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Crop Production 2016 Summary

January 2017

USDA



Corn for grain production is estimated at 15.1 billion bushels, down 1 percent from the November forecast but up 11 percent from the 2015 estimate. The average yield in the United States is estimated at 174.6 bushels per acre. This is down 0.7 bushel from the November forecast but 6.2 bushels above the 2015 average yield of 168.4 bushels per acre. Area harvested for grain is estimated at 86.7 million acres, down slightly from the November forecast but up 7 percent from 2015.

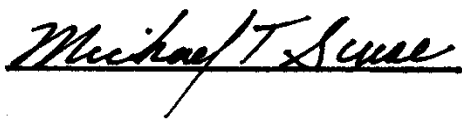
Sorghum grain production in 2016 is estimated at 480 million bushels, up 4 percent from the November forecast but down 20 percent from the 2015 total. Planted area for 2016 is estimated at 6.69 million acres, down 21 percent from the previous year. Area harvested for grain, at 6.16 million acres, is down 22 percent from 2015. Grain yield is estimated at a record 77.9 bushels per acre, up 1.4 bushels from the previous forecast and up 1.9 bushels from 2015.

Rice production in 2016 is estimated at 224 million cwt, down 5 percent from the previous forecast but up 16 percent from the revised 2015 total. Planted area for 2016 is estimated at 3.15 million acres, up 20 percent from 2015. Area harvested, at 3.10 million acres, is also up 20 percent from the previous crop year. The average yield for all United States rice is estimated at 7,237 pounds per acre, down 256 pounds from the previous forecast and 235 pounds below the 2015 United States average of 7,472 pounds per acre.

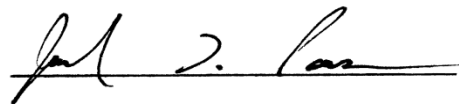
Soybean production in 2016 totaled a record 4.31 billion bushels, down 1 percent from the November forecast but up 10 percent from 2015. The average yield per acre is estimated at a record high 52.1 bushels, 0.4 bushel below the November forecast but 4.1 bushels above the previous record yield in 2015. Harvested area is up 1 percent from last year to a record 82.7 million acres.

All cotton production is estimated at 17.0 million 480-pound bales, up 3 percent from the December forecast and up 32 percent from 2015. The United States yield is estimated at 855 pounds per acre, up 34 pounds from the December forecast and up 89 pounds from last year. Harvested area, at 9.52 million acres, is down 1 percent from the December forecast but up 18 percent from last year.

This report was approved on January 12, 2017.



Secretary of Agriculture
Designate
Michael T. Scuse



Agricultural Statistics Board
Chairperson
Joseph L. Parsons

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Principal Crops Area Planted and Harvested – States and United States: 2014-2016

[Crops included are corn, sorghum, oats, barley, rye, winter wheat, Durum wheat, other spring wheat, rice, soybeans, peanuts, sunflower, cotton, dry edible beans, potatoes, canola, proso millet, and sugarbeets. Harvested acreage is used for all hay, tobacco, and sugarcane in computing total area planted. Includes double cropped acres and unharvested small grains planted as cover crops]

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	2,360	2,320	2,360	2,275	2,217	2,248
Arizona	701	731	672	692	719	658
Arkansas	7,463	7,117	7,297	7,337	6,930	7,138
California	3,405	3,083	3,208	2,918	2,626	2,806
Colorado	6,188	6,036	6,170	5,597	5,660	5,881
Connecticut	79	79	70	75	74	66
Delaware	495	461	457	476	442	439
Florida	1,170	1,146	1,148	1,146	1,115	1,121
Georgia	3,795	3,694	3,629	3,496	3,362	3,286
Hawaii	16	15	15	16	15	15
Idaho	4,302	4,160	4,163	4,113	3,995	4,027
Illinois	23,025	22,616	22,770	22,843	22,388	22,574
Indiana	12,360	12,065	12,080	12,255	11,895	11,990
Iowa	24,876	24,655	24,455	24,605	24,422	24,250
Kansas	23,007	23,320	23,594	21,904	22,558	23,071
Kentucky	6,267	6,243	6,125	6,122	6,073	5,985
Louisiana	3,587	3,392	3,315	3,545	3,315	3,184
Maine	277	260	243	271	254	239
Maryland	1,617	1,582	1,605	1,487	1,462	1,474
Massachusetts	95	112	108	92	109	106
Michigan	6,618	6,419	6,423	6,487	6,319	6,313
Minnesota	19,741	20,015	19,887	19,324	19,701	19,585
Mississippi	4,308	4,274	4,177	4,248	4,192	4,114
Missouri	14,094	12,081	13,404	13,832	11,741	13,107
Montana	9,967	9,451	9,217	9,446	9,025	8,809
Nebraska	19,544	19,652	19,544	19,146	19,172	19,223
Nevada	455	334	356	443	330	346
New Hampshire	69	63	68	68	62	67
New Jersey	331	314	319	320	304	309
New Mexico	983	975	908	677	768	756
New York	3,051	2,839	3,015	2,994	2,783	2,950
North Carolina	5,070	4,753	4,438	4,952	4,515	4,271
North Dakota	23,004	23,710	23,686	22,205	23,308	23,022
Ohio	10,034	9,973	10,000	9,894	9,843	9,905
Oklahoma	10,781	10,126	10,018	7,834	8,341	8,196
Oregon	2,086	2,104	2,149	2,048	2,057	2,101
Pennsylvania	3,789	3,568	3,668	3,679	3,488	3,561
Rhode Island	10	9	9	10	9	9
South Carolina	1,674	1,624	1,505	1,633	1,343	1,448
South Dakota	17,816	18,100	17,341	17,335	17,253	16,887
Tennessee	5,155	4,926	5,030	5,045	4,811	4,920
Texas	23,473	21,701	21,564	17,476	18,189	18,204
Utah	937	917	938	893	878	917
Vermont	277	237	280	270	233	275
Virginia	2,816	2,705	2,680	2,715	2,581	2,593
Washington	3,889	3,660	3,718	3,784	3,568	3,645
West Virginia	706	676	670	701	669	665
Wisconsin	8,089	7,999	7,885	7,868	7,840	7,705
Wyoming	1,478	1,496	1,441	1,415	1,454	1,390
United States ¹	326,436	318,975	319,257	308,243	304,706	306,161

¹ States do not add to United States due to canola, potato, and rye unallocated acreage.

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Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2014-2016

State	Area planted for all purposes			Area harvested for grain		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Alabama	300	260	330	285	245	315
Arizona	75	75	95	28	36	50
Arkansas	540	460	760	530	445	745
California	520	440	420	95	60	100
Colorado	1,150	1,100	1,340	1,010	950	1,170
Connecticut ¹	26	26	25	(NA)	(NA)	(NA)
Delaware	175	170	170	168	164	164
Florida	75	80	80	40	50	40
Georgia	350	330	410	310	285	340
Idaho	320	280	340	80	70	100
Illinois	11,900	11,700	11,600	11,750	11,500	11,450
Indiana	5,900	5,650	5,600	5,770	5,480	5,470
Iowa	13,700	13,500	13,900	13,300	13,050	13,500
Kansas	4,050	4,150	5,100	3,800	3,920	4,920
Kentucky	1,520	1,400	1,500	1,430	1,310	1,400
Louisiana	400	400	620	390	390	550
Maine ¹	31	31	31	(NA)	(NA)	(NA)
Maryland	500	440	460	430	380	400
Massachusetts ¹	16	16	16	(NA)	(NA)	(NA)
Michigan	2,550	2,350	2,400	2,210	2,070	2,040
Minnesota	8,200	8,100	8,450	7,550	7,600	8,000
Mississippi	510	510	750	485	490	720
Missouri	3,500	3,250	3,650	3,380	3,080	3,500
Montana	130	105	115	75	50	55
Nebraska	9,300	9,400	9,850	8,950	9,150	9,550
Nevada ¹	4	2	11	(NA)	(NA)	(NA)
New Hampshire ¹	15	15	15	(NA)	(NA)	(NA)
New Jersey	85	80	80	79	72	71
New Mexico	125	125	120	48	40	41
New York	1,140	1,080	1,100	680	590	570
North Carolina	840	790	1,000	780	730	940
North Dakota	2,800	2,750	3,450	2,530	2,560	3,270
Ohio	3,700	3,550	3,550	3,470	3,260	3,300
Oklahoma	320	310	400	290	280	350
Oregon	80	65	80	39	30	39
Pennsylvania	1,460	1,340	1,400	1,030	940	950
Rhode Island ¹	2	2	2	(NA)	(NA)	(NA)
South Carolina	295	295	375	280	260	350
South Dakota	5,800	5,400	5,600	5,320	5,030	5,130
Tennessee	920	780	880	840	730	830
Texas	2,250	2,300	2,900	1,990	1,970	2,550
Utah	75	65	80	28	17	29
Vermont ¹	92	92	90	(NA)	(NA)	(NA)
Virginia	500	450	490	350	300	340
Washington	215	170	170	110	75	85
West Virginia	51	50	49	36	35	35
Wisconsin	4,000	4,000	4,050	3,110	3,000	3,220
Wyoming	90	85	100	60	59	69
United States	90,597	88,019	94,004	83,136	80,753	86,748

See footnote(s) at end of table.

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Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2014-2016 (continued)

State	Yield per acre			Production		
	2014 (bushels)	2015 (bushels)	2016 (bushels)	2014 (1,000 bushels)	2015 (1,000 bushels)	2016 (1,000 bushels)
Alabama	159.0	147.0	120.0	45,315	36,015	37,800
Arizona	210.0	210.0	215.0	5,880	7,560	10,750
Arkansas	187.0	181.0	171.0	99,110	80,545	127,395
California	165.0	157.0	185.0	15,675	9,420	18,500
Colorado	146.0	142.0	137.0	147,460	134,900	160,290
Connecticut ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Delaware	200.0	192.0	170.0	33,600	31,488	27,880
Florida	135.0	141.0	145.0	5,400	7,050	5,800
Georgia	170.0	171.0	165.0	52,700	48,735	56,100
Idaho	200.0	207.0	188.0	16,000	14,490	18,800
Illinois	200.0	175.0	197.0	2,350,000	2,012,500	2,255,650
Indiana	188.0	150.0	173.0	1,084,760	822,000	946,310
Iowa	178.0	192.0	203.0	2,367,400	2,505,600	2,740,500
Kansas	149.0	148.0	142.0	566,200	580,160	698,640
Kentucky	158.0	172.0	159.0	225,940	225,320	222,600
Louisiana	183.0	171.0	165.0	71,370	66,690	90,750
Maine ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Maryland	175.0	164.0	152.0	75,250	62,320	60,800
Massachusetts ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Michigan	161.0	162.0	157.0	355,810	335,340	320,280
Minnesota	156.0	188.0	193.0	1,177,800	1,428,800	1,544,000
Mississippi	185.0	175.0	166.0	89,725	85,750	119,520
Missouri	186.0	142.0	163.0	628,680	437,360	570,500
Montana	100.0	110.0	100.0	7,500	5,500	5,500
Nebraska	179.0	185.0	178.0	1,602,050	1,692,750	1,699,900
Nevada ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Hampshire ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Jersey	157.0	147.0	145.0	12,403	10,584	10,295
New Mexico	195.0	180.0	150.0	9,360	7,200	6,150
New York	148.0	143.0	129.0	100,640	84,370	73,530
North Carolina	132.0	113.0	129.0	102,960	82,490	121,260
North Dakota	124.0	128.0	158.0	313,720	327,680	516,660
Ohio	176.0	153.0	159.0	610,720	498,780	524,700
Oklahoma	147.0	129.0	121.0	42,630	36,120	42,350
Oregon	190.0	188.0	230.0	7,410	5,640	8,970
Pennsylvania	154.0	147.0	129.0	158,620	138,180	122,550
Rhode Island ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
South Carolina	117.0	93.0	127.0	32,760	24,180	44,450
South Dakota	148.0	159.0	161.0	787,360	799,770	825,930
Tennessee	168.0	160.0	151.0	141,120	116,800	125,330
Texas	148.0	135.0	127.0	294,520	265,950	323,850
Utah	160.0	173.0	175.0	4,480	2,941	5,075
Vermont ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Virginia	145.0	161.0	148.0	50,750	48,300	50,320
Washington	215.0	215.0	235.0	23,650	16,125	19,975
West Virginia	149.0	148.0	145.0	5,364	5,180	5,075
Wisconsin	156.0	164.0	178.0	485,160	492,000	573,160
Wyoming	138.0	159.0	147.0	8,280	9,381	10,143
United States	171.0	168.4	174.6	14,215,532	13,601,964	15,148,038

(NA) Not available.

¹ Area harvested for grain not estimated.

Corn for Silage Area Harvested, Yield, and Production – States and United States: 2014-2016

State	Area harvested			Yield per acre			Production		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	9	9	7	17.0	15.0	16.0	153	135	112
Arizona	46	38	44	29.0	31.0	30.0	1,334	1,178	1,320
Arkansas	2	2	2	18.0	15.0	15.0	36	30	30
California	420	375	315	26.0	25.5	26.5	10,920	9,563	8,348
Colorado	110	120	140	25.0	25.5	24.0	2,750	3,060	3,360
Connecticut	22	21	21	20.0	18.5	18.5	440	389	389
Delaware	5	4	5	24.0	20.0	18.0	120	80	90
Florida	30	25	35	13.0	17.0	19.0	390	425	665
Georgia	35	40	40	19.5	22.0	19.0	683	880	760
Idaho	235	205	235	28.0	29.0	30.0	6,580	5,945	7,050
Illinois	80	90	80	22.0	20.0	21.0	1,760	1,800	1,680
Indiana	100	90	100	22.0	17.0	22.0	2,200	1,530	2,200
Iowa	310	340	330	20.0	24.0	24.0	6,200	8,160	7,920
Kansas	150	170	150	14.0	18.5	19.5	2,100	3,145	2,925
Kentucky	75	70	80	21.0	20.0	19.5	1,575	1,400	1,560
Louisiana	2	1	1	18.0	14.0	17.0	36	14	17
Maine	27	27	28	18.5	18.5	19.0	500	500	532
Maryland	60	45	50	22.0	22.0	18.0	1,320	990	900
Massachusetts	13	13	14	20.0	19.0	16.0	260	247	224
Michigan	320	260	340	20.5	19.0	19.5	6,560	4,940	6,630
Minnesota	500	450	390	18.0	21.5	21.5	9,000	9,675	8,385
Mississippi	10	10	10	14.0	16.0	14.0	140	160	140
Missouri	80	100	80	18.0	14.0	15.0	1,440	1,400	1,200
Montana	51	50	55	22.0	23.0	22.0	1,122	1,150	1,210
Nebraska	260	220	240	21.0	20.0	19.5	5,460	4,400	4,680
Nevada	3	2	7	20.0	24.0	24.0	60	48	168
New Hampshire	14	14	14	21.0	20.0	20.0	294	280	280
New Jersey	5	7	5	20.0	21.0	16.0	100	147	80
New Mexico	73	83	75	26.0	25.0	23.0	1,898	2,075	1,725
New York	450	480	510	18.0	17.0	16.0	8,100	8,160	8,160
North Carolina	50	50	40	19.0	16.0	15.5	950	800	620
North Dakota	230	150	150	14.5	14.0	17.5	3,335	2,100	2,625
Ohio	190	240	210	20.5	20.0	15.5	3,895	4,800	3,255
Oklahoma	20	15	20	17.0	17.0	15.0	340	255	300
Oregon	40	34	40	25.0	24.0	27.0	1,000	816	1,080
Pennsylvania	410	390	440	20.0	20.0	17.5	8,200	7,800	7,700
Rhode Island	2	2	2	20.0	17.0	18.5	40	34	37
South Carolina	11	13	13	14.0	14.0	14.0	154	182	182
South Dakota	400	330	400	15.5	16.0	17.5	6,200	5,280	7,000
Tennessee	60	40	40	21.0	18.0	19.0	1,260	720	760
Texas	210	250	250	22.0	21.0	17.0	4,620	5,250	4,250
Utah	45	45	49	22.0	23.0	24.0	990	1,035	1,176
Vermont	85	88	85	18.0	17.0	20.0	1,530	1,496	1,700
Virginia	125	125	130	19.5	21.0	20.0	2,438	2,625	2,600
Washington	105	95	85	28.0	26.0	26.0	2,940	2,470	2,210
West Virginia	14	14	13	18.0	18.0	19.0	252	252	247
Wisconsin	850	970	790	18.5	19.5	21.0	15,725	18,915	16,590
Wyoming	27	25	26	24.0	23.0	23.0	648	575	598
United States	6,371	6,237	6,186	20.1	20.4	20.3	128,048	127,311	125,670

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in 10 corn producing States during 2016. Randomly selected plots in corn for grain fields were visited monthly from August through harvest to obtain specific counts and measurements. Data in this table are rounded actual field counts from this survey.

Corn for Grain Plant Population per Acre – Selected States: 2012-2016

State and month	2012	2013	2014	2015	2016	State and month	2012	2013	2014	2015	2016
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	29,700	30,700	30,900	31,800	31,100	All corn					
October	29,750	(NA)	30,800	31,750	31,100	September	26,150	26,000	26,450	26,650	25,900
November	29,750	30,850	30,700	31,750	31,100	October	26,150	(NA)	26,450	26,750	25,950
Final	29,800	30,850	30,700	31,750	31,100	November	26,150	26,100	26,200	26,700	26,000
						Final	26,150	26,100	26,200	26,700	26,000
Indiana						Irrigated					
September	29,250	30,250	31,200	30,400	30,200	September	29,100	29,150	28,850	29,100	28,200
October	29,200	(NA)	31,000	30,100	29,950	October	29,000	(NA)	28,850	29,300	28,200
November	29,200	30,400	30,850	30,000	29,800	November	29,000	29,300	28,700	29,250	28,300
Final	29,200	30,450	30,850	29,950	29,800	Final	29,000	29,250	28,700	29,250	28,300
Iowa						Non-irrigated					
September	30,150	30,250	30,850	31,500	31,250	September	21,600	21,000	22,650	23,500	22,900
October	30,100	(NA)	30,800	31,450	31,050	October	21,850	(NA)	22,550	23,550	23,000
November	30,100	30,000	30,800	31,450	31,050	November	21,850	21,050	22,250	23,550	23,000
Final	30,100	30,050	30,800	31,450	31,050	Final	21,850	21,050	22,250	23,550	23,000
Kansas						Ohio					
September	23,050	22,900	23,750	23,400	22,550	September	29,200	28,800	29,600	30,000	30,250
October	23,200	(NA)	23,550	23,750	22,550	October	29,100	(NA)	29,700	30,000	30,100
November	23,200	22,850	23,550	23,800	22,550	November	29,100	28,700	29,600	29,950	30,250
Final	23,200	22,850	23,550	23,800	22,550	Final	29,100	28,650	29,600	29,950	30,250
Minnesota						South Dakota					
September	30,000	31,350	31,400	30,650	30,800	September	24,200	25,300	24,550	26,350	26,200
October	30,000	(NA)	31,350	30,750	30,700	October	23,900	(NA)	24,250	26,250	26,100
November	30,000	30,950	31,150	30,750	30,550	November	24,000	25,100	24,150	26,200	26,000
Final	30,000	30,950	31,250	30,750	30,550	Final	24,000	25,100	24,150	26,200	26,000
Missouri						Wisconsin					
September	26,650	27,700	27,650	27,900	27,300	September	29,000	29,050	30,000	29,900	30,100
October	26,550	(NA)	27,400	27,600	27,750	October	28,550	(NA)	29,900	29,700	29,900
November	26,550	27,800	27,500	27,600	27,800	November	28,600	29,150	30,000	29,450	29,800
Final	26,550	27,850	27,500	27,600	27,800	Final	28,600	29,150	30,050	29,450	29,800
						10 State					
						September	28,300	28,750	29,200	29,550	29,050
						October	28,200	(NA)	29,100	29,500	28,950
						November	28,250	28,700	29,000	29,450	28,950
						Final	28,250	28,700	29,050	29,450	28,950

(NA) Not available.

Corn for Grain Number of Ears per Acre – Selected States: 2012-2016

State and month	2012	2013	2014	2015	2016	State and month	2012	2013	2014	2015	2016
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	24,000	29,900	30,300	30,800	30,350	All corn					
October	24,250	(NA)	30,300	30,750	30,450	September ...	24,500	26,050	26,500	26,650	25,700
November	24,250	30,150	30,100	30,800	30,450	October	24,050	(NA)	26,450	26,700	25,350
Final	24,300	30,150	30,100	30,800	30,450	November	24,050	25,700	26,200	26,700	25,400
						Final	24,050	25,700	26,200	26,700	25,400
Indiana						Irrigated					
September	26,500	29,850	30,850	29,550	29,600	September ...	28,600	29,150	28,750	29,000	27,850
October	26,150	(NA)	30,650	29,300	29,400	October	28,300	(NA)	28,900	29,250	27,500
November	26,150	29,750	30,450	29,250	29,250	November	28,300	28,700	28,700	29,200	27,550
Final	26,150	29,850	30,450	29,150	29,250	Final	28,300	28,700	28,700	29,200	27,550
Iowa						Non-irrigated					
September	28,250	29,700	30,350	30,950	30,550	September ...	18,250	21,200	22,900	23,650	22,850
October	28,150	(NA)	30,150	30,800	30,400	October	17,600	(NA)	22,550	23,550	22,550
November	28,150	29,500	30,150	30,850	30,500	November	17,550	20,950	22,250	23,550	22,550
Final	28,150	29,550	30,150	30,850	30,500	Final	17,550	20,950	22,250	23,550	22,550
Kansas						Ohio					
September	20,350	22,500	24,450	23,300	22,650	September	27,700	28,350	29,200	29,650	29,750
October	20,550	(NA)	24,000	23,700	22,450	October	27,150	(NA)	29,700	29,650	29,200
November	20,550	22,200	24,000	23,650	22,450	November	27,100	28,200	29,600	29,600	29,600
Final	20,550	22,200	24,000	23,650	22,450	Final	27,100	28,300	29,600	29,600	29,600
Minnesota						South Dakota					
September	29,450	30,750	31,050	30,500	30,550	September	22,150	25,600	24,850	26,200	25,650
October	29,400	(NA)	31,050	30,400	30,350	October	21,550	(NA)	24,400	25,900	25,350
November	29,400	30,850	30,750	30,450	30,250	November	21,550	25,300	24,450	25,750	25,450
Final	29,400	30,850	30,950	30,450	30,250	Final	21,550	25,300	24,450	25,750	25,450
Missouri						Wisconsin					
September	23,050	26,950	27,800	27,350	26,900	September	27,650	28,900	30,000	29,500	29,300
October	22,900	(NA)	27,950	26,900	27,150	October	27,300	(NA)	29,750	28,950	28,900
November	22,900	27,050	27,900	26,850	27,150	November	27,100	28,900	29,550	28,600	28,750
Final	22,900	27,100	27,900	26,850	27,150	Final	27,150	28,850	29,700	28,600	28,750
						10-State					
						September	25,750	28,350	29,000	29,050	28,550
						October	25,550	(NA)	28,850	28,950	28,350
						November	25,550	28,250	28,750	28,900	28,400
						Final	25,600	28,300	28,750	28,900	28,400

(NA) Not available.

Corn for Grain Percentage Distribution by Plant Population per Acre – Selected States: 2012-2016

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)
Illinois						
2012	1.8	1.4	7.2	18.9	16.7	54.0
2013	0.9	0.5	4.5	9.9	22.1	62.1
2014	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
Indiana						
2012	4.6	2.3	6.9	20.6	16.0	49.6
2013	2.7	2.7	6.3	8.0	26.8	53.5
2014	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
Iowa						
2013	1.2	2.0	3.2	10.9	25.4	57.3
2014	0.9	2.8	4.2	11.7	25.4	55.0
2015	0.8	2.8	1.2	8.3	20.5	66.4
2016	0.4	0.8	2.4	4.9	15.5	76.0
2017	0.4	1.8	2.2	8.9	22.7	64.0
Kansas						
2012	22.9	14.1	17.4	13.0	17.4	15.2
2013	30.6	10.9	12.9	14.9	17.8	12.9
2014	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
Minnesota						
2012	1.3	6.6	4.6	8.6	19.1	59.8
2013	-	1.9	5.6	6.5	17.6	68.4
2014	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
Missouri						
2012	6.7	7.7	15.4	26.0	28.8	15.4
2013	1.8	8.3	14.7	24.8	28.4	22.0
2014	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
Nebraska						
2012	12.9	7.3	13.5	15.2	23.6	27.5
2013	15.9	10.1	10.6	19.0	20.1	24.3
2014	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
Ohio						
2012	2.8	2.8	6.4	21.1	22.0	44.9
2013	3.4	3.4	4.5	25.8	29.2	33.7
2014	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
South Dakota						
2012	17.3	21.4	17.3	20.0	16.0	8.0
2013	11.8	10.5	23.7	27.7	14.5	11.8
2014	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
Wisconsin						
2012	4.4	6.6	7.7	15.4	25.3	40.6
2013	3.4	3.4	8.0	17.2	14.9	53.1
2014	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

- Represents zero.

Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2012-2016

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois2012	5	227	2	1	-
.....2013	10	210	7	2	-
.....2014	8	220	2	1	-
.....2015	11	222	1	1	-
.....2016	6	218	-	1	-
Indiana2012	8	128	4	2	-
.....2013	5	122	1	3	1
.....2014	10	128	4	2	-
.....2015	8	124	3	1	-
.....2016	8	118	1	1	1
Iowa2012	8	238	7	7	-
.....2013	9	214	5	8	-
.....2014	15	234	3	3	1
.....2015	7	241	3	1	-
.....2016	12	213	4	4	-
Kansas2012	4	94	-	-	-
.....2013	2	105	-	-	-
.....2014	9	111	1	-	-
.....2015	2	105	3	-	-
.....2016	8	105	-	-	-
Minnesota2012	33	111	9	3	-
.....2013	35	104	3	1	-
.....2014	26	105	4	3	1
.....2015	29	118	1	-	-
.....2016	27	113	2	-	-
Missouri2012	1	97	4	7	-
.....2013	2	104	3	5	-
.....2014	3	105	2	4	-
.....2015	2	101	2	1	-
.....2016	5	96	1	2	-
Nebraska2012	9	158	37	-	-
.....2013	3	169	29	1	-
.....2014	7	142	38	1	-
.....2015	5	166	18	-	-
.....2016	-	162	23	-	-
Ohio2012	2	106	1	1	-
.....2013	3	107	1	1	-
.....2014	2	107	1	2	-
.....2015	2	110	4	1	2
.....2016	4	105	-	1	-
South Dakota2012	9	84	-	2	-
.....2013	8	82	2	1	-
.....2014	5	81	2	3	1
.....2015	13	78	1	2	-
.....2016	5	71	4	1	2
Wisconsin2012	5	93	5	5	-
.....2013	8	91	4	2	-
.....2014	8	91	2	2	-
.....2015	4	91	3	1	1
.....2016	2	84	2	2	-

- Represents zero.

Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2012-2016

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	2012	222	3.2	86.8	8.6	-	0.5	0.9	29.8
	2013	222	3.6	81.4	12.6	1.4	0.5	0.5	29.9
	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
Indiana	2012	131	0.8	77.0	18.3	0.8	3.1	-	30.4
	2013	112	6.3	70.5	20.5	-	2.7	-	29.7
	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
Iowa	2012	248	2.8	75.1	16.1	2.8	2.0	1.2	30.3
	2013	213	1.4	76.5	16.0	2.8	3.3	-	30.3
	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
Kansas	2012	92	4.3	87.0	7.6	-	1.1	-	29.7
	2013	101	-	81.2	17.8	1.0	-	-	30.2
	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
Minnesota	2012	152	3.3	74.9	13.8	5.3	2.0	0.7	28.9
	2013	108	1.9	81.4	13.9	2.8	-	-	28.6
	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
Missouri	2012	104	1.0	65.3	21.2	4.8	4.8	2.9	31.0
	2013	109	-	82.5	10.1	3.7	2.8	0.9	30.5
	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
Nebraska	2012	178	1.7	56.7	20.8	14.6	5.1	1.1	31.3
	2013	189	1.6	65.1	18.0	7.9	7.4	-	31.0
	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
Ohio	2012	109	1.8	77.1	20.2	-	-	0.9	30.2
	2013	89	1.1	80.9	18.0	-	-	-	30.1
	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
South Dakota	2012	75	1.3	72.1	20.0	-	5.3	1.3	30.3
	2013	76	1.3	86.9	6.6	3.9	1.3	-	29.9
	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
Wisconsin	2012	91	4.4	64.8	19.8	3.3	5.5	2.2	30.4
	2013	87	4.6	64.5	26.4	3.4	1.1	-	30.1
	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

- Represents zero.

Sorghum Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2014-2016

State	Area planted for all purposes			Area harvested for grain		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona ¹	25	24	(NA)	8	4	(NA)
Arkansas	170	450	47	165	440	44
Colorado	345	440	450	280	400	415
Georgia	40	50	20	23	34	10
Illinois	23	38	18	21	34	16
Kansas	2,850	3,400	3,100	2,700	3,200	2,950
Louisiana	100	77	52	96	74	46
Mississippi	110	120	13	105	115	11
Missouri	85	155	65	73	140	54
Nebraska	210	270	200	160	240	175
New Mexico	110	125	110	60	90	85
North Carolina ²	(NA)	(NA)	45	(NA)	(NA)	37
Oklahoma	370	440	400	310	410	370
South Dakota	200	270	270	150	220	200
Texas	2,500	2,600	1,900	2,250	2,450	1,750
United States	7,138	8,459	6,690	6,401	7,851	6,163

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arizona ¹	100.0	92.0	(NA)	800	368	(NA)
Arkansas	97.0	98.0	73.0	16,005	43,120	3,212
Colorado	30.0	55.0	50.0	8,400	22,000	20,750
Georgia	41.0	48.0	54.0	943	1,632	540
Illinois	106.0	94.0	93.0	2,226	3,196	1,488
Kansas	74.0	88.0	91.0	199,800	281,600	268,450
Louisiana	93.0	85.0	102.0	8,928	6,290	4,692
Mississippi	80.0	79.0	89.0	8,400	9,085	979
Missouri	101.0	94.0	95.0	7,373	13,160	5,130
Nebraska	82.0	96.0	102.0	13,120	23,040	17,850
New Mexico	42.0	47.0	41.0	2,520	4,230	3,485
North Carolina ²	(NA)	(NA)	55.0	(NA)	(NA)	2,035
Oklahoma	56.0	52.0	55.0	17,360	21,320	20,350
South Dakota	63.0	83.0	79.0	9,450	18,260	15,800
Texas	61.0	61.0	66.0	137,250	149,450	115,500
United States	67.6	76.0	77.9	432,575	596,751	480,261

(NA) Not available.

¹ Estimates discontinued in 2016.

² Estimates began in 2016.

Sorghum for Silage Area Harvested, Yield, and Production – States and United States: 2014-2016

State	Area harvested			Yield per acre			Production		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (tons)	2015 (tons)	2016 (tons)	2014 (1,000 tons)	2015 (1,000 tons)	2016 (1,000 tons)
Arizona ¹	17	20	(NA)	23.0	22.0	(NA)	391	440	(NA)
Arkansas	2	2	1	17.0	9.0	18.0	34	18	18
Colorado	10	10	10	11.0	14.0	9.0	110	140	90
Georgia	14	12	8	11.0	12.0	10.0	154	144	80
Illinois	1	2	1	18.0	15.0	17.0	18	30	17
Kansas	70	105	95	11.0	15.0	15.5	770	1,575	1,473
Louisiana	1	1	1	13.0	11.0	13.0	13	11	13
Mississippi	2	2	1	12.0	8.0	10.0	24	16	10
Missouri	10	10	9	17.0	19.0	17.0	170	190	153
Nebraska	20	10	10	12.0	12.5	14.0	240	125	140
New Mexico	33	29	18	13.0	12.0	13.0	429	348	234
North Carolina ²	(NA)	(NA)	4	(NA)	(NA)	10.0	(NA)	(NA)	40
Oklahoma	15	15	15	10.0	12.0	10.0	150	180	150
South Dakota	20	18	40	11.0	13.5	13.0	220	243	520
Texas	100	70	85	14.0	14.5	14.5	1,400	1,015	1,233
United States	315	306	298	13.1	14.6	14.0	4,123	4,475	4,171

(NA) Not available.

¹ Estimates discontinued in 2016.

² Estimates began in 2016.

Oat Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted ¹			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	50	55	50	15	20	20
Arkansas	12	11	11	8	8	8
California	120	120	110	10	10	11
Colorado	45	45	55	9	10	10
Georgia	60	65	45	20	25	15
Idaho	70	75	55	15	15	15
Illinois	35	40	45	25	25	20
Indiana ²	20	15	(NA)	10	5	(NA)
Iowa	145	125	120	55	57	43
Kansas	85	95	120	15	40	30
Maine	32	30	25	31	29	24
Michigan	55	75	65	40	50	30
Minnesota	230	280	210	125	160	120
Missouri	25	30	45	13	14	19
Montana	45	50	60	16	22	28
Nebraska	110	135	135	30	40	25
New York	55	70	90	40	40	60
North Carolina	33	35	35	17	16	9
North Dakota	235	275	290	105	140	110
Ohio	50	70	50	35	40	25
Oklahoma	60	40	65	10	7	8
Oregon	30	35	30	18	11	10
Pennsylvania	90	95	85	60	65	50
South Carolina	21	24	17	10	9	7
South Dakota	250	325	295	100	145	110
Texas	450	520	470	45	55	60
Utah ²	20	20	(NA)	3	2	(NA)
Virginia ²	10	12	(NA)	3	4	(NA)
Washington	25	18	18	5	5	7
Wisconsin	255	280	210	140	195	100
Wyoming	30	23	22	7	12	7
United States	2,753	3,088	2,828	1,035	1,276	981

See footnote(s) at end of table.

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**Oat Area Planted and Harvested, Yield, and Production – States and United States:
2014-2016 (continued)**

State	Yield per acre			Production		
	2014 (bushels)	2015 (bushels)	2016 (bushels)	2014 (1,000 bushels)	2015 (1,000 bushels)	2016 (1,000 bushels)
Alabama	65.0	50.0	55.0	975	1,000	1,100
Arkansas	90.0	60.0	73.0	720	480	584
California	100.0	60.0	65.0	1,000	600	715
Colorado	60.0	80.0	80.0	540	800	800
Georgia	54.0	45.0	58.0	1,080	1,125	870
Idaho	82.0	86.0	83.0	1,230	1,290	1,245
Illinois	80.0	77.0	81.0	2,000	1,925	1,620
Indiana ²	74.0	59.0	(NA)	740	295	(NA)
Iowa	64.0	73.0	76.0	3,520	4,161	3,268
Kansas	56.0	65.0	57.0	840	2,600	1,710
Maine	70.0	80.0	71.0	2,170	2,320	1,704
Michigan	69.0	67.0	58.0	2,760	3,350	1,740
Minnesota	63.0	78.0	68.0	7,875	12,480	8,160
Missouri	65.0	65.0	60.0	845	910	1,140
Montana	69.0	53.0	47.0	1,104	1,166	1,316
Nebraska	80.0	67.0	60.0	2,400	2,680	1,500
New York	63.0	58.0	55.0	2,520	2,320	3,300
North Carolina	67.0	66.0	60.0	1,139	1,056	540
North Dakota	73.0	74.0	66.0	7,665	10,360	7,260
Ohio	63.0	63.0	74.0	2,205	2,520	1,850
Oklahoma	38.0	39.0	43.0	380	273	344
Oregon	85.0	88.0	90.0	1,530	968	900
Pennsylvania	58.0	55.0	67.0	3,480	3,575	3,350
South Carolina	62.0	58.0	46.0	620	522	322
South Dakota	93.0	87.0	82.0	9,300	12,615	9,020
Texas	38.0	48.0	50.0	1,710	2,640	3,000
Utah ²	69.0	85.0	(NA)	207	170	(NA)
Virginia ²	78.0	76.0	(NA)	234	304	(NA)
Washington	70.0	54.0	61.0	350	270	427
Wisconsin	62.0	72.0	66.0	8,680	14,040	6,600
Wyoming	59.0	60.0	55.0	413	720	385
United States	67.9	70.2	66.0	70,232	89,535	64,770

(NA) Not available.

¹ Includes area planted in preceding fall.

² Estimates discontinued in 2016.

Barley Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted ¹			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Arizona	36	17	16	32	16	15
California	80	80	80	25	29	55
Colorado	57	65	79	54	63	74
Delaware	41	32	35	31	22	25
Idaho	600	610	600	550	580	580
Kansas ²	16	13	(NA)	10	8	(NA)
Maine ²	13	13	(NA)	12	12	(NA)
Maryland	70	50	50	45	35	34
Michigan ²	9	11	(NA)	8	6	(NA)
Minnesota	75	135	95	60	120	79
Montana	920	990	990	770	860	780
New York ²	12	11	(NA)	8	9	(NA)
North Carolina ²	20	19	(NA)	15	14	(NA)
North Dakota	620	1,120	740	535	1,050	640
Oregon	50	49	45	38	37	32
Pennsylvania	70	55	55	50	40	38
South Dakota ²	28	37	(NA)	17	19	(NA)
Utah	32	27	29	20	16	19
Virginia	56	46	33	28	16	12
Washington	115	115	110	105	105	93
Wisconsin ²	26	28	(NA)	16	15	(NA)
Wyoming	85	100	95	68	86	82
United States	3,031	3,623	3,052	2,497	3,158	2,558

See footnote(s) at end of table.

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**Barley Area Planted and Harvested, Yield, and Production – States and United States:
2014-2016 (continued)**

State	Yield per acre			Production		
	2014 (bushels)	2015 (bushels)	2016 (bushels)	2014 (1,000 bushels)	2015 (1,000 bushels)	2016 (1,000 bushels)
Arizona	125.0	120.0	128.0	4,000	1,920	1,920
California	73.0	55.0	75.0	1,825	1,595	4,125
Colorado	124.0	130.0	129.0	6,696	8,190	9,546
Delaware	86.0	80.0	76.0	2,666	1,760	1,900
Idaho	94.0	97.0	107.0	51,700	56,260	62,060
Kansas ²	35.0	39.0	(NA)	350	312	(NA)
Maine ²	68.0	85.0	(NA)	816	1,020	(NA)
Maryland	77.0	69.0	72.0	3,465	2,415	2,448
Michigan ²	53.0	56.0	(NA)	424	336	(NA)
Minnesota	52.0	77.0	66.0	3,120	9,240	5,214
Montana	58.0	52.0	60.0	44,660	44,720	46,800
New York ²	47.0	45.0	(NA)	376	405	(NA)
North Carolina ²	71.0	72.0	(NA)	1,065	1,008	(NA)
North Dakota	67.0	64.0	67.0	35,845	67,200	42,880
Oregon	50.0	52.0	67.0	1,900	1,924	2,144
Pennsylvania	71.0	65.0	75.0	3,550	2,600	2,850
South Dakota ²	52.0	37.0	(NA)	884	703	(NA)
Utah	83.0	84.0	82.0	1,660	1,344	1,558
Virginia	79.0	75.0	67.0	2,212	1,200	804
Washington	60.0	48.0	77.0	6,300	5,040	7,161
Wisconsin ²	47.0	55.0	(NA)	752	825	(NA)
Wyoming	107.0	95.0	96.0	7,276	8,170	7,872
United States	72.7	69.1	77.9	181,542	218,187	199,282

(NA) Not available.

¹ Includes area planted in preceding fall.

² Estimates discontinued in 2016.

All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted ¹			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Alabama	255	260	230	225	220	170
Arizona	85	160	111	83	152	103
Arkansas	465	350	195	395	240	115
California	530	520	480	220	235	217
Colorado	2,759	2,458	2,361	2,358	2,197	2,200
Delaware	80	70	70	75	65	65
Florida	15	25	25	10	15	17
Georgia	300	215	180	230	145	110
Idaho	1,271	1,220	1,180	1,196	1,155	1,115
Illinois	740	540	520	670	520	470
Indiana	390	290	330	335	260	280
Iowa	26	20	25	15	15	17
Kansas	9,600	9,200	8,500	8,800	8,700	8,200
Kentucky	630	560	510	510	440	400
Louisiana	160	110	25	150	92	20
Maryland	340	355	360	250	270	260
Michigan	550	510	610	470	475	570
Minnesota	1,262	1,532	1,321	1,212	1,473	1,268
Mississippi	230	150	65	215	120	50
Missouri	880	760	690	740	610	570
Montana	5,985	5,620	5,180	5,650	5,365	5,025
Nebraska	1,550	1,490	1,370	1,450	1,210	1,310
Nevada	21	12	15	10	8	9
New Jersey	33	27	25	25	20	21
New Mexico	380	385	340	105	190	205
New York	120	120	120	95	110	115
North Carolina	830	650	420	770	570	355
North Dakota	7,960	7,990	7,590	7,490	7,915	7,410
Ohio	620	520	580	545	480	560
Oklahoma	5,300	5,300	5,000	2,800	3,800	3,500
Oregon	830	835	810	818	828	797
Pennsylvania	185	195	190	150	175	150
South Carolina	230	170	60	220	160	50
South Dakota	2,514	2,756	2,270	2,364	2,236	2,157
Tennessee	530	455	400	475	395	335
Texas	6,000	6,100	5,000	2,250	3,550	2,800
Utah	130	135	129	117	128	120
Virginia	290	260	210	260	210	175
Washington	2,320	2,290	2,240	2,250	2,225	2,200
West Virginia	10	9	7	7	4	4
Wisconsin	295	230	270	250	210	250
Wyoming	140	145	140	125	130	125
United States	56,841	54,999	50,154	46,385	47,318	43,890

See footnote(s) at end of table.

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**All Wheat Area Planted and Harvested, Yield, and Production – States and United States:
2014-2016 (continued)**

State	Yield per acre			Production		
	2014 (bushels)	2015 (bushels)	2016 (bushels)	2014 (1,000 bushels)	2015 (1,000 bushels)	2016 (1,000 bushels)
Alabama	69.0	68.0	70.0	15,525	14,960	11,900
Arizona	110.1	101.0	97.8	9,136	15,356	10,073
Arkansas	63.0	56.0	54.0	24,885	13,440	6,210
California	83.4	79.1	79.7	18,350	18,595	17,302
Colorado	38.1	37.1	48.2	89,812	81,485	106,000
Delaware	72.0	65.0	67.0	5,400	4,225	4,355
Florida	39.0	43.0	30.0	390	645	510
Georgia	49.0	43.0	46.0	11,270	6,235	5,060
Idaho	78.4	77.4	91.3	93,717	89,370	101,855
Illinois	67.0	65.0	74.0	44,890	33,800	34,780
Indiana	76.0	68.0	81.0	25,460	17,680	22,680
Iowa	49.0	52.0	63.0	735	780	1,071
Kansas	28.0	37.0	57.0	246,400	321,900	467,400
Kentucky	71.0	73.0	80.0	36,210	32,120	32,000
Louisiana	62.0	39.0	45.0	9,300	3,588	900
Maryland	70.0	64.0	64.0	17,500	17,280	16,640
Michigan	74.0	81.0	89.0	34,780	38,475	50,730
Minnesota	54.8	59.9	59.0	66,468	88,294	74,828
Mississippi	58.0	48.0	48.0	12,470	5,760	2,400
Missouri	58.0	53.0	70.0	42,920	32,330	39,900
Montana	37.1	35.1	42.3	209,470	188,515	212,675
Nebraska	49.0	38.0	54.0	71,050	45,980	70,740
Nevada	105.0	81.3	72.3	1,050	650	651
New Jersey	53.0	50.0	64.0	1,325	1,000	1,344
New Mexico	28.0	25.0	22.0	2,940	4,750	4,510
New York	63.0	63.0	74.0	5,985	6,930	8,510
North Carolina	58.0	53.0	41.0	44,660	30,210	14,555
North Dakota	46.3	46.7	45.0	347,068	370,023	333,180
Ohio	74.0	67.0	80.0	40,330	32,160	44,800
Oklahoma	17.0	26.0	39.0	47,600	98,800	136,500
Oregon	54.3	47.3	50.1	44,444	39,195	39,937
Pennsylvania	65.0	65.0	68.0	9,750	11,375	10,200
South Carolina	52.0	46.0	43.0	11,440	7,360	2,150
South Dakota	55.5	46.2	51.6	131,260	103,406	111,281
Tennessee	66.0	68.0	73.0	31,350	26,860	24,455
Texas	30.0	30.0	32.0	67,500	106,500	89,600
Utah	50.3	48.5	59.9	5,882	6,207	7,184
Virginia	68.0	66.0	53.0	17,680	13,860	9,275
Washington	48.2	50.3	71.5	108,460	111,900	157,290
West Virginia	64.0	60.0	61.0	448	240	244
Wisconsin	65.0	74.0	79.0	16,250	15,540	19,750
Wyoming	38.0	32.0	34.0	4,750	4,160	4,250
United States	43.7	43.6	52.6	2,026,310	2,061,939	2,309,675

¹ Includes area planted in preceding fall.

Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted ¹			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Alabama	255	260	230	225	220	170
Arizona	8	5	14	7	2	7
Arkansas	465	350	195	395	240	115
California	490	450	425	190	170	170
Colorado	2,750	2,450	2,350	2,350	2,190	2,190
Delaware	80	70	70	75	65	65
Florida	15	25	25	10	15	17
Georgia	300	215	180	230	145	110
Idaho	780	760	760	730	710	710
Illinois	740	540	520	670	520	470
Indiana	390	290	330	335	260	280
Iowa	26	20	25	15	15	17
Kansas	9,600	9,200	8,500	8,800	8,700	8,200
Kentucky	630	560	510	510	440	400
Louisiana	160	110	25	150	92	20
Maryland	340	355	360	250	270	260
Michigan	550	510	610	470	475	570
Minnesota	42	52	11	32	43	8
Mississippi	230	150	65	215	120	50
Missouri	880	760	690	740	610	570
Montana	2,500	2,350	2,250	2,240	2,220	2,150
Nebraska	1,550	1,490	1,370	1,450	1,210	1,310
Nevada	15	8	10	9	6	6
New Jersey	33	27	25	25	20	21
New Mexico	380	385	340	105	190	205
New York	120	120	120	95	110	115
North Carolina	830	650	420	770	570	355
North Dakota	870	200	130	555	190	120
Ohio	620	520	580	545	480	560
Oklahoma	5,300	5,300	5,000	2,800	3,800	3,500
Oregon	750	740	720	740	735	710
Pennsylvania	185	195	190	150	175	150
South Carolina	230	170	60	220	160	50
South Dakota	1,210	1,420	1,180	1,080	970	1,100
Tennessee	530	455	400	475	395	335
Texas	6,000	6,100	5,000	2,250	3,550	2,800
Utah	120	125	120	109	119	112
Virginia	290	260	210	260	210	175
Washington	1,700	1,650	1,700	1,640	1,590	1,670
West Virginia	10	9	7	7	4	4
Wisconsin	295	230	270	250	210	250
Wyoming	140	145	140	125	130	125
United States	42,409	39,681	36,137	32,299	32,346	30,222

See footnote(s) at end of table.

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**Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States:
2014-2016 (continued)**

State	Yield per acre			Production		
	2014 (bushels)	2015 (bushels)	2016 (bushels)	2014 (1,000 bushels)	2015 (1,000 bushels)	2016 (1,000 bushels)
Alabama	69.0	68.0	70.0	15,525	14,960	11,900
Arizona	100.0	103.0	95.0	700	206	665
Arkansas	63.0	56.0	54.0	24,885	13,440	6,210
California	80.0	70.0	78.0	15,200	11,900	13,260
Colorado	38.0	37.0	48.0	89,300	81,030	105,120
Delaware	72.0	65.0	67.0	5,400	4,225	4,355
Florida	39.0	43.0	30.0	390	645	510
Georgia	49.0	43.0	46.0	11,270	6,235	5,060
Idaho	80.0	82.0	94.0	58,400	58,220	66,740
Illinois	67.0	65.0	74.0	44,890	33,800	34,780
Indiana	76.0	68.0	81.0	25,460	17,680	22,680
Iowa	49.0	52.0	63.0	735	780	1,071
Kansas	28.0	37.0	57.0	246,400	321,900	467,400
Kentucky	71.0	73.0	80.0	36,210	32,120	32,000
Louisiana	62.0	39.0	45.0	9,300	3,588	900
Maryland	70.0	64.0	64.0	17,500	17,280	16,640
Michigan	74.0	81.0	89.0	34,780	38,475	50,730
Minnesota	49.0	58.0	61.0	1,568	2,494	488
Mississippi	58.0	48.0	48.0	12,470	5,760	2,400
Missouri	58.0	53.0	70.0	42,920	32,330	39,900
Montana	41.0	41.0	49.0	91,840	91,020	105,350
Nebraska	49.0	38.0	54.0	71,050	45,980	70,740
Nevada	110.0	90.0	75.0	990	540	450
New Jersey	53.0	50.0	64.0	1,325	1,000	1,344
New Mexico	28.0	25.0	22.0	2,940	4,750	4,510
New York	63.0	63.0	74.0	5,985	6,930	8,510
North Carolina	58.0	53.0	41.0	44,660	30,210	14,555
North Dakota	49.0	44.0	48.0	27,195	8,360	5,760
Ohio	74.0	67.0	80.0	40,330	32,160	44,800
Oklahoma	17.0	26.0	39.0	47,600	98,800	136,500
Oregon	55.0	47.0	50.0	40,700	34,545	35,500
Pennsylvania	65.0	65.0	68.0	9,750	11,375	10,200
South Carolina	52.0	46.0	43.0	11,440	7,360	2,150
South Dakota	55.0	44.0	58.0	59,400	42,680	63,800
Tennessee	66.0	68.0	73.0	31,350	26,860	24,455
Texas	30.0	30.0	32.0	67,500	106,500	89,600
Utah	50.0	48.0	60.0	5,450	5,712	6,720
Virginia	68.0	66.0	53.0	17,680	13,860	9,275
Washington	52.0	56.0	78.0	85,280	89,040	130,260
West Virginia	64.0	60.0	61.0	448	240	244
Wisconsin	65.0	74.0	79.0	16,250	15,540	19,750
Wyoming	38.0	32.0	34.0	4,750	4,160	4,250
United States	42.6	42.5	55.3	1,377,216	1,374,690	1,671,532

¹ Includes area planted in preceding fall.

Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado	9	8	11	8	7	10
Idaho	480	450	410	455	435	395
Minnesota	1,220	1,480	1,310	1,180	1,430	1,260
Montana	3,050	2,650	2,150	2,980	2,540	2,110
Nevada	6	4	5	1	2	3
North Dakota	6,250	6,700	6,000	6,140	6,650	5,850
Oregon	80	95	90	78	93	87
South Dakota	1,300	1,330	1,080	1,280	1,260	1,050
Utah	10	10	9	8	9	8
Washington	620	640	540	610	635	530
United States	13,025	13,367	11,605	12,740	13,061	11,303

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	64.0	65.0	88.0	512	455	880
Idaho	76.0	70.0	87.0	34,580	30,450	34,365
Minnesota	55.0	60.0	59.0	64,900	85,800	74,340
Montana	35.0	31.0	36.0	104,300	78,740	75,960
Nevada	60.0	55.0	67.0	60	110	201
North Dakota	47.5	48.0	46.0	291,650	319,200	269,100
Oregon	48.0	50.0	51.0	3,744	4,650	4,437
South Dakota	56.0	48.0	45.0	71,680	60,480	47,250
Utah	54.0	55.0	58.0	432	495	464
Washington	38.0	36.0	51.0	23,180	22,860	27,030
United States	46.7	46.2	47.2	595,038	603,240	534,027

Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona	77	155	97	76	150	96
California	40	70	55	30	65	47
Idaho	11	10	10	11	10	10
Montana	435	620	780	430	605	765
North Dakota	840	1,090	1,460	795	1,075	1,440
South Dakota	4	6	10	4	6	7
United States	1,407	1,951	2,412	1,346	1,911	2,365

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arizona	111.0	101.0	98.0	8,436	15,150	9,408
California	105.0	103.0	86.0	3,150	6,695	4,042
Idaho	67.0	70.0	75.0	737	700	750
Montana	31.0	31.0	41.0	13,330	18,755	31,365
North Dakota	35.5	39.5	40.5	28,223	42,463	58,320
South Dakota	45.0	41.0	33.0	180	246	231
United States	40.2	44.0	44.0	54,056	84,009	104,116

Wheat Production by Class – United States: 2014-2016

[Wheat class estimates are based on the latest available data including both surveys and administrative data]

Crop	2014	2015	2016
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Winter			
Hard red	738,650	830,446	1,081,690
Soft red	454,531	359,054	345,230
Hard white	11,546	16,109	25,476
Soft white	172,489	169,081	219,136
Spring			
Hard red	555,543	567,637	493,125
Hard white	8,943	5,649	7,539
Soft white	30,552	29,954	33,363
Durum	54,056	84,009	104,116
Total	2,026,310	2,061,939	2,309,675

Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2014-2016

Class and State	Area planted			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Long grain						
Arkansas	1,270	1,065	1,410	1,265	1,050	1,390
California	4	7	9	4	7	9
Louisiana	396	355	413	393	351	405
Mississippi	190	150	195	189	149	194
Missouri	210	175	230	207	167	225
Texas	141	127	185	138	124	180
United States	2,211	1,879	2,442	2,196	1,848	2,403
Medium grain						
Arkansas	215	245	135	214	240	130
California	405	385	490	402	382	485
Louisiana	70	65	24	69	64	23
Mississippi	1	-	-	1	-	-
Missouri	6	7	6	6	7	6
Texas	9	6	10	8	6	7
United States	706	708	665	700	699	651
Short grain ¹						
Arkansas	1	1	1	1	1	1
California	36	37	42	36	37	42
United States	37	38	43	37	38	43
All rice						
Arkansas	1,486	1,311	1,546	1,480	1,291	1,521
California	445	429	541	442	426	536
Louisiana	466	420	437	462	415	428
Mississippi	191	150	195	190	149	194
Missouri	216	182	236	213	174	231
Texas	150	133	195	146	130	187
United States	2,954	2,625	3,150	2,933	2,585	3,097

See footnote(s) at end of table.

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**Rice Area Planted and Harvested, Yield, and Production by Class – States and United States:
2014-2016 (continued)**

Class and State	Yield per acre			Production		
	2014 (pounds)	2015 (pounds)	2016 (pounds)	2014 (1,000 cwt)	2015 (1,000 cwt)	2016 (1,000 cwt)
Long grain						
Arkansas	7,570	7,380	6,940	95,761	77,490	96,466
California	7,300	6,700	7,300	292	469	657
Louisiana	7,150	6,990	6,660	28,100	24,535	26,973
Mississippi	7,420	7,110	7,180	14,024	10,594	13,929
Missouri	6,830	7,040	6,640	14,138	11,757	14,940
Texas	7,500	6,900	7,500	10,350	8,556	13,500
United States	7,407	7,219	6,927	162,665	133,401	166,465
Medium grain						
Arkansas	7,540	7,150	6,760	16,136	17,160	8,788
California	8,800	9,100	9,000	35,376	34,762	43,650
Louisiana	7,020	6,650	6,160	4,844	4,256	1,417
Mississippi	7,200	-	-	72	-	-
Missouri	6,700	6,500	6,860	402	455	412
Texas	4,900	6,800	3,800	392	408	266
United States	8,175	8,160	8,377	57,222	57,041	54,533
Short grain ¹						
Arkansas	6,000	6,000	6,000	60	60	60
California	6,300	7,150	7,350	2,268	2,646	3,087
United States	6,292	7,121	7,319	2,328	2,706	3,147
All						
Arkansas	7,560	7,340	6,920	111,957	94,710	105,314
California	8,580	8,890	8,840	37,936	37,877	47,394
Louisiana	7,130	6,940	6,630	32,944	28,791	28,390
Mississippi	7,420	7,110	7,180	14,096	10,594	13,929
Missouri	6,830	7,020	6,650	14,540	12,212	15,352
Texas	7,360	6,900	7,360	10,742	8,964	13,766
United States	7,576	7,472	7,237	222,215	193,148	224,145

- Represents zero.

¹ Sweet rice acreage, yield, and production included with short grain.

Rye Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted ¹			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Georgia	170	210	200	20	30	30
Oklahoma	240	250	260	55	85	75
Other States ²	1,024	1,124	1,431	183	250	309
United States	1,434	1,584	1,891	258	365	414
State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Georgia	27.0	14.0	21.0	540	420	630
Oklahoma	9.0	24.0	25.0	495	2,040	1,875
Other States ²	33.6	36.6	35.4	6,154	9,156	10,946
United States	27.9	31.8	32.5	7,189	11,616	13,451

¹ Includes area planted in preceding fall.

² For 2015, Other States include: Illinois, Kansas, Michigan, Minnesota, Nebraska, New York, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, and Wisconsin. For 2016, Other States include: Illinois, Kansas, Maine, Maryland, Michigan, Minnesota, Nebraska, New Jersey, New York, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, Virginia, and Wisconsin.

Proso Millet Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado	310	270	300	250	260	285
Nebraska	120	105	95	111	97	88
South Dakota	75	70	48	69	61	40
United States	505	445	443	430	418	413
State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	32.5	34.5	27.5	8,125	8,970	7,838
Nebraska	29.0	34.0	35.0	3,219	3,298	3,080
South Dakota	31.0	31.0	41.0	2,139	1,891	1,640
United States	31.4	33.9	30.4	13,483	14,159	12,558

All Hay Area Harvested, Yield, and Production – States and United States: 2014-2016

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama	750	730	810	2.80	2.80	2.10
Arizona	300	335	315	8.03	7.99	8.18
Arkansas	1,225	1,125	1,204	2.01	2.00	2.00
California	1,345	1,190	1,200	5.59	5.79	5.48
Colorado	1,340	1,450	1,380	2.66	2.96	2.59
Connecticut	53	53	45	1.92	1.89	1.93
Delaware	13	14	17	2.62	3.14	3.06
Florida	320	290	300	2.60	2.80	2.70
Georgia	580	570	600	2.60	2.50	2.30
Idaho	1,390	1,330	1,330	3.51	3.65	3.85
Illinois	520	490	480	3.38	3.13	3.12
Indiana	600	560	500	3.25	2.96	3.56
Iowa	1,155	1,160	910	3.18	3.40	3.53
Kansas	2,300	2,450	2,600	2.17	2.40	2.40
Kentucky	2,265	2,370	2,250	2.10	2.40	2.48
Louisiana	470	430	380	2.70	2.50	2.90
Maine	150	135	140	1.55	2.02	1.88
Maryland	195	215	215	2.65	2.47	2.68
Massachusetts	75	92	92	1.72	1.73	1.57
Michigan	980	970	870	2.62	2.68	2.71
Minnesota	1,910	1,570	1,520	2.35	2.53	2.92
Mississippi	600	680	640	2.60	2.30	2.20
Missouri	3,480	2,960	2,830	2.04	2.16	2.14
Montana	2,730	2,500	2,650	1.97	1.87	1.94
Nebraska	2,580	2,700	2,450	2.34	2.36	2.35
Nevada	430	320	330	3.29	3.44	3.34
New Hampshire	54	48	53	1.74	2.04	1.96
New Jersey	106	102	114	2.46	1.76	1.88
New Mexico	305	280	275	3.93	3.90	3.71
New York	1,370	1,230	1,360	1.97	1.99	1.68
North Carolina	830	777	687	2.40	2.40	2.31
North Dakota	2,700	2,750	2,500	2.02	1.81	1.72
Ohio	960	1,080	970	2.82	2.34	2.54
Oklahoma	3,590	3,020	3,010	1.71	1.96	1.94
Oregon	1,030	1,060	1,130	3.08	2.90	3.44
Pennsylvania	1,400	1,290	1,350	2.28	2.33	2.33
Rhode Island	7	6	7	1.71	2.33	1.29
South Carolina	270	300	320	2.30	2.00	2.10
South Dakota	3,250	3,400	3,100	2.05	1.94	1.77
Tennessee	1,766	1,765	1,815	2.20	2.21	2.16
Texas	5,440	4,730	4,830	2.16	2.05	2.58
Utah	680	670	700	3.52	3.67	3.71
Vermont	185	145	190	1.68	1.94	1.91
Virginia	1,175	1,175	1,215	2.28	2.25	2.34
Washington	870	750	840	3.72	3.81	3.98
West Virginia	618	590	587	1.83	1.75	1.84
Wisconsin	1,640	1,510	1,330	2.97	2.70	2.95
Wyoming	1,060	1,080	1,020	2.12	2.14	2.24
United States	57,062	54,447	53,461	2.45	2.47	2.52

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All Hay Area Harvested, Yield, and Production – States and United States: 2014-2016 (continued)

State	Production		
	2014 (1,000 tons)	2015 (1,000 tons)	2016 (1,000 tons)
Alabama	2,100	2,044	1,701
Arizona	2,410	2,678	2,576
Arkansas	2,458	2,254	2,414
California	7,513	6,891	6,576
Colorado	3,566	4,295	3,570
Connecticut	102	100	87
Delaware	34	44	52
Florida	832	812	810
Georgia	1,508	1,425	1,380
Idaho	4,881	4,860	5,126
Illinois	1,755	1,533	1,497
Indiana	1,950	1,656	1,781
Iowa	3,675	3,939	3,210
Kansas	5,000	5,890	6,240
Kentucky	4,761	5,689	5,580
Louisiana	1,269	1,075	1,102
Maine	233	273	263
Maryland	517	532	576
Massachusetts	129	159	144
Michigan	2,570	2,604	2,357
Minnesota	4,486	3,979	4,440
Mississippi	1,560	1,564	1,408
Missouri	7,100	6,398	6,066
Montana	5,381	4,680	5,130
Nebraska	6,028	6,360	5,748
Nevada	1,416	1,100	1,102
New Hampshire	94	98	104
New Jersey	261	180	214
New Mexico	1,198	1,091	1,019
New York	2,698	2,449	2,285
North Carolina	1,996	1,868	1,587
North Dakota	5,460	4,975	4,305
Ohio	2,710	2,532	2,466
Oklahoma	6,121	5,914	5,838
Oregon	3,172	3,072	3,891
Pennsylvania	3,185	3,010	3,150
Rhode Island	12	14	9
South Carolina	621	600	672
South Dakota	6,665	6,580	5,500
Tennessee	3,893	3,901	3,924
Texas	11,746	9,720	12,439
Utah	2,396	2,459	2,600
Vermont	311	281	363
Virginia	2,675	2,645	2,847
Washington	3,234	2,856	3,343
West Virginia	1,132	1,035	1,079
Wisconsin	4,866	4,073	3,926
Wyoming	2,243	2,315	2,284
United States	139,923	134,502	134,781

Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2014-2016

State	Area harvested			Yield per acre		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (tons)	2015 (tons)	2016 (tons)
Arizona	260	300	280	8.50	8.40	8.60
Arkansas	5	5	4	3.60	2.70	3.60
California	825	790	720	6.90	6.90	7.00
Colorado	740	700	680	3.40	4.10	3.50
Connecticut	8	7	5	2.00	1.80	2.10
Delaware	4	4	5	2.70	2.70	2.80
Idaho	1,090	1,000	1,000	3.90	4.20	4.40
Illinois	270	230	230	4.00	3.50	3.90
Indiana	240	230	210	4.00	3.90	4.20
Iowa	810	770	550	3.60	3.90	4.20
Kansas	600	650	700	3.80	3.80	4.30
Kentucky	165	170	150	3.40	3.70	3.60
Maine	10	10	10	2.30	2.30	2.20
Maryland	35	35	35	3.80	4.40	4.10
Massachusetts	10	9	7	1.80	2.00	2.30
Michigan	640	660	640	2.90	3.10	3.00
Minnesota	1,100	1,050	1,000	2.90	2.70	3.40
Missouri	280	260	230	2.50	2.80	3.20
Montana	1,850	1,700	1,800	2.10	2.00	2.00
Nebraska	830	850	750	4.10	4.00	4.15
Nevada	280	200	190	4.20	4.30	4.40
New Hampshire	4	3	3	2.30	2.50	1.40
New Jersey	14	12	11	3.50	3.00	3.50
New Mexico	210	190	190	4.80	4.70	4.60
New York	290	280	350	2.60	2.30	2.20
North Carolina	10	7	7	2.80	2.80	3.30
North Dakota	1,650	1,500	1,400	2.10	1.90	1.70
Ohio	310	330	330	3.50	2.90	3.40
Oklahoma	290	220	210	2.90	2.70	3.80
Oregon	350	370	420	4.40	4.20	4.70
Pennsylvania	350	430	350	2.80	2.60	3.00
Rhode Island	1	1	1	2.50	2.00	1.10
South Dakota	1,900	1,900	1,700	2.30	2.20	2.00
Tennessee	16	15	15	2.70	3.40	3.60
Texas	140	130	130	4.40	4.00	5.30
Utah	520	510	530	3.90	4.10	4.20
Vermont	35	35	30	1.60	3.00	2.50
Virginia	75	75	65	3.40	3.00	3.10
Washington	420	390	430	4.70	5.20	5.20
West Virginia	18	20	17	2.90	3.30	3.10
Wisconsin	1,250	1,200	1,000	3.30	2.80	3.20
Wyoming	490	530	500	2.60	2.50	2.80
United States	18,395	17,778	16,885	3.34	3.32	3.45

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Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2014-2016 (continued)

State	Production		
	2014 (1,000 tons)	2015 (1,000 tons)	2016 (1,000 tons)
Arizona	2,210	2,520	2,408
Arkansas	18	14	14
California	5,693	5,451	5,040
Colorado	2,516	2,870	2,380
Connecticut	16	13	11
Delaware	11	11	14
Idaho	4,251	4,200	4,400
Illinois	1,080	805	897
Indiana	960	897	882
Iowa	2,916	3,003	2,310
Kansas	2,280	2,470	3,010
Kentucky	561	629	540
Maine	23	23	22
Maryland	133	154	144
Massachusetts	18	18	16
Michigan	1,856	2,046	1,920
Minnesota	3,190	2,835	3,400
Missouri	700	728	736
Montana	3,885	3,400	3,600
Nebraska	3,403	3,400	3,113
Nevada	1,176	860	836
New Hampshire	9	8	4
New Jersey	49	36	39
New Mexico	1,008	893	874
New York	754	644	770
North Carolina	28	20	23
North Dakota	3,465	2,850	2,380
Ohio	1,085	957	1,122
Oklahoma	841	594	798
Oregon	1,540	1,554	1,974
Pennsylvania	980	1,118	1,050
Rhode Island	3	2	1
South Dakota	4,370	4,180	3,400
Tennessee	43	51	54
Texas	616	520	689
Utah	2,028	2,091	2,226
Vermont	56	105	75
Virginia	255	225	202
Washington	1,974	2,028	2,236
West Virginia	52	66	53
Wisconsin	4,125	3,360	3,200
Wyoming	1,274	1,325	1,400
United States	61,451	58,974	58,263

All Other Hay Area Harvested, Yield, and Production – States and United States: 2014-2016

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama ¹	750	730	810	2.80	2.80	2.10
Arizona	40	35	35	5.00	4.50	4.80
Arkansas	1,220	1,120	1,200	2.00	2.00	2.00
California	520	400	480	3.50	3.60	3.20
Colorado	600	750	700	1.75	1.90	1.70
Connecticut	45	46	40	1.90	1.90	1.90
Delaware	9	10	12	2.50	3.30	3.20
Florida ¹	320	290	300	2.60	2.80	2.70
Georgia ¹	580	570	600	2.60	2.50	2.30
Idaho	300	330	330	2.10	2.00	2.20
Illinois	250	260	250	2.70	2.80	2.40
Indiana	360	330	290	2.75	2.30	3.10
Iowa	345	390	360	2.20	2.40	2.50
Kansas	1,700	1,800	1,900	1.60	1.90	1.70
Kentucky	2,100	2,200	2,100	2.00	2.30	2.40
Louisiana ¹	470	430	380	2.70	2.50	2.90
Maine	140	125	130	1.50	2.00	1.85
Maryland	160	180	180	2.40	2.10	2.40
Massachusetts	65	83	85	1.70	1.70	1.50
Michigan	340	310	230	2.10	1.80	1.90
Minnesota	810	520	520	1.60	2.20	2.00
Mississippi ¹	600	680	640	2.60	2.30	2.20
Missouri	3,200	2,700	2,600	2.00	2.10	2.05
Montana	880	800	850	1.70	1.60	1.80
Nebraska	1,750	1,850	1,700	1.50	1.60	1.55
Nevada	150	120	140	1.60	2.00	1.90
New Hampshire	50	45	50	1.70	2.00	2.00
New Jersey	92	90	103	2.30	1.60	1.70
New Mexico	95	90	85	2.00	2.20	1.70
New York	1,080	950	1,010	1.80	1.90	1.50
North Carolina	820	770	680	2.40	2.40	2.30
North Dakota	1,050	1,250	1,100	1.90	1.70	1.75
Ohio	650	750	640	2.50	2.10	2.10
Oklahoma	3,300	2,800	2,800	1.60	1.90	1.80
Oregon	680	690	710	2.40	2.20	2.70
Pennsylvania	1,050	860	1,000	2.10	2.20	2.10
Rhode Island	6	5	6	1.50	2.30	1.30
South Carolina ¹	270	300	320	2.30	2.00	2.10
South Dakota	1,350	1,500	1,400	1.70	1.60	1.50
Tennessee	1,750	1,750	1,800	2.20	2.20	2.15
Texas	5,300	4,600	4,700	2.10	2.00	2.50
Utah	160	160	170	2.30	2.30	2.20
Vermont	150	110	160	1.70	1.60	1.80
Virginia	1,100	1,100	1,150	2.20	2.20	2.30
Washington	450	360	410	2.80	2.30	2.70
West Virginia	600	570	570	1.80	1.70	1.80
Wisconsin	390	310	330	1.90	2.30	2.20
Wyoming	570	550	520	1.70	1.80	1.70
United States	38,667	36,669	36,576	2.03	2.06	2.09

See footnote(s) at end of table.

--continued

All Other Hay Area Harvested, Yield, and Production – States and United States: 2014-2016 (continued)

State	Production		
	2014 (1,000 tons)	2015 (1,000 tons)	2016 (1,000 tons)
Alabama ¹	2,100	2,044	1,701
Arizona	200	158	168
Arkansas	2,440	2,240	2,400
California	1,820	1,440	1,536
Colorado	1,050	1,425	1,190
Connecticut	86	87	76
Delaware	23	33	38
Florida ¹	832	812	810
Georgia ¹	1,508	1,425	1,380
Idaho	630	660	726
Illinois	675	728	600
Indiana	990	759	899
Iowa	759	936	900
Kansas	2,720	3,420	3,230
Kentucky	4,200	5,060	5,040
Louisiana ¹	1,269	1,075	1,102
Maine	210	250	241
Maryland	384	378	432
Massachusetts	111	141	128
Michigan	714	558	437
Minnesota	1,296	1,144	1,040
Mississippi ¹	1,560	1,564	1,408
Missouri	6,400	5,670	5,330
Montana	1,496	1,280	1,530
Nebraska	2,625	2,960	2,635
Nevada	240	240	266
New Hampshire	85	90	100
New Jersey	212	144	175
New Mexico	190	198	145
New York	1,944	1,805	1,515
North Carolina	1,968	1,848	1,564
North Dakota	1,995	2,125	1,925
Ohio	1,625	1,575	1,344
Oklahoma	5,280	5,320	5,040
Oregon	1,632	1,518	1,917
Pennsylvania	2,205	1,892	2,100
Rhode Island	9	12	8
South Carolina ¹	621	600	672
South Dakota	2,295	2,400	2,100
Tennessee	3,850	3,850	3,870
Texas	11,130	9,200	11,750
Utah	368	368	374
Vermont	255	176	288
Virginia	2,420	2,420	2,645
Washington	1,260	828	1,107
West Virginia	1,080	969	1,026
Wisconsin	741	713	726
Wyoming	969	990	884
United States	78,472	75,528	76,518

¹ Alfalfa and alfalfa mixtures included in all other hay.

Forage Production

Forage production is the sum of all dry hay production and haylage/greenchop production after converting the haylage/greenchop production to a dry equivalent basis (13 percent moisture) by multiplying the green weight (weight at harvest) by 0.4943. The conversion factor (0.4943) is based on the assumption that one ton of dry hay is 0.87 ton of dry matter, one ton of haylage is 0.45 ton dry matter and one ton of greenchop is 0.25 ton dry matter. The total haylage/greenchop production is assumed to be comprised of 90 percent haylage and 10 percent greenchop. Therefore, the conversion factor used to adjust haylage/greenchop production to a dry equivalent basis = $((0.45*0.9)+(0.25*0.1))/0.87 = 0.4943$. The factors assumed here may vary by State and can be adjusted. Adjustments would result in a slightly different conversion factor.

All Forage Area Harvested, Yield, and Production – States and 18 State Total: 2014-2016

[All forage production is the sum of the following dry equivalents: alfalfa hay harvested as dry hay, all other hay harvested as dry hay, alfalfa haylage and greenchop, all other haylage and greenchop; after converting alfalfa and all other haylage and greenchop to a dry equivalent basis]

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	1,530	1,385	1,420	5.89	5.92	5.52
Idaho	1,460	1,400	1,385	3.78	3.88	4.26
Illinois	540	510	500	3.54	3.29	3.28
Iowa	1,220	1,240	1,010	3.39	3.52	3.71
Kansas	2,420	2,540	2,700	2.24	2.48	2.47
Michigan	1,210	1,210	1,080	3.07	3.17	3.26
Minnesota	2,210	1,890	1,835	2.56	2.81	3.19
Missouri	3,540	3,040	2,920	2.07	2.19	2.17
Nebraska	2,610	2,720	2,475	2.37	2.38	2.38
New Mexico ¹	330	305	(NA)	4.00	4.00	(NA)
New York	1,830	1,720	1,850	2.58	2.53	2.25
Ohio	1,030	1,180	1,050	2.96	2.56	2.64
Pennsylvania	1,720	1,620	1,720	2.65	2.71	2.68
South Dakota	3,280	3,450	3,160	2.09	1.98	1.82
Texas	5,545	4,836	4,936	2.20	2.14	2.62
Vermont	290	270	310	2.59	3.17	2.70
Washington	930	840	870	3.88	4.08	4.23
Wisconsin	2,700	2,600	2,400	3.54	3.45	3.59
18 State total	34,395	32,756	31,621	2.78	2.80	2.87

State	Production		
	2014	2015	2016
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	9,008	8,200	7,839
Idaho	5,524	5,429	5,905
Illinois	1,909	1,680	1,640
Iowa	4,135	4,370	3,750
Kansas	5,413	6,293	6,656
Michigan	3,719	3,835	3,518
Minnesota	5,657	5,309	5,852
Missouri	7,319	6,651	6,342
Nebraska	6,192	6,483	5,880
New Mexico ¹	1,320	1,220	(NA)
New York	4,728	4,346	4,165
Ohio	3,044	3,018	2,768
Pennsylvania	4,562	4,393	4,613
South Dakota	6,859	6,835	5,740
Texas	12,178	10,334	12,945
Vermont	751	856	838
Washington	3,609	3,427	3,679
Wisconsin	9,570	8,967	8,607
18 State total	95,497	91,646	90,737

(NA) Not available.

¹ Estimates discontinued in 2016.

All Alfalfa Forage Area Harvested, Yield, and Production – States and 18 State Total: 2014-2016

[All alfalfa forage production is the sum of alfalfa harvested as dry hay and alfalfa haylage and greenchop production after converting it to a dry equivalent basis]

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	850	815	800	7.01	6.96	6.68
Idaho	1,120	1,030	1,030	4.20	4.45	4.90
Illinois	290	250	240	4.17	3.76	4.22
Iowa	860	810	620	3.85	4.06	4.38
Kansas	650	700	720	3.72	3.78	4.35
Michigan	850	890	830	3.48	3.62	3.64
Minnesota	1,360	1,350	1,285	3.12	3.04	3.67
Missouri	290	290	240	2.58	2.89	3.31
Nebraska	850	860	760	4.12	4.03	4.18
New Mexico ¹	215	190	(NA)	4.87	4.78	(NA)
New York	500	530	650	3.83	3.63	3.16
Ohio	350	400	390	3.71	3.37	3.53
Pennsylvania	560	660	540	3.52	3.27	3.71
South Dakota	1,910	1,930	1,740	2.32	2.23	2.05
Texas	145	136	136	4.41	3.98	5.24
Vermont	70	60	50	3.27	3.73	5.06
Washington	430	425	440	4.80	5.16	5.33
Wisconsin	2,200	2,150	1,950	3.84	3.57	3.80
18 State total	13,500	13,476	12,421	3.79	3.71	3.92

State	Production		
	2014	2015	2016
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	5,960	5,676	5,346
Idaho	4,706	4,581	5,043
Illinois	1,210	939	1,012
Iowa	3,314	3,292	2,714
Kansas	2,421	2,648	3,129
Michigan	2,961	3,220	3,020
Minnesota	4,249	4,098	4,715
Missouri	749	839	795
Nebraska	3,498	3,467	3,177
New Mexico ¹	1,048	908	(NA)
New York	1,914	1,925	2,055
Ohio	1,300	1,347	1,376
Pennsylvania	1,969	2,160	2,002
South Dakota	4,431	4,309	3,566
Texas	640	541	713
Vermont	229	224	253
Washington	2,064	2,191	2,345
Wisconsin	8,455	7,685	7,406
18 State total	51,118	50,050	48,667

(NA) Not available.

¹ Estimates discontinued in 2016.

All Other Forage Area Harvested, Yield, and Production – States and 18 State Total: 2014-2016

[All other forage production is the sum of other harvested as dry hay and other haylage and greenchop production after converting it to a dry equivalent basis]

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	680	570	620	4.48	4.43	4.02
Idaho	340	370	355	2.41	2.29	2.43
Illinois	250	260	260	2.80	2.85	2.42
Iowa	360	430	390	2.28	2.51	2.66
Kansas	1,770	1,840	1,980	1.69	1.98	1.78
Michigan	360	320	250	2.11	1.92	1.99
Minnesota	850	540	550	1.66	2.24	2.07
Missouri	3,250	2,750	2,680	2.02	2.11	2.07
Nebraska	1,760	1,860	1,715	1.53	1.62	1.58
New Mexico ¹	115	115	(NA)	2.37	2.71	(NA)
New York	1,330	1,190	1,200	2.12	2.03	1.76
Ohio	680	780	660	2.56	2.14	2.11
Pennsylvania	1,160	960	1,180	2.24	2.33	2.21
South Dakota	1,370	1,520	1,420	1.77	1.66	1.53
Texas	5,400	4,700	4,800	2.14	2.08	2.55
Vermont	220	210	260	2.37	3.01	2.25
Washington	500	415	430	3.09	2.98	3.10
Wisconsin	500	450	450	2.23	2.85	2.67
18 State total	20,895	19,280	19,200	2.12	2.16	2.19

State	Production		
	2014	2015	2016
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	3,048	2,524	2,493
Idaho	818	848	862
Illinois	699	741	628
Iowa	821	1,078	1,036
Kansas	2,992	3,645	3,527
Michigan	758	615	498
Minnesota	1,408	1,211	1,137
Missouri	6,570	5,812	5,547
Nebraska	2,694	3,016	2,703
New Mexico ¹	272	312	(NA)
New York	2,814	2,421	2,110
Ohio	1,744	1,671	1,392
Pennsylvania	2,593	2,233	2,611
South Dakota	2,428	2,526	2,174
Texas	11,538	9,793	12,232
Vermont	522	632	585
Washington	1,545	1,236	1,334
Wisconsin	1,115	1,282	1,201
18 State total	44,379	41,596	42,070

(NA) Not available.

¹ Estimates discontinued in 2016.

All Haylage and Greenchop Area Harvested, Yield, and Production – States and 18 State

Total: 2014-2016

[Includes all types of forage harvested as haylage or greenchop (green weight). Forage harvested as dry hay and corn and sorghum silage/greenchop are not included]

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	240	240	260	12.60	11.03	9.83
Idaho	120	110	125	10.83	10.45	12.60
Illinois	49	40	40	6.39	7.45	7.25
Iowa	155	135	135	6.01	6.47	8.10
Kansas	165	130	130	5.07	6.27	6.46
Michigan	290	295	285	8.02	8.44	8.24
Minnesota	370	380	390	6.40	7.08	7.32
Missouri	90	125	130	4.92	4.10	4.31
Nebraska	55	55	45	6.05	4.51	5.96
New Mexico ¹	32	33	(NA)	7.66	7.91	(NA)
New York	660	650	680	6.22	5.91	5.59
Ohio	133	139	125	5.07	7.09	4.89
Pennsylvania	450	435	470	6.19	6.43	6.30
South Dakota	60	80	75	6.55	6.44	6.47
Texas	157	256	137	5.57	4.85	7.47
Vermont	140	170	160	6.36	6.84	6.00
Washington	103	130	67	7.36	8.88	10.13
Wisconsin	1,335	1,430	1,310	7.13	6.92	7.23
18 State total	4,604	4,833	4,564	6.98	6.95	7.09

State	Production		
	2014	2015	2016
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	3,025	2,648	2,556
Idaho	1,300	1,150	1,575
Illinois	313	298	290
Iowa	931	873	1,093
Kansas	836	815	840
Michigan	2,326	2,491	2,348
Minnesota	2,368	2,690	2,856
Missouri	443	513	560
Nebraska	333	248	268
New Mexico ¹	245	261	(NA)
New York	4,106	3,839	3,804
Ohio	674	985	611
Pennsylvania	2,785	2,799	2,959
South Dakota	393	515	485
Texas	874	1,242	1,024
Vermont	890	1,163	960
Washington	758	1,154	679
Wisconsin	9,516	9,902	9,470
18 State total	32,116	33,586	32,378

(NA) Not available.

¹ Estimates discontinued in 2016.

Alfalfa Haylage and Greenchop Area Harvested, Yield, and Production – States and 18 State Total: 2014-2016

[Includes only alfalfa and alfalfa mixtures that were harvested as haylage or greenchop (green weight). Alfalfa harvested as dry hay is not included]

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	65	70	100	8.30	6.50	6.20
Idaho	80	70	100	11.50	11.00	13.00
Illinois	40	34	25	6.60	8.00	9.30
Iowa	130	90	95	6.20	6.50	8.60
Kansas	65	60	30	4.40	6.00	8.00
Michigan	260	270	250	8.60	8.80	8.90
Minnesota	315	350	350	6.80	7.30	7.60
Missouri	20	45	20	5.00	5.00	6.00
Nebraska	35	30	20	5.50	4.50	6.50
New Mexico ¹	10	3	(NA)	8.00	10.00	(NA)
New York	340	360	400	6.90	7.20	6.50
Ohio	85	100	90	5.10	7.90	5.70
Pennsylvania	290	285	275	6.90	7.40	7.00
South Dakota	30	50	50	4.10	5.20	6.70
Texas	7	6	7	7.00	7.00	7.00
Vermont	50	40	40	7.00	6.00	9.00
Washington	23	45	22	7.90	7.30	10.00
Wisconsin	1,200	1,250	1,150	7.30	7.00	7.40
18 State total	3,045	3,158	3,024	7.16	7.24	7.56

State	Production		
	2014	2015	2016
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	540	455	620
Idaho	920	770	1,300
Illinois	264	272	233
Iowa	806	585	817
Kansas	286	360	240
Michigan	2,236	2,376	2,225
Minnesota	2,142	2,555	2,660
Missouri	100	225	120
Nebraska	193	135	130
New Mexico ¹	80	30	(NA)
New York	2,346	2,592	2,600
Ohio	434	790	513
Pennsylvania	2,001	2,109	1,925
South Dakota	123	260	335
Texas	49	42	49
Vermont	350	240	360
Washington	182	329	220
Wisconsin	8,760	8,750	8,510
18 State total	21,812	22,875	22,857

(NA) Not available.

¹ Estimates discontinued in 2016.

All Other Haylage and Greenchop Area Harvested, Yield, and Production – States and 18 State Total: 2014-2016

[Includes all types of mixtures excluding alfalfa that were harvested as haylage or greenchop (green weight). All other area harvested as dry hay is not included]

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	175	170	160	14.20	12.90	12.10
Idaho	40	40	25	9.50	9.50	11.00
Illinois	9	6	15	5.40	4.40	3.80
Iowa	25	45	40	5.00	6.40	6.90
Kansas	100	70	100	5.50	6.50	6.00
Michigan	30	25	35	3.00	4.60	3.50
Minnesota	55	30	40	4.10	4.50	4.90
Missouri	70	80	110	4.90	3.60	4.00
Nebraska	20	25	25	7.00	4.50	5.50
New Mexico ¹	22	30	(NA)	7.50	7.70	(NA)
New York	320	290	280	5.50	4.30	4.30
Ohio	48	39	35	5.00	5.00	2.80
Pennsylvania	160	150	195	4.90	4.60	5.30
South Dakota	30	30	25	9.00	8.50	6.00
Texas	150	250	130	5.50	4.80	7.50
Vermont	90	130	120	6.00	7.10	5.00
Washington	80	85	45	7.20	9.70	10.20
Wisconsin	135	180	160	5.60	6.40	6.00
18 State total	1,559	1,675	1,540	6.61	6.39	6.18

State	Production		
	2014	2015	2016
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	2,485	2,193	1,936
Idaho	380	380	275
Illinois	49	26	57
Iowa	125	288	276
Kansas	550	455	600
Michigan	90	115	123
Minnesota	226	135	196
Missouri	343	288	440
Nebraska	140	113	138
New Mexico ¹	165	231	(NA)
New York	1,760	1,247	1,204
Ohio	240	195	98
Pennsylvania	784	690	1,034
South Dakota	270	255	150
Texas	825	1,200	975
Vermont	540	923	600
Washington	576	825	459
Wisconsin	756	1,152	960
18 State total	10,304	10,711	9,521

(NA) Not available.

¹ Estimates discontinued in 2016.

New Seedings of Alfalfa and Alfalfa Mixtures – States and United States: 2014-2016

State	Area seeded		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Arizona	50	55	55
Arkansas	-	-	1
California	100	90	85
Colorado	95	85	70
Connecticut	1	1	1
Delaware	1	1	1
Idaho	140	140	115
Illinois	30	30	35
Indiana	35	35	35
Iowa	110	90	80
Kansas	65	75	75
Kentucky	25	27	25
Maine	2	2	2
Maryland	9	8	5
Massachusetts	1	1	1
Michigan	90	115	80
Minnesota	250	230	200
Missouri	30	30	35
Montana	100	100	120
Nebraska	160	140	110
Nevada	21	18	20
New Hampshire	1	1	1
New Jersey	1	3	2
New Mexico	20	25	25
New York	70	100	90
North Carolina	1	2	1
North Dakota	80	90	120
Ohio	50	100	70
Oklahoma	70	35	35
Oregon	55	45	35
Pennsylvania	85	95	80
South Dakota	150	120	150
Tennessee	2	1	3
Texas	15	15	20
Utah	60	65	55
Vermont	6	6	5
Virginia	10	12	9
Washington	65	60	50
West Virginia	1	2	1
Wisconsin	450	440	320
Wyoming	40	45	45
United States	2,547	2,535	2,268

- Represents zero.

Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	175.0	200.0	175.0	173.0	196.0	173.0
Arkansas ¹	(NA)	(NA)	24.0	(NA)	(NA)	23.0
Florida	175.0	190.0	155.0	167.0	180.0	147.0
Georgia	600.0	785.0	720.0	589.0	777.0	709.0
Mississippi	32.0	44.0	39.0	31.0	41.0	38.0
New Mexico	4.5	5.0	8.0	4.5	4.9	8.0
North Carolina	94.0	90.0	101.0	93.0	87.0	99.0
Oklahoma	12.0	10.0	13.0	11.0	9.0	13.0
South Carolina	112.0	112.0	110.0	108.0	82.0	106.0
Texas	130.0	170.0	305.0	127.0	165.0	210.0
Virginia	19.0	19.0	21.0	19.0	19.0	21.0
United States	1,353.5	1,625.0	1,671.0	1,322.5	1,560.9	1,547.0

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	3,150	3,250	3,600	544,950	637,000	622,800
Arkansas ¹	(NA)	(NA)	4,800	(NA)	(NA)	110,400
Florida	4,000	3,600	3,900	668,000	648,000	573,300
Georgia	4,135	4,330	3,940	2,435,515	3,364,410	2,793,460
Mississippi	4,000	3,500	4,100	124,000	143,500	155,800
New Mexico	3,500	3,130	2,800	15,750	15,337	22,400
North Carolina	4,320	3,480	3,450	401,760	302,760	341,550
Oklahoma	4,000	3,400	3,800	44,000	30,600	49,400
South Carolina	3,800	3,200	3,300	410,400	262,400	349,800
Texas	3,620	3,200	2,800	459,740	528,000	588,000
Virginia	4,450	3,650	3,700	84,550	69,350	77,700
United States	3,923	3,845	3,675	5,188,665	6,001,357	5,684,610

(NA) Not available.

¹ Estimates began in 2016.

Canola Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	35.0	28.0	21.0	34.0	27.0	20.5
Kansas ¹	(D)	(D)	25.0	(D)	(D)	23.0
Minnesota	15.0	23.0	29.0	14.5	21.5	27.5
Montana	63.0	82.0	62.0	61.0	77.0	60.0
North Dakota	1,200.0	1,410.0	1,460.0	1,190.0	1,400.0	1,445.0
Oklahoma	270.0	140.0	80.0	155.0	115.0	75.0
Oregon	11.0	4.3	4.0	10.0	1.8	3.7
Washington	51.0	37.0	33.0	47.0	34.0	31.0
Other States ²	70.0	52.7	-	45.2	37.2	-
United States	1,715.0	1,777.0	1,714.0	1,556.7	1,713.5	1,685.7
State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Idaho	1,800	1,400	2,100	61,200	37,800	43,050
Kansas ¹	(D)	(D)	1,940	(D)	(D)	44,620
Minnesota	1,650	1,880	1,700	23,925	40,420	46,750
Montana	1,380	1,220	1,670	84,180	93,940	100,200
North Dakota	1,800	1,780	1,840	2,142,000	2,492,000	2,658,800
Oklahoma	620	1,140	1,520	96,100	131,100	114,000
Oregon	1,500	1,800	2,400	15,000	3,240	8,880
Washington	1,200	1,100	1,900	56,400	37,400	58,900
Other States ²	749	1,144	-	33,840	42,570	-
United States	1,614	1,680	1,824	2,512,645	2,878,470	3,075,200

- Represents zero.

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

¹ Beginning in 2016, Kansas is published individually.

² For 2014 and 2015, Other States include Colorado and Kansas. Beginning in 2016, Other States is discontinued.

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Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2014-2016

Varietal type and State	Area planted			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Oil						
California	44.0	33.0	45.0	44.0	33.0	44.5
Colorado	35.0	60.0	60.0	32.0	57.0	57.0
Kansas	45.0	57.0	45.0	42.0	53.0	42.0
Minnesota	47.0	77.0	66.0	45.0	75.0	64.0
Nebraska	27.0	29.0	29.0	25.0	27.0	28.0
North Dakota	520.0	620.0	630.0	510.0	605.0	610.0
Oklahoma ¹	3.0	3.5	(NA)	1.5	3.0	(NA)
South Dakota	410.0	580.0	510.0	400.0	570.0	495.0
Texas	43.0	91.0	33.0	40.0	87.0	28.0
United States	1,174.0	1,550.5	1,418.0	1,139.5	1,510.0	1,368.5
Non-oil						
California	3.5	1.4	1.6	3.5	1.4	1.5
Colorado	11.5	13.0	14.0	11.0	12.0	13.0
Kansas	18.0	27.0	18.0	17.0	25.0	16.0
Minnesota	15.0	24.0	14.0	14.5	23.5	13.5
Nebraska	11.0	20.0	12.5	10.5	17.5	11.0
North Dakota	145.0	100.0	58.0	139.0	97.0	55.0
Oklahoma ¹	1.3	2.2	(NA)	1.1	2.0	(NA)
South Dakota	125.0	99.0	48.0	122.0	92.0	45.0
Texas	61.0	22.0	12.5	52.0	19.0	10.5
United States	391.3	308.6	178.6	370.6	289.4	165.5
All						
California	47.5	34.4	46.6	47.5	34.4	46.0
Colorado	46.5	73.0	74.0	43.0	69.0	70.0
Kansas	63.0	84.0	63.0	59.0	78.0	58.0
Minnesota	62.0	101.0	80.0	59.5	98.5	77.5
Nebraska	38.0	49.0	41.5	35.5	44.5	39.0
North Dakota	665.0	720.0	688.0	649.0	702.0	665.0
Oklahoma ¹	4.3	5.7	(NA)	2.6	5.0	(NA)
South Dakota	535.0	679.0	558.0	522.0	662.0	540.0
Texas	104.0	113.0	45.5	92.0	106.0	38.5
United States	1,565.3	1,859.1	1,596.6	1,510.1	1,799.4	1,534.0

See footnote(s) at end of table.

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Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2014-2016 (continued)

Varietal type and State	Yield per acre			Production		
	2014 (pounds)	2015 (pounds)	2016 (pounds)	2014 (1,000 pounds)	2015 (1,000 pounds)	2016 (1,000 pounds)
Oil						
California	1,300	1,300	1,350	57,200	42,900	60,075
Colorado	1,400	1,200	1,200	44,800	68,400	68,400
Kansas	1,370	1,520	1,370	57,540	80,560	57,540
Minnesota	1,450	1,650	1,500	65,250	123,750	96,000
Nebraska	1,160	1,580	1,350	29,000	42,660	37,800
North Dakota	1,340	1,470	1,730	683,400	889,350	1,055,300
Oklahoma ¹	1,400	1,600	(NA)	2,100	4,800	(NA)
South Dakota	1,670	1,840	1,940	668,000	1,048,800	960,300
Texas	1,420	950	1,200	56,800	82,650	33,600
United States	1,460	1,579	1,731	1,664,090	2,383,870	2,369,015
Non-oil						
California	1,350	1,300	1,200	4,725	1,820	1,800
Colorado	1,900	1,400	1,700	20,900	16,800	22,100
Kansas	2,000	2,200	1,570	34,000	55,000	25,120
Minnesota	1,560	1,800	1,300	22,620	42,300	17,550
Nebraska	1,750	2,100	1,850	18,375	36,750	20,350
North Dakota	1,180	1,850	1,550	164,020	179,450	85,250
Oklahoma ¹	1,000	900	(NA)	1,100	1,800	(NA)
South Dakota	1,710	1,970	2,150	208,620	181,240	96,750
Texas	1,550	1,300	1,600	80,600	24,700	16,800
United States	1,497	1,865	1,726	554,960	539,860	285,720
All						
California	1,304	1,300	1,345	61,925	44,720	61,875
Colorado	1,528	1,235	1,293	65,700	85,200	90,500
Kansas	1,552	1,738	1,425	91,540	135,560	82,660
Minnesota	1,477	1,686	1,465	87,870	166,050	113,550
Nebraska	1,335	1,784	1,491	47,375	79,410	58,150
North Dakota	1,306	1,523	1,715	847,420	1,068,800	1,140,550
Oklahoma ¹	1,231	1,320	(NA)	3,200	6,600	(NA)
South Dakota	1,679	1,858	1,958	876,620	1,230,040	1,057,050
Texas	1,493	1,013	1,309	137,400	107,350	50,400
United States	1,469	1,625	1,731	2,219,050	2,923,730	2,654,735

(NA) Not available.

¹ Estimates discontinued in 2016.

Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Alabama	480	500	420	470	490	410
Arkansas	3,230	3,200	3,130	3,200	3,170	3,100
Delaware	185	175	165	183	173	163
Florida	39	33	31	37	29	29
Georgia	300	325	260	290	310	240
Illinois	9,800	9,800	10,100	9,770	9,720	10,050
Indiana	5,450	5,550	5,650	5,440	5,500	5,640
Iowa	9,850	9,850	9,500	9,770	9,800	9,450
Kansas	4,000	3,900	4,050	3,960	3,860	4,010
Kentucky	1,760	1,840	1,790	1,750	1,810	1,780
Louisiana	1,410	1,430	1,230	1,395	1,390	1,190
Maryland	510	520	520	505	515	515
Michigan	2,050	2,030	2,070	2,040	2,020	2,060
Minnesota	7,350	7,600	7,550	7,270	7,550	7,500
Mississippi	2,210	2,300	2,040	2,190	2,270	2,020
Missouri	5,650	4,550	5,600	5,590	4,470	5,540
Nebraska	5,400	5,300	5,200	5,330	5,270	5,150
New Jersey	105	105	100	103	103	98
New York	330	305	330	327	301	320
North Carolina	1,750	1,820	1,690	1,730	1,730	1,660
North Dakota	5,900	5,750	6,050	5,870	5,720	6,000
Ohio	4,700	4,750	4,850	4,690	4,740	4,840
Oklahoma	375	395	485	365	375	470
Pennsylvania	570	580	580	565	575	575
South Carolina	450	475	420	440	370	405
South Dakota	5,150	5,150	5,200	5,110	5,120	5,170
Tennessee	1,640	1,750	1,660	1,610	1,720	1,630
Texas	155	130	165	135	115	145
Virginia	650	630	610	640	620	600
West Virginia	27	27	27	26	26	26
Wisconsin	1,800	1,880	1,960	1,790	1,870	1,950
United States	83,276	82,650	83,433	82,591	81,732	82,736

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Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016 (continued)

State	Yield per acre			Production		
	2014 (bushels)	2015 (bushels)	2016 (bushels)	2014 (1,000 bushels)	2015 (1,000 bushels)	2016 (1,000 bushels)
Alabama	40.0	41.0	32.0	18,800	20,090	13,120
Arkansas	49.5	49.0	47.0	158,400	155,330	145,700
Delaware	47.5	40.0	41.5	8,693	6,920	6,765
Florida	43.0	38.0	36.0	1,591	1,102	1,044
Georgia	40.0	43.0	30.0	11,600	13,330	7,200
Illinois	56.0	56.0	59.0	547,120	544,320	592,950
Indiana	55.5	50.0	57.5	301,920	275,000	324,300
Iowa	51.0	56.5	60.5	498,270	553,700	571,725
Kansas	35.5	38.5	48.0	140,580	148,610	192,480
Kentucky	47.5	49.0	50.0	83,125	88,690	89,000
Louisiana	56.5	41.0	48.5	78,818	56,990	57,715
Maryland	46.0	40.0	41.5	23,230	20,600	21,373
Michigan	42.5	49.0	50.5	86,700	98,980	104,030
Minnesota	41.5	50.0	52.5	301,705	377,500	393,750
Mississippi	52.0	46.0	48.0	113,880	104,420	96,960
Missouri	46.5	40.5	49.0	259,935	181,035	271,460
Nebraska	54.0	58.0	61.0	287,820	305,660	314,150
New Jersey	44.0	32.0	36.0	4,532	3,296	3,528
New York	44.5	43.0	41.0	14,552	12,943	13,120
North Carolina	40.0	32.0	35.0	69,200	55,360	58,100
North Dakota	34.5	32.5	41.5	202,515	185,900	249,000
Ohio	52.5	50.0	54.5	246,225	237,000	263,780
Oklahoma	28.0	31.0	29.0	10,220	11,625	13,630
Pennsylvania	49.0	44.0	44.0	27,685	25,300	25,300
South Carolina	35.0	26.5	31.0	15,400	9,805	12,555
South Dakota	45.0	46.0	49.5	229,950	235,520	255,915
Tennessee	46.0	46.0	45.0	74,060	79,120	73,350
Texas	38.5	26.0	31.0	5,198	2,990	4,495
Virginia	39.5	34.5	36.0	25,280	21,390	21,600
West Virginia	51.0	48.0	51.0	1,326	1,248	1,326
Wisconsin	44.0	49.5	55.0	78,760	92,565	107,250
United States	47.5	48.0	52.1	3,927,090	3,926,339	4,306,671

Soybean Objective Yield Data

The National Agricultural Statistics Service conducted an objective yield survey in 11 soybean producing States during 2016. Randomly selected plots in soybean 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.

Soybean Pods with Beans per 18 Square Feet – Selected States: 2012-2016

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

State and month	2012	2013	2014	2015	2016	State and month	2012	2013	2014	2015	2016
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas ¹						Missouri					
September	(NA)	(NA)	(NA)	(NA)	(NA)	September	1,347	1,528	2,050	1,612	1,881
October	1,574	(NA)	1,960	1,737	1,805	October	1,205	(NA)	1,969	1,755	2,006
November	1,570	1,864	1,999	1,813	1,820	November	1,274	1,522	2,055	1,869	2,123
Final	1,590	1,734	1,999	1,818	1,826	Final	1,271	1,500	2,043	1,899	2,164
Illinois						Nebraska					
September	1,466	1,682	1,922	1,980	1,969	September	1,406	1,671	1,634	1,816	1,947
October	1,359	(NA)	1,913	2,052	2,109	October	1,509	(NA)	1,707	1,863	2,036
November	1,382	1,713	1,964	2,086	2,193	November	1,516	1,801	1,743	1,884	2,074
Final	1,377	1,697	1,968	2,079	2,197	Final	1,516	1,801	1,743	1,884	2,074
Indiana						North Dakota					
September	1,388	1,638	1,518	1,641	1,683	September	1,308	1,275	1,281	1,321	1,395
October	1,390	(NA)	1,634	1,703	1,775	October	1,326	(NA)	1,266	1,330	1,444
November	1,396	1,696	1,661	1,691	1,873	November	1,326	1,336	1,454	1,337	1,442
Final	1,396	1,705	1,660	1,691	1,873	Final	1,326	1,336	1,459	1,337	1,470
Iowa						Ohio					
September	1,512	1,414	1,621	1,779	1,808	September	1,674	1,889	1,882	1,621	1,773
October	1,636	(NA)	1,690	1,805	1,801	October	1,708	(NA)	1,835	1,691	1,715
November	1,630	1,538	1,772	1,834	1,861	November	1,747	1,780	1,796	1,776	1,782
Final	1,630	1,531	1,768	1,834	1,890	Final	1,746	1,799	1,796	1,776	1,782
Kansas						South Dakota					
September	1,038	1,295	1,303	1,285	1,467	September	1,171	1,508	1,533	1,541	1,561
October	1,039	(NA)	1,384	1,602	1,643	October	1,142	(NA)	1,485	1,557	1,639
November	1,092	1,319	1,428	1,715	1,720	November	1,127	1,543	1,498	1,563	1,709
Final	1,092	1,360	1,453	1,715	1,737	Final	1,127	1,489	1,501	1,563	1,665
Minnesota						11-State					
September	1,587	1,433	1,414	1,637	1,614	September	1,429	1,555	1,651	1,672	1,741
October	1,606	(NA)	1,431	1,644	1,625	October	1,429	(NA)	1,667	1,731	1,800
November	1,605	1,400	1,434	1,612	1,658	November	1,443	1,589	1,719	1,763	1,862
Final	1,614	1,418	1,434	1,612	1,658	Final	1,444	1,580	1,720	1,764	1,870

(NA) Not available.

¹ September data not available due to plant immaturity.

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2012-2016

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas2012	5	62	51	31	59
.....2013	7	59	42	30	56
.....2014	10	53	50	27	65
.....2015	8	41	34	32	77
.....2016	5	31	46	36	73
Illinois2012	6	20	112	58	3
.....2013	3	18	91	63	-
.....2014	6	15	102	60	-
.....2015	2	15	111	52	1
.....2016	1	15	105	57	1
Indiana2012	4	25	100	15	-
.....2013	2	20	98	17	1
.....2014	2	21	110	13	2
.....2015	2	17	103	15	-
.....2016	1	27	91	17	2
Iowa2012	1	9	89	86	3
.....2013	2	1	78	93	3
.....2014	1	3	74	104	2
.....2015	4	4	76	92	4
.....2016	1	6	73	100	2
Kansas2012	1	28	28	56	-
.....2013	2	22	52	43	-
.....2014	6	18	35	53	-
.....2015	5	13	38	56	-
.....2016	6	8	38	57	-
Minnesota2012	3	4	46	48	2
.....2013	1	6	45	39	-
.....2014	6	8	32	36	1
.....2015	4	7	42	50	1
.....2016	5	8	40	36	1
Missouri2012	2	14	78	21	10
.....2013	-	23	76	15	8
.....2014	2	14	74	17	6
.....2015	1	17	50	15	8
.....2016	-	14	71	19	5
Nebraska2012	-	7	38	53	8
.....2013	-	9	36	51	9
.....2014	-	4	30	58	4
.....2015	1	4	31	62	8
.....2016	-	10	36	46	3

See footnote(s) at end of table.

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2012-2016 (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 Dakota 2012	4	17	74	16	-
2013	6	10	51	20	1
2014	12	17	51	14	-
2015	5	19	68	12	-
2016	8	17	55	15	-
Ohio 2012	6	58	66	6	1
2013	8	60	70	3	1
2014	6	47	72	8	-
2015	2	45	76	9	-
2016	3	41	84	7	-
South Dakota 2012	1	10	39	51	1
2013	4	5	23	55	1
2014	8	3	23	47	1
2015	2	3	12	65	1
2016	3	4	27	59	2

- Represents zero.

¹ Includes broadcast soybeans.

Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2012-2016

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	2012	207	24.0	23.5	28.1	13.8	10.6	19.3
	2013	184	26.4	27.7	25.3	11.9	8.7	18.3
	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	14.5	24.1	4.0	21.2	36.2	26.0
Illinois	2012	197	11.7	51.1	5.9	30.8	0.5	19.3
	2013	178	11.5	51.4	3.1	34.0	-	19.7
	2014	185	10.3	52.7	3.8	33.2	-	19.7
	2015	177	7.1	63.0	2.3	26.8	0.8	19.0
	2016	179	7.8	56.4	5.6	29.6	0.6	19.7
Indiana	2012	140	16.8	68.2	3.6	11.4	-	15.9
	2013	137	15.6	69.6	4.5	9.6	0.7	16.0
	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
Iowa	2012	190	5.3	39.5	9.2	44.2	1.8	22.5
	2013	177	3.1	34.4	10.8	49.7	2.0	23.5
	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	34.3	11.2	50.6	1.7	23.7
Kansas	2012	112	13.9	36.3	3.6	46.2	-	21.3
	2013	118	11.1	52.2	3.4	33.3	-	19.2
	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
Minnesota	2012	100	4.0	27.5	24.0	43.0	1.5	23.1
	2013	97	6.3	29.7	21.9	41.1	1.0	22.7
	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
Missouri	2012	122	7.8	62.5	5.8	16.5	7.4	19.2
	2013	120	15.0	61.7	2.5	15.0	5.8	17.8
	2014	115	12.2	57.4	7.8	18.3	4.3	18.4
	2015	84	16.7	56.6	7.7	11.9	7.1	17.9
	2016	107	3.7	69.6	3.3	17.3	6.1	18.9
Nebraska	2012	104	4.3	33.2	7.7	48.1	6.7	24.1
	2013	104	4.4	32.5	4.4	51.0	7.7	24.4
	2014	95	2.6	28.4	7.9	55.8	5.3	24.8
	2015	104	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

See footnote(s) at end of table.

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**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:
2012-2016 (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	2012 110	11.4	55.9	22.3	10.4	-	17.3
	2013 89	13.5	44.9	20.8	20.8	-	18.7
	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 98	19.5	43.6	20.5	16.4	-	17.7
Ohio	2012 136	40.8	51.1	4.1	3.3	0.7	12.9
	2013 142	37.3	51.8	6.7	3.5	0.7	13.2
	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	60.2	1.8	5.9	-	13.7
South Dakota	2012 99	7.6	32.5	14.2	44.7	1.0	22.5
	2013 89	6.7	18.0	15.2	57.9	2.2	25.5
	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

- Represents zero.

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

Flaxseed Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Minnesota ¹	2	3	(NA)	2	3	(NA)
Montana	28	31	29	25	30	28
North Dakota	275	410	335	270	405	330
South Dakota	6	19	10	5	18	9
United States	311	463	374	302	456	367
State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Minnesota ¹	24.0	14.0	(NA)	48	42	(NA)
Montana	17.0	15.0	22.0	425	450	616
North Dakota	21.5	23.0	24.0	5,805	9,315	7,920
South Dakota	18.0	16.0	16.0	90	288	144
United States	21.1	22.1	23.7	6,368	10,095	8,680

(NA) Not available.

¹ Estimates discontinued in 2016.

Safflower Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	53.0	61.0	62.0	52.5	61.0	61.5
Idaho ¹	(D)	(D)	18.0	(D)	(D)	17.5
Montana	54.0	50.0	37.0	50.5	44.0	35.5
North Dakota	14.0	10.5	8.3	9.5	10.4	7.9
South Dakota ¹	(D)	(D)	21.8	(D)	(D)	18.5
Utah	19.0	16.0	14.0	18.0	15.5	13.5
Other States ²	41.5	32.7	-	39.7	30.2	-
United States	181.5	170.2	161.1	170.2	161.1	154.4
State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	2,000	2,100	2,200	105,000	128,100	135,300
Idaho ¹	(D)	(D)	850	(D)	(D)	14,875
Montana	840	840	810	42,420	36,960	28,755
North Dakota	1,000	1,050	1,250	9,500	10,920	9,875
South Dakota ¹	(D)	(D)	1,100	(D)	(D)	20,350
Utah	990	910	810	17,820	14,105	10,935
Other States ²	854	939	-	33,903	28,366	-
United States	1,226	1,356	1,425	208,643	218,451	220,090

- Represents zero.

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

¹ Beginning in 2016, Idaho and South Dakota are published individually.

² For 2014 and 2015, Other States include Colorado, Idaho, and South Dakota. Beginning in 2016, Colorado and Other States are discontinued.

Other Oilseed Area Planted and Harvested, Yield, and Production by Crop – United States: 2014-2016

Crop	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Rapeseed ¹	2.2	1.2	11.0	2.1	1.1	10.5
Mustard seed ²	33.6	44.0	103.1	31.2	40.1	98.2
State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Rapeseed ¹	1,233	1,382	1,840	2,590	1,520	19,320
Mustard seed ²	930	671	980	29,004	26,927	96,270

¹ For 2014 and 2015, rapeseed program States include Idaho, Minnesota, Oregon, and Washington. Beginning in 2016, rapeseed program states include Idaho, Montana, North Carolina, North Dakota, Oregon, and Washington.

² Mustard seed program States include Idaho, Montana, North Dakota, Oregon, and Washington.

Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2014-2016

Type and State	Area planted			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Upland						
Alabama	350.0	315.0	345.0	348.0	307.0	343.0
Arizona	150.0	89.0	120.0	149.0	88.0	118.0
Arkansas	335.0	210.0	380.0	330.0	207.0	375.0
California	57.0	47.0	66.0	56.0	46.0	65.0
Florida	107.0	85.0	102.0	105.0	83.0	100.0
Georgia	1,380.0	1,130.0	1,180.0	1,370.0	1,120.0	1,170.0
Kansas	31.0	16.0	32.0	29.0	16.0	31.0
Louisiana	170.0	115.0	140.0	168.0	112.0	137.0
Mississippi	425.0	320.0	435.0	420.0	315.0	430.0
Missouri	250.0	185.0	280.0	245.0	175.0	266.0
New Mexico	43.0	35.0	47.0	33.0	31.0	41.0
North Carolina	465.0	385.0	280.0	460.0	355.0	260.0
Oklahoma	240.0	215.0	305.0	210.0	205.0	290.0
South Carolina	280.0	235.0	190.0	278.0	136.0	184.0
Tennessee	275.0	155.0	255.0	270.0	140.0	250.0
Texas	6,200.0	4,800.0	5,650.0	4,600.0	4,500.0	5,200.0
Virginia	87.0	85.0	73.0	86.0	84.0	72.0
United States	10,845.0	8,422.0	9,880.0	9,157.0	7,920.0	9,332.0
American Pima						
Arizona	15.0	17.5	14.5	14.5	17.0	13.0
California	155.0	117.0	155.0	154.0	116.0	154.0
New Mexico	5.4	7.0	8.0	5.3	6.9	7.7
Texas	17.0	17.0	17.0	16.0	15.0	15.0
United States	192.4	158.5	194.5	189.8	154.9	189.7
All						
Alabama	350.0	315.0	345.0	348.0	307.0	343.0
Arizona	165.0	106.5	134.5	163.5	105.0	131.0
Arkansas	335.0	210.0	380.0	330.0	207.0	375.0
California	212.0	164.0	221.0	210.0	162.0	219.0
Florida	107.0	85.0	102.0	105.0	83.0	100.0
Georgia	1,380.0	1,130.0	1,180.0	1,370.0	1,120.0	1,170.0
Kansas	31.0	16.0	32.0	29.0	16.0	31.0
Louisiana	170.0	115.0	140.0	168.0	112.0	137.0
Mississippi	425.0	320.0	435.0	420.0	315.0	430.0
Missouri	250.0	185.0	280.0	245.0	175.0	266.0
New Mexico	48.4	42.0	55.0	38.3	37.9	48.7
North Carolina	465.0	385.0	280.0	460.0	355.0	260.0
Oklahoma	240.0	215.0	305.0	210.0	205.0	290.0
South Carolina	280.0	235.0	190.0	278.0	136.0	184.0
Tennessee	275.0	155.0	255.0	270.0	140.0	250.0
Texas	6,217.0	4,817.0	5,667.0	4,616.0	4,515.0	5,215.0
Virginia	87.0	85.0	73.0	86.0	84.0	72.0
United States	11,037.4	8,580.5	10,074.5	9,346.8	8,074.9	9,521.7

See footnote(s) at end of table.

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Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2014-2016 (continued)

Type and State	Yield per acre			Production ¹		
	2014 (pounds)	2015 (pounds)	2016 (pounds)	2014 (1,000 bales) ²	2015 (1,000 bales) ²	2016 (1,000 bales) ²
Upland						
Alabama	901	866	987	653.0	554.0	705.0
Arizona	1,579	1,511	1,586	490.0	277.0	390.0
Arkansas	1,145	1,092	1,075	787.0	471.0	840.0
California	1,834	1,722	1,846	214.0	165.0	250.0
Florida	878	885	960	192.0	153.0	200.0
Georgia	900	966	903	2,570.0	2,255.0	2,200.0
Kansas	794	1,050	1,099	48.0	35.0	71.0
Louisiana	1,154	810	911	404.0	189.0	260.0
Mississippi	1,232	1,024	1,228	1,078.0	672.0	1,100.0
Missouri	1,117	1,097	1,029	570.0	400.0	570.0
New Mexico	931	929	1,171	64.0	60.0	100.0
North Carolina	1,038	713	665	995.0	527.0	360.0
Oklahoma	615	876	1,026	269.0	374.0	620.0
South Carolina	912	547	678	528.0	155.0	260.0
Tennessee	878	1,046	1,104	494.0	305.0	575.0
Texas	644	610	720	6,175.0	5,720.0	7,800.0
Virginia	1,239	817	667	222.0	143.0	100.0
United States	826	755	844	15,753.0	12,455.0	16,401.0
American Pima						
Arizona	993	875	720	30.0	31.0	19.5
California	1,558	1,494	1,527	500.0	361.0	490.0
New Mexico	761	904	997	8.4	13.0	16.0
Texas	840	896	1,024	28.0	28.0	32.0
United States	1,432	1,342	1,411	566.4	433.0	557.5
All						
Alabama	901	866	987	653.0	554.0	705.0
Arizona	1,527	1,408	1,500	520.0	308.0	409.5
Arkansas	1,145	1,092	1,075	787.0	471.0	840.0
California	1,632	1,559	1,622	714.0	526.0	740.0
Florida	878	885	960	192.0	153.0	200.0
Georgia	900	966	903	2,570.0	2,255.0	2,200.0
Kansas	794	1,050	1,099	48.0	35.0	71.0
Louisiana	1,154	810	911	404.0	189.0	260.0
Mississippi	1,232	1,024	1,228	1,078.0	672.0	1,100.0
Missouri	1,117	1,097	1,029	570.0	400.0	570.0
New Mexico	907	925	1,143	72.4	73.0	116.0
North Carolina	1,038	713	665	995.0	527.0	360.0
Oklahoma	615	876	1,026	269.0	374.0	620.0
South Carolina	912	547	678	528.0	155.0	260.0
Tennessee	878	1,046	1,104	494.0	305.0	575.0
Texas	645	611	721	6,203.0	5,748.0	7,832.0
Virginia	1,239	817	667	222.0	143.0	100.0
United States	838	766	855	16,319.4	12,888.0	16,958.5

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

Cottonseed Production – States and United States: 2014-2016

State	Production		
	2014 (1,000 tons)	2015 (1,000 tons)	2016 ¹ (1,000 tons)
Alabama	195.0	162.0	204.0
Arizona	172.0	98.0	139.0
Arkansas	288.0	156.0	289.0
California	276.0	199.0	277.0
Florida	40.0	41.0	57.0
Georgia	754.0	615.0	627.0
Kansas	16.0	11.0	22.0
Louisiana	139.0	61.0	89.0
Mississippi	306.0	215.0	349.0
Missouri	208.0	154.0	215.0
New Mexico	15.0	24.0	39.0
North Carolina	318.0	156.0	110.0
Oklahoma	80.0	121.0	204.0
South Carolina	143.0	43.0	78.0
Tennessee	156.0	105.0	188.0
Texas	1,959.0	1,844.0	2,502.0
Virginia	60.0	38.0	29.0
United States	5,125.0	4,043.0	5,418.0

¹ Estimates based on 3-year average lint-seed ratio.

Tobacco Area Harvested, Yield, and Production – States and United States: 2014-2016

State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)
Connecticut ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Georgia	15,000	13,500	13,500	2,300	2,400	2,100
Kentucky	91,700	72,900	75,300	2,337	2,055	1,810
Massachusetts ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
North Carolina	193,400	173,000	166,000	2,347	2,198	1,999
Ohio ¹	2,000	1,900	(NA)	2,150	1,900	(NA)
Pennsylvania	9,100	7,900	8,200	2,445	2,290	2,495
South Carolina	15,800	13,000	13,000	2,100	2,000	1,900
Tennessee	24,250	20,900	20,200	2,151	2,333	1,767
Virginia	24,330	23,050	23,460	2,370	2,415	2,193
Other States ²	2,780	2,500	-	1,525	1,826	-
United States	378,360	328,650	319,660	2,316	2,188	1,967

State	Production		
	2014	2015	2016
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Connecticut ¹	(D)	(D)	(NA)
Georgia	34,500	32,400	28,350
Kentucky	214,280	149,830	136,280
Massachusetts ¹	(D)	(D)	(NA)
North Carolina	453,860	380,250	331,800
Ohio ¹	4,300	3,610	(NA)
Pennsylvania	22,250	18,090	20,460
South Carolina	33,180	26,000	24,700
Tennessee	52,155	48,770	35,690
Virginia	57,651	55,655	51,440
Other States ²	4,239	4,566	-
United States	876,415	719,171	628,720

- Represents zero.

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

(NA) Not available.

¹ Estimates discontinued in 2016.

² For 2015, Other States include Connecticut and Massachusetts. Beginning in 2016, Other States is discontinued.

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2014-2016

Class, type, and State	Area harvested		
	2014 (acres)	2015 (acres)	2016 (acres)
Class 1, Flue-cured (11-14)			
Georgia	15,000	13,500	13,500
North Carolina	192,000	172,000	165,000
South Carolina	15,800	13,000	13,000
Virginia	22,500	21,500	22,000
United States	245,300	220,000	213,500
Class 2, Fire-cured (21-23)			
Kentucky	10,700	9,900	9,500
Tennessee	7,600	7,700	7,000
Virginia	330	250	260
United States	18,630	17,850	16,760
Class 3A, Light air-cured			
Type 31, Burley			
Kentucky	76,000	58,000	61,000
North Carolina	1,400	1,000	1,000
Ohio ¹	2,000	1,900	(NA)
Pennsylvania	5,100	4,700	4,800
Tennessee	15,500	12,000	12,000
Virginia	1,500	1,300	1,200
United States	101,500	78,900	80,000
Type 32, Southern Maryland			
Pennsylvania	2,000	1,600	1,800
Total light air-cured (31-32)	103,500	80,500	81,800
Class 3B, Dark air-cured (35-37)			
Kentucky	5,000	5,000	4,800
Tennessee	1,150	1,200	1,200
United States	6,150	6,200	6,000
Class 4, Cigar filler			
Type 41, Pennsylvania Seedleaf			
Pennsylvania	2,000	1,600	1,600
Class 5, Cigar binder			
Type 51, Connecticut Valley Broadleaf			
Connecticut ¹	(D)	(D)	(NA)
Massachusetts ¹	(D)	(D)	(NA)
United States	(D)	(D)	(NA)
Class 6, Cigar wrapper			
Type 61, Connecticut Valley Shade-grown			
Connecticut ¹	(D)	(D)	(NA)
Massachusetts ¹	(D)	(D)	(NA)
United States	(D)	(D)	(NA)
Other cigar types (51-61)	2,780	2,500	(NA)
Total cigar types (41-61) ²	4,780	4,100	1,600
All Tobacco			
United States	378,360	328,650	319,660

See footnote(s) at end of table.

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Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2014-2016 (continued)

Class, type, and State	Yield per acre			Production		
	2014 (pounds)	2015 (pounds)	2016 (pounds)	2014 (1,000 pounds)	2015 (1,000 pounds)	2016 (1,000 pounds)
Class 1, Flue-cured (11-14)						
Georgia	2,300	2,400	2,100	34,500	32,400	28,350
North Carolina	2,350	2,200	2,000	451,200	378,400	330,000
South Carolina	2,100	2,000	1,900	33,180	26,000	24,700
Virginia	2,400	2,450	2,200	54,000	52,675	48,400
United States	2,335	2,225	2,021	572,880	489,475	431,450
Class 2, Fire-cured (21-23)						
Kentucky	3,400	3,200	2,300	36,380	31,680	21,850
Tennessee	2,900	3,100	2,450	22,040	23,870	17,150
Virginia	2,200	2,300	2,000	726	575	520
United States	3,175	3,144	2,358	59,146	56,125	39,520
Class 3A, Light air-cured						
Type 31, Burley						
Kentucky	2,150	1,800	1,750	163,400	104,400	106,750
North Carolina	1,900	1,850	1,800	2,660	1,850	1,800
Ohio ¹	2,150	1,900	(NA)	4,300	3,610	(NA)
Pennsylvania	2,500	2,300	2,600	12,750	10,810	12,480
Tennessee	1,750	1,800	1,350	27,125	21,600	16,200
Virginia	1,950	1,850	2,100	2,925	2,405	2,520
United States	2,100	1,834	1,747	213,160	144,675	139,750
Type 32, Southern Maryland Belt						
Pennsylvania	2,350	2,200	2,300	4,700	3,520	4,140
Total light air-cured (31-32)	2,105	1,841	1,759	217,860	148,195	143,890
Class 3B, Dark air-cured (35-37)						
Kentucky	2,900	2,750	1,600	14,500	13,750	7,680
Tennessee	2,600	2,750	1,950	2,990	3,300	2,340
United States	2,844	2,750	1,670	17,490	17,050	10,020
Class 4, Cigar filler						
Type 41, Pennsylvania Seedleaf						
Pennsylvania	2,400	2,350	2,400	4,800	3,760	3,840
Class 5, Cigar binder						
Type 51 Connecticut Valley Broadleaf						
Connecticut ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Massachusetts ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
United States	(D)	(D)	(NA)	(D)	(D)	(NA)
Class 6, Cigar wrapper						
Type 61, Connecticut Valley Shade-grown						
Connecticut ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Massachusetts ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
United States	(D)	(D)	(NA)	(D)	(D)	(NA)
Other cigar types (51-61)	1,525	1,826	(NA)	4,239	4,566	(NA)
Total cigar types (41-61) ²	1,891	2,031	2,400	9,039	8,326	3,840
All tobacco						
United States	2,316	2,188	1,967	876,415	719,171	628,720

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

(NA) Not available.

¹ Estimates discontinued in 2016.

² Beginning in 2016, estimates only include Class 4 Cigar Filler.

Sugarbeet Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

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

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California ¹	24.3	24.7	25.3	22.5	24.7	25.0
Colorado	29.6	27.5	28.1	29.3	27.3	27.6
Idaho	170.0	174.0	172.0	169.0	172.0	170.0
Michigan	151.0	152.0	151.0	150.0	151.0	149.0
Minnesota	440.0	443.0	437.0	434.0	435.0	417.0
Montana	45.1	44.0	45.6	44.4	43.7	45.3
Nebraska	49.1	47.5	48.0	45.9	46.8	47.2
North Dakota	215.0	208.0	213.0	214.0	206.0	203.0
Oregon	7.5	7.8	10.7	7.2	7.7	10.2
Washington ²	(NA)	(NA)	2.0	(NA)	(NA)	1.9
Wyoming	30.9	31.3	30.7	30.0	31.2	30.0
United States	1,162.5	1,159.8	1,163.4	1,146.3	1,145.4	1,126.2

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
California ¹	42.6	44.7	44.3	959	1,104	1,108
Colorado	31.3	35.1	33.6	917	958	927
Idaho	37.3	38.3	41.4	6,304	6,588	7,038
Michigan	29.3	31.7	30.8	4,395	4,787	4,589
Minnesota	22.5	28.0	30.0	9,765	12,180	12,510
Montana	32.3	33.0	35.0	1,434	1,442	1,586
Nebraska	29.1	28.4	29.9	1,336	1,329	1,411
North Dakota	23.8	27.9	30.8	5,093	5,747	6,242
Oregon	34.5	38.6	42.0	248	297	428
Washington ²	(NA)	(NA)	47.9	(NA)	(NA)	91
Wyoming	27.8	30.1	31.7	834	939	951
United States	27.3	30.9	32.7	31,285	35,371	36,881

(NA) Not available.

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.

² Estimates began in 2016.

Sugarcane Area Harvested, Yield, and Production – States and United States: 2014-2016

State	Area harvested			Yield per acre ¹		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
For sugar						
Florida	392.0	398.0	413.0	38.4	42.5	40.8
Hawaii	14.2	12.9	14.9	88.8	88.3	91.9
Louisiana	386.0	385.0	400.0	29.5	29.6	29.0
Texas	31.5	35.2	37.9	37.9	31.4	38.1
United States	823.7	831.1	865.8	35.1	36.8	36.1
For seed						
Florida	16.0	15.0	17.0	42.8	49.2	44.5
Hawaii	2.2	2.2	-	20.4	20.0	-
Louisiana	25.0	25.0	31.0	29.5	29.6	29.0
Texas	1.6	1.4	1.8	37.9	32.1	38.2
United States	44.8	43.6	49.8	34.1	35.9	34.6
For sugar and seed						
Florida	408.0	413.0	430.0	38.6	42.7	40.9
Hawaii	16.4	15.1	14.9	79.6	78.3	91.9
Louisiana	411.0	410.0	431.0	29.5	29.6	29.0
Texas	33.1	36.6	39.7	37.9	31.4	38.1
United States	868.5	874.7	915.6	35.0	36.7	36.0
State	Production ¹					
	2014	2015	2016			
	(1,000 tons)	(1,000 tons)	(1,000 tons)			
For sugar						
Florida	15,053	16,915	16,850			
Hawaii	1,261	1,139	1,369			
Louisiana	11,387	11,396	11,600			
Texas	1,194	1,105	1,444			
United States	28,895	30,555	31,263			
For seed						
Florida	685	738	757			
Hawaii	45	44	-			
Louisiana	738	740	899			
Texas	61	45	69			
United States	1,529	1,567	1,725			
For sugar and seed						
Florida	15,738	17,653	17,607			
Hawaii	1,306	1,183	1,369			
Louisiana	12,125	12,136	12,499			
Texas	1,255	1,150	1,513			
United States	30,424	32,122	32,988			

- Represents zero.

¹ Net tons.

Potato Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona ¹	3.8	3.6	(NA)	3.5	3.5	(NA)
California	33.3	35.4	33.9	33.1	35.1	33.0
Colorado	60.2	57.7	57.1	59.8	57.4	56.8
Delaware ¹	1.2	(D)	(NA)	1.2	(D)	(NA)
Florida	30.5	30.0	25.0	29.3	29.6	22.9
Idaho	321.0	323.0	325.0	320.0	322.0	324.0
Illinois	6.5	7.5	7.0	6.4	6.9	6.9
Kansas	4.2	3.8	4.2	4.1	3.6	4.2
Maine	51.0	51.0	47.0	50.5	50.5	46.5
Maryland	2.3	2.4	(D)	2.3	2.4	(D)
Massachusetts ¹	3.6	3.6	(NA)	3.6	3.6	(NA)
Michigan	43.0	46.0	47.0	42.5	45.0	46.0
Minnesota	42.0	41.0	40.0	41.0	40.5	39.0
Missouri	8.2	8.5	8.2	7.9	8.1	7.9
Montana	11.5	11.0	11.3	11.3	10.9	11.2
Nebraska	17.0	15.5	16.5	16.9	15.3	16.4
Nevada ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
New Jersey	2.0	(D)	(D)	1.9	(D)	(D)
New Mexico ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
New York	16.0	15.0	15.0	15.8	14.8	14.8
North Carolina	14.5	13.5	14.0	13.5	12.7	13.6
North Dakota	79.0	82.0	80.0	77.0	80.0	64.0
Ohio ¹	1.6	1.3	(NA)	1.5	1.2	(NA)
Oregon	39.0	39.0	39.0	38.9	38.9	38.9
Pennsylvania ¹	5.3	5.4	(NA)	5.2	5.3	(NA)
Rhode Island ¹	0.5	0.6	(NA)	0.5	0.6	(NA)
Texas	21.0	20.0	20.0	20.6	18.2	19.6
Virginia	5.0	5.0	4.4	4.5	4.7	4.1
Washington	165.0	170.0	170.0	165.0	170.0	169.0
Wisconsin	65.0	63.0	65.0	64.0	62.5	64.5
Other States ¹	9.4	11.3	4.4	9.3	11.1	4.4
United States	1,062.6	1,066.1	1,034.0	1,051.1	1,054.4	1,007.7

See footnote(s) at end of table.

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**Potato Area Planted and Harvested, Yield, and Production – States and United States:
2014-2016 (continued)**

State	Yield per acre			Production		
	2014 (cwt)	2015 (cwt)	2016 (cwt)	2014 (1,000 cwt)	2015 (1,000 cwt)	2016 (1,000 cwt)
Arizona ¹	310	290	(NA)	1,085	1,015	(NA)
California	470	393	403	15,557	13,808	13,305
Colorado	388	393	391	23,196	22,575	22,198
Delaware ¹	290	(D)	(NA)	348	(D)	(NA)
Florida	240	230	235	7,032	6,808	5,382
Idaho	415	405	430	132,880	130,400	139,320
Illinois	415	380	380	2,656	2,622	2,622
Kansas	340	335	300	1,394	1,206	1,260
Maine	290	320	320	14,645	16,160	14,880
Maryland	380	330	(D)	874	792	(D)
Massachusetts ¹	285	305	(NA)	1,026	1,098	(NA)
Michigan	370	390	370	15,725	17,550	17,020
Minnesota	400	400	430	16,400	16,200	16,770
Missouri	270	305	305	2,133	2,471	2,410
Montana	320	325	340	3,616	3,543	3,808
Nebraska	470	450	450	7,943	6,885	7,380
Nevada ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
New Jersey	225	(D)	(D)	428	(D)	(D)
New Mexico ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
New York	275	280	245	4,345	4,144	3,626
North Carolina	210	210	220	2,835	2,667	2,992
North Dakota	310	345	325	23,870	27,600	20,800
Ohio ¹	280	230	(NA)	420	276	(NA)
Oregon	580	560	590	22,562	21,784	22,951
Pennsylvania ¹	275	280	(NA)	1,430	1,484	(NA)
Rhode Island ¹	245	135	(NA)	123	81	(NA)
Texas	335	375	395	6,901	6,825	7,742
Virginia	250	220	290	1,125	1,034	1,189
Washington	615	590	625	101,475	100,300	105,625
Wisconsin	410	445	435	26,240	27,813	28,058
Other States ¹	420	366	315	3,906	4,064	1,387
United States	421	418	437	442,170	441,205	440,725

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

(NA) Not available.

¹ Estimates discontinued in 2016.

² Includes data withheld above.

Potato Area Planted and Harvested, Yield, and Production by Seasonal Group – States and United States: 2014-2016

Seasonal group and State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Spring						
Arizona ¹	3.8	3.6	(NA)	3.5	3.5	(NA)
California	25.0	27.0	26.0	24.8	26.7	25.1
Florida	30.5	30.0	25.0	29.3	29.6	22.9
North Carolina ²	14.5	13.5	(NA)	13.5	12.7	(NA)
United States	73.8	74.1	51.0	71.1	72.5	48.0
Summer						
Delaware ¹	1.2	(D)	(NA)	1.2	(D)	(NA)
Illinois	6.5	7.5	7.0	6.4	6.9	6.9
Kansas	4.2	3.8	4.2	4.1	3.6	4.2
Maryland	2.3	2.4	(D)	2.3	2.4	(D)
Missouri	8.2	8.5	8.2	7.9	8.1	7.9
New Jersey	2.0	(D)	(D)	1.9	(D)	(D)
North Carolina ²	(NA)	(NA)	14.0	(NA)	(NA)	13.6
Texas	21.0	20.0	20.0	20.6	18.2	19.6
Virginia	5.0	5.0	4.4	4.5	4.7	4.1
Other States ³	-	3.3	4.4	-	3.2	4.4
United States	50.4	50.5	62.2	48.9	47.1	60.7
Fall						
California	8.3	8.4	7.9	8.3	8.4	7.9
Colorado	60.2	57.7	57.1	59.8	57.4	56.8
San Luis Valley	54.2	51.9	50.9	53.9	51.8	50.8
All other areas	6.0	5.8	6.2	5.9	5.6	6.0
Idaho	321.0	323.0	325.0	320.0	322.0	324.0
10 Southwest counties ¹	16.0	16.0	(NA)	16.0	16.0	(NA)
Other Idaho counties ¹	305.0	307.0	(NA)	304.0	306.0	(NA)
Maine	51.0	51.0	47.0	50.5	50.5	46.5
Massachusetts ¹	3.6	3.6	(NA)	3.6	3.6	(NA)
Michigan	43.0	46.0	47.0	42.5	45.0	46.0
Minnesota	42.0	41.0	40.0	41.0	40.5	39.0
Montana	11.5	11.0	11.3	11.3	10.9	11.2
Nebraska	17.0	15.5	16.5	16.9	15.3	16.4
Nevada ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
New Mexico ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
New York	16.0	15.0	15.0	15.8	14.8	14.8
North Dakota	79.0	82.0	80.0	77.0	80.0	64.0
Ohio ¹	1.6	1.3	(NA)	1.5	1.2	(NA)
Oregon	39.0	39.0	39.0	38.9	38.9	38.9
Pennsylvania ¹	5.3	5.4	(NA)	5.2	5.3	(NA)
Rhode Island ¹	0.5	0.6	(NA)	0.5	0.6	(NA)
Washington	165.0	170.0	170.0	165.0	170.0	169.0
Wisconsin	65.0	63.0	65.0	64.0	62.5	64.5
Other States ³	9.4	8.0	-	9.3	7.9	-
United States	938.4	941.5	920.8	931.1	934.8	899.0
All						
United States	1,062.6	1,066.1	1,034.0	1,051.1	1,054.4	1,007.7

See footnote(s) at end of table.

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Potato Area Planted and Harvested, Yield, and Production by Seasonal Group – States and United States: 2014-2016 (continued)

Seasonal group and State	Yield per acre			Production		
	2014 (cwt)	2015 (cwt)	2016 (cwt)	2014 (1,000 cwt)	2015 (1,000 cwt)	2016 (1,000 cwt)
Spring						
Arizona ¹	310	290	(NA)	1,085	1,015	(NA)
California	470	385	390	11,656	10,280	9,789
Florida	240	230	235	7,032	6,808	5,382
North Carolina ²	210	210	(NA)	2,835	2,667	(NA)
United States	318	286	316	22,608	20,770	15,171
Summer						
Delaware ¹	290	(D)	(NA)	348	(D)	(NA)
Illinois	415	380	380	2,656	2,622	2,622
Kansas	340	335	300	1,394	1,206	1,260
Maryland	380	330	(D)	874	792	(D)
Missouri	270	305	305	2,133	2,471	2,410
New Jersey	225	(D)	(D)	428	(D)	(D)
North Carolina ²	(NA)	(NA)	220	(NA)	(NA)	2,992
Texas	335	375	395	6,901	6,825	7,742
Virginia	250	220	290	1,125	1,034	1,189
Other States ³	-	245	315	-	784	1,387
United States	324	334	323	15,859	15,734	19,602
Fall						
California	470	420	445	3,901	3,528	3,516
Colorado	388	393	391	23,196	22,575	22,198
San Luis Valley	380	385	385	20,482	19,943	19,558
All other areas	460	470	440	2,714	2,632	2,640
Idaho	415	405	430	132,880	130,400	139,320
10 Southwest counties ¹	515	500	(NA)	8,240	8,000	(NA)
Other Idaho counties ¹	410	400	(NA)	124,640	122,400	(NA)
Maine	290	320	320	14,645	16,160	14,880
Massachusetts ¹	285	305	(NA)	1,026	1,098	(NA)
Michigan	370	390	370	15,725	17,550	17,020
Minnesota	400	400	430	16,400	16,200	16,770
Montana	320	325	340	3,616	3,543	3,808
Nebraska	470	450	450	7,943	6,885	7,380
Nevada ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
New Mexico ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
New York	275	280	245	4,345	4,144	3,626
North Dakota	310	345	325	23,870	27,600	20,800
Ohio ¹	280	230	(NA)	420	276	(NA)
Oregon	580	560	590	22,562	21,784	22,951
Pennsylvania ¹	275	280	(NA)	1,430	1,484	(NA)
Rhode Island ¹	245	135	(NA)	123	81	(NA)
Washington	615	590	625	101,475	100,300	105,625
Wisconsin	410	445	435	26,240	27,813	28,058
Other States ³	420	415	-	3,906	3,280	-
United States	434	433	452	403,703	404,701	405,952
All						
United States	421	418	437	442,170	441,205	440,725

- Represents zero.

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

(NA) Not available.

¹ Estimates discontinued in 2016.

² Beginning in 2016, North Carolina estimates included with Summer states.

³ Includes data withheld above.

Fall Potato Varieties Planted

The National Agricultural Statistics Service collects variety data in seven States, accounting for 83 percent of the 2016 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: 2014-2016 Crop

State and variety	Percent of planted acres			State and variety	Percent of planted acres		
	2014	2015	2016		2014	2015	2016
Idaho				Dakota Russet	(D)	(D)	1.8
Russet Burbank	50.4	53.7	51.3	Norkotah	(D)	(D)	1.0
R Norkotah	17.0	16.2	16.7	Ivory Crisp	3.2	1.7	(D)
Ranger R	15.5	14.3	13.1	Frito-Lay	1.2	1.7	(D)
Umatillas	(D)	2.1	2.1	Other	6.5	11.3	7.0
Bannock	1.5	1.6	1.9	Oregon			
Alturas	2.1	1.2	1.7	R Norkotah	15.0	17.8	17.5
Clearwater	(D)	(D)	1.4	Umatilla R	9.6	16.5	17.4
Norland	1.6	1.9	1.1	Russet Burbank	12.4	18.3	12.1
Cal White	1.3	(D)	(D)	Ranger	24.2	14.9	11.2
Innovator	1.1	(D)	(D)	Shepody	9.5	8.5	9.4
Frito-Lay	(D)	1.0	(D)	Alturas	10.3	4.7	7.5
Other	9.5	8.0	10.7	Frito-Lay	4.7	4.3	5.9
Maine				Pike	2.2	(D)	4.7
Russet Burbank	33.6	39.4	40.6	Clearwater	1.3	2.6	4.1
Frito-Lay	10.7	8.7	15.7	Lamoka	(D)	1.2	2.7
Norland	4.3	4.1	5.1	Atlantic	(D)	(D)	1.9
R Norkotah	10.0	6.8	4.8	Defender	(D)	(D)	1.8
Snowden	7.1	4.3	4.4	Dakota Crisp	(D)	(D)	1.2
Norwis	4.0	2.2	2.6	Yukon Gold	3.0	1.6	(D)
Superior	2.4	3.5	2.6	Modoc	2.6	1.7	(D)
Goldrush	5.6	3.6	2.5	Premier	(D)	2.8	(D)
Innovator	3.4	5.6	2.1	Other	5.2	5.1	2.6
Keuka Gold	2.9	2.7	1.5	Washington			
Nadine	(D)	(D)	1.5	Russet Burbank	28.7	32.6	31.1
Lamoka	(D)	(D)	1.4	Ranger R	14.3	6.6	14.4
Waneta	(D)	(D)	1.1	R Norkotah	10.3	16.2	13.3
Blazer R	2.4	1.4	1.0	Umatilla R	15.1	15.4	12.9
Atlantic	2.0	2.1	(D)	Alturas	6.4	6.0	5.9
Ontario	1.1	1.4	(D)	Frito-Lay	4.2	1.5	4.2
Reba	(D)	1.6	(D)	Chieftain	1.3	4.1	3.4
Shepody	(D)	1.1	(D)	Clearwater	1.7	1.3	3.0
Katahdin	(D)	1.1	(D)	Shepody	3.4	1.8	1.8
Other	10.5	10.4	13.1	NW1	(D)	(D)	1.5
Minnesota				Bintje	(D)	(D)	1.5
Russet Burbank	48.7	52.6	63.7	Lamoka	(D)	1.0	1.1
Norland	18.3	16.8	13.9	Cherry Red	1.9	(D)	(D)
Umatilla R	10.0	8.4	7.5	Pike	1.0	2.2	(D)
Dakota Pearl	2.2	4.2	3.4	Snowden	(D)	2.2	(D)
Goldrush	1.9	1.9	1.5	Other	11.7	9.1	5.9
Dakota Rose	(D)	(D)	1.1	Wisconsin			
Alpine	1.3	1.6	1.0	Frito-Lay	22.0	24.0	23.1
Chieftan	1.9	3.7	1.0	Russet Burbank	15.3	17.0	15.8
Modoc	1.4	2.8	(D)	Goldrush	10.5	12.0	12.2
Shepody	1.0	(D)	(D)	R Norkotah	11.1	12.1	10.5
Norkotah	1.0	(D)	(D)	Norland	7.2	5.2	7.7
Cascade	(D)	1.2	(D)	Silverton R	4.5	6.6	6.4
Satina	(D)	1.0	(D)	Umatillas	5.2	4.9	6.2
Other	12.3	5.8	6.9	Snowden	6.0	5.8	5.1
North Dakota				Lamoka	1.1	2.8	2.6
Russet Burbank	33.0	35.6	39.2	Atlantic	1.6	2.5	2.4
Prospect	12.6	11.8	19.0	Superior	1.8	1.4	1.8
Umatilla	11.3	10.0	12.1	Innovator	2.7	(D)	(D)
Dakota Pearl	3.4	8.8	5.6	White Pearl	1.6	(D)	(D)
Bannock	9.6	5.9	4.9	Mega Chip	1.1	(D)	(D)
Ranger	6.5	8.2	4.4	Yukon Gold	1.0	1.2	(D)
Norland	11.0	5.0	2.7	Ranger	(D)	1.2	(D)
Red la Soda	1.7	(D)	2.3	Other	7.3	3.3	6.2

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

Percent of Fall Potatoes Planted to Major Varieties – Seven-State Total: 2014-2016 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		
	2014	2015	2016		2014	2015	2016
Russet Burbank	37.2	40.9	40.9	Hi Lite Russet	(D)	(D)	0.1
R Norkotah	11.4	12.7	11.9	Cal White	0.5	0.2	0.1
Ranger R	11.4	8.8	9.5	Canella	(D)	0.1	0.1
Umatilla R	6.8	7.4	6.8	Keuka Gold	0.2	0.2	0.1
Frito-Lay	4.0	3.7	4.6	Dakota Rose	(D)	(D)	0.1
Norland	3.9	3.0	2.7	Nadine	(D)	(D)	0.1
Alturas	2.9	2.2	2.3	Colorado Rose	(D)	0.1	0.1
Prospect	1.4	1.2	2.2	Waneta	(D)	(D)	0.1
Bannock	1.7	1.5	1.5	Defender	(D)	(D)	0.1
Clearwater	0.7	0.6	1.5	Red Pontiac	(D)	(D)	0.1
Goldrush	1.4	1.4	1.3	Modoc	0.3	0.3	0.1
Lamoka	0.2	0.7	1.0	Alegria	(D)	(D)	0.1
Shepody	1.6	0.9	1.0	Blazer	0.2	0.1	0.1
Dakota Pearl	0.6	1.1	0.9	Gala	(D)	(D)	0.1
Chieftain	0.8	1.4	0.9	Ontario	(D)	0.1	0.1
Snowden	1.2	1.4	0.8	Ivory Crisp	0.4	0.2	0.1
Silverton	0.4	0.5	0.6	All Blue	(D)	0.1	0.1
Atlantic	0.5	0.5	0.5	Cherry Red	0.6	(D)	(D)
Western Russet	0.3	0.1	0.4	Rio Grande	0.2	(D)	(D)
Red La Soda	0.3	0.1	0.4	White Pearl	0.1	(D)	(D)
Classics	(D)	(D)	0.4	Klondike Rose	0.1	(D)	(D)
Pike	0.4	0.6	0.3	La Chipper	(D)	0.3	(D)
Innate	(D)	(D)	0.3	Rosara	(D)	0.1	(D)
Superior	0.3	0.4	0.3	Premier	(D)	0.1	(D)
NW1	(D)	(D)	0.3	Reba	(D)	0.1	(D)
Teton	(D)	(D)	0.3	Granola	(D)	0.1	(D)
Bintje	(D)	(D)	0.3	Katahdin	(D)	0.1	(D)
Yukon Gold	0.6	0.5	0.3	Klondike Gold Dust	(D)	0.1	(D)
Agata	0.2	0.1	0.2	Sangre	(D)	0.1	(D)
Dakota Russet	(D)	(D)	0.2	Other	5.5	4.5	2.3
Alpine	0.2	0.4	0.2				
Nor Donna	(D)	(D)	0.2				
Norwis	0.3	0.1	0.2				
Cultivate	(D)	(D)	0.2				
Highland	(D)	(D)	0.2				
Dakota Crisp	(D)	0.1	0.1				
Cascade	0.2	0.2	0.1				
Innovator	0.9	0.4	0.1				
Satina	0.1	0.2	0.1				

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

Potato Objective Yield Data

The National Agricultural Statistics Service is conducting objective yield surveys in seven fall potato-producing States during 2016. 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: 2012-2016

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	2012	6	18,368	5	12,828	3	13,110	197	12,615
	2013	7	12,944	6	12,565	(D)	(D)	188	12,793
	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
Maine	2012	4	12,589	41	11,810	6	11,471	82	9,669
	2013	8	13,306	56	13,468	9	12,427	41	10,005
	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
Minnesota	2012	37	13,295	13	12,782	(D)	(D)	88	11,659
	2013	33	13,150	9	11,666	-	-	91	12,348
	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
North Dakota	2012	12	11,920	29	11,818	(D)	(D)	91	13,064
	2013	22	10,496	39	11,057	5	13,161	68	12,406
	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
Oregon	2012	6	12,430	20	11,944	3	10,692	83	12,626
	2013	(D)	(D)	14	12,926	(D)	(D)	60	12,627
	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
Washington	2012	8	21,307	10	14,424	5	19,354	111	14,638
	2013	5	18,686	12	15,693	(D)	(D)	80	15,271
	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
Wisconsin	2012	8	15,843	43	15,000	(D)	(D)	66	12,884
	2013	13	16,048	43	14,327	3	17,259	49	12,545
	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

- Represents zero.

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

Fall Potato Harvest Loss by Type – Selected States: 2012-2016

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	2012	(D)	(D)	(D)	25	26
	2013	(D)	18	-	29	27
	2014	(D)	-	-	23	23
	2015	(D)	(D)	(D)	17	17
	2016	-	(D)	-	22	22
Maine	2012	(D)	31	(D)	24	26
	2013	13	(D)	(D)	(D)	15
	2014	28	15	(D)	19	18
	2015	(D)	17	(D)	24	20
	2016	11	12	-	24	19
Minnesota	2012	9	14	-	31	24
	2013	12	(D)	-	33	29
	2014	16	(D)	-	39	32
	2015	19	(D)	-	43	36
	2016	14	(D)	-	33	30
North Dakota	2012	17	39	-	50	43
	2013	20	34	(D)	53	40
	2014	15	34	-	34	31
	2015	18	23	(D)	32	27
	2016	(D)	31	(D)	50	44
Oregon	2012	(D)	22	-	19	19
	2013	-	(D)	-	21	24
	2014	(D)	24	-	16	17
	2015	(D)	(D)	-	29	27
	2016	(D)	21	-	16	17
Washington	2012	(D)	(D)	-	22	20
	2013	(D)	(D)	-	20	19
	2014	-	33	-	18	20
	2015	-	14	-	15	15
	2016	(D)	34	-	23	26
Wisconsin	2012	7	9	-	7	8
	2013	(D)	37	(D)	14	22
	2014	(D)	12	(D)	15	13
	2015	(D)	29	-	19	22
	2016	8	11	-	20	14

- Represents zero.

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

Fall Potato Grading Categories by Type – Selected States: 2014-2016

[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		
	2014 (percent)	2015 (percent)	2016 (percent)	2014 (percent)	2015 (percent)	2016 (percent)	2014 (percent)	2015 (percent)	2016 (percent)
Round red potatoes									
Minnesota	66.2	74.7	74.1	28.4	16.1	18.0	5.4	9.2	7.9
North Dakota	77.7	76.2	(D)	19.6	16.0	(D)	2.7	7.8	(D)
Wisconsin	(D)	(D)	78.8	(D)	(D)	20.7	(D)	(D)	0.5
Round white potatoes									
Maine ³	88.5	82.6	85.0	7.8	7.0	7.4	3.7	10.4	7.6
North Dakota	71.9	83.9	(D)	16.9	12.2	(D)	11.2	3.9	(D)
Oregon	87.8	95.2	91.6	10.3	3.9	5.6	1.9	0.9	2.8
Wisconsin	87.2	77.3	85.1	12.6	22.6	14.8	0.2	0.1	0.1
All long potatoes ⁴									
Idaho ⁵	80.1	73.7	82.0	18.6	24.8	13.4	1.3	1.5	4.6
Maine ³	85.9	90.8	87.6	9.8	7.0	6.0	4.3	2.2	6.4
Minnesota	70.2	73.9	71.9	20.3	15.5	21.8	9.5	10.6	6.3
North Dakota	77.6	82.3	72.3	15.4	11.4	18.9	7.0	6.3	8.8
Oregon	78.6	75.5	80.5	19.9	22.1	15.0	1.5	2.4	4.5
Washington	78.6	74.9	82.4	20.3	23.5	12.2	1.1	1.6	5.4
Wisconsin	83.9	82.2	78.1	15.7	17.6	21.8	0.4	0.2	0.1

(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: 2014-2016

[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)
2014							
Red potatoes							
Minnesota	7.5	6.4	17.3	25.5	42.6	0.7	-
North Dakota	8.9	6.4	17.6	24.0	43.1	-	-
Wisconsin	(D)	(D)	(D)	(D)	(D)	(D)	(D)
White potatoes							
Maine ¹	2.7	2.9	13.1	15.8	60.2	5.2	0.1
North Dakota	5.6	5.8	14.8	20.1	51.4	2.3	-
Oregon	3.7	5.1	11.1	22.1	55.9	0.9	1.2
Wisconsin	2.7	3.1	9.7	16.0	65.5	2.5	0.5
2015							
Red potatoes							
Minnesota	8.0	5.0	13.2	18.2	53.8	1.8	-
North Dakota	6.1	5.5	18.4	24.9	45.1	-	-
Wisconsin	(D)	(D)	(D)	(D)	(D)	(D)	(D)
White potatoes							
Maine ¹	2.5	3.2	12.1	21.8	58.7	1.7	-
North Dakota	5.9	4.7	12.4	24.2	49.5	2.2	1.1
Oregon	1.0	2.6	5.6	8.5	31.1	47.4	3.8
Wisconsin	4.4	3.5	10.5	15.8	61.6	3.8	0.4
2016							
Red potatoes							
Minnesota	9.3	6.7	16.9	22.6	44.5	-	-
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wisconsin	8.7	8.8	20.3	28.4	33.8	-	-
White potatoes							
Maine ¹	2.0	2.8	9.4	16.4	61.9	6.3	1.2
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oregon	2.3	2.6	9.9	12.9	56.9	11.2	4.2
Wisconsin	3.6	3.3	10.9	18.1	61.8	1.8	0.5

- 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: 2014-2016

[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)
2014	4.7	4.5	32.9	20.9	14.5	9.2	6.4	6.9
2015	3.3	3.0	25.1	20.2	16.8	12.4	7.9	11.3
2016	1.0	2.1	23.0	18.4	16.3	12.5	7.4	19.3

All Long Potato Size Categories – Selected States: 2014-2016

[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
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
2014													
Idaho ¹	1.5	6.2	4.6	27.2	10.2	9.3	8.2	6.3	5.4	4.7	3.6	3.4	9.4
Minnesota	1.7	6.8	5.6	28.2	10.9	10.4	8.9	6.6	5.2	3.9	2.8	1.7	7.3
North Dakota	0.9	4.5	4.3	23.9	11.1	9.6	8.4	6.3	6.5	4.0	4.2	3.0	13.3
Oregon	1.1	4.6	3.3	23.7	9.2	9.4	7.2	7.1	6.3	5.4	4.4	3.5	14.8
Washington	0.6	3.5	3.0	22.8	9.4	8.5	8.2	6.7	5.5	5.7	4.7	3.7	17.7
Wisconsin	0.5	4.2	4.5	22.8	10.1	9.6	8.6	7.5	6.2	5.2	4.8	3.5	12.5
2015													
Idaho ¹	1.4	5.7	3.9	22.3	9.2	8.5	8.6	6.7	6.2	4.9	3.7	3.7	15.2
Minnesota	1.4	6.2	5.9	24.3	9.2	9.9	8.0	8.0	5.6	4.5	4.2	2.8	10.0
North Dakota	1.1	4.7	4.0	23.6	9.3	9.9	8.4	8.3	5.6	5.4	3.7	3.2	12.8
Oregon	0.9	3.8	3.0	19.6	8.9	7.8	8.3	8.3	7.1	5.0	4.9	3.9	18.5
Washington	0.8	4.5	3.1	20.6	8.9	8.1	7.8	6.7	6.0	5.9	4.6	2.8	20.2
Wisconsin	0.4	4.5	4.3	23.6	11.6	10.0	8.7	6.7	6.3	5.3	4.2	3.2	11.2
2016													
Idaho ¹	1.0	5.1	3.5	28.0	10.4	8.6	8.0	6.3	5.4	4.5	3.7	2.9	12.6
Minnesota	1.8	9.2	7.8	23.4	10.4	10.5	8.1	6.4	5.0	4.2	3.6	2.5	7.1
North Dakota	1.0	5.5	5.9	17.9	8.3	9.8	9.0	7.2	6.9	6.3	5.1	3.7	13.4
Oregon	0.8	3.2	2.6	18.1	8.9	7.1	7.7	6.7	7.2	5.2	5.6	4.5	22.4
Washington	0.6	2.8	2.3	22.1	9.5	8.6	9.2	7.0	6.7	4.9	4.8	4.1	17.4
Wisconsin	0.5	5.1	5.3	26.4	11.1	10.2	9.0	7.3	5.3	4.8	3.1	2.3	9.6

¹ Russets only.

Sweet Potato Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama ¹	2.1	2.6	(NA)	2.0	2.5	(NA)
Arkansas	4.0	4.0	(D)	3.9	3.8	(D)
California	19.0	18.5	20.0	19.0	18.5	20.0
Florida	6.0	5.6	(D)	5.9	5.4	(D)
Louisiana	9.0	10.0	10.0	8.8	9.0	9.5
Mississippi	22.0	27.0	30.0	21.5	26.0	29.0
New Jersey ¹	1.2	1.2	(NA)	1.2	1.2	(NA)
North Carolina	73.0	87.0	98.0	72.0	86.0	95.0
Texas ¹	1.0	1.0	(NA)	0.9	0.7	(NA)
Other States	-	-	10.1	-	-	9.8
United States	137.3	156.9	168.1	135.2	153.1	163.3

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(cwt)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Alabama ¹	220	220	(NA)	440	550	(NA)
Arkansas	200	195	(D)	780	741	(D)
California	275	340	310	5,225	6,290	6,200
Florida	200	205	(D)	1,180	1,107	(D)
Louisiana	230	220	160	2,024	1,980	1,520
Mississippi	175	145	170	3,763	3,770	4,930
New Jersey ¹	160	140	(NA)	192	168	(NA)
North Carolina	220	190	180	15,840	16,340	17,100
Texas ¹	155	100	(NA)	140	70	(NA)
Other States	-	-	183	-	-	1,796
United States	219	203	193	29,584	31,016	31,546

- Represents zero.

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

(NA) Not available.

¹ Estimates discontinued in 2016.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona ¹	11.0	9.4	(NA)	10.9	9.4	(NA)
California	48.0	45.0	50.0	47.5	44.5	49.0
Colorado	46.0	50.0	46.0	44.0	46.5	43.0
Idaho	125.0	120.0	140.0	124.0	119.0	137.0
Kansas ¹	7.5	8.0	(NA)	6.9	7.8	(NA)
Michigan	230.0	275.0	210.0	226.0	272.0	208.0
Minnesota	155.0	190.0	155.0	148.0	182.0	147.0
Montana	37.5	49.0	103.0	37.0	46.5	99.5
Nebraska	170.0	140.0	138.0	156.5	128.5	122.0
New Mexico ¹	10.5	12.9	(NA)	10.5	12.9	(NA)
New York ¹	8.0	8.0	(NA)	7.7	7.8	(NA)
North Dakota	630.0	655.0	625.0	615.0	635.0	565.0
Oregon ¹	8.5	9.0	(NA)	8.5	9.0	(NA)
South Dakota ¹	14.0	12.5	(NA)	12.9	11.6	(NA)
Texas	23.0	31.0	27.0	21.0	28.0	24.0
Washington	127.7	110.0	135.0	126.7	109.0	133.0
Wisconsin ¹	7.9	7.9	(NA)	7.9	7.9	(NA)
Wyoming	42.0	32.0	33.0	37.6	31.0	31.1
United States	1,701.6	1,764.7	1,662.0	1,648.6	1,708.4	1,558.6

State	Yield per acre ²			Production ²		
	2014	2015	2016	2014	2015	2016
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Arizona ¹	1,940	2,060	(NA)	211	194	(NA)
California	2,230	2,310	2,330	1,061	1,029	1,141
Colorado	1,900	1,820	1,750	835	846	751
Idaho	1,800	1,800	1,920	2,229	2,141	2,624
Kansas ¹	1,710	2,500	(NA)	118	195	(NA)
Michigan	1,940	2,030	1,920	4,375	5,533	4,002
Minnesota	1,950	2,140	2,230	2,886	3,896	3,279
Montana	1,630	1,340	1,620	603	624	1,613
Nebraska	2,500	2,380	2,270	3,916	3,057	2,766
New Mexico ¹	1,900	2,050	(NA)	200	264	(NA)
New York ¹	1,490	1,510	(NA)	115	118	(NA)
North Dakota	1,430	1,400	1,580	8,795	8,901	8,908
Oregon ¹	2,250	2,300	(NA)	191	207	(NA)
South Dakota ¹	1,880	1,770	(NA)	243	205	(NA)
Texas	1,220	1,400	1,100	256	392	264
Washington	1,480	1,450	1,980	1,881	1,582	2,631
Wisconsin ¹	2,480	2,030	(NA)	196	160	(NA)
Wyoming	2,130	2,300	2,360	799	713	733
United States	1,754	1,759	1,842	28,910	30,057	28,712

(NA) Not available.

¹ Estimates discontinued in 2016.

² Clean basis.

Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2014-2016

Class and State	Area planted			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Large lima						
California	8.1	10.7	13.7	7.9	10.5	13.7
Baby lima						
California	14.9	8.9	7.9	14.9	8.9	7.8
Navy						
Idaho	1.5	(¹)	1.2	1.5	(¹)	1.0
Michigan	75.0	80.0	67.0	74.3	79.8	66.3
Minnesota	50.4	49.5	39.5	47.2	47.1	37.5
Nebraska	(¹)	1.1	1.0	(¹)	1.1	0.8
North Dakota	107.0	102.0	83.0	104.0	98.5	73.0
Oregon ²	(¹)	(¹)	(NA)	(¹)	(¹)	(NA)
South Dakota ²	5.2	2.9	(NA)	4.8	2.7	(NA)
Washington	1.1	(¹)	(¹)	1.1	(¹)	(¹)
Wyoming	0.5	(¹)	(¹)	0.4	(¹)	(¹)
United States	240.7	235.5	191.7	233.3	229.2	178.6
Great northern						
Idaho	4.0	2.7	1.3	4.0	2.7	1.2
Minnesota	(¹)	(¹)	-	(¹)	(¹)	-
Nebraska	79.3	37.0	37.0	72.3	34.7	31.9
North Dakota	10.3	5.0	3.4	10.1	4.9	3.3
Washington	(¹)	(¹)	-	(¹)	(¹)	-
Wyoming	13.5	(¹)	(¹)	12.5	(¹)	(¹)
United States	107.1	44.7	41.7	98.9	42.3	36.4
Small white						
Idaho	2.3	2.0	(¹)	2.3	2.0	(¹)
Oregon ²	(¹)	1.4	(NA)	(¹)	1.4	(NA)
Washington	(¹)	1.7	(¹)	(¹)	1.7	(¹)
United States	2.3	5.1	(¹)	2.3	5.1	(¹)

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2014-2016 (continued)

Class and State	Yield per acre ³			Production ³		
	2014 (pounds)	2015 (pounds)	2016 (pounds)	2014 (1,000 cwt)	2015 (1,000 cwt)	2016 (1,000 cwt)
Large lima						
California	2,410	2,450	2,190	190	257	300
Baby lima						
California	2,010	2,500	2,680	299	223	209
Navy						
Idaho	2,600	(¹)	2,700	39	(¹)	27
Michigan	2,180	2,140	1,970	1,620	1,708	1,306
Minnesota	1,820	2,300	2,240	859	1,083	840
Nebraska	(¹)	2,500	2,800	(¹)	28	22
North Dakota	1,560	1,720	1,810	1,622	1,694	1,321
Oregon ²	(¹)	(¹)	(NA)	(¹)	(¹)	(NA)
South Dakota ²	2,070	1,800	(NA)	99	49	(NA)
Washington	2,360	(¹)	(¹)	26	(¹)	(¹)
Wyoming	2,000	(¹)	(¹)	8	(¹)	(¹)
United States	1,832	1,990	1,969	4,273	4,562	3,516
Great northern						
Idaho	2,400	2,700	2,400	96	73	29
Minnesota	(¹)	(¹)	-	(¹)	(¹)	-
Nebraska	2,550	2,200	2,340	1,844	763	746
North Dakota	1,800	1,610	2,120	182	79	70
Washington	(¹)	(¹)	-	(¹)	(¹)	-
Wyoming	2,100	(¹)	(¹)	263	(¹)	(¹)
United States	2,412	2,163	2,321	2,385	915	845
Small white						
Idaho	1,830	2,000	(¹)	42	40	(¹)
Oregon ²	(¹)	2,430	(NA)	(¹)	34	(NA)
Washington	(¹)	2,410	(¹)	(¹)	41	(¹)
United States	1,830	2,255	(¹)	42	115	(¹)

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2014-2016 (continued)

Class and State	Area planted			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Pinto						
Arizona ²	4.8	4.0	(NA)	4.8	4.0	(NA)
Colorado	35.0	37.0	38.0	33.5	34.5	35.5
Idaho	19.0	19.0	17.0	19.0	19.0	16.5
Kansas ²	5.5	6.3	(NA)	5.4	6.2	(NA)
Michigan	2.0	2.1	(¹)	1.9	2.0	(¹)
Minnesota	9.8	10.7	21.7	9.3	10.3	19.3
Montana	6.0	4.4	4.0	5.8	4.3	3.5
Nebraska	72.6	78.3	84.0	66.8	75.0	76.0
New Mexico ²	10.5	12.9	(NA)	10.5	12.9	(NA)
North Dakota	404.0	369.0	424.0	397.0	360.0	383.0
Oregon ²	1.0	(¹)	(NA)	1.0	(¹)	(NA)
South Dakota ²	2.9	2.9	(NA)	2.7	2.7	(NA)
Washington	12.0	9.0	11.0	12.0	9.0	10.2
Wyoming	24.8	25.0	22.0	22.4	24.1	20.5
United States	609.9	580.6	621.7	592.1	564.0	564.5
Light red kidney						
California	1.9	0.9	0.3	1.9	0.9	0.3
Colorado	5.6	8.0	(¹)	5.3	7.5	(¹)
Idaho	1.7	2.1	0.9	1.7	2.1	0.9
Michigan	8.3	9.1	8.6	8.2	8.9	8.5
Minnesota	17.2	22.8	8.3	16.9	21.9	8.2
Nebraska	12.3	17.6	4.3	11.8	12.0	2.2
New York ²	3.7	2.3	(NA)	3.5	2.2	(NA)
Oregon ²	0.9	0.8	(NA)	0.9	0.8	(NA)
Washington	3.6	3.6	(¹)	3.6	3.6	(¹)
United States	55.2	67.2	22.4	53.8	59.9	20.1
Dark red kidney						
California	1.4	3.0	1.5	1.4	3.0	1.2
Idaho	1.5	1.5	0.7	1.5	1.5	0.7
Michigan	3.3	4.5	2.9	2.7	3.8	2.8
Minnesota	39.9	53.1	43.1	38.4	50.5	42.0
New York ²	1.4	2.4	(NA)	1.4	2.3	(NA)
North Dakota	1.7	3.2	3.3	1.4	3.1	3.2
Oregon ²	(¹)	0.8	(NA)	(¹)	0.8	(NA)
Washington	3.5	2.9	1.5	3.5	2.9	1.5
Wisconsin ^{2,4}	6.6	7.9	(NA)	6.6	7.9	(NA)
United States	59.3	79.3	53.0	56.9	75.8	51.4

See footnote(s) at end of table.

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Dry Edible Bean Area Planted, Harvested, Yield, and Production by Commercial Class – States and United States: 2014-2016 (continued)

Class and State	Yield per acre ³			Production ³		
	2014 (pounds)	2015 (pounds)	2016 (pounds)	2014 (1,000 cwt)	2015 (1,000 cwt)	2016 (1,000 cwt)
Pinto						
Arizona ²	1,900	2,100	(NA)	91	84	(NA)
Colorado	1,840	1,830	1,700	616	631	604
Idaho	2,470	2,640	2,400	469	502	396
Kansas ²	1,700	2,500	(NA)	92	155	(NA)
Michigan	1,600	1,580	(¹)	30	32	(¹)
Minnesota	1,530	1,700	1,640	142	175	317
Montana	2,200	2,000	2,300	128	86	81
Nebraska	2,410	2,430	2,220	1,610	1,823	1,687
New Mexico ²	1,900	2,050	(NA)	200	264	(NA)
North Dakota	1,430	1,370	1,500	5,677	4,932	5,745
Oregon ²	2,300	(¹)	(NA)	23	(¹)	(NA)
South Dakota ²	2,360	1,900	(NA)	64	51	(NA)
Washington	2,210	2,500	3,200	265	225	326
Wyoming	2,150	2,250	2,350	482	542	482
United States	1,670	1,685	1,707	9,889	9,502	9,638
Light red kidney						
California	2,420	1,890	3,330	46	17	10
Colorado	2,180	1,790	(¹)	116	134	(¹)
Idaho	2,530	2,100	2,400	43	44	22
Michigan	1,590	1,800	1,760	130	160	150
Minnesota	2,130	2,000	2,800	360	438	230
Nebraska	2,780	2,480	2,280	328	298	50
New York ²	1,390	1,360	(NA)	49	30	(NA)
Oregon ²	2,560	2,500	(NA)	23	20	(NA)
Washington	1,940	2,310	(¹)	70	83	(¹)
United States	2,165	2,043	2,299	1,165	1,224	462
Dark red kidney						
California	1,860	1,970	1,080	26	59	13
Idaho	2,200	2,330	2,400	33	35	17
Michigan	930	1,340	1,070	25	51	30
Minnesota	2,070	2,160	2,360	795	1,091	991
New York ²	1,890	1,890	(NA)	26	43	(NA)
North Dakota	1,380	1,680	1,150	19	52	37
Oregon ²	(¹)	2,380	(NA)	(¹)	19	(NA)
Washington	2,090	2,210	2,500	73	64	38
Wisconsin ^{2,4}	2,490	2,020	(NA)	164	160	(NA)
United States	2,040	2,077	2,191	1,161	1,574	1,126

See footnote(s) at end of table.

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Dry Edible Bean Area Planted, Harvested, Yield, and Production by Commercial Class – States and United States: 2014-2016 (continued)

Class and State	Area planted			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Pink						
Idaho	6.0	5.0	8.0	6.0	5.0	7.7
Minnesota	4.3	4.1	(¹)	4.0	4.0	(¹)
North Dakota	11.1	9.9	8.1	11.0	9.6	7.3
Oregon ²	(¹)	-	(NA)	(¹)	-	(NA)
Washington	1.0	0.5	(¹)	1.0	0.5	(¹)
United States	22.4	19.5	16.1	22.0	19.1	15.0
Small red						
Idaho	8.0	12.0	7.5	8.0	12.0	7.2
Michigan	20.0	27.8	19.1	19.6	27.3	19.0
Minnesota	(¹)	(¹)	-	(¹)	(¹)	-
North Dakota	2.7	7.3	3.2	2.6	7.0	3.1
Washington	4.0	6.6	4.0	4.0	6.6	3.7
United States	34.7	53.7	33.8	34.2	52.9	33.0
Cranberry						
California	0.8	0.4	0.3	0.8	0.4	0.3
Idaho	(¹)	(¹)	-	(¹)	(¹)	-
Michigan	5.0	6.1	2.6	4.9	5.9	2.6
Minnesota	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Oregon ²	(¹)	(¹)	(NA)	(¹)	(¹)	(NA)
Washington	-	1.7	0.7	-	1.7	0.7
United States	5.8	8.2	3.6	5.7	8.0	3.6
Black						
Idaho	1.4	2.8	3.5	1.4	2.8	3.3
Michigan	110.0	140.0	104.0	108.0	139.0	103.0
Minnesota	23.4	34.3	29.6	23.1	33.0	28.6
Nebraska	3.9	3.8	6.1	3.7	3.6	5.8
New York ²	1.9	2.0	(NA)	1.8	2.0	(NA)
North Dakota	80.0	142.0	83.0	76.0	135.8	76.0
Oregon ²	0.8	1.1	(NA)	0.8	1.1	(NA)
Washington	5.0	6.2	4.0	5.0	6.2	3.8
United States	226.4	332.2	230.2	219.8	323.5	220.5
Blackeye						
Arizona ²	2.4	(D)	(NA)	2.4	(D)	(NA)
California	7.4	8.2	12.5	7.4	8.2	12.3
Texas	21.5	29.0	25.0	20.0	27.0	23.0
United States	31.3	37.2	37.5	29.8	35.2	35.3
Small chickpeas ⁵						
Idaho	29.0	32.0	39.0	29.0	32.0	38.8
Montana	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	-	(D)	-	-	(D)
North Dakota	2.0	5.0	3.8	1.9	4.8	3.7
Oregon ²	(D)	(D)	(NA)	(D)	(D)	(NA)
South Dakota ²	(D)	-	(NA)	(D)	-	(NA)
Washington	22.0	20.0	29.0	22.0	20.0	28.9
Other States ⁶	13.8	15.2	42.0	13.7	14.9	39.4
United States	66.8	72.2	113.8	66.6	71.7	110.8

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2014-2016 (continued)

Class and State	Yield per acre ³			Production ³		
	2014 (pounds)	2015 (pounds)	2016 (pounds)	2014 (1,000 cwt)	2015 (1,000 cwt)	2016 (1,000 cwt)
Pink						
Idaho	2,600	2,440	2,700	156	122	208
Minnesota	1,750	1,820	(¹)	70	73	(¹)
North Dakota	1,030	1,380	1,350	113	132	99
Oregon ²	(¹)	-	(NA)	(¹)	-	(NA)
Washington	2,700	2,600	(¹)	27	13	(¹)
United States	1,664	1,780	2,047	366	340	307
Small red						
Idaho	2,630	2,330	2,400	210	280	173
Michigan	1,830	2,020	1,830	359	551	348
Minnesota	(¹)	(¹)	-	(¹)	(¹)	-
North Dakota	1,970	1,760	1,300	51	123	40
Washington	2,200	2,300	2,600	88	152	96
United States	2,070	2,091	1,991	708	1,106	657
Cranberry						
California	2,380	1,750	2,000	19	7	6
Idaho	(¹)	(¹)	-	(¹)	(¹)	-
Michigan	1,460	1,710	1,580	72	101	41
Minnesota	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Oregon ²	(¹)	(¹)	(NA)	(¹)	(¹)	(NA)
Washington	-	2,290	2,600	-	39	18
United States	1,596	1,838	1,806	91	147	65
Black						
Idaho	2,570	2,540	2,700	36	71	89
Michigan	1,920	2,050	1,970	2,074	2,850	2,029
Minnesota	2,030	2,200	2,470	469	726	706
Nebraska	2,760	2,750	2,570	102	99	149
New York ²	1,150	1,330	(NA)	21	27	(NA)
North Dakota	1,300	1,210	1,700	988	1,643	1,292
Oregon ²	2,750	2,220	(NA)	22	24	(NA)
Washington	2,460	2,400	2,500	123	149	95
United States	1,745	1,728	1,977	3,835	5,589	4,360
Blackeye						
Arizona ²	2,300	(D)	(NA)	55	(D)	(NA)
California	2,390	2,280	2,590	177	187	319
Texas	1,220	1,400	1,100	244	378	253
United States	1,597	1,605	1,620	476	565	572
Small chickpeas ⁵						
Idaho	1,410	1,400	1,700	409	448	660
Montana	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	-	(D)	-	-	(D)
North Dakota	1,550	1,600	1,800	29	77	67
Oregon ²	(D)	(D)	(NA)	(D)	(D)	(NA)
South Dakota ²	(D)	-	(NA)	(D)	-	(NA)
Washington	1,180	1,080	2,000	260	216	578
Other States ⁶	1,496	1,107	1,607	205	165	633
United States	1,356	1,264	1,749	903	906	1,938

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2014-2016 (continued)

Class and State	Area planted			Area harvested		
	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)	2014 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Large chickpeas ⁷						
California	9.3	7.7	10.2	9.0	7.5	10.0
Idaho	45.0	38.0	53.0	44.0	37.0	52.1
Montana	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	0.2	(D)	-	0.2	(D)
North Dakota	4.4	2.4	9.4	4.3	2.3	9.3
Oregon ²	(D)	(D)	(NA)	(D)	(D)	(NA)
South Dakota ²	(D)	3.2	(NA)	(D)	2.9	(NA)
Washington	68.0	55.0	79.0	67.0	54.0	78.5
Other States ⁶	21.6	28.8	59.9	21.2	26.7	59.3
United States	148.3	135.3	211.5	145.5	130.6	209.2
All chickpeas (Garbanzo)						
California	9.3	7.7	10.2	9.0	7.5	10.0
Idaho	74.0	70.0	92.0	73.0	69.0	90.9
Montana	31.5	43.0	99.0	31.2	40.6	96.0
Nebraska	-	0.2	2.9	-	0.2	2.7
North Dakota	6.4	7.4	13.2	6.2	7.1	13.0
Oregon ²	1.1	1.0	(NA)	1.1	1.0	(NA)
South Dakota ²	2.8	3.2	(NA)	2.6	2.9	(NA)
Washington	90.0	75.0	108.0	89.0	74.0	107.4
United States	215.1	207.5	325.3	212.1	202.3	320.0
Other						
Arizona ²	3.8	5.4	(NA)	3.7	5.4	(NA)
California	4.2	5.2	3.6	4.2	5.1	3.4
Colorado	5.4	5.0	8.0	5.2	4.5	7.5
Idaho	5.6	2.9	7.9	5.6	2.9	7.6
Kansas ²	2.0	1.7	(NA)	1.5	1.6	(NA)
Michigan	6.4	5.4	5.8	6.4	5.3	5.8
Minnesota	10.0	15.5	12.8	9.1	15.2	11.4
Montana	-	1.6	-	-	1.6	-
Nebraska	1.9	2.0	2.7	1.9	1.9	2.6
New York ²	1.0	1.3	(NA)	1.0	1.3	(NA)
North Dakota	6.8	9.2	3.8	6.7	9.0	3.1
Oregon ²	4.7	3.9	(NA)	4.7	3.9	(NA)
South Dakota ²	3.1	3.5	(NA)	2.8	3.3	(NA)
Texas	1.5	2.0	2.0	1.0	1.0	1.0
Washington	7.5	2.8	5.8	7.5	2.8	5.7
Wisconsin ²	1.3	-	(NA)	1.3	-	(NA)
Wyoming	3.2	7.0	11.0	2.3	6.9	10.6
United States	68.4	74.4	63.4	64.9	71.7	58.7
All dry edible beans						
United States	1,701.6	1,764.7	1,662.0	1,648.6	1,708.4	1,558.6

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2014-2016 (continued)

Class and State	Yield per acre ³			Production ³		
	2014 (pounds)	2015 (pounds)	2016 (pounds)	2014 (1,000 cwt)	2015 (1,000 cwt)	2016 (1,000 cwt)
Large chickpeas⁷						
California	2,400	2,490	2,120	216	187	212
Idaho	1,260	1,220	1,600	554	451	834
Montana	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	870	(D)	-	2	(D)
North Dakota	1,100	700	2,000	47	16	186
Oregon ²	(D)	(D)	(NA)	(D)	(D)	(NA)
South Dakota ²	(D)	1,600	(NA)	(D)	46	(NA)
Washington	1,140	1,000	1,700	764	540	1,335
Other States ⁶	1,519	1,367	1,589	322	365	942
United States	1,308	1,230	1,677	1,903	1,607	3,509
All chickpeas (Garbanzo)						
California	2,400	2,490	2,120	216	187	212
Idaho	1,320	1,300	1,640	963	899	1,494
Montana	1,520	1,270	1,600	475	517	1,532
Nebraska	-	870	1,590	-	2	43
North Dakota	1,230	1,310	1,950	76	93	253
Oregon ²	1,360	1,300	(NA)	15	13	(NA)
South Dakota ²	1,420	1,590	(NA)	37	46	(NA)
Washington	1,150	1,020	1,780	1,024	756	1,913
United States	1,323	1,242	1,702	2,806	2,513	5,447
Other						
Arizona ²	1,760	2,040	(NA)	65	110	(NA)
California	2,100	1,800	2,120	88	92	72
Colorado	1,980	1,800	1,960	103	81	147
Idaho	2,540	2,590	2,220	142	75	169
Kansas ²	1,730	2,500	(NA)	26	40	(NA)
Michigan	1,020	1,510	1,690	65	80	98
Minnesota	2,100	2,040	1,710	191	310	195
Montana	-	1,310	-	-	21	-
Nebraska	1,680	2,320	2,650	32	44	69
New York ²	1,900	1,380	(NA)	19	18	(NA)
North Dakota	1,000	1,700	1,650	67	153	51
Oregon ²	2,300	2,490	(NA)	108	97	(NA)
South Dakota ²	1,540	1,790	(NA)	43	59	(NA)
Texas	1,200	1,400	1,100	12	14	11
Washington	2,470	2,140	2,540	185	60	145
Wisconsin ²	2,460	-	(NA)	32	-	(NA)
Wyoming	2,000	2,480	2,370	46	171	251
United States	1,886	1,987	2,058	1,224	1,425	1,208
All dry edible beans						
United States	1,754	1,759	1,842	28,910	30,057	28,712

- Represents zero.

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

(NA) Not available.

¹ Data are included in "Other" class to avoid disclosing data for individual operations.

² Estimates discontinued in 2016.

³ Clean basis.

⁴ Includes light red kidney to avoid disclosure of individual operations.

⁵ Chickpeas (or Garbanzo beans) smaller than 20/64 inches.

⁶ Includes data withheld above.

⁷ Chickpeas (or Garbanzo beans) larger than 20/64 inches.

Lentil Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	25.0	33.0	38.0	24.0	32.0	37.0
Montana	130.0	235.0	520.0	119.0	222.0	505.0
North Dakota	75.0	165.0	305.0	66.0	162.0	297.0
Washington	51.0	60.0	70.0	50.0	59.0	69.0
United States	281.0	493.0	933.0	259.0	475.0	908.0

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	1,100	800	1,550	264	256	574
Montana	1,480	1,100	1,460	1,761	2,442	7,373
North Dakota	1,320	1,310	1,270	871	2,122	3,772
Washington	1,100	750	1,400	550	443	966
United States	1,331	1,108	1,397	3,446	5,263	12,685

Wrinkled Seed Pea Production – States and United States: 2014-2016

State	Production		
	2014	2015	2016
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	138	154	157
Washington	480	230	282
United States	618	384	439

Dry Edible Pea Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

[Excludes both wrinkled seed peas and Austrian winter peas]

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	46.0	51.0	29.0	44.0	50.0	28.0
Montana	525.0	595.0	610.0	504.0	550.0	580.0
Nebraska ¹	(NA)	(NA)	55.0	(NA)	(NA)	52.0
North Dakota	265.0	385.0	560.0	255.0	375.0	545.0
Oregon	9.0	7.0	6.0	8.5	6.5	5.8
South Dakota ¹	(NA)	(NA)	32.0	(NA)	(NA)	30.0
Washington	90.0	105.0	90.0	88.0	102.0	89.0
United States	935.0	1,143.0	1,382.0	899.5	1,083.5	1,329.8

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	1,800	1,400	2,500	792	700	700
Montana	1,800	1,450	1,950	9,072	7,975	11,310
Nebraska ¹	(NA)	(NA)	1,340	(NA)	(NA)	697
North Dakota	2,130	2,150	2,250	5,432	8,063	12,263
Oregon	2,200	1,800	2,600	187	117	151
South Dakota ¹	(NA)	(NA)	1,600	(NA)	(NA)	480
Washington	1,900	1,400	2,400	1,672	1,428	2,136
United States	1,907	1,687	2,086	17,155	18,283	27,737

(NA) Not available.

¹ Estimates began in 2016.

Austrian Winter Pea Area Planted and Harvested, Yield, and Production – States and United States: 2014-2016

State	Area planted			Area harvested		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	9.0	13.0	18.0	7.5	11.0	17.0
Montana	12.0	15.0	15.0	7.0	5.0	7.0
Oregon	3.0	6.0	5.0	2.3	5.0	4.0
United States	24.0	34.0	38.0	16.8	21.0	28.0

State	Yield per acre			Production		
	2014	2015	2016	2014	2015	2016
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	1,600	1,200	1,800	120	132	306
Montana	1,100	1,050	1,300	77	53	91
Oregon	1,500	1,500	2,000	35	75	80
United States	1,381	1,238	1,704	232	260	477

Hop Area Harvested, Yield, and Production by Variety – States and United States: 2014-2016

State and variety	Area harvested			Yield per acre		
	2014 (acres)	2015 (acres)	2016 (acres)	2014 (pounds)	2015 (pounds)	2016 (pounds)
Idaho						
Apollo ^R	285	286	235	2,004	2,062	1,893
Bravo ^R	126	166	151	2,579	2,625	2,359
Calypso	-	81	81	-	1,710	1,937
Cascade	821	770	788	1,746	1,633	1,585
Centennial	74	(D)	(D)	754	(D)	(D)
Chinook	344	358	418	1,673	1,850	1,712
Citra TM	91	412	576	1,200	1,271	1,213
Crystal	29	(D)	123	2,186	(D)	1,678
El Dorado ^R	63	205	227	1,144	1,125	1,658
Mosaic TM	-	272	496	-	2,278	2,204
Simcoe ^R	67	199	232	969	1,576	1,335
Super Galena ^R	161	92	69	2,165	2,189	1,872
Zeus	662	661	580	2,891	2,909	2,761
Experimental	41	72	9	1,366	1,269	1,000
Other Varieties ¹	979	1,289	1,663	1,354	1,348	1,174
Total	3,743	4,863	5,648	1,847	1,794	1,646
Oregon						
Cascade	961	1,085	1,211	1,402	1,994	1,597
Centennial	443	631	723	1,095	1,352	1,235
Chinook	-	129	107	-	1,860	1,675
Citra TM	-	246	654	-	980	1,047
Crystal	-	377	423	-	2,011	2,216
Fuggle	(D)	85	141	(D)	1,066	1,021
Golding	234	238	(D)	955	837	(D)
Liberty	(D)	210	(D)	(D)	1,360	(D)
Magnum	176	199	151	1,077	1,572	1,493
Mt. Hood	269	288	324	1,450	1,276	1,463
Nugget	1,363	1,484	1,460	1,978	1,888	1,925
Perle	100	(D)	(D)	1,057	(D)	(D)
Simcoe ^R	-	191	330	-	1,678	1,969
Sterling	130	209	228	1,423	1,344	1,626
Super Galena ^R	125	82	(D)	2,309	2,340	(D)
Tettnanger	(D)	133	122	(D)	1,242	1,193
Willamette	564	661	833	1,453	1,226	1,573
Experimental	(D)	(D)	(D)	(D)	(D)	(D)
Other varieties ¹	1,045	364	1,058	1,426	1,609	1,546
Total	5,410	6,612	7,765	1,520	1,613	1,596

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:
2014-2016 (continued)**

State and variety	Production		
	2014 (1,000 pounds)	2015 (1,000 pounds)	2016 (1,000 pounds)
Idaho			
Apollo ^R	571.1	589.6	444.9
Bravo ^R	324.9	435.7	356.2
Calypso	-	138.5	156.9
Cascade	1,433.1	1,257.8	1,248.9
Centennial	55.8	(D)	(D)
Chinook	575.4	662.2	715.5
Citra TM	109.2	523.7	698.5
Crystal	63.4	(D)	206.4
El Dorado ^R	72.1	230.6	376.3
Mosaic TM	-	619.7	1,093.4
Simcoe ^R	64.9	313.6	309.8
Super Galena ^R	348.5	201.4	129.2
Zeus	1,913.9	1,922.8	1,601.1
Experimental	56.0	91.4	9.0
Other Varieties ¹	1,325.5	1,737.9	1,951.6
Total	6,913.8	8,724.9	9,297.7
Oregon			
Cascade	1,347.4	2,163.0	1,934.5
Centennial	485.2	853.3	893.2
Chinook	-	240.0	179.2
Citra TM	-	241.0	684.7
Crystal	-	758.1	937.2
Fuggle	(D)	90.6	143.9
Golding	223.5	199.3	(D)
Liberty	(D)	285.6	(D)
Magnum	189.6	312.9	225.5
Mt. Hood	390.0	367.6	473.9
Nugget	2,696.4	2,802.1	2,810.9
Perle	105.7	(D)	(D)
Simco ^R	-	320.5	649.9
Sterling	185.0	280.8	370.8
Super Galena ^R	288.6	191.9	(D)
Tettnanger	(D)	165.2	145.6
Willamette	819.5	810.3	1,310.0
Experimental	(D)	(D)	(D)
Other varieties ¹	1,490.1	585.6	1,636.0
Total	8,221.0	10,667.8	12,395.3

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:
2014-2016 (continued)**

State and variety	Area harvested			Yield per acre		
	2014 (acres)	2015 (acres)	2016 (acres)	2014 (pounds)	2015 (pounds)	2016 (pounds)
Washington						
ADHA-483 Azacca™	79	175	506	1,704	1,872	1,870
ADHA-881 Jarrylo™	75	122	131	1,548	1,541	1,408
Ahtanum™	194	145	155	1,680	1,557	1,012
Apollo ^R	700	708	735	2,649	2,738	2,225
Bravo ^R	584	569	573	2,768	2,824	2,671
Cascade	4,837	4,935	5,582	1,824	1,936	1,727
Centennial	2,836	3,770	4,359	1,347	1,145	1,355
Chinook	1,297	1,300	1,415	1,815	1,793	1,420
Citra™	1,670	2,335	3,264	1,570	1,541	1,543
Cluster	728	666	623	1,825	1,705	1,700
Columbus/Tomahawk ^R	1,738	1,673	1,416	2,629	2,524	1,969
Comet	-	108	163	-	1,780	949
Crystal	181	131	191	1,366	1,183	1,475
El Dorado ^R	82	243	396	2,206	2,154	1,904
Galena	306	295	262	1,801	1,968	1,692
Glacier	126	155	145	1,202	996	1,168
Golding	94	53	(D)	772	854	(D)
Magnum	-	108	(D)	-	1,255	(D)
Millennium	113	(D)	(D)	1,996	(D)	(D)
Mosiac™	671	1,528	2,029	2,225	2,036	2,326
Mt. Hood	150	130	88	1,333	1,069	1,075
Northern Brewer	131	123	(D)	1,244	991	(D)
Nugget	265	202	186	1,583	1,927	1,774
Simcoe ^R	1,819	2,916	3,769	1,542	1,540	1,673
Summit™	2,522	1,620	1,769	2,105	1,969	1,648
Super Galena ^R	606	351	310	2,562	2,729	2,501
Vanguard	58	84	(D)	1,455	1,223	(D)
Willamette	595	698	728	1,130	1,007	1,277
YCR-4(Palisade ^R)	223	454	580	2,469	1,950	2,228
YCR-5(Warrior ^R)	192	(D)	(D)	1,821	(D)	(D)
Zeus	3,375	2,989	2,502	2,811	2,819	2,469
Experimental	392	316	567	1,625	1,546	1,592
Other varieties ¹	2,219	3,256	5,000	1,418	1,603	1,662
Total	28,858	32,158	37,444	1,936	1,849	1,748
United States²	38,011	43,633	50,857	1,868	1,807	1,713

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:
2014-2016 (continued)**

State and variety	Production		
	2014 (1,000 pounds)	2015 (1,000 pounds)	2016 (1,000 pounds)
Washington			
ADHA-483 Azacca TM	134.6	327.6	946.4
ADHA-881 Jarrylo TM	116.1	188.0	184.4
Ahtanum TM	326.0	225.8	156.9
Apollo ^R	1,854.3	1,938.6	1,635.6
Bravo ^R	1,616.7	1,606.7	1,530.5
Cascade	8,821.0	9,553.3	9,638.8
Centennial	3,818.8	4,317.3	5,908.6
Chinook	2,354.3	2,331.1	2,008.9
Citra TM	2,622.5	3,597.2	5,035.0
Cluster	1,328.6	1,135.7	1,058.8
Columbus/Tomahawk ^R	4,569.2	4,223.4	2,787.9
Comet	-	192.2	154.7
Crystal	247.2	155.0	281.7
El Dorado ^R	180.9	523.5	754.0
Galena	551.0	580.6	443.3
Glacier	151.5	154.4	169.3
Golding	72.6	45.3	(D)
Magnum	-	135.5	(D)
Millennium	225.6	(D)	(D)
Mosaic TM	1,493.2	3,111.6	4,720.4
Mt. Hood	199.9	139.0	94.6
Northern Brewer	163.0	121.9	(D)
Nugget	419.5	389.2	330.0
Simcoe ^R	2,805.8	4,489.5	6,305.1
Summit TM	5,308.3	3,189.6	2,914.5
Super Galena ^R	1,552.4	957.8	775.3
Vanguard	84.4	102.7	(D)
Willamette	672.5	703.1	929.3
YCR-4(Palisade ^R)	550.6	885.2	1,292.5
YCR-5(Warrior ^R)	349.7	(D)	(D)
Zeus	9,488.4	8,426.3	6,178.5
Experimental	637.0	488.4	902.7
Other varieties ¹	3,145.5	5,217.8	8,308.9
Total	55,861.1	59,453.3	65,446.6
United States²	70,995.9	78,846.0	87,139.6

- Represents zero.

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

^R Registered
TM Trademark

¹ Includes data withheld to avoid disclosure of individual operations and varieties not listed.

² Includes 330 acres of organics for 2016 with yield equal to 1,344 pounds per acre and production at 444,400 pounds.

Mint for Oil Area Harvested, Yield, and Production by Crop – States and United States: 2014-2016

Crop and State	Area harvested			Yield per acre		
	2014	2015	2016	2014	2015	2016
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)
Peppermint						
California	2.0	2.0	2.0	84	81	86
Idaho	14.7	15.2	15.4	105	105	110
Indiana	8.5	10.0	11.5	60	40	50
Michigan ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Oregon	20.0	21.0	19.5	90	95	85
Washington	15.0	14.0	13.8	100	110	110
Wisconsin	(D)	(D)	3.1	(D)	(D)	59
Other States ²	3.3	3.1	-	60	63	-
United States	63.5	65.3	65.3	90	90	89
Spearmint						
Idaho	1.2	1.3	(D)	130	145	(D)
Indiana	3.7	3.5	3.3	61	54	80
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Oregon	2.5	2.5	2.5	130	135	125
Washington	15.0	16.5	15.8	129	126	147
Native	8.5	9.5	9.3	140	145	165
Scotch	6.5	7.0	6.5	115	100	120
Wisconsin ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ²	2.0	2.0	2.9	70	68	109
United States	24.4	25.8	24.5	114	114	131
State	Production					
	2014	2015	2016			
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)			
Peppermint						
California	168	162	172			
Idaho	1,544	1,596	1,694			
Indiana	510	400	575			
Michigan ¹	(D)	(D)	(NA)			
Oregon	1,800	1,995	1,658			
Washington	1,500	1,540	1,518			
Wisconsin	(D)	(D)	183			
Other States ²	197	195	-			
United States	5,719	5,888	5,800			
Spearmint						
Idaho	156	189	(D)			
Indiana	226	189	264			
Michigan	(D)	(D)	(D)			
Oregon	325	338	313			
Washington	1,938	2,078	2,315			
Native	1,190	1,378	1,535			
Scotch	748	700	780			
Wisconsin ¹	(D)	(D)	(NA)			
Other States ²	139	136	316			
United States	2,784	2,930	3,208			

- Represents zero.

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

(NA) Not available.

¹ Estimates discontinued in 2016.

² Includes data withheld above.

Maple Syrup Taps, Yield, and Production – States and United States: 2014-2016

[Estimates for 2016 are carried forward from the June 2016 *Crop Production*. Any revisions will appear in the June 2017 *Crop Production*]

State	Number of taps			Yield per tap			Production		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
	(1,000 taps)	(1,000 taps)	(1,000 taps)	(gallons)	(gallons)	(gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Connecticut	83	85	86	0.193	0.224	0.221	16	19	19
Indiana ¹	(NA)	(NA)	60	(NA)	(NA)	0.200	(NA)	(NA)	12
Maine	1,850	1,850	1,860	0.295	0.299	0.363	545	553	675
Massachusetts	290	310	315	0.210	0.242	0.244	61	75	77
Michigan	430	470	400	0.244	0.270	0.225	105	127	90
Minnesota ¹	(NA)	(NA)	76	(NA)	(NA)	0.184	(NA)	(NA)	14
New Hampshire	490	560	545	0.229	0.275	0.310	112	154	169
New York	2,200	2,310	2,515	0.248	0.260	0.281	546	601	707
Ohio	450	440	370	0.289	0.261	0.189	130	115	70
Pennsylvania	588	620	660	0.248	0.266	0.217	146	165	143
Vermont	4,350	4,550	4,850	0.310	0.310	0.410	1,350	1,410	1,990
West Virginia ¹	(NA)	(NA)	48	(NA)	(NA)	0.125	(NA)	(NA)	6
Wisconsin	700	760	765	0.286	0.283	0.307	200	215	235
United States	11,431	11,955	12,550	0.281	0.287	0.335	3,211	3,434	4,207

(NA) Not available.

¹ Estimates began in 2016.

Taro Area Harvested, Yield, and Production – Hawaii: 2014-2016

State	Area harvested			Yield per acre			Production		
	2014	2015	2016	2014	2015	2016	2014	2015	2016
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Hawaii	360	340	(D)	9,000	10,300	(D)	3,240	3,502	(D)

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

Alaska Area Planted and Harvested, Yield, and Production: 2014-2016

[Estimates are provided to meet special needs of crop and livestock production statistics users. Estimates are excluded from commodity data tables]

Crop	Area planted for all purposes			Area harvested			
	2014	2015	2016	2014	2015	2016	
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	
Barley	5,400	4,600	5,000	5,100	4,300	4,700	
Hay, all	(NA)	(NA)	(NA)	18,000	18,000	22,000	
Oats	2,200	1,800	2,000	1,000	1,000	1,200	
Potatoes	650	560	500	620	540	490	
Crop	Yield per acre			Production			
	2014	2015	2016	2014	2015	2016	
Barley	bushels	42.5	34.0	49.0	217,000	146,000	230,000
Hay, all	tons	1.39	1.10	1.35	25,000	20,000	30,000
Oats	bushels	57.0	47.0	62.0	57,000	47,000	74,000
Potatoes	cwt	250	260	300	155,000	140,000	147,000

(NA) Not available.

Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2015 and 2016

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2016 crop year]

Crop	Area planted		Area harvested	
	2015 (1,000 acres)	2016 (1,000 acres)	2015 (1,000 acres)	2016 (1,000 acres)
Grains and hay				
Barley	3,623	3,052	3,158	2,558
Corn for grain ¹	88,019	94,004	80,753	86,748
Corn for silage	(NA)	(NA)	6,237	6,186
Hay, all	(NA)	(NA)	54,447	53,461
Alfalfa	(NA)	(NA)	17,778	16,885
All other	(NA)	(NA)	36,669	36,576
Oats	3,088	2,828	1,276	981
Proso millet	445	443	418	413
Rice	2,625	3,150	2,585	3,097
Rye	1,584	1,891	365	414
Sorghum for grain ¹	8,459	6,690	7,851	6,163
Sorghum for silage	(NA)	(NA)	306	298
Wheat, all	54,999	50,154	47,318	43,890
Winter	39,681	36,137	32,346	30,222
Durum	1,951	2,412	1,911	2,365
Other spring	13,367	11,605	13,061	11,303
Oilseeds				
Canola	1,777.0	1,714.0	1,713.5	1,685.7
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	463	374	456	367
Mustard seed	44.0	103.1	40.1	98.2
Peanuts	1,625.0	1,671.0	1,560.9	1,547.0
Rapeseed	1.2	11.0	1.1	10.5
Safflower	170.2	161.1	161.1	154.4
Soybeans for beans	82,650	83,433	81,732	82,736
Sunflower	1,859.1	1,596.6	1,799.4	1,534.0
Cotton, tobacco, and sugar crops				
Cotton, all	8,580.5	10,074.5	8,074.9	9,521.7
Upland	8,422.0	9,880.0	7,920.0	9,332.0
American Pima	158.5	194.5	154.9	189.7
Sugarbeets	1,159.8	1,163.4	1,145.4	1,126.2
Sugarcane	(NA)	(NA)	874.7	915.6
Tobacco	(NA)	(NA)	328.7	319.7
Dry beans, peas, and lentils				
Austrian winter peas	34.0	38.0	21.0	28.0
Dry edible beans	1,764.7	1,662.0	1,708.4	1,558.6
Chickpeas, all	207.5	325.3	202.3	320.0
Large	135.3	211.5	130.6	209.2
Small	72.2	113.8	71.7	110.8
Dry edible peas	1,143.0	1,382.0	1,083.5	1,329.8
Lentils	493.0	933.0	475.0	908.0
Wrinkled seed peas	(NA)	(NA)	(NA)	(NA)
Potatoes and miscellaneous				
Hops	(NA)	(NA)	43.6	50.9
Maple Syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)	(NA)	65.3	65.3
Potatoes, all	1,066.1	1,034.0	1,054.4	1,007.7
Spring	74.1	51.0	72.5	48.0
Summer	50.5	62.2	47.1	60.7
Fall	941.5	920.8	934.8	899.0
Spearmint oil	(NA)	(NA)	25.8	24.5
Sweet potatoes	156.9	168.1	153.1	163.3
Taro (Hawaii)	(NA)	(NA)	0.3	(D)

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2015 and 2016 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2016 crop year]

Crop	Yield per acre		Production		
	2015	2016	2015 (1,000)	2016 (1,000)	
Grains and hay					
Barley	bushels	69.1	77.9	218,187	199,282
Corn for grain	bushels	168.4	174.6	13,601,964	15,148,038
Corn for silage	tons	20.4	20.3	127,311	125,670
Hay, all	tons	2.47	2.52	134,502	134,781
Alfalfa	tons	3.32	3.45	58,974	58,263
All other	tons	2.06	2.09	75,528	76,518
Oats	bushels	70.2	66.0	89,535	64,770
Proso millet	bushels	33.9	30.4	14,159	12,558
Rice ²	cwt	7,472	7,237	193,148	224,145
Rye	bushels	31.8	32.5	11,616	13,451
Sorghum for grain	bushels	76.0	77.9	596,751	480,261
Sorghum for silage	tons	14.6	14.0	4,475	4,171
Wheat, all	bushels	43.6	52.6	2,061,939	2,309,675
Winter	bushels	42.5	55.3	1,374,690	1,671,532
Durum	bushels	44.0	44.0	84,009	104,116
Other spring	bushels	46.2	47.2	603,240	534,027
Oilseeds					
Canola	pounds	1,680	1,824	2,878,470	3,075,200
Cottonseed	tons	(X)	(X)	4,043.0	5,418.0
Flaxseed	bushels	22.1	23.7	10,095	8,680
Mustard seed	pounds	671	980	26,927	96,270
Peanuts	pounds	3,845	3,675	6,001,357	5,684,610
Rapeseed	pounds	1,382	1,840	1,520	19,320
Safflower	pounds	1,356	1,425	218,451	220,090
Soybeans for beans	bushels	48.0	52.1	3,926,339	4,306,671
Sunflower	pounds	1,625	1,731	2,923,730	2,654,735
Cotton, tobacco, and sugar crops					
Cotton, all ²	bales	766	855	12,888.0	16,958.5
Upland ²	bales	755	844	12,455.0	16,401.0
American Pima ²	bales	1,342	1,411	433.0	557.5
Sugarbeets	tons	30.9	32.7	35,371	36,881
Sugarcane	tons	36.7	36.0	32,122	32,988
Tobacco	pounds	2,188	1,967	719,171	628,720
Dry beans, peas, and lentils					
Austrian winter peas ²	cwt	1,238	1,704	260	477
Dry edible beans ²	cwt	1,759	1,842	30,057	28,712
Chickpeas, all	cwt	1,242	1,702	2,513	5,447
Large	cwt	1,230	1,677	1,607	3,509
Small	cwt	1,264	1,749	906	1,938
Dry edible peas ²	cwt	1,687	2,086	18,283	27,737
Lentils ²	cwt	1,108	1,397	5,263	12,685
Wrinkled seed peas	cwt	(NA)	(NA)	384	439
Potatoes and miscellaneous					
Hops	pounds	1,807	1,713	78,846.0	87,139.6
Maple Syrup	gallons	(NA)	(NA)	3,434	4,207
Mushrooms	pounds	(NA)	(NA)	927,823	945,639
Peppermint oil	pounds	90	89	5,888	5,800
Potatoes, all	cwt	418	437	441,205	440,725
Spring	cwt	286	316	20,770	15,171
Summer	cwt	334	323	15,734	19,602
Fall	cwt	433	452	404,701	405,952
Spearmint oil	pounds	114	131	2,930	3,208
Sweet potatoes	cwt	203	193	31,016	31,546
Taro (Hawaii)	pounds	10,300	(D)	3,502	(D)

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

(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: 2015 and 2016

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2016 crop year]

Crop	Area planted		Area harvested	
	2015	2016	2015	2016
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,466,190	1,235,110	1,278,010	1,035,200
Corn for grain ¹	35,620,410	38,042,480	32,679,930	35,106,050
Corn for silage	(NA)	(NA)	2,524,050	2,503,410
Hay, all ²	(NA)	(NA)	22,034,160	21,635,130
Alfalfa	(NA)	(NA)	7,194,580	6,833,190
All other	(NA)	(NA)	14,839,580	14,801,940
Oats	1,249,680	1,144,460	516,380	397,000
Proso millet	180,090	179,280	169,160	167,140
Rice	1,062,310	1,274,770	1,046,120	1,253,320
Rye	641,030	765,270	147,710	167,540
Sorghum for grain ¹	3,423,270	2,707,380	3,177,220	2,494,100
Sorghum for silage	(NA)	(NA)	123,840	120,600
Wheat, all ²	22,257,550	20,296,820	19,149,120	17,761,840
Winter	16,058,500	14,624,280	13,090,100	12,230,540
Durum	789,550	976,110	773,360	957,090
Other spring	5,409,490	4,696,430	5,285,660	4,574,210
Oilseeds				
Canola	719,130	693,640	693,440	682,190
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	187,370	151,350	184,540	148,520
Mustard seed	17,810	41,720	16,230	39,740
Peanuts	657,620	676,240	631,680	626,060
Rapeseed	490	4,450	450	4,250
Safflower	68,880	65,200	65,200	62,480
Soybeans for beans	33,447,630	33,764,500	33,076,120	33,482,430
Sunflower	752,360	646,130	728,200	620,790
Cotton, tobacco, and sugar crops				
Cotton, all ²	3,472,440	4,077,050	3,267,830	3,853,340
Upland	3,408,300	3,998,340	3,205,140	3,776,570
American Pima	64,140	78,710	62,690	76,770
Sugarbeets	469,360	470,820	463,530	455,760
Sugarcane	(NA)	(NA)	353,980	370,530
Tobacco	(NA)	(NA)	133,000	129,360
Dry beans, peas, and lentils				
Austrian winter peas	13,760	15,380	8,500	11,330
Dry edible beans	714,160	672,590	691,370	630,750
Chickpeas, all ²	83,970	131,650	81,870	129,500
Large	54,750	85,590	52,850	84,660
Small	29,220	46,050	29,020	44,840
Dry edible peas	462,560	559,280	438,480	538,160
Lentils	199,510	377,580	192,230	367,460
Wrinkled seed peas	(NA)	(NA)	(NA)	(NA)
Potatoes and miscellaneous				
Hops	(NA)	(NA)	17,660	20,580
Maple Syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)	(NA)	26,430	26,430
Potatoes, all ²	431,440	418,450	426,710	407,810
Spring	29,990	20,640	29,340	19,430
Summer	20,440	25,170	19,060	24,560
Fall	381,020	372,640	378,300	363,820
Spearmint oil	(NA)	(NA)	10,440	9,910
Sweet potatoes	63,500	68,030	61,960	66,090
Taro (Hawaii)	(NA)	(NA)	140	(D)

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2015 and 2016 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2016 crop year]

Crop	Yield per hectare		Production	
	2015	2016	2015	2016
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	3.72	4.19	4,750,460	4,338,850
Corn for grain	10.57	10.96	345,505,800	384,777,890
Corn for silage	45.76	45.54	115,494,600	114,005,910
Hay, all ²	5.54	5.65	122,018,160	122,271,270
Alfalfa	7.44	7.74	53,500,310	52,855,300
All other	4.62	4.69	68,517,850	69,415,960
Oats	2.52	2.37	1,299,600	940,130
Proso millet	1.90	1.70	321,120	284,810
Rice	8.37	8.11	8,761,050	10,167,050
Rye	2.00	2.04	295,060	341,670
Sorghum for grain	4.77	4.89	15,158,170	12,199,190
Sorghum for silage	32.78	31.38	4,059,650	3,783,870
Wheat, all ²	2.93	3.54	56,116,780	62,859,050
Winter	2.86	3.72	37,412,930	45,491,650
Durum	2.96	2.96	2,286,350	2,833,570
Other spring	3.11	3.18	16,417,500	14,533,830
Oilseeds				
Canola	1.88	2.04	1,305,650	1,394,890
Cottonseed	(X)	(X)	3,667,750	4,915,130
Flaxseed	1.39	1.48	256,420	220,480
Mustard seed	0.75	1.10	12,210	43,670
Peanuts	4.31	4.12	2,722,170	2,578,500
Rapeseed	1.55	2.06	690	8,760
Safflower	1.52	1.60	99,090	99,830
Soybeans for beans	3.23	3.50	106,857,440	117,208,380
Sunflower	1.82	1.94	1,326,180	1,204,170
Cotton, tobacco, and sugar crops				
Cotton, all ²	0.86	0.96	2,806,030	3,692,280
Upland	0.84	0.95	2,711,760	3,570,900
American Pima	1.50	1.58	94,270	121,380
Sugarbeets	69.23	73.41	32,088,030	33,457,880
Sugarcane	82.32	80.77	29,140,590	29,926,210
Tobacco	2.45	2.20	326,210	285,180
Dry beans, peas, and lentils				
Austrian winter peas	1.39	1.91	11,790	21,640
Dry edible beans	1.97	2.06	1,363,360	1,302,350
Chickpeas, all ²	1.39	1.91	113,990	247,070
Large	1.38	1.88	72,890	159,170
Small	1.42	1.96	41,100	87,910
Dry edible peas	1.89	2.34	829,300	1,258,130
Lentils	1.24	1.57	238,730	575,380
Wrinkled seed peas	(NA)	(NA)	17,420	19,910
Potatoes and miscellaneous				
Hops	2.03	1.92	35,760	39,530
Maple syrup	(NA)	(NA)	17,170	21,040
Mushrooms	(NA)	(NA)	420,850	428,930
Peppermint oil	0.10	0.10	2,670	2,630
Potatoes, all ²	46.90	49.02	20,012,720	19,990,950
Spring	32.11	35.43	942,110	688,150
Summer	37.44	36.20	713,680	889,130
Fall	48.52	50.61	18,356,930	18,413,670
Spearmint oil	0.13	0.15	1,330	1,460
Sweet potatoes	22.71	21.65	1,406,860	1,430,900
Taro (Hawaii)	11.55	(D)	1,590	(D)

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

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Total may not add due to rounding.

2016 Annual Weather Summary

Highlights: The fairly quick transition from a near-record-strength El Niño to a weak La Niña had few negative effects on growing-season weather across the Nation’s mid-section, leading to record-high United States yield and production for both corn and soybeans. The ample summer rain and moderate temperatures that dominated the Midwest extended across much of the Plains, but unusual heat and dryness brought varying degrees of stress to crops in the eastern United States.

Despite the Atlantic Basin formation of 15 tropical cyclones—and seven hurricanes—the United States mainland escaped another year without a major (category 3 or higher) hurricane landfall; the last such occurrence was Hurricane Wilma’s southern Florida strike on October 24, 2005. Still, the eastern United States had to contend with several Atlantic tropical systems, including Hurricanes Hermine and Matthew. Matthew, formerly a category 4 and 5 hurricane that had caused great devastation in Haiti, eastern Cuba, and parts of the Bahamas, grazed the southeastern United States in early October as a rapidly weakening storm. Nevertheless, rain from Matthew triggered record flooding in portions of the eastern Carolinas. In southern Louisiana, a major August flood event that preceded Matthew by several weeks was triggered by a slow-moving low-pressure system that was never strong enough to become a tropical storm or acquire a name.

The tropical eastern Pacific Basin was also active (21 named storms), with remnant moisture from numerous tropical cyclones reaching the southwestern United States or becoming embedded in the monsoon circulation. Other regional highlights during 2016 included drought-easing storms both early and late in the year across the West, including much of California; several strong winter storms across the central and eastern United States, including a January blizzard in the Mid-Atlantic region; highly beneficial spring rainfall across the central and southern Plains that revived drought-stressed winter wheat; the worst Northeastern drought in more than a decade; and a punishing autumn drought in the Southeast that culminated in significant crop losses and devastating November wildfires.

Outside of the growing season, general warmth dominated the Nation. In fact, the contiguous United States experienced its warmest winter (2015-16) and autumn (2016) on record. Amid the warm regime, however, periodic cold snaps caused some agricultural concerns. Specifically, early-April freezes in the Northeast caused damage to a variety of fruit and ornamental crops. And, December featured a very sharp, mid-month cold snap that threatened poorly established wheat on the central Plains, although a coating of snow in advance of the Arctic outbreak provided the crop with beneficial moisture and insulation. Meanwhile, 2016 ended on a snowy, frigid note across the Nation’s northern tier as far east as the upper Midwest, with frequent December storms providing moisture and protection for winter grains but increasing livestock stress.

During 2016, drought coverage in the contiguous United States peaked at 31.5 percent, according to the United States Drought Monitor, on November 29. Drought coverage had been as low as 12.4 percent on March 15, with much of the summer and autumn increase occurring in the Northeast and Southeast. A stormy December brought a sharp decrease in coverage to 22.5 percent by January 3, 2017.

Winter 2015-16: A top-three “warm episode” (El Niño) brought some widely expected winter weather impacts to the United States, but also provided some surprises. For example, atmospheric warmth in part supplied by the balmy central and eastern equatorial Pacific Ocean contributed to the Nation’s warmest December-February period on record. Similarly, the contiguous United States experienced its wettest winter since the record-setting El Niño of 1997-98. However, El Niño’s impacts on the Western winter wet season were somewhat reversed, with wetter conditions in the Pacific Northwest and drier weather in the Southwest. In addition, uncharacteristically wet conditions affected much of the Midwest, especially in December. And, the cool conditions that often cover the South during El Niño were present only periodically, mainly in January and February.

In fact, December seemed like anything but a winter month, ranking first all-time for both United States warmth and wetness. The wet conditions peaked in late December, culminating in record flooding in parts of the middle Mississippi Valley. Despite the overall December warmth, a late-month blizzard on the southern High Plains proved devastating for livestock. Elsewhere, storms during December and January provided Western drought relief. Although many of January’s storms were focused across the West, several had impacts farther east. For example, a blizzard struck the Mid-Atlantic States on January 22-23, with significant snow extending as far west as the interior Southeast. Warmth returned to nearly all of the United States during February, while storminess largely vacated the West. Despite the lack of

late-winter storms in the West, overall United States drought coverage plunged from more than one-third (34.8 percent) of the Lower 48 States on October 20, 2015, according to the United States Drought Monitor, to approximately one-seventh (14.3 percent) of the country on March 1, 2016.

Spring: As El Niño began to wane, warm, wet conditions covered much of the country. Not surprisingly, El Niño-driven warmth was most prominent across the Nation's northern tier, from the Pacific Northwest to the upper Great Lakes Region. However, spring warmth was also very persistent across the eastern United States. And, all of the Lower 48 States reported spring temperatures within the warmest one-quarter of the historical distribution. Still, there were a few impressive spring cold snaps embedded within the warm regime. In particular, early-April freezes in the Northeastern and Mid-Atlantic States, following a warm March, led to variable losses for a variety of fruit and ornamental crops.

Meanwhile, pockets of dryness developed amid the overall wet pattern. Some of the most persistently dry conditions occurred in the Northeast, where a lack of moisture and the aforementioned April freezes delayed the spring green-up. By the end of May, pockets of short-term dryness had also developed in several other areas, including the Pacific Northwest and the interior Southeast. The Midwest was free of drought at the end of May, according to the United States Drought Monitor, but also saw a late-spring drying trend in many areas. Farther west, northern California received extremely heavy precipitation during the first half of March, further easing long-term drought. However, southern California remained mostly dry and limped to the end of a fifth consecutive year (2011-12 to 2015-16) of drought. Parts of the Southwest also remained entrenched in long-term drought. Contiguous United States drought coverage reached a 5½-year minimum in mid-March, with just under one-eighth (12.4 percent) of the country affected by drought. Coverage subsequently rose to 17.8 percent on April 12 before spring storms again reduced the drought footprint to about one-eighth (12.7 percent) of the United States by May 31.

Summer: As El Niño faded to ENSO-neutral conditions, warm, wet conditions persisted across the Nation's mid-section through August. However, hot summer weather was often accompanied by drier-than-normal conditions in the eastern and western United States. In the Midwest, showery weather and the absence of extreme heat fueled record-high United States corn and soybean yield and production, based on preliminary estimates by USDA. The record-setting agricultural output occurred in spite of pockets of drought in the western (e.g. South Dakota) and eastern Corn Belt (e.g. Michigan and Ohio).

Generally favorable growing weather extended to the Plains, although a July heat wave struck western Texas and environs. Meanwhile, the worst drought in more than a decade tightened its grip in parts of the Northeast, which endured a very hot summer. Drought also affected portions of the interior Southeast, broadly centered on the southern Appalachians. Farther west, hot, dry weather and underlying drought issues contributed to an active wildfire season in parts of California and the Northwest. The Southwestern monsoon circulation provided beneficial rainfall at times, mainly across Arizona and New Mexico.

According to the Drought Monitor, United States drought coverage peaked at 21.79 percent on August 9, up from 12.7 percent at the beginning of summer. Following that peak, widespread rainfall triggered by the interaction between the Southwestern monsoon circulation, several cold fronts, and an unnamed low-pressure system along the Gulf Coast reduced drought coverage to 19.42 percent within 2 weeks. However, the wet spell also resulted in excessive rainfall and catastrophic flooding in parts of southern Louisiana, with crop-quality issues occurring across a broader area of the South in crops such as rice, sorghum, and soybeans.

Autumn: La Niña returned, albeit weakly, replacing the near-record-strength El Niño that had been in place early in the year. Still, some of the lingering atmospheric warmth related to El Niño may have contributed to the Nation's warmest autumn on record, easily surpassing the record set just last year.

Meanwhile, autumn precipitation was scarce in much of the Southeast, leading to rapid drought expansion and intensification. Some of the harshest drought conditions existed in a broad area centered on the southern Appalachians, where the effects longer-term precipitation deficits were exacerbated by a hot, dry autumn. The drought culminated in a rash of November fires, highlighted by chronically poor air quality and a deadly late-month wildfire in the Great Smoky Mountains. In stark contrast, Hurricane Matthew and other tropical systems led to heavy precipitation in the

southern Atlantic region. Matthew's rain in early October triggered record flooding in eastern North Carolina and environs.

Farther north, mid- to late-autumn precipitation provided varying degrees of relief from the worst Northeastern drought since 2002. Another area of drought concern was focused across the central High Plains, leading to poor establishment for a portion of the winter wheat crop. Much more favorable moisture conditions existed from northern California and the Pacific Northwest to the northern Plains, in part due to record-setting October precipitation. Elsewhere, southern California was mired in a 5-year drought, despite occasional autumn showers, while harvest activities were completed on or ahead of schedule in the Midwest, despite a few rain-related delays.

According to the Drought Monitor, United States drought covered nearly one-third (31.5 percent) of the country by the end of November, up from 18.3 percent in mid-September. Most of the expansion occurred in the Southeast, with smaller net increases in drought coverage occurring across the Northeast and the central High Plains. In contrast, autumn precipitation eased or eradicated drought in northern California, the Northwest, and the Intermountain West.

December: Stormy weather dominated the Nation, easing or eradicating drought in the East and West. In particular, multiple storms in California chiseled away at long-term drought, while soaking rains in the Southeast dented summer and autumn precipitation deficits. The Northeast also experienced drought relief in the form of rain and snow.

However, pockets of dryness persisted across the central and southern Plains, leading to agricultural impacts such as low pond levels and poor pasture, rangeland, and winter wheat conditions. A coating of snow preceded a mid-month cold snap across the central Plains, providing wheat with some beneficial moisture and insulation.

Farther north, cold, stormy weather dominated the northern Plains and the Northwest, leading to travel disruptions and increased livestock stress. One of the most significant storms struck the Dakotas on Christmas Day, resulting in blizzard conditions. The same system produced a wintry mix, including rain, freezing rain, sleet, and snow, across the upper Midwest.

Elsewhere, much-above-normal temperatures covered the Deep South, including the Southwest and the Gulf Coast States. Florida was especially warm, with the peninsula missing out on most of the rain that fell in other parts of the Southeast. As a result of the warm, dry weather, irrigation demands increased for Florida's citrus, vegetables, and strawberries.

2016 Annual Crop Summary

April: Temperatures were generally above-normal across most of the Nation during the month of April. The major exceptions to this trend were recorded in the Great Lakes Region and the Northeast where April average temperatures were below normal. Drier than normal conditions were reported in the Northwest and the Northeast. Precipitation was more widespread across the central and southeastern United States, with several locations in the Great Plains and Delta recording 4 inches or more above normal for the month. By April 10, four percent of the Nation's corn crop was planted, 3 percentage points ahead of last year but equal to the 5-year average with planting progress at or behind the 5-year average in 13 of the 18 estimating States. Producers had planted 45 percent of this year's corn crop by May 1, equal to last year but 15 percentage points ahead of the 5-year average. Planting progress was well ahead of historical averages in the central locations of the major corn producing region but continued to lag behind normal in the western Corn Belt. By April 3, producers had planted 3 percent of this year's cotton crop, slightly ahead of last year but 2 percentage points behind the 5-year average. Nationally, cotton producers had planted 16 percent of the cotton crop by May 1, slightly ahead of last year but 2 percentage points behind the 5-year average.

May: Temperatures were above normal along the northern United States, facilitating fieldwork in the Pacific Northwest and the Upper Midwest. Conversely, below average temperatures were prevalent from the central Rocky Mountains to the Mid-Atlantic. With the exception of portions of the Southwest, Texas, and most of the Atlantic Coast States, where rainfall totaled 200 percent or more above average, precipitation was near normal throughout much of the Nation. Southeast Texas received heavy rainfall later in the month, with some locations recording in excess of 9 inches of precipitation, causing record flooding. Nationally, heading of this year's winter wheat crop advanced to 84 percent complete by May 29, two percentage points ahead of last year and 8 percentage points ahead of the 5-year average.

Ninety-five percent of the oat crop was emerged by May 29, slightly ahead of last year and 9 percentage points ahead of the 5-year average. Nationwide, 97 percent of the barley crop was sown by May 29, three percentage points behind last year but 9 percentage points ahead of the 5-year average. By May 29, fifty-nine percent of the cotton crop was planted, 2 percentage points ahead of last year but 10 percentage points behind the 5-year average. Wet conditions in the southern Great Plains hindered cotton planting progress. Planting of the 2016 corn crop was 94 percent complete by May 29, equal to last year but 2 percentage points ahead of the 5-year average. By the end of May, at least 90 percent of the corn crop had emerged in Iowa, Minnesota, Missouri, North Carolina, and Tennessee. Planting of the 2016 soybean crop advanced to 8 percent complete by May 1, two percentage points behind last year but 2 percentage points ahead of the 5-year average. By May 29, seventy-three percent of the Nation's soybean crop was planted, 5 percentage points ahead of last year and 7 percentage points ahead of the 5-year average. By the end of the month, wet conditions slowed the planting pace in the central Great Plains, with planting progress 27 percentage points behind the 5-year average in Kansas and 9 percentage points behind in Nebraska.

June: Drier than normal conditions prevailed across many parts of the Nation during June. Notable exceptions occurred in portions of the Upper Midwest, Mid-Atlantic States, and Texas. Warmer than normal temperatures blanketed the Nation during the month of June. NOAA ranked last June as having the warmest average temperature on record for the contiguous United States. Ninety-six percent of the Nation's soybean crop was planted by June 19, seven percentage points ahead of last year and 3 percentage points ahead of the 5-year average. By month's end, 22 percent of the soybean crop was blooming, 5 percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Ninety-five percent of the cotton crop was planted by June 19, two percentage points ahead of last year but 3 percentage points behind the 5-year average. Cotton planting delays continued on the central Great Plains during mid-June, with planting in Kansas 22 percentage points behind the 5-year average at this time. By June 26, ninety-five percent of the Nation's sorghum crop was planted, 4 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. By July 3, producers had harvested 58 percent of the winter wheat crop, 8 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Despite significant rain in Kansas, producers were able to harvest 21 percent of the winter wheat crop during the last week of the month. Overall, 62 percent of the winter wheat crop was reported in good to excellent condition on July 3, twenty-two percentage points better than at the same time last year.

July: A band stretching from the northern Great Plains down through the Mississippi and Tennessee Valleys had some areas recording over 200 percent of normal precipitation for the month of July. Most areas from the Southwest to the Atlantic Coast recorded above-average temperatures for the month, including New Mexico and Texas, where some areas recorded temperatures more than 6°F above normal. Slightly below-average temperatures across the Northwest slowed down row crop development that had been significantly ahead of historical levels at the start of the July. Major sorghum heading progress was limited to Arkansas, Louisiana, and Texas at the beginning of July. Nationally, 26 percent of this year's crop was at or beyond the coloring stage by July 31, slightly behind last year and 3 percentage points behind the 5-year average. By July 10, heading of the Nation's oat crop advanced to 96 percent complete, slightly ahead of last year and 8 percentage points ahead of the 5-year average. Oat headed progress was at least 90 percent complete in all estimating States by July 10. Ninety-five percent of the barley crop was at or beyond the heading stage by July 17, four percentage points behind last year but 9 percentage points ahead of the 5-year average. By July 17, ninety-six percent of the spring wheat crop was at or beyond the heading stage, slightly ahead of last year and 15 percentage points ahead of the 5-year average. Spring wheat heading progress was 16 percentage points ahead of the 5-year average in Montana and 22 percentage points ahead in North Dakota by July 17. Nationally, 92 percent of the cotton crop was at or beyond the squaring stage by July 31, two percentage points ahead of last year and slightly ahead of the 5-year average. By July 31, bolls were setting on 54 percent of the Nation's crop, slightly ahead of last year but 3 percentage points behind the 5-year average. On July 3, three quarters of the corn crop was reported in good to excellent condition, 6 percentage points above the same time last year. By July 31, ninety-one percent of the corn crop was at or beyond the silking stage, 4 percentage points ahead of last year and 6 percentage points ahead of the 5-year average. In all 18 estimating States, the percentage of the crop in the silking stage was at or ahead of the 5-year average at the end of July.

August: Nearly all areas east of the Great Plains recorded above-average temperatures for the month of August. Conversely, below-average temperatures were recorded in the Rocky Mountains and High Plains. During August, most areas of the Nation had precipitation totals near normal levels with exceptions in the Mississippi Valley and Texas. A mid-month low-pressure system in the Delta produced over 20 inches of rain in parts of southern Louisiana causing major flooding. Producers had harvested 97 percent of the Nation's winter wheat crop by August 14, two percentage points

behind last year but 2 percentage points ahead of the 5-year average. With the exception of the Pacific Northwest, winter wheat harvest was complete or nearing completion in all major estimating States. By August 14, ninety-five percent of the soybean crop was at or beyond the blooming stage, 3 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. Ninety-seven percent of the Nation's soybean crop was at or beyond the pod setting stage by September 4, two percentage points ahead of last year but equal to the 5-year average. Pod setting was at least 90 percent complete in all soybean estimating States by September 4. Leaf drop had advanced to 12 percent complete by September 4, three percentage points behind last year but equal to the 5-year average. Ninety-five percent of the Nation's oat crop was harvested by August 28, slightly ahead of last year and 6 percentage points ahead of the 5-year average.

September: Unseasonably warm conditions blanketed the Nation's eastern two-thirds during September. At the beginning of September, Tropical Storm Hermine brought heavy rain and winds to the southern Atlantic Coast States. Later in the month, rain pummeled the upper Mississippi Valley causing flooding over already saturated ground in parts of Iowa, Minnesota, and Wisconsin. However, a lack of precipitation in the West, southern Appalachian Mountains, and Northeast led to worsening drought conditions in the Southwest, New England, and northern Georgia. The corn harvest began in most southern Corn Belt locations by the first full week of the month with 5 percent of the Nation's corn harvested by September 11, slightly ahead of last year but 2 percentage points behind the 5-year average. Nationwide, producers had harvested 24 percent of the corn crop by October 2, equal to last year but 3 percentage points behind the 5-year average. Generally dry conditions across the western Corn Belt facilitated good harvest progress during the final week of the month, including an advance of 19 percentage points in Illinois. Barley producers had harvested 95 percent of this year's crop by September 11, three percentage points behind last year but 3 percentage points ahead of the 5-year average. Ninety-eight percent of the spring wheat crop was harvested by September 18, slightly behind last year's pace but 5 percentage points ahead of the 5-year average. By October 2, rice producers had harvested 82 percent of this year's crop, 7 percentage points ahead of last year and 13 percentage points ahead of the 5-year average. Producers completed double-digit advances in rice harvest progress in California, Mississippi, and Missouri during the final week of the month. Only 5 estimating States reported the planting of winter wheat during the first week of September. By October 2, producers had sown 43 percent of the Nation's 2017 winter wheat crop, slightly behind last year and 2 percentage points behind the 5-year average. Nationally, 26 percent of the soybean crop was harvested by October 2, ten percentage points behind last year and slightly behind the 5-year average. Dry conditions west of the Mississippi River allowed for the soybean harvest to advance 16 percentage points Nationwide during the final week of the month, including an increase of 34 percentage points in North Dakota and 28 percentage points in South Dakota.

October: During the month of October, warm temperatures facilitated the harvest of row crops across the Nation, including most of the Mississippi River Basin which recorded monthly average temperatures more than 4°F above normal. Large portions of both coastal regions experienced higher than normal precipitation, including the southern Atlantic States and the Pacific Northwest. Monthly rainfall totals exceeded 10 inches in areas of North Carolina, South Carolina, northern California, Oregon, and Washington. In early October, heavy rains from Hurricane Matthew impacted crop conditions from Florida up to Virginia. Producers had seeded 86 percent of the 2017 winter wheat crop by October 30, slightly behind last year and 2 percentage points behind the 5-year average. Thirteen of the 18 estimating States were behind the 5-year average winter wheat planting pace by the end of October. Overall, 57 percent of the winter wheat crop was reported in good to excellent condition on October 30, nine percentage points above the same time last year. Nationally, three-quarters of this year's corn crop was harvested by October 30, seven percentage points behind last year but equal to the 5-year average. Overall, 74 percent of the corn crop was reported in good to excellent condition on October 16, six percentage points above the same time last year. By October 30, eighty-seven percent of the soybean crop was harvested, 4 percentage points behind last year but 2 percentage points ahead of the 5-year average. Overall, 74 percent of the soybean crop was reported in good to excellent condition on October 16, ten percentage points better than at the same time last year. By October 30, forty-six percent of the cotton crop was harvested, 2 percentage points behind both last year and the 5-year average. Overall, 49 percent of the cotton crop was rated in good to excellent condition on October 30, two percentage points better than at the same time last year. In North Carolina, cotton condition dropped by 18 percentage points in the good to excellent categories during the month due to wet conditions from Hurricane Matthew. Ninety-seven percent of the Nation's rice crop was harvested by October 23, equal to last year but 5 percentage points ahead of the 5-year average.

November: Above normal temperatures blanketed virtually all of the United States during the month of November. Most notably, average temperatures rose to more than 9 degrees above normal across most of the northern High Plains and into

the upper Mississippi Valley. Most of the Nation was within 3 inches of normal precipitation for the month. Ninety-seven percent of the Nation's 2017 winter wheat crop was sown by November 20, two percentage points ahead of last year but 2 percentage points behind the 5-year average. Overall, 58 percent of the winter wheat crop was reported in good to excellent condition on November 27, three percentage points above the same time last year. At the end of month, States in the Northwest and Great Lakes Region generally had better condition ratings than southern States. With significantly warmer-than-normal conditions in the Midwest during November, the Nation's corn harvest progressed slightly ahead of the 5-year average pace. Ninety-seven percent of the Nation's corn crop was harvested by November 20, equal to last year but slightly ahead of the 5-year average. By November 13, producers had harvested 97 percent of this year's soybean crop, equal to last year but 2 percentage points ahead of the 5-year average. By mid-month, over 90 percent of the soybean crop had been harvested in all estimating States except Michigan and North Carolina. Nationally, producers had harvested 77 percent of the cotton crop by November 27, equal to last year but 7 percentage points behind the 5-year average. Nationwide, 96 percent of the sorghum crop was harvested by November 27, slightly behind last year but equal to the 5-year average. Peanut producers had harvested 96 percent of the Nation's crop by November 20, ten percentage points ahead of last year and slightly ahead of the 5-year average. Harvest progress in all estimating States except Texas was ahead of last year's pace by November 20. Ninety-eight percent of this year's sugarbeet crop had been dug by November 20, two percentage points behind both last year and the 5-year average. Nationally, 98 percent of the sunflower crop was harvested by November 27, equal to last year but 4 percentage points ahead of the 5-year average.

Crop Comments

Corn: Corn for grain production in the United States is estimated at 15.1 billion bushels, down 1 percent from the November forecast but up 11 percent from the 2015 estimate. The average yield in the United States is estimated at a record 174.6 bushels per acre. This is down 0.7 bushel from the November forecast but 6.2 bushels above the 2015 average yield of 168.4 bushels per acre.

Estimated yields in 2016 are up from the previous year across most of the Corn Belt. Record yields are estimated in Arizona, Florida, Iowa, Minnesota, North Dakota, Oregon, South Dakota, Washington, and Wisconsin.

Corn planted area, at 94.0 million acres, is up 7 percent from 2015. Area harvested for grain is estimated at 86.7 million acres, down slightly from the November forecast but up 7 percent from the 2015 estimate.

The 2016 corn objective yield data indicate the third highest number of ears per acre on record for the combined 10 objective yield States (Iowa, Illinois, Indiana, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin). Record high ear counts were recorded in Ohio.

Corn silage production is estimated at 126 million tons for 2016, down 1 percent from 2015. The United States silage yield is estimated at 20.3 tons per acre, down 0.1 ton from 2015. Area harvested for silage is estimated at 6.19 million acres, down 1 percent from a year ago.

Excellent spring field conditions throughout the Corn Belt facilitated rapid planting progress, allowing producers to plant 30 percent of the Nation's corn crop by April 24, fourteen percentage points ahead of both last year and the 5-year average pace. By May 15, planting progress was ahead of normal in the central region of the Corn Belt, but the eastern States lagged behind their respective 5-year averages. Drier conditions returned to the eastern Corn Belt by May 22 and permitted National planting progress to advance to 86 percent.

Virtually all of the Nation's corn acreage was planted by June 5. At that time, 75 percent of the corn was reported in good to excellent condition, slightly higher than at the same time last year. By June 12, corn emergence had advanced to 96 percent complete, slightly ahead of last year and 2 percentage points ahead of the 5-year average.

By July 10, favorable weather led to an increase in corn condition ratings in most of the eastern Corn Belt States. By July 17, fifty-six percent of the Nation's corn crop was at or beyond the silking stage, 9 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Above-average temperatures in the northern Corn Belt advanced silking progress at least 30 percentage points during the week ending July 24 in Minnesota, South Dakota, and

Wisconsin. By July 31, thirty percent of the United States corn crop was at or beyond the dough stage, 5 percentage points ahead of both last year and the 5-year average.

By August 14, twenty-one percent of this year's corn crop was denting, 3 percentage points ahead of last year but equal to the 5-year average. By August 21, eighty-five percent of the corn was at or beyond the dough stage, 4 percentage points ahead of last year and 9 percentage points ahead of the 5-year average. By August 28, sixty percent of this year's corn crop was at or beyond the dent stage, 6 percentage points ahead of last year and 8 percentage points ahead of the 5-year average.

Eighteen percent of this year's crop was reported as mature by September 4, slightly ahead of last year but 2 percentage points behind the 5-year average. Eighty-seven percent of this year's corn was at or beyond the dent stage by September 11, three percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Favorable weather conditions promoted double-digit crop maturation in 15 of the 18 corn-estimating States during the week ending September 11. Fifty-three percent of the Nation's corn was mature by September 18, five percentage points ahead of both last year and the 5-year average. Generally warm weather in the Corn Belt accelerated corn maturity, which advanced by 20 percentage points or more during the week ending September 18 in Illinois, Indiana, Iowa, Kansas, Minnesota, South Dakota, and Wisconsin. By September 25, producers had harvested 15 percent of the Nation's corn, slightly behind last year and 4 percentage points behind the 5-year average. As of September 25, harvest progress was behind the 5-year average pace in 12 of the 18 estimating States.

By October 2, eighty-six percent of the corn was mature, 4 percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Generally dry conditions across the central and western Corn Belt facilitated good harvest progress during the week ending October 2, including an advance of 19 percentage points in Illinois, and 18 percentage points in both Kansas and Missouri. Nationwide, corn harvest progress advanced to 35 percent complete, 3 percentage points behind both last year and the 5-year average. Ninety-seven percent of the corn crop was mature by October 16, equal to last year but 3 percentage points ahead of the 5-year average. By October 16, harvest progress was 12 percentage points behind normal in Iowa, Minnesota, and North Dakota. Warm weather in the upper Midwest facilitated rapid harvest progress, including an advance of 24 percentage points during the week ending October 23 in Minnesota and 19 percentage points in Iowa. By October 30, producers had harvested 75 percent of this year's corn, 7 percentage points behind last year but equal to the 5-year average.

Ninety-seven percent of the corn crop was harvested by November 20, equal to last year but slightly ahead of the 5-year average. At that time corn harvest was more than 90 percent complete in all estimating States, except Michigan.

Sorghum: Grain production in 2016 is estimated at 480 million bushels, up 4 percent from the November forecast but down 20 percent from the 2015 total. Planted area for 2016 is estimated at 6.69 million acres, down 21 percent from the previous year. Area harvested for grain, at 6.16 million acres, is down 22 percent from 2015. Grain yield is estimated at a record 77.9 bushels per acre, up 1.4 bushels from the previous forecast and up 1.9 bushels from 2015. Record high yields are estimated in Georgia, Kansas, and Nebraska.

Silage production is estimated at 4.17 million tons, down 7 percent from 2015. Area harvested for silage is estimated at 298,000 acres, down 3 percent from the previous year. Silage yield averaged 14.0 tons per acre, down 0.6 tons per acre from 2015.

Beginning in 2016, sorghum estimates were discontinued in Arizona. Estimates began in 2016 for North Carolina.

Oats: Production in 2016 is estimated at 64.8 million bushels, down 28 percent from 2015. Yield is estimated at 66.0 bushels per acre, down 4.2 bushels from the previous year. Harvested area, at 981,000 acres, is 23 percent below the previous year. Record low acres were harvested in Georgia, Iowa, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, and Wisconsin.

The largest decreases in production from 2015 occurred in the upper Midwest where yields in Minnesota, North Dakota, South Dakota, and Wisconsin were down from record or near record yields of the previous year. Despite dry conditions in many parts of New York, increased acreage led to a production increase of nearly 1 million bushels in the State. A record

high yield is estimated in Colorado.

Nationally, oat producers had seeded 29 percent of this year's crop by April 3, six percentage points behind the 5-year average. At the beginning of April, oat planting progress was at or behind the 5-year average in all estimating States except Pennsylvania. By May 1, oat producers had sown 78 percent of the Nation's crop, 13 percentage points ahead of the 5-year average, and 56 percent of the oat crop had emerged, 9 percentage points ahead of the 5-year average. Iowa, Minnesota, Pennsylvania, and South Dakota reported emergence progress more than 20 percentage points ahead of their respective 5-year averages by the beginning of May. By the end of May, 30 percent of the oat crop was at or beyond the heading stage, slightly ahead of last year but 2 percentage points behind the 5-year average. Heading of this year's oat crop advanced to 92 percent complete by July 3, three percentage points ahead of last year and 12 percentage points ahead of the 5-year average. By the beginning of July, oat heading progress was 46 percentage points ahead of the 5-year average in North Dakota and 23 percentage points ahead in Minnesota. Oat producers had harvested 53 percent of this year's crop by July 31, fifteen percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Harvest progress was at or ahead of the 5-year average by the end of July in all estimating States except Nebraska and Pennsylvania. Ninety-five percent of the Nation's oat crop was harvested by August 28, slightly ahead of last year and 6 percentage points ahead of the 5-year average.

Beginning in 2016, oat estimates were discontinued in Indiana, Utah, and Virginia.

Barley: Production is estimated at 199 million bushels, down 9 percent from the 2015 total of 218 million bushels. Average yield per acre, at 77.9 bushels, is up 8.8 bushels from the previous year and is the highest yield on record since estimates began in 1866. Producers seeded 3.05 million acres in 2016, down 16 percent from last year. Harvested area, at 2.56 million acres, is down 19 percent from 2015.

Six percent of the Nation's barley was planted by April 3, slightly behind the 5-year average. Planting progress was well behind the historical pace in Idaho at this time with 6 percent planted, 15 percentage points behind the 5-year average. Nationwide, barley producers had seeded 57 percent of the Nation's crop by May 1, thirteen percentage points behind last year but 10 percentage points ahead of the 5-year average. By the beginning of May, emergence was evident in 29 percent of the Nation's barley acreage, 4 percentage points behind last year but 11 percentage points ahead of the 5-year average. Nationwide, 97 percent of the barley crop was sown by May 29, three percentage points behind last year but 9 percentage points ahead of the 5-year average. Eighty-eight percent of the barley crop had emerged by May 29, four percentage points behind last year but 19 percentage points ahead of the 5-year average. Heading of the Nation's barley crop advanced to 72 percent complete by July 3, six percentage points behind last year but 24 percentage points ahead of the 5-year average. Dry weather aided crop maturation in North Dakota at end of June, with barley heading advancing to 90 percent complete, 53 percentage points ahead of the 5-year average. Overall, three-quarters of the barley was reported in good to excellent condition on July 3, compared with 73 percent at the same time last year. By July 31, barley producers had harvested 11 percent of the Nation's crop, 3 percentage points behind last year but 3 percentage points ahead of the 5-year average. Overall, 71 percent of the barley was reported in good to excellent condition on August 14, compared with 65 percent at the same time last year. By September 11, barley producers had harvested 95 percent of this year's crop, 3 percentage points behind last year but 3 percentage points ahead of the 5-year average.

Beginning in 2016, barley estimates were discontinued in Kansas, Maine, Michigan, New York, North Carolina, South Dakota, and Wisconsin.

All wheat: Production totaled 2.31 billion bushels in 2016, up 12 percent from the 2015 total of 2.06 billion bushels. Area harvested for grain totaled 43.9 million acres, down 7 percent from the previous year. The United States yield is estimated at 52.6 bushels per acre, up 9 bushels from the previous year and represents a new record high. The levels of production and changes from 2015 by type are winter wheat, 1.67 billion bushels, up 22 percent; other spring wheat, 534 million bushels, down 11 percent; and Durum wheat, 104 million bushels, up 24 percent.

Winter wheat: Winter wheat production for 2016 totaled 1.67 billion bushels, up 22 percent from the 2015 total of 1.37 billion bushels. The United States yield, at 55.3 bushels per acre, is up 12.8 bushels from 2015 and represents a new record high. Area harvested for grain is estimated at 30.2 million acres, down 7 percent from the previous year. Record high yields are estimated in Colorado, Idaho, Illinois, Indiana, Kansas, Kentucky, Michigan, Missouri, Montana,

Nebraska, New Jersey, New York, Ohio, Oklahoma, Pennsylvania, South Dakota, Tennessee, Utah, Washington, and Wisconsin for 2016.

Harvested acreage was down from 2015 in most of the major Hard Red Winter (HRW) growing States, the primary wheat producing area. However, HRW production totaled 1.08 billion bushels, up 30 percent from 2015 due to the higher yields in 2016 compared with 2015.

In the Soft Red Winter (SRW) growing area, planted and harvested acreage decreases from 2015 were experienced throughout most of the region. SRW production totaled 345 million bushels, down 4 percent from 2015.

White winter production totaled 245 million bushels, up 32 from the previous year. Harvested acreage in the Pacific Northwest (Idaho, Oregon, and Washington) was up 2 percent from 2015. Yields were up from last year in Idaho and Washington.

Other spring wheat: Production for 2016 is estimated at 534 million bushels, down 11 percent from the 2015 total of 603 million bushels. Harvested area totaled 11.3 million acres, down 13 percent from 2015. The United States yield is estimated at 47.2 bushels per acre, 1 bushel higher than the 2015 average yield and represents a new record high. Of the total production, 493 million bushels are Hard Red Spring wheat, down 13 percent from 2015. A record high yield is estimated in Idaho for 2016.

By May 8, producers had sown 77 percent of the spring wheat crop, 7 percentage points behind the previous year but 26 percentage points ahead of the 5-year average. Favorable field conditions aided planting progress which remained ahead of the 5-year average pace throughout the spring. Nationally, producers had sown 95 percent of the spring wheat crop by May 22, equal to the previous year but 18 percentage points ahead of the 5-year average. Seventy-four percent of the spring wheat was at or beyond the heading stage by July 3, six percentage points ahead of the previous year and 29 percentage points ahead of the 5-year average. Spring wheat development ran well ahead of normal in the Pacific Northwest and Northern Great Plains in 2016. Nationally, 91 percent of the spring wheat crop was harvested by September 4, one percentage point behind the previous year but 16 percentage points ahead of the 5-year average.

Durum wheat: Production for 2016 is estimated at 104 million bushels, up 24 percent from the 2015 total of 84.0 million bushels. Grain area harvested totaled 2.37 million acres, up 24 percent from the previous year. The United States yield is estimated at a record high of 44.0 bushels per acre, equal to the 2015 average yield. Production in North Dakota, the largest Durum-producing State, is up 37 percent from 2015. Durum wheat production in Montana for 2016 represents a record high for the State. Record high yields are estimated in both Montana and North Dakota for 2016.

Favorable conditions throughout the growing season advanced crop development ahead of normal in Montana and North Dakota, the two largest Durum-producing States. As a result, harvest progress in these two States as of September 4, was well ahead of the 5-year average pace.

Rice: Production in 2016 is estimated at 224 million cwt, down 5 percent from the previous forecast but up 16 percent from the revised 2015 total. Planted area for 2016 is estimated at 3.15 million acres, up 20 percent from 2015. Area harvested, at 3.10 million acres, is also up 20 percent from the previous crop year. The average yield for all United States rice is estimated at 7,237 pounds per acre, down 256 pounds from the previous forecast and 235 pounds below the 2015 United States average of 7,472 pounds per acre.

Rye: Production for 2016 is estimated at 13.5 million bushels, up 16 percent from the 2015 total of 11.6 million bushels. Harvested area totaled 1.89 million acres, up 307,000 acres from 2015. The United States yield, at 32.5 bushels per acre, is up 0.7 bushel from the previous year.

Estimates began in 2016 for Maine, Maryland, New Jersey, and Virginia.

Proso millet: Production of proso millet in 2016 totaled 12.6 million bushels, compared with the 14.2 million bushels produced in 2015. Area planted to proso millet in the United States is estimated at 443,000 acres, down 2,000 acres from 2015. Area harvested in the United States, at 413,000 acres, is down 5,000 acres from 2015. The average yield for 2016 is

estimated at 30.4 bushels per acre, down 3.5 bushels from the previous year. Record yields are estimated for 2016 in Nebraska and South Dakota.

All hay: Production of all dry hay for 2016 is estimated at 135 million tons, down 5 percent from the October forecast but up less than one percent from the revised 2015 total. Area harvested is estimated at 53.5 million acres, down 5 percent from the October forecast and down 2 percent from 2015. The average yield, at 2.52 tons per acre, is equal to the October forecast but up 0.05 ton from the previous year.

Alfalfa and alfalfa mixtures: Production in 2016 is estimated at 58.3 million tons, down 7 percent from the October forecast and down 1 percent from the 2015 total. Harvested area, at 16.9 million acres, is down 7 percent from the October forecast and 5 percent below the previous year. Average yield is estimated at 3.45 tons per acre, 0.03 ton below the October forecast but up 0.13 ton from 2015.

Despite improved yields over 2015, alfalfa production was slightly down across the Nation due to a reduction in acres harvested. Record high yields are estimated in Arizona, Arkansas, Idaho, Indiana, Iowa, and Nebraska. Record low yields are estimated in New Hampshire and Rhode Island.

All other hay: Production in 2016 totaled 76.5 million tons, down 3 percent from the October forecast but up 1 percent from the revised 2015 total. Harvested area, at 36.6 million acres, is down 4 percent from the October forecast and down less than 1 percent from last year. Average yield is estimated at a record 2.09 tons per acre, up 0.02 ton from the October forecast and up 0.03 ton from the previous year's record.

The crop year started with adequate precipitation before pockets of dryness developed. The region stretching from the Pacific Northwest into Montana experienced better conditions than in 2015. Record high yields are estimated in Indiana, Montana, and Oregon.

Forage: In 2016, seventeen States are included in the forage estimation program, which measures annual production of forage crops. Haylage and greenchop production is converted to 13 percent moisture and combined with dry hay production to derive the total forage production. The total 2016 all haylage and greenchop production for the 17 States in the forage program was 32.4 million tons, of which 22.9 million tons are from alfalfa and alfalfa mixtures. The 17 State total for all forage production is 90.7 million tons. Of this total, 48.7 million tons were produced from alfalfa and alfalfa mixtures.

Beginning in 2016, forage and haylage estimates were discontinued in New Mexico.

New seedings of alfalfa and alfalfa mixtures: Growers seeded 2.27 million acres of alfalfa and alfalfa mixtures during 2016, down 11 percent from 2015. The new seedings of alfalfa and alfalfa mixtures will normally be harvested for the first time in the year following planting.

Peanuts: Production is estimated at 5.68 billion pounds, down 9 percent from the November forecast and down 5 percent from 2015. Planted area is estimated at 1.67 million acres, up 3 percent from 2015. Harvested area is estimated at 1.55 million acres, down 3 percent from the November forecast and down 1 percent from last year. The average yield is estimated at 3,675 pounds per acre, down 259 pounds from the November forecast and down 170 pounds from 2015.

Estimates began in 2016 for Arkansas.

Canola: Production in 2016 is estimated at a record 3.08 billion pounds, up 7 percent from 2015 and up 3 percent from the October forecast. The average yield, at a record high 1,824 pounds per acre, is up 144 pounds from the 2015 average yield and up 56 pounds from October. Planted area is estimated at 1.71 million acres, 4 percent below the previous year's acreage. Harvested area, at 1.69 million acres, is down 2 percent from 2015. Planted and harvested area for the Nation are both the fourth highest on record since records began in 1991.

Production in North Dakota, the leading canola-producing State, is estimated at a record high 2.66 billion pounds, up 7 percent from 2015.

Beginning in 2016, canola estimates were discontinued in Colorado.

Sunflower: The 2016 sunflower production totaled 2.65 billion pounds, down 9 percent from 2015 but up 8 percent from the October forecast. The United States average yield per acre increased 106 pounds from last year to a record high 1,731 pounds. Planted area, at 1.60 million acres, is 14 percent below last year. Area harvested decreased 15 percent from last year to 1.53 million acres.

North Dakota, the leading sunflower producing State during 2016, totaled 1.14 billion pounds, an increase of 7 percent from last year. Compared with last year, planted area in North Dakota decreased 4 percent but yield increased 192 pounds to a record high 1,715 pounds per acre. Meanwhile, production in South Dakota decreased 14 percent due to harvested area, which decreased 18 percent from last year. The average yield in South Dakota increased 100 pounds from 2015 to a record high 1,958 pounds per acre.

United States production of oil-type sunflower varieties, at 2.37 billion pounds, decreased less than 1 percent from 2015. Compared with last year, harvested acres are down 9 percent but the average yield increased by 152 pounds to a record high 1,731 pounds per acre.

Production of non-oil sunflower varieties is estimated at 286 million pounds, a decrease of 47 percent from last year, and is the lowest since 1985. Area harvested, at 165,500 acres, is down 43 percent from 2015, and is the lowest since 1983. The average yield decreased by 139 pounds from last year's record high to 1,726 pounds per acre. This still represents the second highest yield on record for non-oil varieties.

Harvest of sunflowers began in very late September and progressed ahead or very near normal throughout October in the four major States. As of October 30, sixty-two percent of the crop was harvested, 3 percentage points behind last year but 5 percentage points ahead of the 5-year average. By November 20, harvest progress had reached 94 percent complete. Nationally, 1 percentage point ahead of last year and 5 percentage points ahead of normal.

Beginning in 2016, sunflower estimates were discontinued in Oklahoma.

Soybeans: Production in 2016 totaled a record 4.31 billion bushels, down 1 percent from the November forecast but up 10 percent from 2015. The average yield per acre is estimated at a record high 52.1 bushels, 0.4 bushel below the November forecast but 4.1 bushels above the previous record yield in 2015. Planted area for the Nation, at a record 83.4 million acres, is up 1 percent from the 2015 planted acreage. Soybean growers harvested a record 82.7 million acres, down slightly from the November forecast but up 1 percent from last year.

Yields were at record high levels across nearly all of the northern United States from the northern Great Plains to the Appalachian Mountains, with 23 States Nationwide showing an increase in yield from 2015. Increases from last year of more than 5 bushels per acre occurred in Indiana, Kansas, Louisiana, Missouri, North Dakota, and Wisconsin. Record high yields occurred in Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, West Virginia, and Wisconsin.

The 2016 soybean objective yield survey data indicate that final average pod counts were higher than last year in all eleven objective yield States. Compared with last year, pod counts were up more than 150 pods per 18 square feet in Indiana, Missouri, and Nebraska.

Planting of the 2016 soybean crop started at a normal pace, estimated at 8 percent complete by May 1, two percentage points behind last year but 2 percentage points ahead of the 5-year average. By May 15, producers had planted 36 percent of the 2016 soybean crop, 5 percentage points behind last year but 4 percentage points ahead of the 5-year average. Emergence of the soybean crop was near historical averages during most of early May, and was 22 percent complete by May 22, five percentage points behind last year but slightly ahead of the 5-year average. Warmer temperatures in late May aided both planting and emergence, with 73 percent of the crop planted by May 29, five percentage points ahead of last year and 7 percentage points ahead of the 5-year average.

Nationally, 79 percent of the soybean crop was emerged by June 12, seven percentage points ahead of both last year and the 5-year average. Iowa soybean emergence was 10 percentage points, or about 10 days, ahead of the 5-year average on June 12. Soybean planting was virtually complete at 96 percent Nationwide by June 19. Nationally, 95 percent of the soybean crop was emerged by June 26, seven percentage points ahead of last year and 4 percentage points ahead of the 5-year average.

By July 3, twenty-two percent of the soybean crop was blooming, 5 percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Fifty-nine percent of the Nation's soybeans were blooming by July 17, eight percentage points ahead of last year and 10 percentage points ahead of the 5-year average. By July 24, thirty-five percent of the Nation's soybeans were at or beyond the pod-setting stage, 6 percentage points ahead of last year and 9 percentage points ahead of the 5-year average. By July 31, fifty-four percent of the Nation's soybeans were setting pods, 6 percentage points ahead of last year. As of July 31, seventy-two percent of the soybean crop was rated in good to excellent condition, compared with 63 percent for the same week last year.

By August 7, sixty-nine percent of the Nation's soybeans were setting pods, 4 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Eighty-nine percent of the crop was at or beyond the pod-setting stage on August 21, four percentage points ahead of both last year and the 5-year average. As of August 28, seventy-three percent of the United States soybean crop was rated in good to excellent condition, 10 percentage points above the same time in 2015.

By September 4, twelve percent of the soybean crop was at or beyond the dropping leaves stage, 3 percentage points behind last year but equal to the 5-year average. By September 18, forty-six percent of the Nation's soybean crop was dropping leaves, 4 percentage points behind last year but 3 percentage points ahead of the 5-year average. As of October 2, eighty-three percent of the United States soybean crop was dropping leaves or beyond, slightly ahead of last year and 4 percentage points ahead of the 5-year average. Despite soybeans dropping leaves being ahead of the 5-year average for all of September, heavy rainfall in the upper Mississippi Valley caused harvest progress to fall behind historical averages by late September. Overall, harvest was 26 percent complete on October 2, ten percentage points behind last year and slightly behind the 5-year average. At that time, harvest progress was behind the State 5-year average in 9 of the 18 estimating States. As of October 2, seventy-four percent of the Nation's soybean crop was rated in good to excellent condition, 10 percentage points above the same week last year.

Warm and generally dry conditions during the month of October provided suitable conditions for fieldwork across the major soybean producing regions. By October 16, the soybean crop was 62 percent harvested, 11 percentage points behind last year and slightly behind the 5-year average. Harvest progress remained well behind historical averages in numerous locations, with only 27 percent of the soybean crop harvested in Kansas as of October 16, eighteen percentage points behind the 5-year average. On October 16, thirty-three percent of soybeans were harvested in Michigan, 17 percentage points behind the 5-year average. As of October 30, harvest was 87 percent complete Nationwide, 4 percentage points behind last year but 2 percentage points ahead of the 5-year average. At the end of October, harvest progress was over 10 percentage points ahead of the State 5-year average in Arkansas, Kentucky, North Carolina, Ohio, and Tennessee. The soybean harvest was virtually complete by November 13 with 97 percent of the crop harvested, equal to last year but 2 percentage points ahead of the 5-year average.

Flaxseed: Production of flaxseed in 2016 totaled 8.68 million bushels, down 14 percent from last year. Harvested area totaled 367,000 acres in 2016, down 20 percent from the previous year. Harvested acreage in North Dakota, the largest flaxseed-producing State, is estimated at 330,000 acres, down 19 percent from 2015. The average United States yield for 2016, at 23.7 bushels per acre, is up 1.6 bushel from 2015 and is the highest yield on record. Record yields are estimated for 2016 in Montana and North Dakota.

Beginning in 2016, Flaxseed estimates were discontinued in Minnesota.

Safflower: Production of safflower in 2016, at 220 million pounds, is up 1 percent from 2015 and is the highest since 2010. Growers planted 161,100 acres in 2016, a decrease of 5 percent from 2015. Harvested area, at 154,400 acres, is down 4 percent from the previous year. Average yield, at 1,425 pounds per acre, increased 69 pounds from 2015 and is the highest since 2009.

Beginning in 2016, safflower estimates were discontinued in Colorado.

Other Oilseeds: Mustard seed production for 2016 more than tripled from the previous year to 96.3 million pounds. This represents the second highest production since records began in 1991, trailing only 2002. Planted area, at 103,100 acres, is up 134 percent from 2015. Harvested area, at 98,200 acres, is up 145 percent from last year. Planted and harvested acreage both represent the third highest area for the Nation since records began in 1991. The average yield, at 980 pounds per acre, is 309 pounds above the 2015 average yield and is tied for the second highest yield on record.

Rapeseed production is estimated at a record high 19.3 million pounds, significantly up from last year's production level of 1.52 million pounds. Growers planted 11,000 acres of rapeseed in 2016, an increase of 9,800 acres from 2015. Harvested area, at 10,500 acres, is up 9,400 acres from last year. Planted and harvested area in the United States both represent the second highest on record since records began in 1991. The average yield in 2016 was 1,840 pounds per acre, an increase of 458 pounds from 2015. Most of the increase in acreage is attributed to program changes made this year.

Beginning in 2016, rapeseed estimates were discontinued in Minnesota. Estimates began in 2016 in Montana, North Carolina, and North Dakota.

Cotton: Upland cotton production is estimated at 16.4 million 480-pound bales, up 3 percent from the December forecast and up 32 percent from last year. The United States yield for Upland cotton is estimated at 844 pounds per acre, up 34 pounds from the December forecast and up 89 pounds from 2015. Upland planted area, estimated at 9.88 million acres, is up 17 percent from last year. Harvested area, at 9.33 million acres, is down 1 percent from the December forecast but up 18 percent from last year. Record high Upland yields are estimated in Alabama, Arizona, California, Florida, Kansas, Oklahoma, and Tennessee.

American Pima producers planted 194,500 acres in 2016, up 23 percent from last year. Harvested area, at 189,700 acres, is up 22 percent from last year. Production is estimated at 557,500 bales (480-pound), down 1 percent from the September forecast but up 29 percent from last year. The United States yield is estimated at 1,411 pounds per acre, up 2 pounds from the September forecast and up 69 pounds from last year.

Ginnings totaled 13,882,600 running bales prior to January 1, compared with 11,091,550 running bales ginned prior to the same date last year.

Cottonseed: Production for 2016, based on a 3-year average lint-seed ratio, is expected to total 5.42 million tons, up 34 percent from last year.

Tobacco: United States all tobacco production for 2016 is estimated at 629 million pounds, down 13 percent from last year. Growers harvested 319,660 acres, down 3 percent from a year ago. Yield per acre averaged 1,967 pounds per acre, down 221 pounds per acre from 2015.

Flue-cured tobacco production is estimated at 431 million pounds, down 12 percent lower than last year. Harvested acres totaled 213,500 acres in 2016, 3 percent below a year ago. Yields averaged 2,021 pounds per acre, down 204 pounds from 2015. North Carolina growers reported some damage and disease caused by the high moisture brought on by multiple summer storms.

Burley production totaled 140 million pounds, down 3 percent from last year. Growers harvested 80,000 acres, up 1 percent from 2015. Yields averaged 1,747 pounds per acre, down 87 pounds from a year ago. Kentucky growers reported a wet summer delayed transplanting and weed control efforts. A dry fall made it hard to properly cure burley tobacco resulting in a difficult 2016 season.

Beginning in 2016, tobacco estimates were discontinued in Connecticut, Massachusetts, and Ohio.

Sugarbeets: Production for 2016 is estimated at 36.9 million tons, up 1 percent from the November 1 forecast and up 4 percent from last year revised production. Growers in the 11 major sugarbeet-producing States planted 1.16 million

acres, up slightly from the 2015 revised area. Harvested area, at 1.13 million acres, is down 2 percent from the previous year. Estimated yield, at 32.7 tons per acre, is up 0.3 tons from the November forecast and 1.8 tons above last year.

Estimates began in 2016 in Washington.

Sugarcane: Production of sugarcane for sugar and seed in 2016 is estimated at 33.0 million tons, of which 31.3 million tons were utilized for sugar and 1.73 million tons for seed. Total production for sugar and seed is down 2 percent from the December 1 forecast but up 3 percent from 2015. Sugarcane producers harvested 915,600 acres for sugar and seed in 2016, down 1 percent from the December forecast, but up 5 percent from last year. Yield for sugar and seed is estimated at 36.0 tons per acre, down 0.4 tons from the December forecast and down 0.7 tons from 2015.

Dry beans: United States dry edible bean production is forecast at 28.7 million cwt for 2016, down 4 percent from last year. Planted area is estimated at 1.66 million acres, down 6 percent from 2015. Harvested area is forecast at 1.56 million acres, 9 percent below the previous year. The average United States yield is forecast at 1,842 pounds per acre, an increase of 83 pounds from 2015.

In North Dakota, planting was complete by June 26, slightly ahead of the 5-year average. As of October 2, harvest was 70 percent complete, close to the 5-year average of 74 percent. Wet conditions in parts of the northeast resulted in some lost acres, but higher yields than a year ago helped to offset the production decline.

In Michigan, dry conditions in June affected crop development in the Thumb Region. Many growers reported that spotty showers in July and August were not sufficient to enable the crop to fully recover. Mild weather in September enabled harvest to be ahead of schedule by month's end. Harvest was 58 percent complete by October 2, slightly ahead of the previous year. Harvest conditions have been mostly mild, with a few scattered storms that led to minor delays.

In Minnesota, most of the crop was planted by June 12, almost 2 weeks ahead of the 5-year average. As of October 2, ninety-four percent of the crop was harvested. In Nebraska, harvest was 73 percent complete by October 2.

Lentils: Production of lentils is estimated at 12.7 million cwt, up 141 percent from last year and at record high levels for the United States and Montana. Planted area, at 933,000 acres, is up 89 percent from a year ago, while harvested acreage, at 908,000 acres, is up 91 percent from 2015. Planted and harvested area is at record highs in Montana, North Dakota, and the United States. Average yield is expected to be 1,397 pounds per acre, up 289 pounds from 2015. Idaho's yield is a record high.

In Montana, the crop was 94 percent planted by May 29 and reached 97 percent emergence by June 12. Harvest began in mid-July and was 95 percent complete by September 11. In North Dakota, harvest began in early August and was complete by the last week of September, approximately equal to the previous year. Moisture supplies were rated mostly adequate to surplus throughout the season. In Idaho and Washington, favorable weather conditions and adequate moisture supplies resulted in increased yields and production from a year ago.

Wrinkled seed peas: Production is estimated at 439,000 cwt in 2016, up 14 percent from 2015. Washington production increased by 23 percent, while Idaho increased 2 percent from a year ago.

Dry edible peas: Production of dry edible peas is estimated at 27.7 million cwt, up 52 percent from last year. Planted area, at 1.38 million acres, and harvested area, at 1.33 million acres, increased by 21 percent and 23 percent, respectively. United States planted acreage, harvested acreage, and production are record highs. Montana growers anticipate record high acreage and production, while North Dakota's production is at a record level. Average United States yield is expected to be 2,086 pounds per acre, up 399 pounds from 2015. Idaho's yield, at 2,500 pounds per acre, is a record high.

In Montana, the crop was 96 percent planted by May 22 and reached 99 percent emergence by June 12. Producers began harvesting in early July, and harvest was 96 percent complete by September 4. In North Dakota, planting began in early April this year and as of May 29 was 97 percent complete. Harvest started around mid-July, which was a full two weeks ahead of last year. Harvest was complete by early September, well ahead of the 5-year average. Excellent growing conditions were reported in Idaho, Oregon, and Washington.

Austrian winter peas: United States production of Austrian winter peas is estimated at 477,000 cwt, up 83 percent from last year. Production in Oregon is a record high. Planted area of Austrian winter peas is estimated at 38,000 acres, up 12 percent from a year ago. Area harvested is expected to total 28,000 acres, up 33 percent from 2015. United States yield, at 1,704 pounds per acre, is up 466 pounds from a year ago. In both Idaho and Oregon, yield is at a record high.

All potatoes: Total 2016 United States potato production is estimated at 441 million cwt, slightly below the 2015 crop. Harvested area, at 1.01 million acres, is down 4 percent from last year. The average yield, at a record high 437 cwt per acre, is up 19 cwt from last year.

Spring potatoes: Production for 2016 is estimated at 15.2 million cwt, down 27 percent from the 2015 crop. Harvested area totaled 48,000 acres, down 34 percent from a year ago. The average yield of 316 cwt per acre is up 30 cwt from 2015.

Beginning in 2016, spring potato estimates were discontinued in Arizona. In addition, North Carolina estimates were moved to the summer potato program.

Summer potatoes: Production of summer potatoes is estimated at 19.6 million cwt, up 25 percent from 2015. Harvested area is estimated at 60,700 acres, 29 percent above last year. Average yield is estimated at 323 cwt per acre, down 11 cwt from 2015.

Beginning in 2016, summer potato estimates were discontinued in Delaware. Estimates began in 2016 for North Carolina.

Fall potatoes: Production of fall potatoes for 2016 is estimated at 406 million cwt, up slightly from last year. Area harvested, at 899,000 acres, is down 4 percent from last year. The average yield is estimated at a record high 452 cwt per acre, up 19 cwt from last year's yield.

Idaho and Alaska set record high yields. Maine and Montana tied their previous record high yields. Several days of hot temperatures during the spring promoted crop development in both Idaho and Washington, which resulted in larger yields. Excessive amounts of rainfall in North Dakota led to a large abandonment of planted acres.

Beginning in 2016, potato estimates were discontinued in Massachusetts, Nevada, New Mexico, Ohio, Pennsylvania, and Rhode Island.

Sweet potatoes: Production of sweet potatoes in 2016 is estimated at 31.5 million cwt, up 2 percent from last year. Growers harvested 163,300 acres, up 7 percent from last year. Yield per acre, at 193 cwt, is down 10 cwt from last year.

Sweet potato acreage continues to grow in North Carolina. In September, Tropical storm Hermine brought heavy rains in September. In October, precipitation from Hurricane Matthew resulted in flooded fields and delayed harvest. Planting was delayed in Louisiana and excessive rainfall in August and September caused major flooding across the State.

Beginning in 2016, sweet potato estimates were discontinued in Alabama, New Jersey, and Texas.

Peppermint oil: Production in 2016 is estimated at 5.80 million pounds, down 1 percent from last year. Harvested area is estimated at 65,300 acres, unchanged from 2015. Average yield is estimated at 89 pounds of oil per acre, down 1 pound from a year ago.

Spearmint oil: Production is estimated at 3.21 million pounds for 2016, up 9 percent from last year. Harvested area is estimated at 24,500 acres, down 1,300 acres from a year ago. Average yield is estimated at 131 pounds of oil per acre, up 17 pound from last year.

Hops: Production for Idaho, Oregon, and Washington in 2016 totaled 87.1 million pounds, up 11 percent from the 2015 crop of 78.8 million pounds. Production increased in all three States; 16 percent in Oregon, 10 percent in Washington, and 7 percent in Idaho. Combined area harvested for Idaho, Oregon, and Washington in 2016 totaled

50,857 acres, up 17 percent from the 2015 level of 43,633 acres. Acreage increased in all three States; 17 percent in Oregon, 16 percent in Washington, and 16 percent in Idaho. United States hop yield, at 1,713 pounds per acre, decreased 94 pounds from a year ago.

Washington growers produced 75 percent of the United States hop crop for 2016. Cascade, Simcoe, Zeus, Centennial, Citra, and Mosaic were the six leading varieties in Washington, accounting for about 58 percent of the State's hop crop. In Oregon, Nugget, Cascade, and Willamette were the major varieties, accounting for 49 percent of the State's hop production. In Idaho, Zeus, Cascade, and Mosaic were the major varieties, accounting for 42 percent of the State's hop production.

Maple syrup: The 2016 United States maple syrup production totaled 4.21 million gallons, up 23 percent from the previous year. The number of taps is estimated at 12.6 million, up 5 percent from the 2015 total. Yield per tap is estimated to be 0.335 gallon, up 17 percent from the previous season's yield. Pennsylvania reported a record high number of taps in 2016, while Massachusetts and Vermont reported record high production. Beginning in 2016, Indiana, Minnesota, and West Virginia were added to the maple syrup estimating program.

Statistical Methodology

Survey procedures: The estimates in this report are based primarily on surveys conducted the first two weeks of December. The December Agricultural Survey (DAS) is a probability survey that includes a sample of approximately 82,900 farm operators selected from a list of producers that ensures all operations in the United States have a chance to be selected. Data from operators was collected by mail, internet, telephone, or personal interview to obtain information on crop acreage, yield and production for the 2016 crop year.

Estimating procedures: National and State level objective yield and farm operator reported data (DAS) were reviewed for reasonableness and consistency with historical estimates. The survey data were also reviewed considering weather patterns and crop progress compared with previous years. Each Regional Field Office submits an estimate and written analysis for their State to the Agricultural Statistics Board (ASB). The ASB uses the survey data, administrative data, and the State analysis to prepare the estimates published in this report.

Revision policy: Estimates contained in this report may be revised the following year, if new information is available that would justify a change. Estimates will also be reviewed after data for the 5-year Census of Agriculture are available. No revisions will be made after that date.

Reliability: The surveys used to make the acreage, yield, and production estimates contained in this report are subject to sampling and non-sampling type errors that are common to all surveys. Reliability of the objective yield and farmer survey must be treated separately because the survey designs for the two surveys are different. The objective yield indications (corn, cotton, and soybeans) are subject to sampling variability because all acres of a given commodity are not included in the sample.

The farm operator survey indications are also subject to sampling variability because not all operations with commodities of interest are included in the sample. This variability, as measured by the relative standard error at the National level, is approximately 1.3 for corn, 2.5 for Upland cotton and 1.1 for soybeans. This means that chances are approximately 95 out of 100 that survey estimates for production will be within plus or minus 2.6 percent for corn, 5.0 percent for Upland cotton, and 2.2 percent for soybeans.

Survey indications are also subject to non-sampling errors such as omission, duplication, imputation for missing data, and mistakes in reporting, recording, and processing the data. These errors cannot be measured directly, but they are minimized through rigid quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

USDA, National Agricultural Statistics Service Information Contacts

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Fleming Gibson – Citrus, Coffee, Tropical Fruits.....	(202) 720-5412
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Daphne Schauber – Floriculture, Grapes, Hops, Maple Syrup, Nursery, Tree Nuts.....	(202) 720-4215
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