September 3, four percentage points behind last year and slightly behind the 5-year average. Nationally, producers had harvested 55 percent of this year's rice crop by September 17, seven percentage points behind last year but 4 percentage points ahead of the 5-year average. In Arkansas, harvest progress advanced 18 percentage points during the week ending September 17 to 59 percent complete. Overall, 69 percent of the rice crop was rated in good to excellent condition on September 17, compared with 71 percent on September 3, and 55 percent at the same time last year. Nationally, producers had harvested 69 percent of this year's rice crop by September 24, three percentage points behind last year but 8 percentage points ahead of the 5-year average. The rice harvest was nearly complete in Texas and Louisiana at that time. By October 1, rice producers had harvested 77 percent of this year's crop, 4 percentage points behind last year but 6 percentage points ahead of the 5-year average. With dry conditions during the final week of the month, producers completed double-digit advances in harvest progress in Arkansas, California, Mississippi, and Missouri.

Ninety-seven percent of the Nation's soybean crop was at or beyond the pod setting stage by September 3, equal to last year but slightly ahead of the 5-year average. Pod setting was at least 90 percent complete in all soybean estimating States except Kentucky and North Carolina at the beginning of the month. By September 3, leaf drop had advanced to 11 percent complete, equal to last year but slightly behind the 5-year average. Forty-one percent of this year's soybean crop was at or beyond the leaf dropping stage by September 17, two percentage points behind both last year and the 5-year average. During the week ending September 17, warm weather in the western Corn Belt led to the rapid acceleration of soybean progress, with the percent of the crop dropping leaves advancing 27 percentage points in North Dakota and 26 percentage points in Nebraska. By September 17, four percent of the soybean crop was harvested, equal to last year but slightly behind the 5-year average. Significant harvest progress was limited to the Mississippi Delta but soybean harvest had begun in most Midwestern States by September 17. Eighty percent of this year's soybean crop was at or beyond the leaf dropping stage by October 1, slightly behind last year but 2 percentage points ahead of the 5-year average. Nationally, 22 percent of the soybean crop was harvested by October 1, two percentage points behind last year and 4 percentage points behind the 5-year average. Dry conditions east of the Mississippi River allowed for the soybean harvest to advance 12 percentage points Nationwide during the final week of the month, including an increase of 21 percentage points in Illinois and 19 percentage points in Ohio. Overall, 60 percent of the soybeans were reported in good to excellent condition on October 1, down slightly from September 3 and 14 percentage points below the same time last year.

The peanut harvest began in the far southern locations of the United States at the beginning of September. Nationwide, peanut producers had harvested 3 percent of this year's crop by September 10, slightly behind last year but equal to the 5-year average. By September 10, harvest activities were limited to Florida, Georgia, and South Carolina. By September 24, twelve percent of the peanut crop was harvested, 3 percentage points behind last year but equal to the 5-year average. On September 24, peanut harvest was behind the 5-year average in all estimating States except Georgia and Virginia. By October 1, a quarter of the Nation's peanut crop was harvested, slightly behind last year but 4 percentage points ahead of the 5-year average. At the beginning of October, Georgia harvest progress was 10 percentage points ahead of the 5-year average. Overall, 75 percent of the peanuts were reported in good to excellent condition on October 1, down 5 percentage points from September 3 but 15 percentage points better than at the same time last year.

By September 3, ninety-six percent of the Nation's cotton crop had set bolls, 2 percentage points behind last year and slightly behind the 5-year average. A quarter of this year's cotton crop had open bolls by September 3, seven percentage points behind last year and 5 percentage points behind the 5-year average. Cotton harvest in Texas was 15 percent complete by September 3, eight percentage points ahead of the 5-year average. Nationally, 34 percent of the cotton crop was at or beyond the boll opening stage by September 10, six percentage points behind both last year and the 5-year average. By September 10, nine percent of the Nation's crop was harvested, 5 percentage points ahead of both last year and the 5-year average. By September 24, fifty-seven percent of this year's cotton crop was at or beyond the boll opening stage, 4 percentage points behind both last year and the 5-year average. Nationally, 14 percent of the cotton crop had been harvested by September 24, five percentage points ahead of both last year and the 5-year average. Bolls were opening

across 67 percent of this year's cotton acreage by October 1, three percentage points behind both last year and the 5-year average. Nationally, harvest was 17 percent complete by October 1, two percentage points ahead of last year and 4 percentage points ahead of the 5-year average. In Texas, cool weather delayed the progress of cotton in the High Plains and the Northern Low Plains during the last week of the month. Overall, 57 percent of the cotton was reported in good to excellent condition on October 1, down 8 percentage points from September 3 but 8 percentage points better than at the same time last year.

By September 10, sugarbeet producers had harvested 6 percent of the Nation's crop, 2 percentage points behind last year but equal to the 5-year average. By September 24, producers had harvested 15 percent of the sugarbeet crop, slightly ahead of last year and 2 percentage points ahead of the 5-year average. The sugarbeet harvest was 30 percent complete in Idaho by September 24, fifteen percentage points ahead of the State's 5-year average. Sugarbeet producers had harvested 22 percent of this year's crop by October 1, three percentage points ahead of last year but slightly behind the 5-year average. Ninety-two percent of the sugarbeet crop in North Dakota was rated good to excellent at that time, compared with 62 percent at the same time last year.

## Crop Comments

**Corn:** Acreage updates were made in several States following a thorough review of all available data. Total planted area, at 90.4 million acres, is down 1 percent from the previous estimate. Acreage harvested for grain is forecast at 83.1 million acres, down less than 1 percent from the previous estimate and down 4 percent from 2016.

The October 1 corn objective yield data indicate the third 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 14.3 billion bushels, 2017 corn production is forecast to be the second highest production on record for the United States. The forecasted yield, at 171.8 bushels per acre, is also expected to be the second highest yield on record for the United States. Record yields are forecast for Alabama, Georgia, Idaho, Kentucky, Louisiana, Michigan, Mississippi, Pennsylvania, South Carolina, and Tennessee.

Ninety-six percent of the 2017 corn crop was denting by October 1, four percentage points behind last year and 2 percentage points behind the 5-year average. At that time, 68 percent of the corn was mature, 16 percentage points behind last year and 10 percentage points behind the 5-year average. Nationwide, producers had harvested 17 percent of the corn by October 1, six percentage points behind last year and 9 percentage points behind the 5-year average. At that time, harvest progress was 17 percentage points behind the 5-year average in Illinois and 16 percentage points behind in South Dakota. Overall, 63 percent of the Nation's corn crop was rated in good to excellent condition on October 1, ten percentage points below the same time last year.

**Sorghum:** Production is forecast at 364 million bushels, down 2 percent from the September forecast and down 24 percent from last year. Acreage updates were made in several States following a thorough review of all available data. Planted area, at 5.71 million acres, is down 5 percent from the previous estimate and down 15 percent from last year. Area harvested for grain is forecast at 5.05 million acres, down 5 percent from the previous forecast and down 18 percent from last year. Based on October 1 conditions, yield is forecast at 72.2 bushels per acre, 2.4 bushels higher than the September forecast but 5.7 bushels below the 2016 record high yield of 77.9 bushels per acre.

As of October 1, ninety-four percent of the crop had reached the coloring stage, 2 percentage points behind the same time last year but identical to the 5-year average. Sixty percent of the crop was considered mature at that time, 10 percentage points behind the same time last year and 3 percentage points behind the 5-year average. As of October 1, thirty-four percent of the crop had been harvested compared with 40 percent at the same time last year and the 5-year average of 37 percent. As of October 1, sixty-four percent of the Nation's sorghum acreage was rated in good to excellent condition, compared with 66 percent rated in these two categories at the same time last year.

**Rice:** Production is forecast at 179 million cwt, down 1 percent from the September forecast and down 20 percent from last year. If realized, production for 2017 would represent the lowest production total for the United States since 1996.

Area for harvest is expected to total 2.39 million acres, down less than 1 percent from the September forecast and down 23 percent from last year. Based on conditions as of October 1, the average United States yield is forecast at 7,469 pounds per acre, down 35 pounds per acre from the September forecast, but 232 pounds per acre higher than the 2016 average yield of 7,237 pounds per acre. If realized, the expected yield in Missouri for 2017 will be a record high.

By October 1, seventy-seven percent of the rice acreage was harvested, 4 percentage points behind the same time last year but 6 percentage points ahead of the five-year average pace. Harvest was virtually complete in Louisiana and Texas as of October 1.

**Soybeans:** Acreage updates were made in several States based on a thorough review of all available data. Planted area, at a record 90.2 million acres, is up 1 percent from the previous estimate. Area for harvest is forecast at a record 89.5 million acres, up 1 percent from the September forecast and up 8 percent from 2016.

The October objective yield data for the combined 11 major soybean-producing States (Arkansas, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Ohio, and South Dakota) indicate a lower pod count from the previous year. Compared with final counts for 2016, pod counts are down in 9 of the 11 published States. A decrease of more than 200 pods per 18 square feet from 2016's final pod count is expected in Illinois, Iowa, Kansas, Minnesota, and Nebraska. An increase in pods per 18 square feet is expected in Arkansas and Missouri.

As of October 1, eighty percent of the United States soybean crop was dropping leaves or beyond, slightly behind last year but 2 percentage points ahead of the 5-year average. Despite soybeans dropping leaves being ahead of the 5-year average by the end of September, harvest progress was not as far along. Overall, harvest was 22 percent complete as of October 1, two percentage points behind last year and four percentage points behind the 5-year average. At that time, harvest progress was at or behind the State 5-year average in 8 of the 18 estimating States. As of October 1, sixty percent of the Nation's soybean crop was rated in good to excellent condition, 14 percentage points below the same week last year.

If realized, the forecasted yield will be a record high in Arkansas, Delaware, Georgia, Kentucky, Maryland, Mississippi, Missouri, New York, Pennsylvania, South Carolina, Tennessee, and Virginia.

**Sunflower:** The first production forecast for 2017 is 1.81 billion pounds, down 32 percent from the revised 2016 production of 2.65 billion pounds. Area planted, at 1.40 million acres, is up 11 percent from the June estimate but down 12 percent from last year. Sunflower growers expect to harvest 1.35 million acres, up 11 percent from June but down 12 percent from the 2016 acreage. Planted area for the Nation is the second lowest on record since 1976, and harvested area will be the second lowest since 1976, if realized. The October yield forecast, at 1,339 pounds per acre, is 392 pounds lower than last year's record high yield and will be the lowest since 2006, if realized.

As of October 1, lower yields are expected in 5 of the 8 published States compared with last year. Due to drought conditions, average yields forecast in the Dakotas are down more than 500 pounds per acre compared with last year. The forecasted production in South Dakota, the leading sunflower-producing State this year, is 879 million pounds, down 17 percent from 2016. In North Dakota, production is forecast at 459 million pounds, which would represent the lowest production since 1974, if realized. The yield in North Dakota, at 1,097 pounds per acre, will be the second lowest yield since 1993, if realized. A record high yield is forecast in Texas.

**Peanuts:** Production is forecast at 7.79 billion pounds, up slightly from the September forecast and up 39 percent from the revised 2016 total of 5.58 billion pounds. If realized, production for the Nation will be the highest on record. Harvested area is expected to total 1.83 million acres, unchanged from the September forecast but up 19 percent from 2016. Based on conditions as of October 1, the average yield for the United States is forecast at 4,257 pounds per acre, up 3 pounds per acre from September and up 623 pounds per acre from the 2016 average yield of 3,634 pounds per acre. The average United States yield will be the highest on record, if realized. Record high yields are forecast in Alabama, Georgia, Mississippi, and South Carolina. If realized, production in Georgia and South Carolina will be the highest on record.

As of October 1, twenty-five percent of the 2017 peanut crop had been harvested, slightly behind last year but 4 percentage points ahead of the five-year average. Seventy-five percent of the crop was rated in good to excellent condition on October 1, compared with 60 percent at the same time last year.

**Canola:** The first production forecast for 2017 is 2.81 billion pounds, down 9 percent from the revised 2016 production of 3.09 billion pounds. If realized, this will be the third largest production on record for the United States. Area planted, at a record high 2.08 million acres, is down 4 percent from the June estimate but up 21 percent from last year. Canola farmers expect to harvest a record high 2.03 million acres, down 4 percent from June but up 20 percent from 2016. The October yield forecast, at 1,383 pounds per acre, is 441 pounds below last year's record high yield and will be the lowest since 2007, if realized.

The yield in North Dakota, the largest canola-producing State, is forecast at 1,410 pounds per acre, down 430 pounds from last year's yield. Planted area in North Dakota is estimated at 1.59 million acres, an increase of 9 percent from 2016. Planting of the canola crop in North Dakota was generally behind last year's pace, but ahead of the 5-year average. Maturation of the crop followed that same pattern for the majority of the growing season and harvest was underway by early August. Harvest progress reached 95 percent complete by September 24, two percentage points ahead of last year and 4 percentage points ahead of the 5-year average.

**Cotton:** Upland cotton harvested area is expected to total 11.2 million acres, down 1 percent from September but up 20 percent from last year. Pima cotton harvested area, estimated at 242,200 acres, was carried forward from last month.

As of October 1, fifty-seven percent of the cotton acreage was rated in good to excellent condition, compared with 49 percent at the same time last year. Acreage rated in good to excellent condition dropped 8 percentage points from the week ending September 3, as condition ratings declined during the month in 11 of the 15 weekly *Crop Progress* estimating States. Sixty-seven percent of the crop had open bolls by October 1, three percentage points behind both last year and the 5-year average.

Harvest progress reached 17 percent complete by October 1, two percentage points ahead of last year and four percentage points ahead of the 5-year average.

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

Ginnings totaled 1,249,300 running bales prior to October 1, compared with 1,166,700 running bales ginned prior to the same date last year.

**Alfalfa and alfalfa mixtures:** Production of alfalfa and alfalfa mixture dry hay for 2017 is forecast at 56.0 million tons, down less than 1 percent from the August forecast and down 4 percent from 2016. Based on October 1 conditions, yields are expected to average 3.27 tons per acre, down 0.18 ton from last year. Harvested area is forecast at 17.1 million acres, unchanged from the August forecast but up 1 percent from 2016.

Montana, North Dakota, and South Dakota, the top three States in area of alfalfa and alfalfa mixtures in 2017, have experienced drought conditions this year. As a result, each of these States are expecting lower yields than in 2016. However, record high yields are expected in Arizona, Idaho, Indiana, Kentucky, Nebraska, and Oregon in 2017 due to favorable conditions.

**Other hay:** Production of other hay is forecast at 75.9 million tons, down 1 percent from 2016. Based on October 1 conditions, yields are expected to average 2.08 tons per acre, down 0.02 ton from the August forecast and down 0.01 ton from last year. Harvested area is forecast at 36.4 million acres, unchanged from the August forecast but down less than 1 percent from 2016.

Outside of the drought stricken States of Montana, North Dakota, and South Dakota, limited hay acres have experienced drought conditions this year. As a result, Alabama, Idaho, Kentucky, Missouri, Nebraska, and Oklahoma are expecting record high yields.



**Dry beans:** United States dry edible bean production is forecast at 35.3 million cwt for 2017, up 23 percent from last year. Planted area is estimated at 2.11 million acres, up 27 percent from 2016. Harvested area is forecast at 2.03 million acres, 30 percent above the previous year. The average United States yield is forecast at 1,737 pounds per acre, a decrease of 105 pounds from 2016.

In North Dakota, planting was virtually complete by June 18, ahead of the 5-year average. As of October 1, harvest was 71 percent complete, close to the 5-year average of 73 percent. In Michigan, harvest began mid-to-late September as favorable weather aided in drying down the crop. As of October 1, fifty-seven percent of the beans were harvested, which was slightly ahead of the previous season.

In Minnesota, nearly all of the crop was planted by June 11, about 1 week ahead of average. By mid-September the crop was rated mostly fair to good. As of October 1, eighty-five percent of the beans were harvested.

**Spring potatoes:** Production of 2017 spring potatoes totaled 19.8 million cwt, up 30 percent from the 2016 crop. Area harvested, at 58,000 acres, increased 14 percent from 2016. The average yield, at 343 cwt per acre, was up 27 cwt from 2016.

**Tobacco:** The 2017 United States all tobacco production is forecast at 724 million pounds, up 15 percent from 2016. Area harvested is forecast at 321,280 acres, 1 percent above last year. The 2017 average yield is forecast at 2,253 pounds per acre, 286 pounds above 2016.

Flue-cured tobacco production is expected to total 472 million pounds, up 9 percent from the 2016 crop. North Carolina growers reported mostly good to excellent growing conditions, with 85 percent of the flue-cured tobacco cut by October 1, compared with 89 percent at the same time last year.

Burley production is expected to total 166 million pounds, up 19 percent from last year. Kentucky growers reported mostly favorable weather during September, which resulted in mostly good growing conditions. Eighty-eight percent of the crop had been cut by October 1, equal to the same time last year.

**Sugarbeets:** Production of sugarbeets for the 2017 crop year is forecast at 35.7 million tons, down 3 percent from last year. Producers expect to harvest 1.11 million acres, down 1 percent from last year. Yield is forecast at 32.0 tons per acre, a decrease of 0.7 ton from last year.

**Sugarcane:** Production of sugarcane for sugar and seed in 2017 is forecast at 32.5 million tons, up 1 percent from last year. Producers intend to harvest 895,300 acres for sugar and seed during the 2017 crop year, down 1 percent from last year. Yield for sugar and seed is forecast at 36.3 tons per acre, up 0.7 ton from 2016.

**Grapefruit:** The United States 2017-2018 grapefruit crop is forecast at 588,000 tons, down 14 percent from last season's final utilization. In Florida, expected production, at 4.90 million boxes (208,000 tons), is down 37 percent from last year. Texas grapefruit production, at 5.30 million boxes (212,000 tons), is up 10 percent from the previous season and California's production, at 4.20 million boxes (168,000 tons), is up 5 percent from the 2016-2017 season.

**Lemons:** The forecast for the 2017-2018 United States lemon crop is 904,000 tons, up 2 percent from last season's final utilization. Production is up from the 2016-2017 season in California but down in Arizona.

**Tangerines and mandarins:** The United States tangerine and mandarin crop is forecast at 968,000 tons, down 6 percent from last season's final utilization. The California and Florida tangerine and mandarin forecasts are down from the 2016-2017 season.

**Florida citrus:** Daily temperatures across the citrus region were reported as average all month, with highs ranging from the mid-80s to mid-90s. During the first week of the month, rainfall was limited to three or less inches in all citrus growing counties. On Sunday, September 10, 2017, the entire citrus area was inundated with heavy winds and excessive rainfall as Hurricane Irma approached the southern tip of the State. The hurricane made landfall late Sunday afternoon on Marco Island (Collier County) as a Category 3 storm. The hurricane path bordered between the Western and Central

portion of the citrus belt, weakening to a Category 1 storm throughout the day, but still wreaking havoc on the entire citrus region as it passed. Heavy rainfall continued in the Northern and Central areas as remnants from Hurricane Irma left the State. Reported rainfall totals in citrus counties were between three and seventeen inches in a 24-hour period. Frostproof (Polk County) in the Central area accumulated 21.56 inches for the month, Vero Beach (Indian River County) in the Indian River District had 17.87 inches of rainfall for the month, and Immokalee (Collier County) in the Southern area had 16.80 inches. According to the October 3, 2017 U.S. Drought Monitor, the complete citrus growing region was drought free.

Normal grove operations were halted in all areas due to the storm. Access to heavily flooded groves immediately following the storm was impossible. All groves were extremely wet, preventing growers from conducting grove care of any kind. After the storm passed, caretakers were pumping standing water out of the grove rows, and trying to get canals and ditches back to normal levels. Owners were surveying groves to assess damage to the fruit and to the trees. By the middle of the month, growers were surveying roads for washouts, and repairing pot holes as they could get to them. By the end of the month a couple processing plants opened to take early season oranges before they fell to the ground. Spraying and general grove maintenance started up the last week of the month.

**California citrus:** Valencia oranges and lemons were harvested and packed. In some orange groves, trees were pulled out to make way for new plantings. By the end of the month, the Valencia orange harvest was winding down for the year. Citrus packing houses were getting ready for the new navel orange season.

**California noncitrus fruits and nuts:** Growers reported stone fruit harvest was nearly complete by the first of the month. Harvest of late variety stone fruit orchards continued throughout the month. Wine, table, and raisin grape harvests were ongoing. Harvest of some early wine grape varieties was completed early in the month. Raisin grapes continued to be placed on trays for drying. Finished raisin trays were rolled-up for pickup by month's end. Pomegranate, pears, Asian pears, and fig harvests continued. Persimmons continued to gain size and change color. Kiwifruit in Tulare County were nearing maturity by mid-month. Cherry orchards were pruned. Olive harvest began in Tulare County and other counties by month's end. The almond harvest continued. Walnut orchards were being prepared for harvest and sprayed for husk fly and orangeworm. Ethephon sprays were applied to some walnut groves. A few walnuts were harvested mid-month. Growth regulator sprays were applied to some walnut groves to promote development. Pistachio harvest continued.

**Pecans:** Production is forecast at 277 million pounds (utilized, in-shell basis), up 3 percent from 2016. Improved varieties are expected to produce 246 million pounds or 89 percent of the total. The native and seedling varieties are expected to produce 31.3 million pounds, making up the remaining 11 percent of production.

In New Mexico, production, if realized, will be a record high. In Georgia, growers reported damage from Hurricane Irma including downed trees and limbs as well as nuts blown off trees.

## Statistical Methodology

**Field crop survey procedures:** Objective yield and farm operator surveys were conducted between September 26 and October 5 to gather information on expected yield as of October 1. The objective yield surveys for corn, cotton, and soybeans were conducted in the major producing States that usually account for about 75 percent of the United States production. Randomly selected plots were revisited to make current counts. The counts made within each sample plot depend on the crop and the maturity of that crop. In all cases, plant counts are recorded along with other measurements that provide information to forecast the number of ears, bolls, or pods and their weight. The counts are used with similar data from previous years to develop a projected biological yield. The average harvesting loss is subtracted to obtain a net yield. The plots are 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 11,300 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:** The orange objective yield survey for the October 1 forecast was conducted in Florida, which produced about 60 percent of the United States production last season. In August and September, the number of bearing trees and the number of fruit per tree were determined. In August and subsequent months, fruit size measurement and fruit droppage surveys are conducted to develop the current forecast of production. California and Texas conduct grower surveys on a quarterly basis in October, January, April, and July. California conducts an objective measurement survey 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 yield 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 1.5 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 1.5 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 2.7 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 137 million bushels, ranging from 3 million bushels to 374 million bushels. The October 1 forecast has been below the final estimate 9 times and above 10 times. This does not imply that the October 1 corn forecast this year is likely to understate or overstate final production.

### Reliability of October 1 Crop Production Forecasts

[Based on data for the past twenty years]

Crop	Root mean square error	90 percent confidence interval	Difference between forecast and final estimate				
			Production			Years	
			Average	Smallest	Largest	Below final	Above final
	(percent)	(percent)	(millions)	(millions)	(millions)	(number)	(number)
Corn for grain ..... bushels	1.5	2.7	137	3	374	9	10
Dry edible beans ..... cwt	3.6	6.3	1	(Z)	3	14	5
Oranges <sup>1</sup> ..... tons	8.1	14.0	550	2	1,676	4	15
Oranges <sup>1 2</sup> ..... tons	6.2	10.9	409	2	1,192	4	12
Rice ..... cwt	2.0	3.5	3	(Z)	12	11	8
Sorghum for grain ..... bushels	5.2	9.1	16	1	31	10	9
Soybeans for beans ..... bushels	2.3	4.0	53	(Z)	182	12	7
Upland cotton <sup>1</sup> ..... bales	4.9	8.5	730	76	1,675	11	8

(Z) Less than half of the unit shown.

<sup>1</sup> Quantity is in thousands of units.

<sup>2</sup> Excluding freeze and hurricane seasons.

## USDA, National Agricultural Statistics Service Information Contacts

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

Lance Honig, Chief, Crops Branch.....	(202) 720-2127
Anthony Prillaman, Head, Field Crops Section.....	(202) 720-2127
Chris Hawthorn – Corn, Flaxseed, Proso Millet.....	(202) 720-9526
James Johanson – County Estimates, Hay.....	(202) 690-8533
Jeff Lemmons – Oats, Soybeans.....	(202) 690-3234
Scott Matthews – Crop Weather, Barley.....	(202) 720-7621
Sammy Neal – Peanuts, Rice.....	(202) 720-7688
Jean Porter – Rye, Wheat.....	(202) 720-8068
Bianca Pruneda – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds.....	(202) 720-7369
Jorge Garcia-Pratts, Head, Fruits, Vegetables and Special Crops Section.....	(202) 720-2127
Vincent Davis – Bananas, Cherries, Garlic, Lettuce, Mint, Papaya, Pears, Strawberries, Taro, Tomatoes.....	(202) 720-2157
Fleming Gibson – Avocados, Cauliflower, Celery, Citrus, Coffee, Dates, Figs, Kiwifruit, Nectarines, Olives, Watermelons.....	(202) 720-5412
Greg Lemmons – Blackberries, Blueberries, Boysenberries, Cranberries, Cucumbers, Potatoes, Pumpkins, Raspberries, Squash, Sugarbeets, Sugarcane, Sweet Potatoes.....	(202) 720-4285
Dan Norris – Artichokes, Austrian Winter Peas, Cantaloupes, Dry Beans, Dry Edible Peas, Honeydews, Lentils, Mushrooms, Peaches, Snap Beans.....	(202) 720-3250
Daphne Schaubert – Bell Peppers, Broccoli, Cabbage, Chile Peppers, Floriculture, Grapes, Hops, Maple Syrup, Tree Nuts, Spinach.....	(202) 720-4215
Chris Singh – Apples, Apricots, Asparagus, Carrots, Lima Beans, Onions, Plums, Prunes, Sweet Corn, Tobacco.....	(202) 720-4288

## Access to NASS Reports

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

- All reports are available electronically, at no cost, on the NASS web site: [www.nass.usda.gov](http://www.nass.usda.gov)
- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit [www.nass.usda.gov](http://www.nass.usda.gov) and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.

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

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## **USDA NASS Data Users' Meeting Tuesday, October 24, 2017**

**Embassy Suites Hotel Kansas City Plaza  
220 West 43<sup>rd</sup> Street  
Kansas City, MO 64111  
816-756-1720**

USDA's National Agricultural Statistics Service will hold an open forum for users of U.S. domestic and international agriculture data. NASS is organizing the 2017 Data Users' Meeting in cooperation with five other USDA agencies Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board and the Census Bureau's Foreign Trade Division. Agency representatives will provide updates on recent and pending changes in statistical and information programs important to agriculture, answer questions, and welcome comments and input from data users.

For registration details or additional information about the Data Users' Meeting, see the meeting page on the NASS website ([https://www.nass.usda.gov/Education\\_and\\_Outreach/Meeting/index.php](https://www.nass.usda.gov/Education_and_Outreach/Meeting/index.php)) or contact Tina Hall (NASS) at 202-720-3896 or [tina.hall@nass.usda.gov](mailto:tina.hall@nass.usda.gov).

The Data Users' Meeting precedes the Industry Outlook Conference at the same location on Wednesday, October 25, 2017. The outlook meeting brings together analysts from various commodity sectors to discuss developments and trends. For registration details or additional information about the Industry Outlook Conference, see the conference page on the LMIC website (<http://lmic.info/page/meetings>) or contact James Robb at (303) 716-9933.