



Crop Production

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Corn Production Down 1 Percent from October Forecast
Soybean Production Down 2 Percent
Cotton Production Down 7 Percent
Orange Production Down 2 Percent

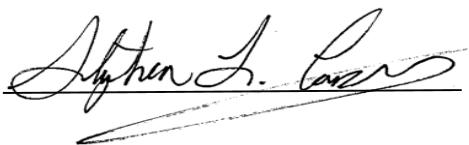
Corn production is forecast at 14.6 billion bushels, down 1 percent from the October forecast but up less than 1 percent from last year. Based on conditions as of November 1, yields are expected to average 178.9 bushels per acre, down 1.8 bushels from the October forecast but up 2.3 bushels from 2017. If realized, this will be the highest yield and second highest production on record for the United States. Area harvested for grain is forecast at 81.8 million acres, unchanged from the previous estimate but down 1 percent from 2017.

Soybean production is forecast at a record 4.60 billion bushels, down 2 percent from the October forecast but up 4 percent from last year. Based on November 1 conditions, yields are expected to average 52.1 bushels per acre, down 1.0 bushel from last month but up 2.8 bushels from last year. Area for harvest in the United States is forecast at 88.3 million acres, down slightly from last month.

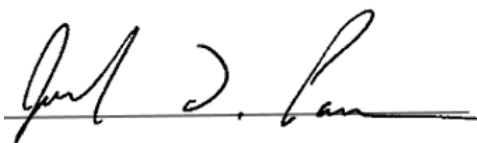
All cotton production is forecast at 18.4 million 480-pound bales, down 7 percent from the October forecast and down 12 percent from last year. Yield is expected to average 852 pounds per harvested acre, down 49 pounds from last month and down 53 pounds from last year. Harvested area for all cotton is expected to total 10.4 million acres, down 1 percent from October and down 7 percent from 2017. Upland cotton production is forecast at 17.6 million 480-pound bales, down 13 percent from 2017. Upland harvested area is expected to total 10.1 million acres, down 7 percent from last year. Pima cotton production, forecast at 771,000 bales, was carried forward from an earlier forecast.

The United States all orange forecast for the 2018-2019 season is 5.53 million tons, down 2 percent from last month but up 41 percent from the 2017-2018 final utilization. The Florida all orange forecast, at 77.0 million boxes (3.47 million tons), is down 3 percent from last month but up 71 percent from last season's final utilization. Early, midseason, and Navel varieties in Florida are forecast at 32.0 million boxes (1.44 million tons), down 6 percent from last month but up 69 percent from last season's final utilization. The Florida Valencia orange forecast, at 45.0 million boxes (2.03 million tons), is unchanged from last month but up 73 percent from last season's final utilization. California and Texas orange production forecasts were carried forward from the previous month.

This report was approved on November 8, 2018.



Secretary of Agriculture
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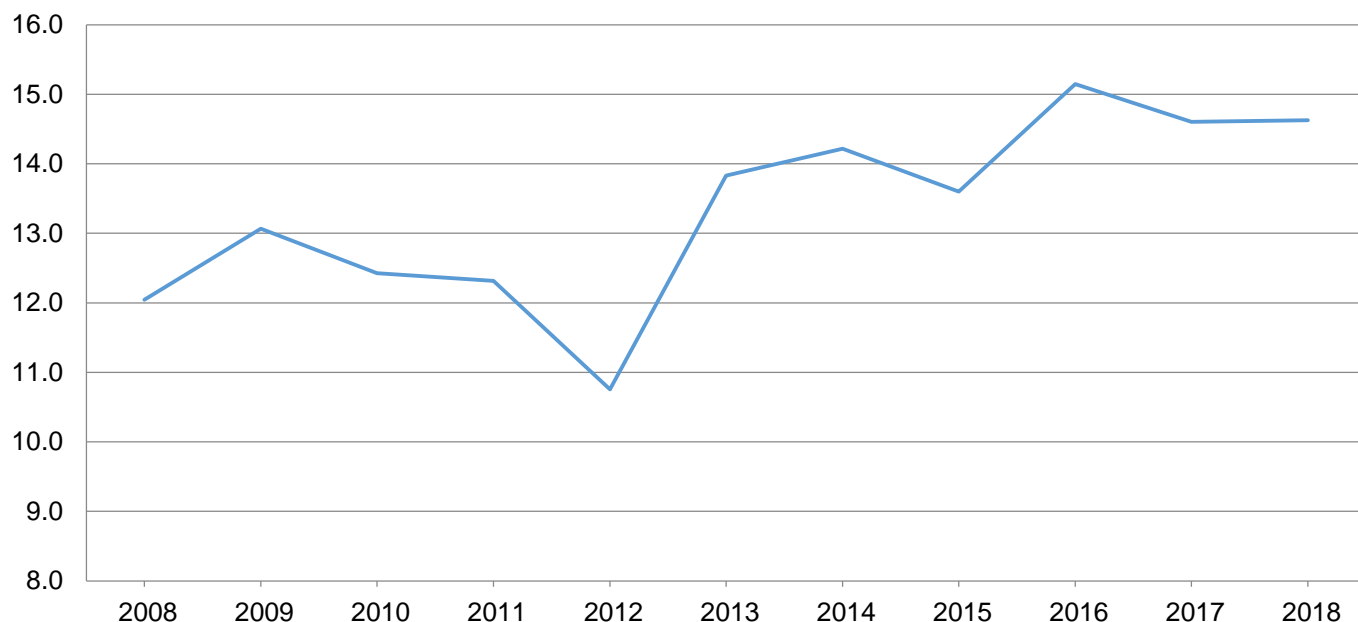
Corn for Grain Area Harvested, Yield, and Production – States and United States: 2017 and Forecasted November 1, 2018

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	235	235	167.0	176.0	176.0	39,245	41,360
Arkansas	595	650	183.0	179.0	181.0	108,885	117,650
California	80	75	167.0	178.0	183.0	13,360	13,725
Colorado	1,300	1,350	143.0	127.0	127.0	185,900	171,450
Delaware	171	159	189.0	164.0	156.0	32,319	24,804
Georgia	245	275	176.0	170.0	169.0	43,120	46,475
Idaho	115	130	203.0	202.0	205.0	23,345	26,650
Illinois	10,950	10,850	201.0	212.0	210.0	2,200,950	2,278,500
Indiana	5,190	5,170	180.0	194.0	194.0	934,200	1,002,980
Iowa	12,900	12,750	202.0	204.0	198.0	2,605,800	2,524,500
Kansas	5,200	5,100	132.0	130.0	130.0	686,400	663,000
Kentucky	1,220	1,240	178.0	180.0	179.0	217,160	221,960
Louisiana	490	450	184.0	170.0	170.0	90,160	76,500
Maryland	420	390	172.0	162.0	152.0	72,240	59,280
Michigan	1,890	1,900	159.0	163.0	166.0	300,510	315,400
Minnesota	7,630	7,450	194.0	191.0	184.0	1,480,220	1,370,800
Mississippi	500	460	189.0	188.0	188.0	94,500	86,480
Missouri	3,250	3,350	170.0	142.0	145.0	552,500	485,750
Nebraska	9,300	9,250	181.0	195.0	195.0	1,683,300	1,803,750
New York	485	630	161.0	163.0	166.0	78,085	104,580
North Carolina	840	840	142.0	117.0	117.0	119,280	98,280
North Dakota	3,230	2,920	139.0	146.0	146.0	448,970	426,320
Ohio	3,130	3,260	177.0	190.0	193.0	554,010	629,180
Oklahoma	305	280	126.0	130.0	140.0	38,430	39,200
Pennsylvania	920	910	161.0	157.0	155.0	148,120	141,050
South Carolina	325	310	136.0	121.0	121.0	44,200	37,510
South Dakota	5,080	4,950	145.0	172.0	166.0	736,600	821,700
Tennessee	710	685	171.0	174.0	173.0	121,410	118,505
Texas	2,240	1,910	140.0	107.0	113.0	313,600	215,830
Virginia	340	330	140.0	148.0	148.0	47,600	48,840
Washington	80	71	225.0	230.0	225.0	18,000	15,975
Wisconsin	2,930	3,000	174.0	179.0	177.0	509,820	531,000
Other States ¹	407	437	151.9	153.3	153.3	61,828	66,990
United States	82,703	81,767	176.6	180.7	178.9	14,604,067	14,625,974

¹ Other States include Arizona, Florida, Montana, New Jersey, New Mexico, Oregon, Utah, West Virginia, and Wyoming. Individual State level estimates will be published in the *Crop Production 2018 Summary*.

Corn Production – United States

Billion bushels



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

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas	7	10	76.0	80.0	80.0	532	800
Colorado	360	310	57.0	45.0	41.0	20,520	12,710
Kansas	2,450	2,650	82.0	91.0	86.0	200,900	227,900
Louisiana	13	7	91.0	95.0	95.0	1,183	665
Mississippi	4	3	72.0	80.0	80.0	288	240
Missouri	23	28	108.0	105.0	110.0	2,484	3,080
Nebraska	135	155	89.0	102.0	102.0	12,015	15,810
Oklahoma	295	260	53.0	50.0	48.0	15,635	12,480
South Dakota	170	190	68.0	78.0	75.0	11,560	14,250
Texas	1,500	1,400	63.0	53.0	51.0	94,500	71,400
Other States ¹	88	80	47.9	54.2	54.2	4,215	4,333
United States	5,045	5,093	72.1	75.0	71.4	363,832	363,668

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

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

State	Area harvested		Yield per acre			Production ¹	
	2017	2018	2017	2018		2017	2018
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)
Arkansas	1,104	1,422	7,490	7,500	7,500	82,644	106,650
California	443	496	8,410	8,600	8,500	37,277	42,160
Louisiana	395	434	6,710	7,000	7,000	26,503	30,380
Mississippi	114	139	7,400	7,300	7,300	8,436	10,147
Missouri	160	219	7,440	7,000	7,000	11,900	15,330
Texas	158	192	7,260	7,100	7,100	11,468	13,632
United States	2,374	2,902	7,507	7,539	7,522	178,228	218,299

¹ Includes sweet rice production.

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

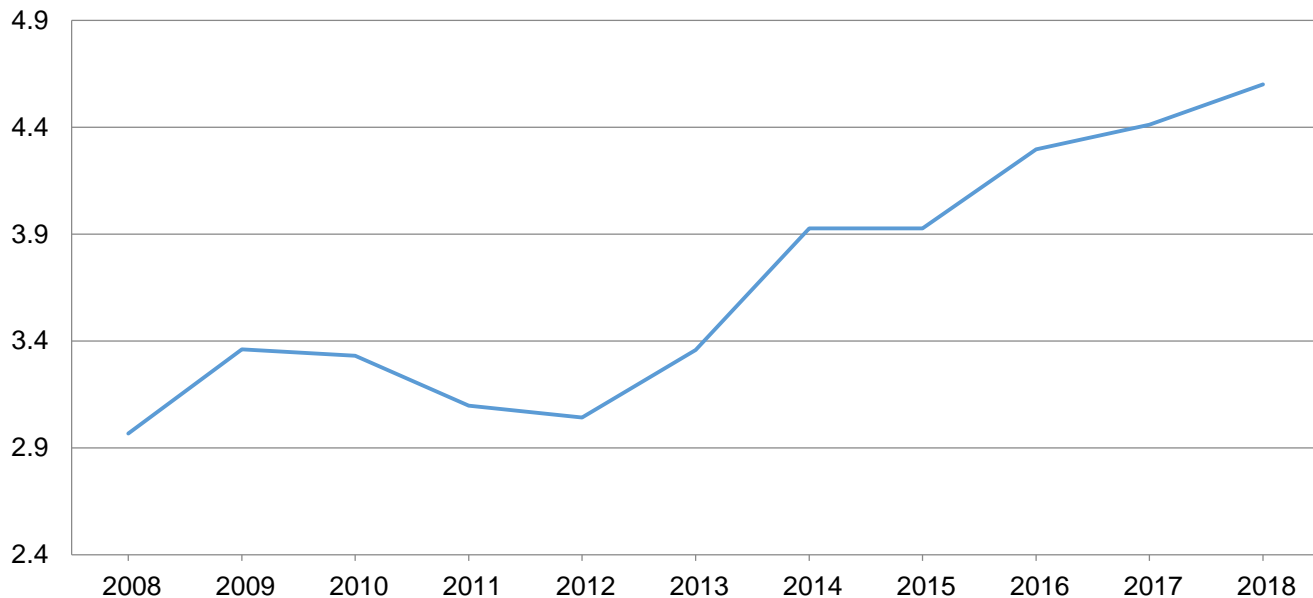
Year	Long grain	Medium grain	Short grain ¹	All
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
2017	127,850	47,867	2,511	178,228
2018 ²	158,604	56,908	2,787	218,299

¹ Sweet rice production included with short grain.

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

Soybean Production – United States

Billion bushels



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

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	345	335	46.0	46.0	44.0	15,870	14,740
Arkansas	3,500	3,250	51.0	48.0	50.0	178,500	162,500
Delaware	158	168	51.0	45.0	42.0	8,058	7,056
Georgia	150	130	42.0	36.0	33.0	6,300	4,290
Illinois	10,550	10,750	58.0	66.0	64.0	611,900	688,000
Indiana	5,940	5,930	54.0	60.0	60.0	320,760	355,800
Iowa	9,940	9,940	57.0	61.0	58.0	566,580	576,520
Kansas	5,110	4,710	37.5	42.0	42.0	191,625	197,820
Kentucky	1,940	1,990	53.0	57.0	54.0	102,820	107,460
Louisiana	1,250	1,310	54.0	50.0	50.0	67,500	65,500
Maryland	495	515	51.0	49.0	49.0	25,245	25,235
Michigan	2,270	2,290	42.5	49.0	48.0	96,475	109,920
Minnesota	8,090	7,710	47.5	50.0	50.0	384,275	385,500
Mississippi	2,170	2,200	53.0	53.0	53.0	115,010	116,600
Missouri	5,910	5,780	49.5	48.0	46.0	292,545	265,880
Nebraska	5,670	5,650	57.5	62.0	61.0	326,025	344,650
New Jersey	99	103	45.0	41.0	41.0	4,455	4,223
New York	265	324	45.0	49.0	53.0	11,925	17,172
North Carolina	1,690	1,570	40.0	36.0	35.0	67,600	54,950
North Dakota	7,050	6,850	34.5	36.0	36.0	243,225	246,600
Ohio	5,090	4,990	49.5	60.0	59.0	251,955	294,410
Oklahoma	640	620	29.0	31.0	31.0	18,560	19,220
Pennsylvania	585	595	48.0	51.0	49.0	28,080	29,155
South Carolina	390	375	38.0	32.0	30.0	14,820	11,250
South Dakota	5,610	5,610	43.0	50.0	49.0	241,230	274,890
Tennessee	1,660	1,670	50.0	50.0	48.0	83,000	80,160
Texas	185	155	37.0	32.0	30.0	6,845	4,650
Virginia	590	590	44.0	43.0	44.0	25,960	25,960
Wisconsin	2,140	2,190	47.5	50.0	49.0	101,650	107,310
Other States ¹	40	43	47.0	49.0	49.0	1,880	2,109
United States	89,522	88,343	49.3	53.1	52.1	4,410,673	4,599,530

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

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

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	193.0	155.0	3,650	4,100	4,100	704,450	635,500
Florida	185.0	130.0	3,450	4,200	3,900	638,250	507,000
Georgia	825.0	640.0	4,330	4,500	4,400	3,572,250	2,816,000
Mississippi	43.0	24.0	4,000	4,000	4,000	172,000	96,000
North Carolina	117.0	99.0	4,100	3,800	3,900	479,700	386,100
Oklahoma	21.0	15.0	3,780	3,100	3,100	79,380	46,500
South Carolina	118.0	82.0	4,000	3,600	3,500	472,000	287,000
Texas	210.0	145.0	3,320	3,300	3,100	697,200	449,500
Virginia	27.0	24.0	4,440	4,100	4,100	119,880	98,400
Other States ¹	36.6	31.5	4,926	4,738	4,738	180,300	149,250
United States	1,775.6	1,345.5	4,007	4,167	4,066	7,115,410	5,471,250

¹ Other States include Arkansas and New Mexico.

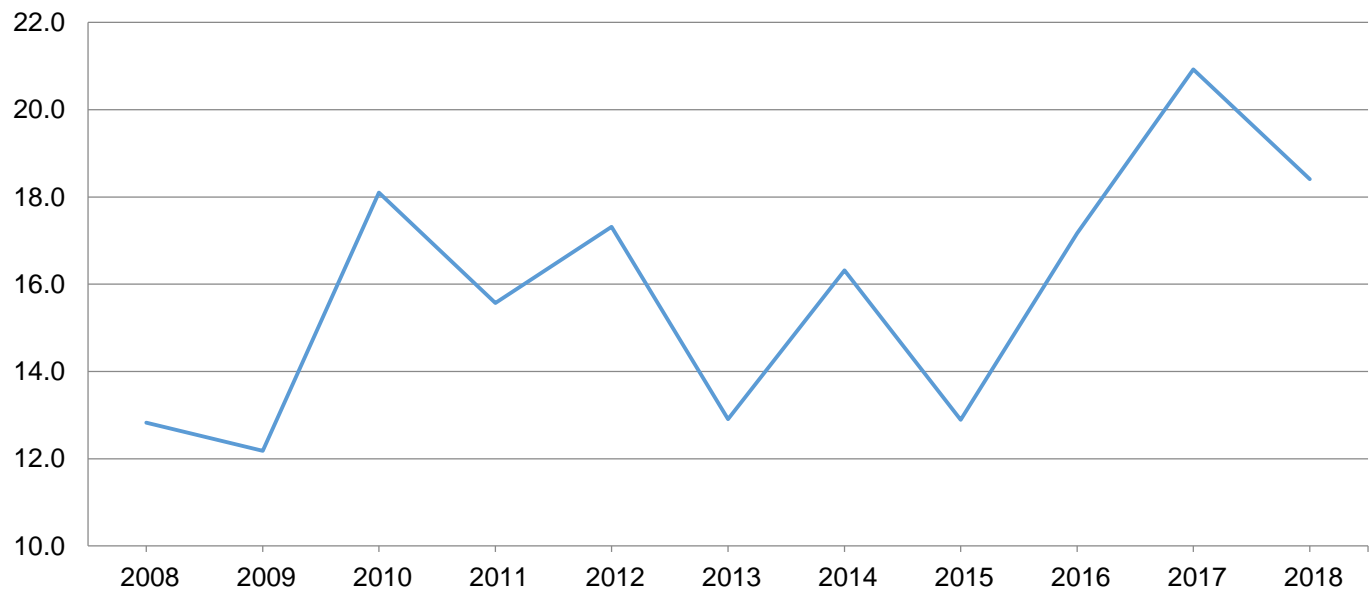
Cottonseed Production – United States: 2017 and Forecasted November 1, 2018

State	Production	
	2017	2018 ¹
	(1,000 tons)	(1,000 tons)
United States	6,422.0	5,799.0

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

Cotton Production - United States

Million bales



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

Type and State	Area harvested		Yield per acre			Production ¹	
	2017	2018	2017	2018		2017	2018
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	(1,000 bales) ²	(1,000 bales) ²
Upland							
Alabama	430.0	470.0	902	1,065	899	808.0	880.0
Arizona	159.0	149.0	1,464	1,546	1,450	485.0	450.0
Arkansas	438.0	480.0	1,177	1,150	1,150	1,074.0	1,150.0
California	87.0	49.0	1,297	1,685	2,057	235.0	210.0
Florida	98.0	80.0	759	910	750	155.0	125.0
Georgia	1,270.0	1,350.0	841	980	693	2,225.0	1,950.0
Kansas	90.0	159.0	1,051	1,011	1,032	197.0	342.0
Louisiana	217.0	190.0	894	1,061	1,061	404.0	420.0
Mississippi	625.0	615.0	1,038	1,140	1,140	1,351.0	1,460.0
Missouri	297.0	320.0	1,212	1,245	1,245	750.0	830.0
New Mexico	46.0	65.0	1,179	1,108	1,034	113.0	140.0
North Carolina	367.0	400.0	969	804	828	741.0	690.0
Oklahoma	555.0	570.0	882	783	716	1,020.0	850.0
South Carolina	248.0	280.0	912	803	806	471.0	470.0
Tennessee	340.0	355.0	1,033	1,034	1,048	732.0	775.0
Texas	5,500.0	4,500.0	809	715	715	9,270.0	6,700.0
Virginia	83.0	97.0	1,110	1,014	965	192.0	195.0
United States	10,850.0	10,129.0	895	887	836	20,223.0	17,637.0
American Pima							
Arizona	15.0	13.5	966	889	889	30.2	25.0
California	215.0	209.0	1,407	1,610	1,610	630.0	701.0
New Mexico	7.4	6.9	863	904	904	13.3	13.0
Texas	13.0	16.0	960	960	960	26.0	32.0
United States	250.4	245.4	1,341	1,508	1,508	699.5	771.0
All							
Alabama	430.0	470.0	902	1,065	899	808.0	880.0
Arizona	174.0	162.5	1,421	1,492	1,403	515.2	475.0
Arkansas	438.0	480.0	1,177	1,150	1,150	1,074.0	1,150.0
California	302.0	258.0	1,375	1,624	1,695	865.0	911.0
Florida	98.0	80.0	759	910	750	155.0	125.0
Georgia	1,270.0	1,350.0	841	980	693	2,225.0	1,950.0
Kansas	90.0	159.0	1,051	1,011	1,032	197.0	342.0
Louisiana	217.0	190.0	894	1,061	1,061	404.0	420.0
Mississippi	625.0	615.0	1,038	1,140	1,140	1,351.0	1,460.0
Missouri	297.0	320.0	1,212	1,245	1,245	750.0	830.0
New Mexico	53.4	71.9	1,135	1,088	1,021	126.3	153.0
North Carolina	367.0	400.0	969	804	828	741.0	690.0
Oklahoma	555.0	570.0	882	783	716	1,020.0	850.0
South Carolina	248.0	280.0	912	803	806	471.0	470.0
Tennessee	340.0	355.0	1,033	1,034	1,048	732.0	775.0
Texas	5,513.0	4,516.0	809	716	716	9,296.0	6,732.0
Virginia	83.0	97.0	1,110	1,014	965	192.0	195.0
United States	11,100.4	10,374.4	905	901	852	20,922.5	18,408.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

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

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

State	Area harvested		Yield per acre			Production	
	2017	2018	2017	2018		2017	2018
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
California ¹	24.7	24.2	43.5	44.3	44.3	1,074	1,072
Colorado	29.0	25.7	35.7	34.7	32.4	1,035	833
Idaho	166.0	161.9	39.2	40.8	40.7	6,507	6,589
Michigan	143.0	148.0	25.2	31.0	30.1	3,604	4,455
Minnesota	409.0	400.0	30.6	28.2	25.8	12,515	10,320
Montana	42.7	42.5	32.7	33.2	31.1	1,396	1,322
Nebraska	45.2	44.2	31.8	33.4	31.8	1,437	1,406
North Dakota	212.0	210.0	30.4	30.6	29.0	6,445	6,090
Oregon	9.1	9.6	36.7	38.7	38.5	334	370
Washington	1.8	1.8	48.2	49.3	49.2	87	89
Wyoming	31.6	30.9	28.2	32.3	31.0	891	958
United States	1,114.1	1,098.8	31.7	32.0	30.5	35,325	33,504

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

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

State	Area harvested		Yield per acre ¹			Production ¹	
	2017	2018	2017	2018		2017	2018
				October 1	November 1		
	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)
Florida	412.7	412.0	41.1	41.0	40.8	16,942	16,810
Louisiana	449.6	468.0	32.8	31.3	33.0	14,744	15,444
Texas	41.8	40.0	37.1	35.4	34.8	1,552	1,392
United States	904.1	920.0	36.8	35.8	36.6	33,238	33,646

¹ Net tons.

Utilized Production of Citrus Fruits by Crop – States and United States: 2017-2018 and Forecasted November 1, 2018

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

Crop and State	Utilized production boxes ¹		Utilized production ton equivalent	
	2017-2018	2018-2019	2017-2018	2018-2019
	(1,000 boxes)	(1,000 boxes)	(1,000 tons)	(1,000 tons)
Oranges				
California, all ²	45,400	49,000	1,816	1,960
Early, mid, and Navel ³	35,900	40,000	1,436	1,600
Valencia	9,500	9,000	380	360
Florida, all	44,950	77,000	2,023	3,465
Early, mid, and Navel ³	18,950	32,000	853	1,440
Valencia	26,000	45,000	1,170	2,025
Texas, all ²	1,880	2,400	80	103
Early, mid, and Navel ³	1,530	1,800	65	77
Valencia	350	600	15	26
United States, all	92,230	128,400	3,919	5,528
Early, mid, and Navel ³	56,380	73,800	2,354	3,117
Valencia	35,850	54,600	1,565	2,411
Grapefruit				
California ²	4,000	3,900	160	156
Florida, all	3,880	6,400	165	272
Red	3,180	5,300	135	225
White	700	1,100	30	47
Texas ²	4,800	6,200	192	248
United States	12,680	16,500	517	676
Tangerines and mandarins ⁴				
California ²	19,200	23,000	768	920
Florida	750	1,200	36	57
United States	19,950	24,200	804	977
Lemons ²				
Arizona	1,000	1,400	40	56
California	21,200	20,000	848	800
United States	22,200	21,400	888	856

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

² Estimates for current year carried forward from an earlier forecast.

³ Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas.

⁴ Includes tangelos and tangors.

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

Seasonal group and State	Area planted		Area harvested		Yield per acre		Production	
	2017	2018	2017	2018	2017	2018	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)
Fall								
Alaska ¹	(X)	0.4	(X)	0.4	(X)	270	(X)	108
California	8.2	7.5	8.2	7.5	405	430	3,321	3,225
Colorado	55.9	55.3	55.6	55.3	382	391	21,220	21,623
San Luis Valley	51.7	51.8	51.5	51.8	375	385	19,313	19,943
All other areas	4.2	3.5	4.1	3.5	465	480	1,907	1,680
Idaho	310.0	315.0	310.0	315.0	435	440	134,850	138,600
Maine	48.0	50.0	47.5	49.5	320	320	15,200	15,840
Michigan	47.0	48.0	46.5	47.0	370	370	17,205	17,390
Minnesota	46.0	44.0	45.5	43.0	405	420	18,428	18,060
Montana	11.1	11.0	11.1	11.0	340	345	3,774	3,795
Nebraska	19.0	19.5	19.0	19.3	475	490	9,025	9,457
New York	14.5	14.5	14.4	14.2	280	280	4,032	3,976
North Dakota	75.0	74.5	74.0	73.0	330	325	24,420	23,725
Oregon	39.0	46.0	38.9	45.9	550	620	21,395	28,458
Washington	165.0	165.0	164.0	165.0	605	645	99,220	106,425
Wisconsin	68.0	69.0	67.0	67.0	425	400	28,475	26,800
United States ²	906.7	919.7	901.7	913.1	444	457	400,565	417,482
All								
United States ²	1,033.0	1,028.7	1,024.9	1,018.4	431	444	442,034	452,619

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

(X) Not applicable.

¹ Previously included in the Alaska table.

² Beginning in 2018, United States total includes data for Alaska.

Potato Area Planted and Harvested, Yield, and Production – Alaska: 2017-2018

Crop year	Area		Yield per acre	Production
	Planted	Harvested		
	(acres)	(acres)	(cwt)	(1,000 cwt)
2017	450	430	270	116
2018 ¹	400	400	270	108

¹ Beginning in 2018, estimates for Alaska are included in the United States totals and therefore subject to the publication rules of the respective crop table.

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

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

Crop	Area planted		Area harvested	
	2017	2018	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Grains and hay				
Barley	2,481	2,543	1,954	1,978
Corn for grain ¹	90,167	89,140	82,703	81,767
Corn for silage	(NA)		6,434	
Hay, all	(NA)	(NA)	53,784	55,068
Alfalfa	(NA)	(NA)	16,563	17,351
All other	(NA)	(NA)	37,221	37,717
Oats	2,588	2,746	801	865
Proso millet	478	490	404	
Rice	2,463	2,943	2,374	2,902
Rye	1,961	2,011	286	273
Sorghum for grain ¹	5,626	5,792	5,045	5,093
Sorghum for silage	(NA)		284	
Wheat, all	46,022	47,800	37,541	39,605
Winter	32,696	32,535	25,291	24,742
Durum	2,307	2,065	2,106	1,967
Other spring	11,019	13,200	10,144	12,896
Oilseeds				
Canola	2,077.0	1,990.5	2,002.0	1,941.1
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	303	168	272	160
Mustard seed	103.0	91.5	95.4	85.7
Peanuts	1,871.6	1,426.5	1,775.6	1,345.5
Rapeseed	10.1	5.4	9.7	5.1
Safflower	162.0	190.0	143.2	181.0
Soybeans for beans	90,142	89,145	89,522	88,343
Sunflower	1,403.0	1,302.0	1,333.8	1,240.0
Cotton, tobacco, and sugar crops				
Cotton, all	12,612.5	14,042.0	11,100.4	10,374.4
Upland	12,360.0	13,794.0	10,850.0	10,129.0
American Pima	252.5	248.0	250.4	245.4
Sugarbeets	1,131.2	1,122.0	1,114.1	1,098.8
Sugarcane	(NA)	(NA)	904.1	920.0
Tobacco	(NA)	(NA)	321.5	302.0
Dry beans, peas, and lentils				
Austrian winter peas	26.5	16.5	9.4	11.9
Dry edible beans	2,092.0	2,078.0	2,012.7	2,009.0
Chickpeas, all	618.8	819.7	599.3	651.3
Large	439.3	608.5	424.5	449.2
Small	179.5	211.2	174.8	202.1
Dry edible peas	1,128.0	865.0	1,050.5	824.5
Lentils	1,104.0	785.0	1,022.0	758.0
Wrinkled seed peas	(NA)		(NA)	
Potatoes and miscellaneous				
Hops	(NA)	(NA)	53.3	55.3
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		60.4	
Potatoes, all	1,033.0	1,028.7	1,024.9	1,018.4
Spring	58.0	47.0	57.7	45.8
Summer	68.3	62.0	65.5	59.5
Fall	906.7	919.7	901.7	913.1
Spearmint oil	(NA)		22.3	
Sweet potatoes	161.6	159.5	159.3	157.2
Taro (Hawaii)	(NA)		0.4	

See footnote(s) at end of table.

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

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

Crop	Yield per acre		Production		
	2017	2018	2017 (1,000)	2018 (1,000)	
Grains and hay					
Barley	bushels	72.6	77.4	141,923	153,082
Corn for grain	bushels	176.6	178.9	14,604,067	14,625,974
Corn for silage	tons	19.9		128,356	
Hay, all	tons	2.44	2.44	131,455	134,384
Alfalfa	tons	3.32	3.43	55,068	59,527
All other	tons	2.05	1.98	76,387	74,857
Oats	bushels	61.7	64.9	49,391	56,130
Proso millet	bushels	36.1		14,567	
Rice ²	cwt	7,507	7,522	178,228	218,299
Rye	bushels	33.9	30.9	9,696	8,432
Sorghum for grain	bushels	72.1	71.4	363,832	363,668
Sorghum for silage	tons	13.3		3,772	
Wheat, all	bushels	46.3	47.6	1,739,645	1,884,458
Winter	bushels	50.2	47.9	1,269,437	1,183,939
Durum	bushels	26.0	39.3	54,777	77,287
Other spring	bushels	41.0	48.3	415,431	623,232
Oilseeds					
Canola	pounds	1,558	1,864	3,118,680	3,619,020
Cottonseed	tons	(X)	(X)	6,422.0	5,799.0
Flaxseed	bushels	14.1		3,842	
Mustard seed	pounds	632		60,250	
Peanuts	pounds	4,007	4,066	7,115,410	5,471,250
Rapeseed	pounds	2,139		20,750	
Safflower	pounds	1,256		179,896	
Soybeans for beans	bushels	49.3	52.1	4,410,673	4,599,530
Sunflower	pounds	1,616	1,560	2,155,262	1,934,980
Cotton, tobacco, and sugar crops					
Cotton, all ²	bales	905	852	20,922.5	18,408.0
Upland ²	bales	895	836	20,223.0	17,637.0
American Pima ²	bales	1,341	1,508	699.5	771.0
Sugarbeets	tons	31.7	30.5	35,325	33,504
Sugarcane	tons	36.8	36.6	33,238	33,646
Tobacco	pounds	2,209	1,814	710,161	547,812
Dry beans, peas, and lentils					
Austrian winter peas ²	cwt	1,330	1,227	125	146
Dry edible beans ²	cwt	1,781	1,884	35,845	37,848
Chickpeas, all ²	cwt	1,152		6,905	
Large ²	cwt	1,165		4,945	
Small ²	cwt	1,121		1,960	
Dry edible peas ²	cwt	1,350	1,683	14,177	13,874
Lentils ²	cwt	732	1,159	7,482	8,787
Wrinkled seed peas	cwt	(NA)		357	
Potatoes and miscellaneous					
Hops	pounds	1,959	1,910	104,366.0	105,683.6
Maple syrup	gallons	(NA)	(NA)	4,271	4,159
Mushrooms	pounds	(NA)	(NA)	933,355	917,235
Peppermint oil	pounds	96		5,778	
Potatoes, all	cwt	431	444	442,034	452,619
Spring	cwt	343	336	19,790	15,387
Summer	cwt	331	332	21,679	19,750
Fall	cwt	444	457	400,565	417,482
Spearmint oil	pounds	125		2,796	
Sweet potatoes	cwt	224		35,646	
Taro (Hawaii)	pounds	10,530		3,686	

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Yield in pounds.

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

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

Crop	Area planted		Area harvested	
	2017	2018	2017	2018
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,004,040	1,029,130	790,760	800,480
Corn for grain ¹	36,489,680	36,074,070	33,469,080	33,090,290
Corn for silage	(NA)		2,603,780	
Hay, all ²	(NA)	(NA)	21,765,850	22,285,470
Alfalfa	(NA)	(NA)	6,702,880	7,021,780
All other	(NA)	(NA)	15,062,970	15,263,690
Oats	1,047,340	1,111,280	324,160	350,060
Proso millet	193,440	198,300	163,490	
Rice	996,750	1,191,000	960,730	1,174,410
Rye	793,600	813,830	115,740	110,480
Sorghum for grain ¹	2,276,790	2,343,960	2,041,660	2,061,090
Sorghum for silage	(NA)		114,930	
Wheat, all ²	18,624,640	19,344,180	15,192,470	16,027,750
Winter	13,231,740	13,166,590	10,235,010	10,012,840
Durum	933,620	835,680	852,280	796,030
Other spring	4,459,280	5,341,910	4,105,180	5,218,880
Oilseeds				
Canola	840,540	805,540	810,190	785,540
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	122,620	67,990	110,080	64,750
Mustard seed	41,680	37,030	38,610	34,680
Peanuts	757,420	577,290	718,570	544,510
Rapeseed	4,090	2,190	3,930	2,060
Safflower	65,560	76,890	57,950	73,250
Soybeans for beans	36,479,570	36,076,090	36,228,660	35,751,530
Sunflower	567,780	526,910	539,780	501,820
Cotton, tobacco, and sugar crops				
Cotton, all ²	5,104,150	5,682,660	4,492,220	4,198,420
Upland	5,001,970	5,582,290	4,390,890	4,099,110
American Pima	102,180	100,360	101,330	99,310
Sugarbeets	457,790	454,060	450,870	444,670
Sugarcane	(NA)	(NA)	365,880	372,310
Tobacco	(NA)	(NA)	130,100	122,210
Dry beans, peas, and lentils				
Austrian winter peas	10,720	6,680	3,800	4,820
Dry edible beans	846,610	840,950	814,520	813,020
Chickpeas ²	250,420	331,720	242,530	263,570
Large	177,780	246,250	171,790	181,790
Small	72,640	85,470	70,740	81,790
Dry edible peas	456,490	350,060	425,130	333,670
Lentils	446,780	317,680	413,590	306,760
Wrinkled seed peas	(NA)		(NA)	
Potatoes and miscellaneous				
Hops	(NA)	(NA)	21,560	22,400
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)		24,440	
Potatoes, all ²	418,040	416,300	414,770	412,140
Spring	23,470	19,020	23,350	18,530
Summer	27,640	25,090	26,510	24,080
Fall	366,930	372,190	364,910	369,520
Spearmint oil	(NA)		9,020	
Sweet potatoes	65,400	64,550	64,470	63,620
Taro (Hawaii)	(NA)		140	

See footnote(s) at end of table.

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

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

Crop	Yield per hectare		Production	
	2017	2018	2017	2018
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	3.91	4.16	3,090,010	3,332,970
Corn for grain	11.08	11.23	370,960,390	371,516,850
Corn for silage	44.72		116,442,600	
Hay, all ²	5.48	5.47	119,253,970	121,911,110
Alfalfa	7.45	7.69	49,956,850	54,001,990
All other	4.60	4.45	69,297,120	67,909,130
Oats	2.21	2.33	716,910	814,720
Proso millet	2.02		330,370	
Rice	8.41	8.43	8,084,290	9,901,880
Rye	2.13	1.94	246,290	214,180
Sorghum for grain	4.53	4.48	9,241,760	9,237,590
Sorghum for silage	29.77		3,421,900	
Wheat, all ²	3.12	3.20	47,345,380	51,286,540
Winter	3.38	3.22	34,548,410	32,221,540
Durum	1.75	2.64	1,490,790	2,103,410
Other spring	2.75	3.25	11,306,180	16,961,600
Oilseeds				
Canola	1.75	2.09	1,414,610	1,641,560
Cottonseed	(X)	(X)	5,825,940	5,260,760
Flaxseed	0.89		97,590	
Mustard seed	0.71		27,330	
Peanuts	4.49	4.56	3,227,500	2,481,720
Rapeseed	2.40		9,410	
Safflower	1.41		81,600	
Soybeans for beans	3.31	3.50	120,038,850	125,178,690
Sunflower	1.81	1.75	977,610	877,690
Cotton, tobacco, and sugar crops				
Cotton, all ²	1.01	0.95	4,555,340	4,007,870
Upland	1.00	0.94	4,403,040	3,840,000
American Pima	1.50	1.69	152,300	167,870
Sugarbeets	71.08	68.35	32,046,300	30,394,320
Sugarcane	82.41	81.98	30,153,010	30,523,140
Tobacco	2.48	2.03	322,120	248,480
Dry beans, peas, and lentils				
Austrian winter peas	1.49	1.38	5,670	6,620
Dry edible beans	2.00	2.11	1,625,900	1,716,760
Chickpeas, all ²	1.29		313,210	
Large	1.31		224,300	
Small	1.26		88,900	
Dry edible peas	1.51	1.89	643,060	629,310
Lentils	0.82	1.30	339,380	398,570
Wrinkled seed peas	(NA)		16,190	
Potatoes and miscellaneous				
Hops	2.20	2.14	47,340	47,940
Maple syrup	(NA)	(NA)	21,360	20,800
Mushrooms	(NA)	(NA)	423,360	416,050
Peppermint oil	0.11		2,620	
Potatoes, all ²	48.34	49.81	20,050,330	20,530,450
Spring	38.44	37.66	897,660	697,940
Summer	37.10	37.20	983,340	895,840
Fall	49.79	51.25	18,169,320	18,936,670
Spearmint oil	0.14		1,270	
Sweet potatoes	25.08		1,616,880	
Taro (Hawaii)	11.80		1,670	

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Total may not add due to rounding.

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

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

Crop	Production	
	2018	2019
Citrus ¹		
Grapefruit 1,000 tons	517	676
Lemons 1,000 tons	888	856
Oranges 1,000 tons	3,919	5,528
Tangerines and mandarins 1,000 tons	804	977
Noncitrus		
Apples, commercial million pounds	11,452.2	
Apricots tons	39,800	
Avocados tons		
Bananas (Hawaii) 1,000 pounds		
Blackberries (Oregon) 1,000 pounds		
Blueberries, Cultivated 1,000 pounds		
Blueberries, Wild (Maine) 1,000 pounds		
Boysenberries (Oregon) 1,000 pounds		
Cherries, Sweet tons	319,900	
Cherries, Tart million pounds	352.7	
Coffee (Hawaii) 1,000 pounds		
Cranberries barrel	8,634,000	
Dates tons		
Figs (California) tons		
Grapes tons	7,659,000	
Kiwifruit (California) tons		
Nectarines tons		
Olives (California) tons		
Papayas (Hawaii) 1,000 pounds		
Peaches tons	732,050	
Pears tons	739,200	
Plums (California) tons		
Prunes (California) tons	80,000	
Raspberries, all 1,000 pounds		
Strawberries 1,000 cwt	31,764.9	
Nuts and miscellaneous		
Almonds, shelled (California) 1,000 pounds	2,450,000	
Hazelnuts, in-shell (Oregon) tons	52,000	
Macadamias (Hawaii) 1,000 pounds		
Pecans, in-shell 1,000 pounds	278,900	
Pistachios (California) 1,000 pounds		
Walnuts, in-shell (California) tons	690,000	

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

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

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

Crop	Production	
	2018 (metric tons)	2019 (metric tons)
Citrus¹		
Grapefruit	469,010	613,260
Lemons	805,580	776,550
Oranges	3,555,260	5,014,920
Tangerines and mandarins	729,380	886,320
Noncitrus		
Apples, commercial	5,194,630	
Apricots	36,110	
Avocados		
Bananas (Hawaii)		
Blackberries (Oregon)		
Blueberries, Cultivated		
Blueberries, Wild (Maine)		
Boysenberries (Oregon)		
Cherries, Sweet	290,210	
Cherries, Tart	159,980	
Coffee (Hawaii)		
Cranberries	391,630	
Dates		
Figs (California)		
Grapes	6,948,130	
Kiwifruit (California)		
Nectarines		
Olives (California)		
Papayas (Hawaii)		
Peaches	664,100	
Pears	670,590	
Plums (California)		
Prunes (California)	72,570	
Raspberries, all		
Strawberries	1,440,830	
Nuts and miscellaneous		
Almonds, shelled (California)	1,111,300	
Hazelnuts, in-shell (Oregon)	47,170	
Macadamias (Hawaii)		
Pecans, in-shell	126,510	
Pistachios (California)		
Walnuts, in-shell (California)	625,960	

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

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 10 corn-producing States during 2018. Randomly selected plots in corn for grain fields are visited monthly from August through harvest to obtain specific counts and measurements. Data in these tables are rounded actual field counts from this survey.

Corn for Grain Plant Population per Acre – Selected States: 2014-2018

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

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

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

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

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

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

Year	October		November	
	Dent stage ¹	Mature ²	Dent stage ¹	Mature ²
	(percent)	(percent)	(percent)	(percent)
2014	39	53	(Z)	96
2015	16	70	(Z)	96
2016	17	73	(Z)	96
2017	41	51	(Z)	96
2018	13	80	(Z)	96

(Z) Less than half of the unit shown.

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

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

Corn for Grain Percentage Distribution by Plant Population Per Acre – Selected States: 2014-2018

State and year	Plant populations					
	Less than 20,000	20,000- 22,500	22,501- 25,000	25,001- 27,500	27,501- 30,000	More than 30,000
	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
Illinois2014	1.3	1.8	2.7	10.7	20.1	63.4
.....2015	-	1.3	1.8	7.9	17.2	71.8
.....2016	0.9	0.5	4.3	11.8	18.0	64.5
.....2017	0.5	1.4	3.8	11.5	20.6	62.2
.....2018	-	0.9	1.4	6.6	15.6	75.5
Indiana2014	3.0	0.7	4.5	11.2	24.6	56.0
.....2015	4.6	1.5	4.6	11.5	20.8	57.0
.....2016	1.7	1.7	8.3	11.6	19.8	56.9
.....2017	5.7	4.9	6.5	13.0	21.1	48.8
.....2018	1.5	0.8	2.3	10.7	27.5	57.2
Iowa2014	0.8	2.8	1.2	8.3	20.5	66.4
.....2015	0.4	0.8	2.4	4.9	15.5	76.0
.....2016	0.4	1.8	2.2	8.9	22.7	64.0
.....2017	1.3	3.4	2.1	5.9	13.5	73.8
.....2018	0.4	1.7	3.4	6.3	18.9	69.3
Kansas2014	29.3	6.9	23.3	8.6	19.0	12.9
.....2015	20.2	18.2	11.1	27.2	6.1	17.2
.....2016	27.9	14.8	19.4	12.0	17.6	8.3
.....2017	24.3	21.2	17.2	21.2	12.1	4.0
.....2018	33.0	12.4	12.4	14.4	7.2	20.6
Minnesota2014	0.7	2.1	5.7	8.5	18.4	64.6
.....2015	-	1.6	3.1	11.0	22.8	61.5
.....2016	0.8	3.0	4.5	11.4	21.2	59.1
.....2017	2.8	4.7	5.6	7.5	12.1	67.3
.....2018	-	1.7	8.7	6.1	13.9	69.6
Missouri2014	4.7	9.3	11.2	17.8	30.8	26.2
.....2015	6.6	3.3	15.4	28.5	25.3	20.9
.....2016	3.0	6.0	14.0	28.0	23.0	26.0
.....2017	1.9	1.0	15.5	26.2	26.2	29.2
.....2018	2.2	6.5	8.6	20.4	28.0	34.3
Nebraska2014	13.4	8.4	15.6	18.4	17.9	26.3
.....2015	8.4	7.8	15.6	16.8	21.2	30.2
.....2016	9.6	10.1	16.3	20.2	19.7	24.1
.....2017	16.8	6.3	12.6	19.4	17.8	27.1
.....2018	12.0	4.9	7.1	16.4	25.1	34.5
Ohio2014	5.5	1.8	5.5	8.3	35.8	43.1
.....2015	4.4	1.8	2.7	8.0	21.2	61.9
.....2016	1.9	2.9	1.0	9.6	26.9	57.7
.....2017	2.7	4.4	7.1	15.0	25.7	45.1
.....2018	1.0	3.9	3.9	7.8	23.5	59.9
South Dakota2014	19.7	14.5	10.5	29.0	18.4	7.9
.....2015	12.1	5.5	17.6	20.9	26.3	17.6
.....2016	13.2	5.3	17.1	26.3	18.4	19.7
.....2017	8.1	13.5	16.2	16.2	25.7	20.3
.....2018	7.2	12.4	11.3	18.6	22.7	27.8
Wisconsin2014	2.1	4.2	4.2	9.4	27.1	53.0
.....2015	2.4	2.4	7.3	14.6	23.2	50.1
.....2016	2.4	4.9	3.7	11.0	18.3	59.7
.....2017	4.0	2.7	6.7	20.0	21.3	45.3
.....2018	2.0	2.0	-	7.9	19.8	68.3

- Represents zero.

Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2014-2018

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois 2014	8	220	2	1	-
..... 2015	11	222	1	1	-
..... 2016	6	218	-	1	-
..... 2017	6	210	4	1	-
..... 2018	9	211	-	-	-
Indiana 2014	10	128	4	2	-
..... 2015	8	124	3	1	-
..... 2016	8	118	1	1	1
..... 2017	7	117	-	-	-
..... 2018	9	126	1	1	-
Iowa 2014	15	234	3	3	1
..... 2015	7	241	3	1	-
..... 2016	12	213	4	4	-
..... 2017	2	236	3	3	-
..... 2018	12	234	2	1	-
Kansas 2014	9	111	1	-	-
..... 2015	2	105	3	-	-
..... 2016	8	105	-	-	-
..... 2017	2	106	2	-	-
..... 2018	10	91	-	-	-
Minnesota 2014	26	105	4	3	1
..... 2015	29	118	1	-	-
..... 2016	27	113	2	-	-
..... 2017	27	89	2	-	-
..... 2018	21	97	3	2	-
Missouri 2014	3	105	2	4	-
..... 2015	2	101	2	1	-
..... 2016	5	96	1	2	-
..... 2017	3	101	5	2	-
..... 2018	5	90	1	2	1
Nebraska 2014	7	142	38	1	-
..... 2015	5	166	18	-	-
..... 2016	-	162	23	-	-
..... 2017	2	169	23	2	-
..... 2018	6	160	25	-	-
Ohio 2014	2	107	1	2	-
..... 2015	2	110	4	1	2
..... 2016	4	105	-	1	-
..... 2017	2	109	1	1	-
..... 2018	3	100	-	-	-
South Dakota 2014	5	81	2	3	1
..... 2015	13	78	1	2	-
..... 2016	5	71	4	1	2
..... 2017	6	75	1	1	-
..... 2018	8	92	2	2	-
Wisconsin 2014	8	91	2	2	-
..... 2015	4	91	3	1	1
..... 2016	2	84	2	2	-
..... 2017	4	83	5	1	-
..... 2018	4	108	4	2	-

- Represents zero.

Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2014-2018

State and year	Samples (number)	Row width (inches)						Average row width (inches)	
		20.5 or less (percent)	20.6- 30.5 (percent)	30.6- 34.5 (percent)	34.6- 36.5 (percent)	36.6- 38.5 (percent)	38.6 or greater (percent)		
Illinois	2014	224	2.2	79.0	17.0	-	1.8	-	30.0
	2015	227	4.0	78.9	16.7	-	0.4	-	29.7
	2016	211	2.4	87.6	9.5	-	-	0.5	29.8
	2017	209	1.4	85.1	12.0	0.5	0.5	0.5	30.1
	2018	212	1.9	87.7	10.4	-	-	-	29.9
Indiana	2014	134	5.2	79.9	11.9	1.5	1.5	-	29.7
	2015	130	4.6	77.7	13.1	1.5	2.3	0.8	29.8
	2016	121	3.3	72.7	22.3	1.7	-	-	29.8
	2017	123	2.4	78.9	17.9	0.8	-	-	29.8
	2018	131	6.1	71.7	19.8	0.8	0.8	0.8	29.8
Iowa	2014	254	5.1	72.0	18.9	1.6	2.0	0.4	30.0
	2015	245	2.4	76.8	19.2	1.6	-	-	30.0
	2016	225	2.2	76.9	19.1	0.9	0.9	-	30.0
	2017	237	0.8	76.4	19.0	0.4	3.0	0.4	30.4
	2018	238	3.8	77.4	17.2	0.8	0.8	-	29.9
Kansas	2014	116	4.3	75.0	19.0	1.7	-	-	29.8
	2015	99	2.0	74.8	20.2	2.0	1.0	-	30.2
	2016	108	4.6	85.2	10.2	-	-	-	29.6
	2017	99	2.0	75.8	21.2	-	-	1.0	30.1
	2018	97	3.1	76.3	20.6	-	-	-	29.7
Minnesota	2014	141	2.8	78.8	13.5	2.8	1.4	0.7	29.1
	2015	127	3.1	85.9	10.2	0.8	-	-	28.5
	2016	132	2.3	78.0	17.4	0.8	1.5	-	28.8
	2017	107	4.7	81.4	8.4	0.9	3.7	0.9	28.9
	2018	115	1.7	82.6	11.3	2.6	0.9	0.9	29.3
Missouri	2014	107	0.9	71.0	18.7	4.7	4.7	-	30.6
	2015	91	-	73.6	24.2	-	2.2	-	30.4
	2016	100	1.0	76.0	20.0	1.0	2.0	-	30.0
	2017	103	1.9	66.1	25.2	3.9	1.0	1.9	30.4
	2018	93	1.1	76.2	18.3	2.2	1.1	1.1	30.1
Nebraska	2014	179	1.7	58.0	19.6	17.3	3.4	-	31.2
	2015	179	2.2	71.6	15.1	8.9	2.2	-	30.7
	2016	178	-	65.2	20.2	9.0	4.5	1.1	31.2
	2017	191	-	70.7	15.7	9.4	4.2	-	31.0
	2018	183	1.6	65.6	15.3	12.6	4.9	-	31.2
Ohio	2014	109	0.9	83.5	13.8	-	0.9	0.9	30.2
	2015	113	1.8	74.2	20.4	2.7	-	0.9	30.4
	2016	104	4.8	81.7	10.6	1.9	1.0	-	29.8
	2017	113	0.9	83.2	15.0	0.9	-	-	30.0
	2018	102	2.9	79.5	17.6	-	-	-	29.9
South Dakota	2014	76	2.6	75.1	17.1	1.3	-	3.9	30.4
	2015	91	3.3	72.5	19.8	2.2	2.2	-	29.7
	2016	76	2.6	64.5	26.3	4.0	1.3	1.3	30.4
	2017	73	8.2	61.6	28.8	-	1.4	-	29.6
	2018	97	5.2	70.0	19.6	2.1	2.1	1.0	30.0
Wisconsin	2014	96	6.3	70.7	18.8	-	2.1	2.1	29.8
	2015	82	2.4	63.5	30.5	2.4	-	1.2	30.0
	2016	82	1.2	72.0	22.0	1.2	1.2	2.4	30.5
	2017	75	1.3	61.5	29.3	5.3	1.3	1.3	30.6
	2018	101	-	75.2	21.8	-	3.0	-	30.2

- Represents zero.

Cotton Objective Yield Data

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

Cotton Cumulative Boll Counts – Selected States: 2014-2018

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

State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)
Arkansas					
September	910	763	800	911	891
October	741	769	769	839	910
November	771	856	779	825	892
December	773	856	779	825	
Final	773	856	779	825	
Georgia					
September	660	645	562	593	605
October	660	630	668	608	737
November	717	748	719	680	712
December	718	759	725	684	
Final	719	759	725	684	
Louisiana					
September	745	676	654	648	759
October	876	776	760	667	734
November	877	794	784	665	739
December	877	793	784	665	
Final	877	793	784	665	
Mississippi					
September	843	887	953	904	871
October	808	839	942	810	895
November	861	898	974	804	846
December	861	898	974	797	
Final	861	898	974	797	
North Carolina					
September	604	551	558	637	601
October	629	620	599	705	641
November	765	624	660	769	714
December	764	632	660	769	
Final	764	632	660	769	
Texas					
September	485	566	467	592	570
October	373	442	474	602	576
November	453	481	528	603	553
December	461	492	547	615	
Final	482	495	546	614	
6-State					
September	564	601	532	633	627
October	487	518	554	635	661
November	561	571	604	649	640
December	566	581	618	656	
Final	587	583	618	656	

Soybean Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in 11 soybean-producing States during 2018. Randomly selected plots in soybean fields are visited monthly from August through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

Soybean Pods with Beans per 18 Square Feet – Selected States: 2014-2018

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

State and month	2014	2015	2016	2017	2018	State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						Missouri					
September	1,925	1,729	1,884	1,992	1,841	September	2,050	1,612	1,881	2,041	1,777
October	1,960	1,737	1,805	1,898	1,795	October	1,969	1,755	2,006	2,172	1,899
November	1,999	1,813	1,820	2,039	1,943	November	2,055	1,869	2,123	2,253	1,948
Final	1,999	1,818	1,826	2,075		Final	2,043	1,899	2,164	2,239	
Illinois						Nebraska					
September	1,922	1,980	1,969	1,917	2,132	September	1,634	1,816	1,947	1,653	1,736
October	1,913	2,052	2,109	1,886	2,225	October	1,707	1,863	2,036	1,795	2,071
November	1,964	2,086	2,193	1,947	2,249	November	1,743	1,884	2,074	1,853	2,174
Final	1,968	2,079	2,197	1,947		Final	1,743	1,884	2,074	1,853	
Indiana						North Dakota					
September	1,518	1,641	1,683	1,795	1,880	September	1,281	1,321	1,395	1,406	1,418
October	1,634	1,703	1,775	1,772	2,001	October	1,266	1,330	1,444	1,430	1,485
November	1,661	1,691	1,873	1,774	2,054	November	1,454	1,337	1,442	1,465	1,515
Final	1,660	1,691	1,873	1,774		Final	1,459	1,337	1,470	1,451	
Iowa						Ohio					
September	1,621	1,779	1,808	1,644	1,823	September	1,882	1,621	1,773	1,765	2,019
October	1,690	1,805	1,801	1,670	1,984	October	1,835	1,691	1,715	1,714	2,180
November	1,772	1,834	1,861	1,717	2,082	November	1,796	1,776	1,782	1,828	2,210
Final	1,768	1,834	1,890	1,735		Final	1,796	1,776	1,782	1,823	
Kansas						South Dakota					
September	1,303	1,285	1,467	1,487	1,552	September	1,533	1,541	1,561	1,511	1,649
October	1,384	1,602	1,643	1,472	1,456	October	1,485	1,557	1,639	1,472	1,867
November	1,428	1,715	1,720	1,561	1,548	November	1,498	1,563	1,709	1,457	1,822
Final	1,453	1,715	1,737	1,561		Final	1,501	1,563	1,665	1,457	
Minnesota						11-State					
September	1,414	1,637	1,614	1,359	1,605	September	1,651	1,672	1,741	1,678	1,786
October	1,431	1,644	1,625	1,407	1,616	October	1,667	1,731	1,800	1,692	1,895
November	1,434	1,612	1,658	1,480	1,569	November	1,719	1,763	1,862	1,751	1,938
Final	1,434	1,612	1,658	1,480		Final	1,720	1,764	1,870	1,752	

Soybean Frequency of Farmer Reported Row Widths – Selected States: 2014-2018

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas 2014	10	53	50	27	65
..... 2015	8	41	34	32	77
..... 2016	5	31	46	36	73
..... 2017	9	25	42	39	79
..... 2018	9	36	47	36	83
Illinois 2014	6	15	102	60	-
..... 2015	2	15	111	52	1
..... 2016	1	15	105	57	1
..... 2017	2	10	109	59	2
..... 2018	3	11	118	58	-
Indiana 2014	2	21	110	13	2
..... 2015	2	17	103	15	-
..... 2016	1	27	91	17	2
..... 2017	3	28	101	12	-
..... 2018	1	19	110	14	-
Iowa 2014	1	3	74	104	2
..... 2015	4	4	76	92	4
..... 2016	1	6	73	100	2
..... 2017	1	3	80	94	1
..... 2018	1	11	77	88	3
Kansas 2014	6	18	35	53	-
..... 2015	5	13	38	56	-
..... 2016	6	8	38	57	-
..... 2017	10	14	32	43	2
..... 2018	2	17	35	54	1
Minnesota 2014	6	8	32	36	1
..... 2015	4	7	42	50	1
..... 2016	5	8	40	36	1
..... 2017	1	9	38	42	-
..... 2018	3	8	34	45	2
Missouri 2014	2	14	74	17	6
..... 2015	1	17	50	15	8
..... 2016	-	14	71	19	5
..... 2017	1	10	70	21	4
..... 2018	1	15	65	31	4
Nebraska 2014	-	4	30	58	4
..... 2015	1	4	31	62	8
..... 2016	-	10	36	46	3
..... 2017	1	4	38	51	8
..... 2018	3	7	35	49	8

See footnote(s) at end of table.

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2014-2018 (continued)

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
North Dakota2014	12	17	51	14	-
.....2015	5	19	68	12	-
.....2016	8	17	55	15	-
.....2017	5	16	56	7	1
.....2018	4	31	49	12	-
Ohio2014	6	47	72	8	-
.....2015	2	45	76	9	-
.....2016	3	41	84	7	-
.....2017	2	38	83	8	-
.....2018	4	31	98	1	-
South Dakota2014	8	3	23	47	1
.....2015	2	3	12	65	1
.....2016	3	4	27	59	2
.....2017	1	4	27	63	1
.....2018	2	4	27	61	1

- Represents zero.

¹ Includes broadcast soybeans.

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

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

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

Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2014-2018

State and year	Samples	Row width (inches)					Average row width ¹	
		10.0 or less ¹	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
Arkansas	2014	208	20.7	24.1	29.9	12.8	12.5	20.1
	2015	199	19.1	16.8	23.6	14.6	25.9	23.1
	2016	189	14.6	24.1	4.0	21.2	36.1	26.0
	2017	197	16.3	24.2	2.3	19.8	37.4	26.4
	2018	210	18.1	18.6	7.2	14.6	41.5	26.4
Illinois	2014	185	10.3	52.7	3.8	33.2	-	19.7
	2015	178	7.1	63.0	2.3	26.8	0.8	19.0
	2016	177	7.9	56.5	5.6	29.4	0.6	19.6
	2017	181	6.1	50.6	5.0	37.7	0.6	20.8
	2018	185	5.7	57.6	5.9	30.8	-	19.9
Indiana	2014	143	15.0	66.4	9.1	9.5	-	16.0
	2015	137	15.4	67.4	5.9	11.3	-	16.1
	2016	137	14.7	62.3	8.4	13.9	0.7	17.0
	2017	141	14.6	68.3	9.3	7.8	-	15.8
	2018	150	10.1	74.8	5.7	9.4	-	16.2
Iowa	2014	185	2.2	33.6	7.0	55.6	1.6	24.3
	2015	181	2.8	36.7	9.1	49.2	2.2	23.4
	2016	179	2.2	34.4	11.2	50.5	1.7	23.7
	2017	180	1.1	34.4	12.8	50.6	1.1	23.7
	2018	177	4.8	36.7	10.2	45.5	2.8	22.8
Kansas	2014	113	9.3	41.1	5.8	43.8	-	21.2
	2015	111	11.7	38.3	4.5	45.5	-	21.5
	2016	109	5.5	34.6	4.6	54.4	0.9	23.5
	2017	105	9.0	38.1	5.7	47.2	-	21.8
	2018	109	7.8	41.0	6.5	43.8	0.9	21.8
Minnesota	2014	81	11.2	18.6	25.5	42.8	1.9	22.8
	2015	89	5.1	21.9	20.8	52.2	-	24.0
	2016	84	11.3	28.0	23.8	36.9	-	21.6
	2017	88	7.4	23.3	18.8	50.5	-	23.5
	2018	85	10.0	28.8	14.7	46.5	-	22.6
Missouri	2014	115	12.2	57.4	7.8	18.3	4.3	18.4
	2015	86	16.7	56.6	7.7	11.9	7.1	17.9
	2016	104	3.8	70.7	2.4	16.8	6.3	18.9
	2017	106	9.4	63.7	5.7	19.3	1.9	18.3
	2018	113	12.8	52.7	8.0	23.0	3.5	19.2
Nebraska	2014	95	2.6	28.4	7.9	55.8	5.3	24.8
	2015	105	2.4	29.5	6.3	54.1	7.7	24.5
	2016	94	7.4	35.6	5.9	46.8	4.3	22.8
	2017	100	4.0	31.0	10.5	47.0	7.5	24.2
	2018	101	5.9	27.2	10.9	48.1	7.9	24.3

See footnote(s) at end of table.

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**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:
2014-2018 (continued)**

State and year	Samples	Row width (inches)					Average row width ¹	
		10.0 or less ¹	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
North Dakota	2014	91	20.4	47.0	20.4	12.2	-	16.6
	2015	104	13.5	45.7	29.3	11.5	-	17.6
	2016	95	20.1	42.9	20.1	16.9	-	17.7
	2017	84	17.3	55.3	17.9	8.3	1.2	16.2
	2018	96	21.9	45.3	22.9	7.3	2.6	16.4
Ohio	2014	130	35.0	60.0	1.2	3.8	-	13.1
	2015	132	32.7	57.0	5.0	5.3	-	13.8
	2016	137	32.1	60.3	1.8	5.8	-	13.7
	2017	134	25.4	66.4	2.6	5.6	-	14.1
	2018	134	20.9	76.5	2.6	-	-	13.7
South Dakota	2014	81	4.3	25.3	12.4	54.3	3.7	24.8
	2015	83	5.0	10.5	14.2	69.1	1.2	26.6
	2016	96	1.6	23.0	17.3	53.4	4.7	25.1
	2017	93	2.7	17.8	16.2	61.7	1.6	25.9
	2018	94	4.3	15.4	17.6	62.2	0.5	25.7

- Represents zero.

¹ Broadcast soybeans included as "10.0 inches or less" but excluded in computation of average width.

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Fall Potato Objective Yield Data

The National Agricultural Statistics Service collects variety data in seven States, accounting for 83 percent of the 2018 United States fall potato planted acres. The seven States conduct objective yield surveys where all producing areas are sampled in proportion to planted acreage. Variety data shown below are actual percentages from these surveys.

Percent of Fall Potatoes Planted to Major Varieties – Selected States: 2018 Crop

State and variety	Percent of planted acres	State and variety	Percent of planted acres
Idaho			
Agata	1.2	Oregon	
Alturas	2.4	Alturas	13.0
Clearwater	2.6	Atlantic	1.6
Dark Red Norland	2.2	Clearwater	10.0
Frito Lay	1.5	Dakota Russet	1.2
Ranger	13.5	Frito Lay	1.0
Russet Burbank	44.9	Ranger	11.4
Russet Norkotah	18.0	Russet Burbank	9.0
Teton	1.6	Russet Norkotah	15.4
Umatillas	3.7	Shepody	11.9
Western Russet	1.1	Umatillas	17.8
Other	7.3	Waneta	1.4
		Other	6.3
Maine			
Atlantic	1.2	Washington	
Caribou	5.1	Agata	1.9
Dark Red Norland	2.1	Alturas	3.7
Frito-Lay	8.9	Chieftain	2.6
Goldrush	4.2	Clearwater	8.8
Highland	1.9	Pike	1.0
Keuka Gold	1.4	Ranger	8.1
Nadine	1.8	Russet Burbank	29.6
Norland	2.0	Russet Norkotah	8.1
Norwis	1.7	Shepody	5.5
Russet Burbank	46.2	Umatillas	14.8
Russet Norkotah	2.6	Other	15.9
Satina	1.1		
Snowden	3.1	Wisconsin	
Superior	1.2	Atlantic	3.4
Waneta	2.0	Dark Red Norland	5.6
Other	13.5	Frito Lay	23.6
		Goldrush	8.2
Minnesota		Norland	2.5
Cascade	1.1	Russet Burbank	9.9
Dakota Pearl	4.2	Russet Norkotah	9.3
Dakota Rose	3.1	Silverton	9.4
Dakota Russet	2.6	Snowden	6.9
Dark Red Norland	4.6	Superior	1.7
Goldrush	3.1	Umatillas	4.0
Ivory Russet	1.6	Other	15.5
Norland	11.5		
Russet Burbank	50.7		
Umatillas	11.1		
Other	6.4		
North Dakota			
Bannock	7.9		
Dakota Russet	4.8		
Dark Red Norland	3.3		
Mountain Gem	2.2		
Norland	2.8		
Ranger	1.1		
Red La Soda	1.2		
Russet Burbank	42.7		
Sangre	1.8		
Umatillas	14.8		
Other	17.4		

Percent of Fall Potatoes Planted to Major Varieties – Seven-State Total: 2018 Crop

[The Seven State total includes Idaho, Maine, Minnesota, North Dakota, Oregon, Washington, and Wisconsin]

Variety	Percent of planted acres	Variety	Percent of planted acres
Agata	0.9	Milva	0.1
Alturas	2.3	Mountain Gem	0.5
Atlantic	0.6	Nadine	0.2
Bannock	1.2	Natascha	0.1
Bintje	0.2	Norland	1.3
Blushing Belle	0.1	Norwis	0.2
Caribou	0.5	Payette Russet	0.1
Cascade	0.1	Pike	0.3
Challenger	0.1	Ranger	7.9
Chieftain	0.7	Red La Soda	0.2
Ciklamen	0.3	Rosara	0.1
Classic	0.1	Russet Burbank	37.4
Clearwater	3.3	Russet Norkotah	10.8
Colorado Rose	0.1	Sangre	0.2
Dakota Pearl	0.3	Satina	0.3
Dakota Rose	0.2	Shepody	1.7
Dakota Russet	0.8	Silverton	0.8
Dark Red Norland	2.2	Snowden	1.0
Frito Lay	3.5	Superior	0.3
Goldrush	1.3	Teton	0.6
Highland	0.2	Umatillas	7.9
Innate	0.2	Waneta	0.2
Ivory Russet	0.3	Western Russet	0.4
Kennebec	0.1	Yukon Gold	0.1
Keuka Gold	0.1	Other	7.6

Potato Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in seven fall potato-producing States during 2018. Sample plots were located in potato fields randomly selected using a scientifically designed sampling procedure. Field workers recorded counts and measurements within the field and then harvested six hills per sample. Potatoes were sent to laboratories for sizing and grading according to accepted United States fresh grading standards. Data in these tables are rounded actual field counts from this survey.

Fall Potato Number of Hills by Type – Selected States: 2014-2018

State and year	Reds		Whites		Yellows		Russets		
	Samples	Average number of hills per acre	Samples	Average number of hills per acre	Samples	Average number of hills per acre	Samples	Average number of hills per acre	
	(number)	(number)	(number)	(number)	(number)	(number)	(number)	(number)	
Idaho	2014	5	14,147	7	13,051	3	13,419	174	12,875
	2015	8	13,960	6	12,780	(D)	(D)	182	12,720
	2016	6	14,349	5	12,082	(D)	(D)	184	12,233
	2017	8	15,190	6	13,232	8	14,878	203	12,936
	2018	8	15,291	3	13,592	5	14,772	157	12,707
Maine	2014	7	13,315	35	12,190	11	13,643	65	10,627
	2015	8	13,183	43	13,106	9	11,434	85	10,029
	2016	10	13,322	53	13,331	11	12,479	74	9,679
	2017	4	12,563	36	13,962	5	12,125	65	10,865
	2018	8	11,985	34	14,341	6	12,130	77	9,925
Minnesota	2014	35	11,952	8	12,390	(D)	(D)	88	11,533
	2015	31	13,705	9	12,629	(D)	(D)	82	13,416
	2016	18	12,998	6	13,211	-	-	101	13,663
	2017	13	12,784	6	11,563	(D)	(D)	81	12,293
	2018	22	13,238	6	11,082	-	-	71	13,171
North Dakota	2014	19	11,008	32	10,985	(D)	(D)	78	11,772
	2015	16	12,688	31	12,090	4	17,154	83	13,297
	2016	9	10,017	34	12,441	(D)	(D)	96	14,135
	2017	33	12,202	33	13,035	7	12,697	78	13,711
	2018	14	12,481	19	12,960	7	12,423	120	13,457
Oregon	2014	4	9,772	17	11,584	3	10,663	76	12,848
	2015	4	13,138	16	11,269	3	11,195	70	12,864
	2016	(D)	(D)	25	10,945	-	-	60	11,449
	2017	3	12,376	28	13,097	3	11,063	74	12,910
	2018	(D)	(D)	15	13,545	(D)	(D)	88	13,601
Washington	2014	3	17,070	13	15,419	7	20,933	111	14,663
	2015	6	20,170	12	15,669	5	13,988	104	14,867
	2016	5	17,745	16	14,726	4	17,932	103	14,119
	2017	9	18,303	8	13,427	4	14,721	81	14,103
	2018	(D)	(D)	18	15,152	7	16,652	90	14,488
Wisconsin	2014	6	14,455	41	14,320	5	15,272	65	12,233
	2015	6	16,044	42	15,375	(D)	(D)	60	13,302
	2016	12	16,864	43	15,544	(D)	(D)	52	13,310
	2017	13	17,372	48	15,739	(D)	(D)	47	12,965
	2018	9	18,811	43	15,808	5	16,134	48	12,798

- Represents zero.

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

Fall Potato Harvest Loss by Type – Selected States: 2014-2018

State and year	Reds (cwt per acre)	Whites (cwt per acre)	Yellows (cwt per acre)	Russets (cwt per acre)	All types (cwt per acre)	
Idaho	2014	(D)	-	-	23	23
	2015	(D)	(D)	(D)	17	17
	2016	-	(D)	-	22	22
	2017	(D)	(D)	48	22	23
	2018	12	(D)	(D)	19	18
Maine	2014	28	15	(D)	19	18
	2015	(D)	17	(D)	24	20
	2016	11	12	-	24	19
	2017	(D)	8	(D)	17	13
	2018	(D)	(D)	(D)	(D)	17
Minnesota	2014	16	(D)	-	39	32
	2015	19	(D)	-	43	36
	2016	14	(D)	-	33	30
	2017	13	(D)	-	22	20
	2018	13	18	-	23	20
North Dakota	2014	15	34	-	34	31
	2015	18	23	(D)	32	27
	2016	(D)	31	(D)	50	44
	2017	11	29	(D)	44	33
	2018	20	67	(D)	32	34
Oregon	2014	(D)	24	-	16	17
	2015	(D)	(D)	-	29	27
	2016	(D)	21	-	16	17
	2017	(D)	20	-	21	21
	2018	(D)	20	-	20	21
Washington	2014	-	33	-	18	20
	2015	-	14	-	15	15
	2016	(D)	34	-	23	26
	2017	-	(D)	-	19	19
	2018	-	13	-	14	14
Wisconsin	2014	(D)	12	(D)	15	13
	2015	(D)	29	-	19	22
	2016	8	11	-	20	14
	2017	(D)	13	-	10	11
	2018	(D)	12	(D)	13	12

- Represents zero.

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

Fall Potato Grading Categories by Type – Selected States: 2017 and 2018

[Gross yield basis]

Type and State	No. 1 2 inch minimum ¹		No. 2 or processing usable 1 1/2 inch minimum ¹		Cull ²	
	2017	2018	2017	2018	2017	2018
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Round red potatoes						
Minnesota	77.2	82.8	20.2	12.7	2.6	4.5
North Dakota	80.9	75.5	13.5	21.7	5.6	2.8
Wisconsin	76.1	(D)	23.7	(D)	0.2	(D)
Round white potatoes						
Maine ³	88.6	93.3	10.9	6.3	0.5	0.4
North Dakota	67.8	80.0	24.4	13.7	7.8	6.3
Oregon	87.7	(D)	6.8	(D)	5.5	(D)
Wisconsin	80.4	79.6	19.6	20.3	-	0.1
All long potatoes ⁴						
Idaho ⁵	79.2	78.3	15.5	14.5	5.3	7.2
Maine ³	83.2	79.2	16.1	20.1	0.7	0.7
Minnesota	73.8	78.9	21.7	15.2	4.5	5.9
North Dakota	77.9	83.7	18.2	13.1	3.9	3.2
Oregon	79.1	79.0	15.7	13.7	5.2	7.3
Washington	86.6	81.1	9.8	12.3	3.6	6.6
Wisconsin	80.8	78.9	18.6	19.9	0.6	1.2

- Represents zero.

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

¹ Potatoes which meet the requirements for United States #1 or #2, as stated in United States Standards for Grades of Potatoes, United States Department of Agriculture, Agricultural Marketing Service.

² Potatoes not meeting the requirements for United States #1 or #2, as stated in United States Standards for Grades of Potatoes, United States Department of Agriculture, Agricultural Marketing Service.

³ Percent of net yield adjusted for field loss.

⁴ Includes Russet, Shepody, Prospect, and Defender varieties unless otherwise indicated.

⁵ Russets only.

Round Potato Size Categories by Type – Selected States: 2017 and 2018

[Gross yield basis]

Year, type, and State	Inches						
	1 1/2 - 1 7/8	1 7/8 - 2	2 - 2 1/4	2 1/4 - 2 1/2	2 1/2 - 3 1/2	3 1/2 - 4	4 inches and over
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
2017							
Red potatoes							
Minnesota	6.0	6.1	12.7	23.9	48.4	2.9	-
North Dakota	4.1	4.2	10.8	19.9	60.4	0.6	-
Wisconsin	11.8	9.0	19.8	27.5	31.9	-	-
White potatoes							
Maine ¹	3.9	4.7	13.0	19.8	53.5	4.4	0.7
North Dakota	9.9	11.1	21.7	21.7	34.4	1.2	-
Oregon	2.7	3.6	13.9	19.6	45.2	13.0	2.0
Wisconsin	5.2	4.4	12.8	19.3	54.8	2.9	0.6
2018							
Red potatoes							
Minnesota	5.4	5.9	16.2	24.0	47.9	0.6	-
North Dakota	6.6	5.6	12.2	21.1	51.1	3.4	-
Wisconsin	(D)	(D)	(D)	(D)	(D)	(D)	(D)
White potatoes							
Maine ¹	2.1	4.0	13.1	20.6	56.2	4.0	-
North Dakota	6.6	7.6	17.7	20.0	45.3	2.8	-
Oregon	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wisconsin	5.7	5.1	13.6	20.3	53.3	2.0	-

- Represents zero.

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

¹ Percent of net yield adjusted for field loss.

Long Potato (Russet and Shepody) Size Categories – Maine: 2017 and 2018

[Percent of net yield - adjusted for field loss]

Year	Inches		Ounces					
	1 1/2 - 1 7/8	1 7/8 - 2	2 inches or 4-6	6-8	8-10	10-12	12-14	14 and over
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
2017	3.2	3.8	31.2	20.2	13.6	8.5	6.2	13.3
2018	8.1	6.3	18.7	18.4	15.9	10.2	6.8	15.6

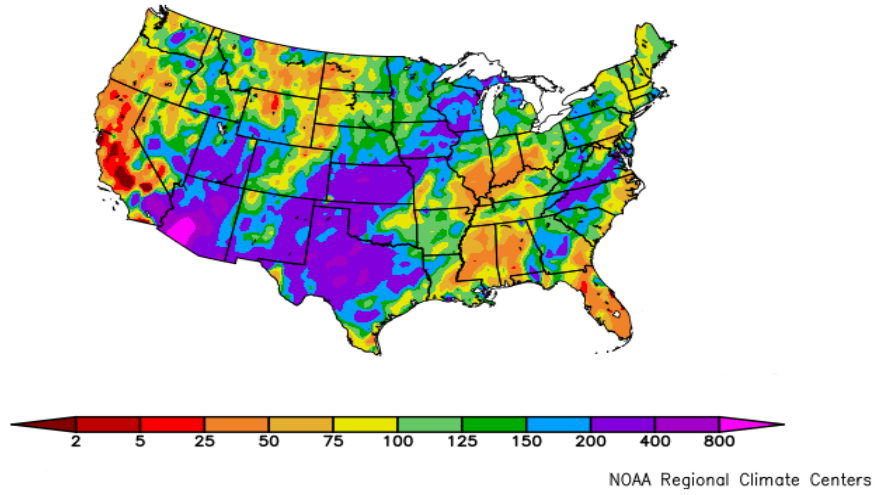
All Long Potato Size Categories – Selected States: 2017 and 2018

[Gross yield basis. Includes Russet, Shepody, Prospect, and Defender varieties]

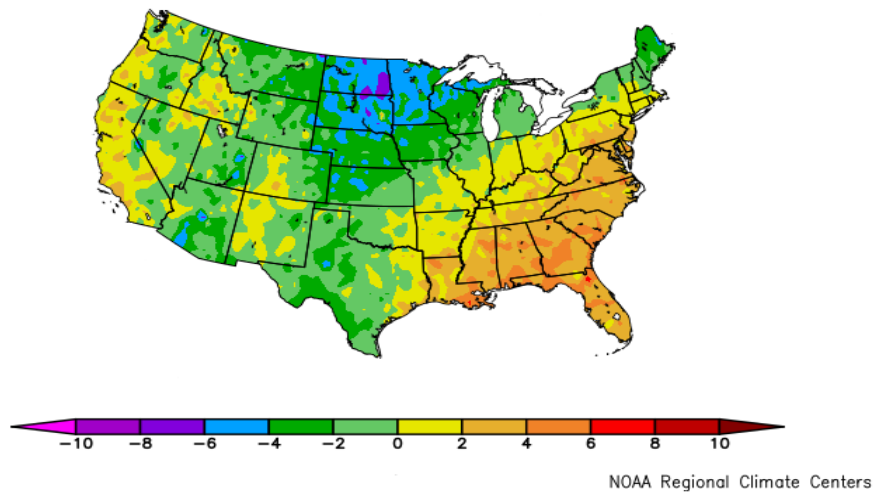
Year and State	Inches			Ounces									
	1 1/2 - 1 5/8	1 5/8 - 1 7/8	1 7/8 - 2	2 in. or 4-6	6	7	8	9	10	11	12	13	14 and over
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
2017													
Idaho ¹	1.6	5.8	5.6	24.3	10.8	8.7	7.5	7.1	5.6	4.5	3.7	3.2	11.6
Minnesota	1.8	8.2	8.2	29.5	10.5	9.6	7.0	5.6	4.7	3.8	2.5	2.2	6.4
North Dakota	1.5	6.7	6.9	26.9	9.9	9.4	7.1	6.7	5.6	4.0	3.6	2.4	9.3
Oregon	1.4	4.6	4.1	18.8	8.6	7.8	9.1	6.9	9.1	5.0	4.2	3.7	16.7
Washington	1.0	3.0	3.8	19.0	9.9	8.9	9.2	7.2	8.6	5.4	4.1	3.8	16.1
Wisconsin	0.5	6.0	5.0	24.8	11.7	10.2	9.9	7.0	5.8	5.3	3.5	2.3	8.0
2018													
Idaho ¹	1.2	5.2	4.8	23.1	9.4	9.3	8.1	6.6	6.3	4.9	4.1	3.5	13.5
Minnesota	1.2	5.8	5.4	24.3	9.9	9.6	9.7	7.4	5.5	4.7	4.2	2.4	9.9
North Dakota	1.0	4.5	4.3	20.2	9.1	8.8	7.8	7.4	6.2	6.2	4.9	3.8	15.8
Oregon	1.0	4.2	3.8	19.8	9.0	9.1	8.3	7.3	7.1	5.5	3.8	4.3	16.8
Washington	0.9	3.7	3.7	20.6	9.3	9.3	8.1	7.4	6.3	5.8	4.4	3.8	16.7
Wisconsin	0.7	7.4	6.0	28.0	12.1	7.0	9.1	5.4	5.7	5.1	2.2	2.9	8.4

¹ Russets only.

Percent of Normal Precipitation (%)
10/1/2018 - 10/30/2018



Departure from Normal Temperature (F)
10/1/2018 - 10/30/2018



October Weather Summary

Cool weather and relentless rains early in the month across the central and southern Plains and the upper Midwest curtailed fieldwork and resulted in the Nation's slowest soybean harvest since 2009. During the week ending October 14, five percent or less of the corn and soybeans were harvested in Iowa, Kansas, Minnesota, Missouri, Nebraska, Wisconsin, and the Dakotas. Producers were able to resume fieldwork operations during the second half of the month; by October 28, nearly three-quarters (72 percent) of the Nation's soybeans had been harvested—still below the 5-year average of 81 percent.

On October 10, powerful Hurricane Michael became the third-strongest storm on record, in terms of central barometric pressure, to strike the mainland of the United States, behind the Florida Keys' Labor Day hurricane of 1935 and Hurricane Camille in 1969. Category 4 Michael ripped across the Gulf Coast near Panama City, Florida, with a devastating storm surge and sustained winds near 155 mph. Hurricane-force winds (74 mph or greater) extended inland across western Florida, southwestern Georgia, and the southeastern corner of Alabama, causing significant damage to timber and crops such as cotton and pecans. Nearly one-half (46 percent) of Georgia's cotton crop, which was just one-fifth harvested when Michael hit, was rated in very poor to poor condition on October 28, up from a pre-storm value of 9 percent.

Michael also produced heavy rain and gusty winds in the Carolinas and the mid-Atlantic, but generally did not compound the damage that previously had been caused by Hurricane Florence. Meanwhile, the Plains' heavy rain hampered harvest activities and winter wheat planting. On October 28, the Kansas sorghum harvest was just 32 percent complete, versus the average of 55 percent. On the same date, winter wheat in Kansas was 76 percent sown, behind the average of 89 percent. Due to wetness and poor conditions for establishment, a notable portion of the emerging wheat crop was rated very poor to poor in Oklahoma (26 percent), Texas (22 percent), and Kansas (18 percent).

In contrast to the central and southern Plains' excessive wetness, drought persisted in parts of the West. On October 28, topsoil moisture was rated at least one-half very short to short in Nevada (95 percent), California (80 percent), Oregon (77 percent), and Washington (50 percent). Oregon led the Northwest on that date with 18 percent of its winter wheat rated in very poor to poor condition. In contrast, precipitation in part associated with the remnants of eastern Pacific Hurricanes Rosa, Sergio, and Willa provided some Southwestern drought relief.

Late-season warmth dominated the Southeast, especially prior to Michael's arrival. Monthly temperatures locally averaged more than 5°F above normal in the lower Southeast. Meanwhile, temperatures averaged more than 5°F below normal across parts of the Plains and upper Midwest, despite some late-month warmth. At the height of the cool spell, some early-season snow blanketed the Nation's mid-section, especially on October 10 and 14.

October Agricultural Summary

In early October, Hurricane Michael brought significant amounts of rainfall and wind resulting in significant precipitation totals in the Southeast with many areas recording more than 2 inches of rainfall. At the end of the month, remnants of tropical storm Willa transitioned to a Nor'easter in Texas, recording more than 8 inches of rainfall. As the storm continued moving east, it brought precipitation and cooler weather toward the East Coast. For the month of October precipitation levels were above normal along the Atlantic Coast, much of the Corn Belt, parts of the Delta, Great Plains, Rocky Mountains, and Southwest. Average monthly temperatures were generally below normal across the western half of the United States with areas in the Northern Great Plains recording average temperatures 6°F below normal in October. Temperatures were warmer than normal in the Delta and Southeast for nearly the entire month.

By October 7, ninety-three percent of the Nation's corn acreage was mature, 13 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Corn harvested across the Nation was 34 percent complete by October 7, thirteen percentage points ahead of last year and 8 percentage points ahead of the 5-year average. By October 21, corn harvested across the Nation was 49 percent complete, 12 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. Overall, 68 percent of the corn acreage was reported in good to excellent condition by October 21, unchanged from the previous week but 2 percentage points higher than at the same time last year. Corn harvested across the Nation was 76 percent complete by November 4, eight percentage points ahead of last year but 1 percentage point behind the 5-year average.

Ninety-one percent of the Nation's soybean acreage was at or beyond the leaf dropping stage by October 7, three percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Soybeans harvested across the Nation were 32 percent complete by October 7, two percentage points behind last year and 4 percentage points behind the 5-year average. Soybean harvested across the Nation were 53 percent complete by October 21, fourteen percentage points behind last year and 16 percentage points behind the 5-year average. Sixty-six percent of the Nation's soybean acreage was rated in good to excellent condition by October 21, unchanged from the previous week but 5 percentage points higher than the same time last year. Soybeans harvested across the Nation was 83 percent complete by November 4, six percentage points behind both last year and the 5-year average.

By October 7, producers had sown 57 percent of the Nation's winter wheat acreage, 11 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Nationally, emergence was 30 percent complete by October 7, seven percentage points ahead of last year and 2 percentage points ahead of the 5-year average. By October 21, producers had sown 72 percent of the Nation's winter wheat acreage, 1 percentage point behind last year and 5 percentage points behind the 5-year average. Nationally, emergence was 53 percent complete by October 21, three percentage points ahead of last year but 2 percentage points behind the 5-year average. By November 4, producers had sown 84 percent of the Nation's winter wheat acreage, 6 percentage points behind both last year and the 5-year average. Nationally, emergence was 70 percent complete by November 4, four percentage points behind last year and 7 percentage points behind the 5-year average. Overall, 51 percent of the 2019 winter wheat crop was rated in good to excellent condition by November 4, two percentage points below the previous week and 4 percentage points below the same time last year.

Seventy-eight percent of the Nation's cotton fields had bolls opening by October 7, seven percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Twenty-five percent of the Nation's cotton acreage was harvested by October 7, one percentage point ahead of last year and 7 percentage points ahead of the 5-year average. By October 21, eighty-eight percent of the Nation's cotton fields had bolls opening, 2 percentage points ahead of last year but 1 percentage point behind the 5-year average. Thirty-nine percent of the Nation's cotton acreage was harvested by October 21, three percentage points ahead of last year and 6 percentage points ahead of the 5-year average. By November 4, ninety-four percent of the Nation's cotton fields had bolls opening, 2 percentage points behind last year and 3 percentage points behind the 5-year average. Forty-nine percent of the Nation's cotton acreage was harvested by November 4, four percentage points behind last year and 3 percentage point behind the 5-year average. Overall, 33 percent of the cotton acreage was rated in good to excellent condition by November 4, two percentage points below the previous week and 22 percentage points below the same time last year.

By October 7, seventy-three percent of the Nation's sorghum was considered mature, 5 percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Producers harvested 39 percent of the Nation's acreage by October 7, four percentage points ahead of last year but 3 percentage points behind the 5-year average. By October 21, eighty-nine percent of the Nation's sorghum was considered mature, 1 percentage point ahead of last year but equal to the 5-year average. Producers harvested 46 percent of the Nation's sorghum acreage by October 21, equal to last year but 10 percentage points behind the 5-year average. Fifty-three percent of the Nation's Sorghum acreage was rated in good to excellent condition as of October 21, two percentage points below the previous week and 12 percentage points below the same time last year. Ninety-seven percent of the Nation's sorghum acreage was considered mature by November 4, one percentage point behind both last year and the 5-year average. By November 4, producers harvested 64 percent of the Nation's sorghum acreage, 6 percentage points behind last year and 12 percentage points behind the 5-year average.

Seventy-nine percent of the Nation's rice acreage was harvested by October 7, five percentage points behind last year but equal to the 5-year average. By October 21, ninety percent of the Nation's rice acreage was harvested, 7 percentage points behind last year and 4 percentage points behind the 5-year average.

Thirty-three percent of the Nation's peanut acreage was harvested as of October 7, four percentage points behind last year but 2 percentage points ahead of the 5-year average. Overall, 58 percent of the peanut acreage was reported in good to excellent condition by October 14, twelve percentage point behind both the previous week and the same time last year. Fifty-six percent of the Nation's peanut acreage was harvested as of October 21, five percentage points behind last year and 2 percentage points behind the 5-year average. Seventy-five percent of the Nation's peanut acreage was harvested as of November 4, six percentage points behind both last year and the 5-year average.

By October 7, sugarbeet producers harvested 40 percent of the Nation's acreage, 1 percentage point ahead of last year but 1 percentage point behind the 5-year average. By October 21, producers harvested 65 percent of the Nation's sugarbeet acreage, 8 percentage points behind last year and 10 percentage points behind the 5-year average. By November 4, producers had harvested 91 percent of the Nation's sugarbeet acreage, equal to last year but 1 percentage point behind the 5-year average.

Six percent of this year's sunflower crop was harvested by October 7, one percentage point ahead of last year but equal to the 5-year average. By October 21, nineteen percent of this year's sunflower crop was harvested, 8 percentage points behind last year and 9 percentage points behind the 5-year average. By November 4, fifty-two percent of this year's sunflower crop was harvested, 16 percentage points behind last year and 9 percentage points behind the 5-year average.

Crop Comments

Corn: At 14.6 billion bushels, 2018 corn production is forecast to be the second highest production on record for the United States. The forecasted yield, at 178.9 bushels per acre is forecast to be the highest yield on record for the United States. Record high yields are forecast for Alabama, Illinois, Indiana, Kentucky, Michigan, Nebraska, New York, Ohio, South Dakota, and Tennessee. Acreage harvested for grain is forecast at 81.8 million acres, unchanged from the previous estimate but down 1 percent from 2017.

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

By October 7, thirty-four percent of the Nation's corn harvest was complete, 13 percentage points ahead of last year and 8 points ahead of average. As of October 28, sixty-three percent of the Nation's corn harvest was complete, eleven percentage points ahead of last year but equal to the 5-year average.

Sorghum: Production is forecast at 364 million bushels, down 5 percent from the October forecast and down slightly from last year. Area harvested for grain is forecast at 5.09 million acres, unchanged from the previous forecast but up 1 percent from last season. Based on conditions as of November 1, yield is forecast at 71.4 bushels per acre, 3.6 bushels lower than the previous forecast and 0.7 bushel lower than the 2017 yield of 72.1 bushels per acre. A record high yield is forecast in Georgia, Missouri, and Nebraska.

As of October 28, ninety-four percent of the crop was mature, slightly behind the five-year average. Fifty-three percent of the crop had been harvested by October 28, four percentage points behind the same time last year and 13 percentage points behind the 5-year average pace.

Rice: Production is forecast at 218 million cwt, down less than 1 percent from the October forecast but up 22 percent from last year. Harvested area is expected to total 2.90 million acres, unchanged from the October forecast but up 22 percent from last year. Based on conditions as of November 1, the average United States yield is forecast at 7,522 pounds per acre, down 17 pounds per acre from the October forecast but 15 pounds per acre higher than the Nation's 2017 average yield of 7,507 pounds per acre.

As of October 28, ninety-six percent of the rice acreage was harvested, 3 percentage points behind the same time last year and 2 percentage points behind the 5-year average pace. Harvest was complete in Louisiana and Texas.

Soybeans: Production is forecast at a record 4.60 billion bushels, down 2 percent from the October forecast but up 4 percent from last year. Based on November 1 conditions, yields are expected to average 52.1 bushels per acre, down 1.0 bushel from last month but up 2.8 bushels from last year. Area for harvest in the United States is forecast at 88.3 million acres, down slightly from October and down 1 percent from 2017.

If realized, the forecasted yield will be a record high in Illinois, Indiana, Kentucky, Mississippi, Nebraska, New York, Ohio, Pennsylvania, and Virginia.

The November objective yield data for the combined 11 major soybean-producing States (Arkansas, Illinois, Indiana, Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, Ohio, and South Dakota) indicate a higher pod count from the previous year. Compared with final counts for 2017, pod counts are up in 8 of the 11 published States. An increase of more than 200 pods per 18 square feet from 2017's final pod count is expected in Illinois, Indiana, Iowa, Nebraska, Ohio, and South Dakota.

By October 14, the soybean crop was 38 percent harvested, 9 percentage points behind last year and 15 percentage points behind the 5-year average. As of October 28, harvest was 72 percent complete Nationwide, 9 percentage points behind both last year and the 5-year average. By October 28, harvest progress was behind their State 5-year average pace in Arkansas, Iowa, Kansas, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Tennessee, and Wisconsin.

Peanuts: Production is forecast at 5.47 billion pounds, down 5 percent from the October forecast and down 23 percent from the 2017 total of 7.12 billion pounds. Harvested area is expected to total 1.35 million acres, down 3 percent from the October forecast and down 24 percent from 2017. Based on conditions as of November 1, the United States average yield is forecast at 4,066 pounds per acre, down 101 pounds per acre from October but up 59 pounds per acre from the 2017 average yield of 4,007 pounds per acre. If realized, the average United States yield will be the highest since 2012. A record high yield is forecast in Alabama.

As of October 28, sixty-six percent of the 2018 peanut acreage had been harvested, 6 percentage points behind last year and 4 percentage points behind the 5-year average.

Cotton: All cotton production is forecast at 18.4 million 480-pound bales, down 7 percent from the October forecast and down 12 percent from last year. Yield is expected to average 852 pounds per harvested acre, down 49 pounds from last month and down 53 pounds from last year. If realized, the forecasted yield for Upland cotton in California and Missouri will be record highs. Upland cotton harvested area for the Nation is expected to total 10.1 million acres, down 1 percent from October and down 7 percent from last year. Pima cotton harvested area, estimated at 245,400 acres, was carried forward from an earlier forecast.

As of October 28, thirty-five percent of the Nation's cotton acreage was rated in good to excellent condition, compared with 55 percent at the same time last year. The acreage rated in good to excellent condition for the 15 weekly *Crop Progress* estimating States decreased 7 percentage points during the month of October, primarily due to Hurricane Michael. Acreage rated in good to excellent condition dropped 38 percentage points in Georgia from the week ending October 7, as Hurricane Michael made landfall in early-October and brought significant flooding and wind damage.

Ginnings totaled 4,876,800 running bales prior to November 1, compared with 4,914,550 running bales ginned prior to the same date last year.

Sugarbeets: Production of sugarbeets, for the 2018 crop year, is forecast at 33.5 million tons, down 5 percent from last year. Producers expect to harvest 1.10 million acres, down 1 percent from last year. Expected yield is forecast at 30.5 tons per acre, a decrease of 1.2 tons from last year.

Yield forecasts were down in Colorado, Montana, Nebraska, and Wyoming due to lack of late season growth and cooler than expected fall temperatures. North Dakota yields were lower than previous forecast due to early harvest and fewer growing degree days in late September and October.

Sugarcane: Production of sugarcane for sugar and seed in 2018 is forecast at 33.6 million tons, up 1 percent from last year. Producers intend to harvest 920,000 acres for sugar and seed during the 2018 crop year, up 2 percent from last year. Expected yield for sugar and seed is forecast at 36.6 tons per acre, down 0.2 ton from 2017.

Fall potatoes: Production of fall potatoes for 2018 is forecast at 417 million cwt, up 4 percent from last year. Area harvested, at 913,100 acres, is up 1 percent from the previous year. The average yield forecast, is a record high 457 cwt per acre, is up 13 cwt from last year's yield.

In Idaho, growers reported good growing conditions despite the many wildfires, and as of October 28, ninety-eight percent of the harvest was complete. Washington producers reported some frost damage in June and plant stress in August due to high temperatures, even with irrigation. As of October 28, eighty-nine percent of the crop was harvested. If realized, record high yields are forecast in Idaho, Oregon, Nebraska, and Montana.

Grapefruit: The United States 2018-2019 grapefruit crop is forecast at 676,000 tons, down 2 percent from last month but up 31 percent from last season's final utilization. In Florida, expected production, at 6.40 million boxes (272,000 tons), is down 4 percent from last month but up 65 percent from last year. California and Texas grapefruit production forecasts were carried forward from the previous month.

Tangerines and mandarins: The United States tangerine and mandarin crop is forecast at 977,000 tons, unchanged from last month but up 22 percent from last season's final utilization. The Florida forecast, at 1.20 million boxes (57,000 tons), is unchanged from last month but up 60 percent from the previous year. The California tangerine and mandarin forecast was carried forward from the previous month.

Florida citrus: In the citrus growing region, reported temperatures were slightly warmer than normal for this time of the year. Reported highs ranged from the mid-80s to low 90s early in the month and averaged in the mid-80s later in the month. Dry weather has been prevalent throughout the citrus growing region. About half of the monitored stations recorded less than an inch of rainfall, compared to historical averages of over two inches during October. According to the October 30, 2018 U.S. Drought Monitor, abnormally dry conditions have expanded in the citrus growing region. They now cover the entire Indian River District and about half of the Southern area. Dry weather has also moved into the eastern portion of Highlands and Osceola counties in the Central area of the citrus belt.

Grove workers were applying fertilizer and taking care of resets. Spraying was seen across the citrus belt. Irrigation was being run everywhere. Groves were being mowed prior to harvesting. Field workers have observed a lot of fruit, however the fruit is on the small size. Both white and red grapefruit were beginning to show color. Early season fruit harvest was increasing moderately and going directly to the packing houses. These varieties include Fallglo and Early Pride tangerines, Navel and other early oranges, and red grapefruit. Two processing plants were reported as open and accepting packinghouse eliminations.

California citrus: Finger lime and Valencia orange harvest continued. Citrus groves were skirted, hedge rowed, and irrigated. Navel orange fruit thinning was ongoing. Pushed out citrus groves were prepared for planting. Lemons were harvested mid-month in Tulare County.

California noncitrus fruits and nuts: Table and wine grape harvest continued. Late variety grapes were covered to protect from rain. Raisin grapes were harvested and laid out for sun drying, while dried raisins were picked up. Asian pears, nectarines, peaches, pears, plums, pomegranates, and quince were harvested. Stone fruit harvest was winding down for the season. Some old stone fruit orchards were torn out for replacement with new trees. Olive harvest was underway. Persimmons were maturing well and by mid-month, were developing external color. Kiwi and persimmon harvest began close to months' end. Almond harvest was wrapping up for the year. Pistachio harvest continued. Orchard floors were prepared for harvest. Walnut harvest was underway in some locations. Pecan harvest began at the end of the month. Harvested orchards were cleaned and young trees were irrigated.

Statistical Methodology

Field crop survey procedures: Objective yield and farm operator surveys were conducted between October 25 and November 5 to gather information on expected yield as of November 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 8,500 producers were interviewed during the survey period and asked questions about probable yield.

Orange survey procedures: 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, which combined with the previous components are used to develop the current forecast of production. California and Texas conduct grower surveys on a quarterly basis in October, January, April, and July. California 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 November 1 forecasts.

Orange estimating procedures: State level objective yield estimates for Florida oranges were reviewed for errors, reasonableness, and consistency with historical estimates. The Florida Field Office submits its analysis of the current situation to the Agricultural Statistics Board (ASB). The ASB uses the Florida survey data and their analyses to prepare the published November 1 forecast. Reports from growers in California and Texas were also used for setting estimates. The November 1 orange production forecasts for these two States are carried forward from October.

Revision policy: The November 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. Current year, 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 Summary* report at the end of September; and all other spring planted crops in the October *Crop Production* report. Revisions to planted acres will only be made when either special survey data, administrative data, such as Farm Service Agency program “sign up” data, or remote sensing data are available. Harvested acres may be revised any time a production forecast is made if there is strong evidence that the intended harvested area has changed since the last forecast. 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 November 1 production forecast, the “Root Mean Square Error,” a statistical measure based on past performance, is computed. The deviation between the November 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 November 1 corn for grain production forecast is 1.0 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 1.0 percent. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 1.7 percent.

Also, shown in the following table is a 20-year record for selected crops of the differences between the November 1 forecast and the final estimate. Using corn again as an example, changes between the November 1 forecast and the final estimate during the last 20 years have averaged 95 million bushels, ranging from 4 million bushels to 214 million bushels. The November 1 forecast has been below the final estimate 7 times and above 13 times. This does not imply that the November 1 corn forecast this year is likely to understate or overstate final production.

Reliability of November 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	1.0	1.7	95	4	214	7	13
Fall potatoes cwt	1.1	1.9	4	1	8	11	9
Rice cwt	1.7	2.9	3	(Z)	11	14	6
Sorghum for grain bushels	4.9	8.5	14	1	33	10	10
Soybeans for beans bushels	1.5	2.7	41	2	100	9	11
Upland cotton ¹ bales	3.2	5.5	432	45	1,001	9	11

(Z) Less than half of the unit shown.

¹ Quantity is in thousands of units.

USDA, National Agricultural Statistics Service Information Contacts

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

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Joshua Bates – Corn, Flaxseed, Proso Millet	(202) 720-9526
James Johanson – County Estimates, Hay	(202) 690-8533
Jeff Lemmons – Oats, Soybeans	(202) 690-3234
Sammy Neal – Peanuts, Rice	(202) 720-7688
Jannety Mosley – Crop Weather, Barley.....	(202) 720-7621
Jean Porter – Rye, Wheat	(202) 720-8068
Chris Singh – Cotton, Cotton Ginnings, Sorghum.....	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369
Jorge Garcia-Pratts, Head, Fruits, Vegetables and Special Crops Section.....	(202) 720-2127
Vincent Davis – Apricots, Bananas, Cherries, Garlic, Lettuce, Mint, Papaya, Pears, Strawberries, Tomatoes.....	(202) 720-2157
Fleming Gibson – Avocados, Cauliflower, Celery, Citrus, Coffee, Dates, Figs, Kiwifruit, Nectarines, Olives, Green Peas, Taro, 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
Jorge Garcia-Pratts – Apples, Asparagus, Carrots, Lima Beans, Onions, Plums, Prunes, Sweet Corn, Tobacco	(202) 720-2127

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