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Service



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Crop Production 2019 Summary

January 2020

USDA



Special Note

When producers were surveyed, there was significant unharvested acreage of corn in Michigan, Minnesota, North Dakota, South Dakota, and Wisconsin; and soybean acreage not yet harvested in Michigan, North Dakota, and Wisconsin. The unharvested area and expected production were included in the totals published in this report.

NASS will re-contact respondents who previously reported acreage not yet harvested in these States in early spring. If the newly collected data justifies any changes, NASS will update the 2019 corn and soybean estimates published in this report. Stocks estimates are also subject to review since unharvested production is included in the estimate of on-farm stocks.

After a thorough review of the balance sheet for the 2018 corn crop, NASS determined that revisions were necessary for the 2018 corn production and September 1, 2019 stocks estimates. Production was revised down 0.6 percent. Planted area was reduced 0.3 percent and harvested area was reduced 0.6 percent. Acreage and production revisions by State can be found on pages 10-11 of this report. Stocks revisions can be found in the *Grain Stocks* publication.

Corn for grain production in 2019 was estimated at 13.7 billion bushels, down 5 percent from the revised 2018 estimate. The average yield in the United States was estimated at 168.0 bushels per acre, 8.4 bushels below the 2018 yield of 176.4 bushels per acre. Area harvested for grain was estimated at 81.5 million acres, up less than 1 percent from the revised 2018 estimate.

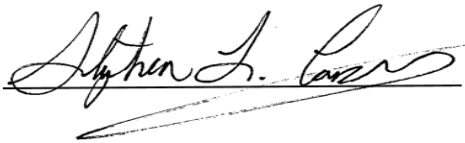
Sorghum: Grain production in 2019 was estimated at 341 million bushels, down 6 percent from the 2018 total. Planted area for 2019 was estimated at a record low 5.27 million acres, down 7 percent from the previous year. Area harvested for grain, at 4.68 million acres, was down 8 percent from 2018. Grain yield was estimated at 73.0 bushels per acre, up 0.9 bushel from 2018.

Rice: Production in 2019 totaled 185 million cwt, down 17 percent from the 2018 total. Planted area for 2019 was estimated at 2.54 million acres, down 14 percent from 2018. Area harvested, at 2.47 million acres, was down 15 percent from the previous crop year. The average yield for all United States rice was estimated at 7,471 pounds per acre, down 221 pounds from the 2018 average yield of 7,692 pounds per acre.

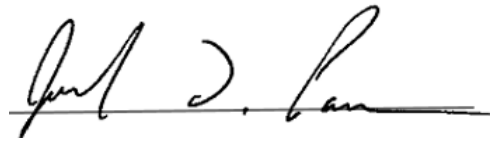
Soybean production in 2019 totaled 3.56 billion bushels, down 20 percent from 2018. The average yield per acre was estimated at 47.4 bushels, down 3.2 bushels from 2018. Harvested area was down 14 percent from 2018 to 75.0 million acres.

All cotton production is estimated at 20.1 million 480-pound bales, up 9 percent from 2018. The United States yield is estimated at 817 pounds per acre, down 47 pounds from last year. Harvested area, at 11.8 million acres, is up 16 percent from last year.

This report was approved on January 10, 2020.



Secretary of Agriculture
Designate
Stephen L. Censky



Agricultural Statistics Board
Chairperson
Joseph L. Parsons

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Principal Crops Area Planted and Harvested – States and United States: 2017-2019

[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		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	2,280	2,325	2,115	2,180	2,218	2,050
Alaska ¹		28	28		27	27
Arizona	700	665	634	685	640	625
Arkansas	7,299	7,282	6,598	7,102	7,099	6,417
California	3,096	2,946	2,941	2,701	2,515	2,542
Colorado	6,245	6,140	6,091	5,874	5,585	5,799
Connecticut	72	70	70	68	67	68
Delaware	462	453	435	429	409	415
Florida	1,146	1,114	1,072	1,120	1,063	1,059
Georgia	3,634	3,653	3,354	3,288	3,141	3,152
Idaho	4,205	4,177	4,107	4,070	4,064	3,956
Illinois	22,851	22,936	21,590	22,694	22,480	21,210
Indiana	12,130	12,120	11,250	12,030	11,950	11,070
Iowa	24,491	24,241	23,935	24,280	23,829	23,619
Kansas	23,633	23,465	23,113	22,743	22,694	22,268
Kentucky	5,956	5,693	5,712	5,761	5,503	5,552
Louisiana	3,275	3,287	3,025	3,230	3,113	2,952
Maine	226	227	229	221	221	222
Maryland	1,633	1,572	1,556	1,370	1,361	1,346
Massachusetts	93	93	65	90	91	62
Michigan	6,349	6,390	5,541	6,246	6,264	5,345
Minnesota	19,691	19,484	18,349	19,426	19,132	17,849
Mississippi	4,159	4,144	3,822	4,099	4,059	3,720
Missouri	13,533	13,782	12,827	13,277	13,393	12,367
Montana	9,079	9,835	9,946	8,294	9,349	9,403
Nebraska	19,566	19,742	19,176	19,244	19,341	18,777
Nevada	426	401	450	409	380	447
New Hampshire	59	52	61	58	51	60
New Jersey	310	314	282	302	304	272
New Mexico	906	874	823	669	618	543
New York	2,800	2,828	2,591	2,739	2,764	2,504
North Carolina	4,428	4,593	4,400	4,296	4,348	4,273
North Dakota	23,617	24,163	23,221	22,714	23,622	21,372
Ohio	10,010	10,065	8,595	9,890	9,930	8,340
Oklahoma	9,827	10,036	9,390	7,879	7,550	7,416
Oregon	2,080	1,997	1,905	2,042	1,934	1,878
Pennsylvania	3,728	3,443	3,686	3,608	3,321	3,495
Rhode Island	8	8	7	8	8	7
South Carolina	1,544	1,498	1,428	1,492	1,368	1,015
South Dakota	17,422	17,300	13,816	16,228	16,590	13,269
Tennessee	4,841	4,896	4,836	4,701	4,754	4,716
Texas	21,580	21,833	21,418	17,079	14,922	16,799
Utah	944	871	907	919	836	887
Vermont	267	255	241	261	249	237
Virginia	2,674	2,634	2,609	2,554	2,502	2,474
Washington	3,634	3,697	3,542	3,554	3,607	3,471
West Virginia	652	617	567	646	609	565
Wisconsin	7,781	8,014	7,624	7,545	7,747	7,086
Wyoming	1,510	1,474	1,504	1,437	1,417	1,456
United States ²	318,340	319,305	302,635	301,779	299,244	284,949

¹ Data included in principle crop total beginning in 2018.

² States do not add to United States due to rye unallocated acreage.

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Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2017-2019

State	Area planted for all purposes			Area harvested for grain		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Alabama	250	255	320	235	245	305
Arizona	65	80	90	32	20	37
Arkansas	620	660	770	595	645	725
California	430	430	460	80	65	60
Colorado	1,460	1,460	1,550	1,300	1,190	1,300
Connecticut ¹	24	23	23	(NA)	(NA)	(NA)
Delaware	180	170	185	171	166	180
Florida	75	95	90	37	62	54
Georgia	290	325	395	245	285	350
Idaho	340	350	385	115	125	148
Illinois	11,200	11,000	10,500	10,950	10,800	10,200
Indiana	5,350	5,300	5,000	5,200	5,120	4,820
Iowa	13,300	13,200	13,500	12,900	12,750	13,050
Kansas	5,500	5,450	6,400	5,200	4,980	6,020
Kentucky	1,320	1,330	1,550	1,220	1,220	1,450
Louisiana	500	460	570	490	450	545
Maine ¹	31	30	29	(NA)	(NA)	(NA)
Maryland	480	440	510	420	380	460
Massachusetts ¹	15	14	14	(NA)	(NA)	(NA)
Michigan	2,250	2,250	2,000	1,890	1,890	1,610
Minnesota	8,050	7,900	7,800	7,630	7,460	7,260
Mississippi	520	480	660	500	460	620
Missouri	3,400	3,500	3,200	3,250	3,330	2,990
Montana	115	115	115	65	68	60
Nebraska	9,550	9,600	10,100	9,300	9,300	9,810
Nevada ¹	12	13	15	(NA)	(NA)	(NA)
New Hampshire ¹	14	13	12	(NA)	(NA)	(NA)
New Jersey	77	70	77	70	60	68
New Mexico	125	135	145	43	35	46
New York	1,000	1,070	1,020	485	615	545
North Carolina	890	910	990	840	830	930
North Dakota	3,420	3,150	3,500	3,230	2,930	3,230
Ohio	3,400	3,500	2,800	3,150	3,300	2,570
Oklahoma	350	310	370	305	270	330
Oregon	85	75	80	44	40	48
Pennsylvania	1,350	1,300	1,450	920	890	1,060
Rhode Island ¹	2	2	2	(NA)	(NA)	(NA)
South Carolina	350	340	380	325	310	350
South Dakota	5,700	5,300	4,350	5,080	4,860	3,910
Tennessee	750	720	970	710	670	910
Texas	2,450	2,200	2,500	2,240	1,750	2,150
Utah	80	70	85	20	22	26
Vermont ¹	82	85	81	(NA)	(NA)	(NA)
Virginia	500	485	540	340	325	380
Washington	170	165	170	80	85	90
West Virginia	50	46	52	33	33	38
Wisconsin	3,900	3,900	3,800	2,930	3,170	2,680
Wyoming	95	95	95	63	70	67
United States	90,167	88,871	89,700	82,733	81,276	81,482

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: 2017-2019 (continued)

State	Yield per acre			Production		
	2017 (bushels)	2018 (bushels)	2019 (bushels)	2017 (1,000 bushels)	2018 (1,000 bushels)	2019 (1,000 bushels)
Alabama	167.0	156.0	147.0	39,245	38,220	44,835
Arizona	195.0	220.0	231.0	6,240	4,400	8,547
Arkansas	183.0	181.0	175.0	108,885	116,745	126,875
California	167.0	173.0	168.0	13,360	11,245	10,080
Colorado	143.0	130.0	123.0	185,900	154,700	159,900
Connecticut ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Delaware	189.0	145.0	161.0	32,319	24,070	28,980
Florida	161.0	157.0	161.0	5,957	9,734	8,694
Georgia	176.0	176.0	160.0	43,120	50,160	56,000
Idaho	203.0	213.0	205.0	23,345	26,625	30,340
Illinois	201.0	210.0	181.0	2,200,950	2,268,000	1,846,200
Indiana	180.0	189.0	169.0	936,000	967,680	814,580
Iowa	202.0	196.0	198.0	2,605,800	2,499,000	2,583,900
Kansas	132.0	129.0	133.0	686,400	642,420	800,660
Kentucky	178.0	175.0	169.0	217,160	213,500	245,050
Louisiana	184.0	173.0	165.0	90,160	77,850	89,925
Maine ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Maryland	172.0	146.0	161.0	72,240	55,480	74,060
Massachusetts ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Michigan	159.0	153.0	149.0	300,510	289,170	239,890
Minnesota	194.0	182.0	174.0	1,480,220	1,357,720	1,263,240
Mississippi	189.0	185.0	174.0	94,500	85,100	107,880
Missouri	170.0	140.0	155.0	552,500	466,200	463,450
Montana	70.0	85.0	95.0	4,550	5,780	5,700
Nebraska	181.0	192.0	182.0	1,683,300	1,785,600	1,785,420
Nevada ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Hampshire ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Jersey	167.0	141.0	155.0	11,690	8,460	10,540
New Mexico	134.0	187.0	135.0	5,762	6,545	6,210
New York	161.0	159.0	158.0	78,085	97,785	86,110
North Carolina	142.0	113.0	111.0	119,280	93,790	103,230
North Dakota	139.0	153.0	141.0	448,970	448,290	455,430
Ohio	177.0	187.0	164.0	557,550	617,100	421,480
Oklahoma	126.0	134.0	137.0	38,430	36,180	45,210
Oregon	212.0	195.0	237.0	9,328	7,800	11,376
Pennsylvania	161.0	140.0	153.0	148,120	124,600	162,180
Rhode Island ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
South Carolina	136.0	127.0	106.0	44,200	39,370	37,100
South Dakota	145.0	160.0	145.0	736,600	777,600	566,950
Tennessee	171.0	168.0	177.0	121,410	112,560	161,070
Texas	140.0	108.0	133.0	313,600	189,000	285,950
Utah	176.0	182.0	143.0	3,520	4,004	3,718
Vermont ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Virginia	140.0	146.0	144.0	47,600	47,450	54,720
Washington	225.0	220.0	237.0	18,000	18,700	21,330
West Virginia	152.0	152.0	165.0	5,016	5,016	6,270
Wisconsin	174.0	172.0	168.0	509,820	545,240	450,240
Wyoming	155.0	164.0	123.0	9,765	11,480	8,241
United States	176.6	176.4	168.0	14,609,407	14,340,369	13,691,561

(NA) Not available.

¹ Area harvested for grain not estimated.

Corn for Silage Area Harvested, Yield, and Production – States and United States: 2017-2019

State	Area harvested			Yield per acre			Production		
	2017	2018	2019	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	7	5	7	17.0	16.0	13.0	119	80	91
Arizona	32	58	50	31.0	29.0	29.0	992	1,682	1,450
Arkansas	2	3	7	19.0	21.0	16.0	38	63	112
California	345	360	395	26.5	27.5	27.0	9,143	9,900	10,665
Colorado	130	190	175	25.5	22.0	24.0	3,315	4,180	4,200
Connecticut	20	20	21	19.5	19.0	21.0	390	380	441
Delaware	7	3	4	19.5	24.0	23.0	137	72	92
Florida	35	30	35	19.0	21.0	20.0	665	630	700
Georgia	35	30	25	16.0	21.0	22.0	560	630	550
Idaho	220	220	235	30.0	30.0	28.0	6,600	6,600	6,580
Illinois	190	100	170	17.0	20.0	20.0	3,230	2,000	3,400
Indiana	110	100	110	21.0	21.0	20.0	2,310	2,100	2,200
Iowa	330	270	360	21.0	20.5	22.0	6,930	5,535	7,920
Kansas	250	390	250	21.5	13.5	17.5	5,375	5,265	4,375
Kentucky	85	90	80	20.0	21.0	21.0	1,700	1,890	1,680
Louisiana	1	2	3	20.0	20.0	19.0	20	40	57
Maine	27	27	26	18.0	20.0	19.0	486	540	494
Maryland	50	45	40	20.5	19.0	22.0	1,025	855	880
Massachusetts	12	11	11	19.0	20.0	20.0	228	240	220
Michigan	340	340	340	18.5	17.5	18.5	6,290	5,950	6,290
Minnesota	360	340	460	21.5	22.0	19.0	7,740	7,480	8,740
Mississippi	7	7	7	18.0	15.0	15.0	126	105	105
Missouri	70	100	70	15.0	13.0	16.0	1,050	1,300	1,120
Montana	25	37	50	20.0	20.0	23.0	500	740	1,150
Nebraska	210	220	200	19.5	21.0	23.0	4,095	4,620	4,600
Nevada	10	7	12	24.0	26.0	25.0	240	182	300
New Hampshire	13	12	11	20.0	21.0	20.0	260	252	220
New Jersey	6	6	7	19.5	19.0	22.0	117	114	154
New Mexico	80	95	90	25.0	22.0	20.0	2,000	2,090	1,800
New York	495	445	445	18.0	19.0	18.0	8,910	8,455	8,010
North Carolina	40	50	50	18.0	16.0	18.0	720	800	900
North Dakota	160	170	140	10.0	15.0	19.5	1,600	2,550	2,730
Ohio	210	160	170	20.0	20.0	19.0	4,200	3,200	3,230
Oklahoma	20	20	20	20.0	11.0	13.0	400	220	260
Oregon	40	34	35	24.0	23.0	24.0	960	782	840
Pennsylvania	420	390	380	21.5	19.0	20.0	9,030	7,410	7,600
Rhode Island	2	2	2	18.0	21.0	20.0	36	42	40
South Carolina	16	19	13	18.0	14.0	14.0	288	266	182
South Dakota	510	360	340	12.5	16.5	17.5	6,375	5,940	5,950
Tennessee	30	38	40	22.0	19.0	20.0	660	722	800
Texas	150	270	280	22.0	16.0	20.0	3,300	4,320	5,600
Utah	56	45	55	25.0	23.0	24.0	1,400	1,035	1,320
Vermont	76	79	77	16.5	19.0	18.0	1,254	1,501	1,386
Virginia	135	135	135	18.0	19.0	19.0	2,430	2,565	2,565
Washington	90	80	80	27.0	26.0	23.0	2,430	2,080	1,840
West Virginia	16	11	12	20.0	19.0	20.0	320	209	240
Wisconsin	880	670	1,040	19.0	20.0	17.5	16,720	13,400	18,200
Wyoming	30	23	22	24.0	24.0	24.0	720	552	528
United States	6,385	6,120	6,587	20.0	19.9	20.2	127,434	121,564	132,807

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in 10 corn producing States during 2019. Randomly selected plots in corn for grain fields were visited monthly from September 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: 2015-2019

State and month	2015	2016	2017	2018	2019	State and month	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	31,800	31,100	30,800	32,000	31,100	All corn					
October	31,750	31,100	30,900	32,000	30,950	September	26,650	25,900	25,950	27,100	25,850
November	31,750	31,100	30,950	32,000	30,900	October	26,750	25,950	25,800	26,750	25,850
Final	31,750	31,100	30,950	32,000	30,900	November	26,700	26,000	25,700	26,750	25,700
						Final	26,700	26,000	25,700	26,750	25,700
Indiana						Irrigated					
September	30,400	30,200	29,550	30,450	29,300	September	29,100	28,200	29,050	30,300	28,300
October	30,100	29,950	29,350	30,400	29,050	October	29,300	28,200	29,000	29,900	28,350
November	30,000	29,800	29,200	30,400	29,000	November	29,250	28,300	28,750	29,900	28,300
Final	29,950	29,800	29,200	30,400	28,950	Final	29,250	28,300	28,750	29,900	28,300
Iowa						Non-irrigated					
September	31,500	31,250	31,300	31,350	30,850	September	23,500	22,900	22,500	23,350	23,300
October	31,450	31,050	31,150	31,150	30,800	October	23,550	23,000	22,200	23,100	23,250
November	31,450	31,050	31,150	31,100	30,750	November	23,550	23,000	22,250	23,150	23,000
Final	31,450	31,050	31,150	31,100	30,750	Final	23,550	23,000	22,250	23,150	23,000
Kansas						Ohio					
September	23,400	22,550	22,050	22,600	21,350	September	30,000	30,250	29,250	30,550	30,050
October	23,750	22,550	22,100	22,450	21,200	October	30,000	30,100	29,150	30,400	30,100
November	23,800	22,550	22,300	22,450	21,200	November	29,950	30,250	29,100	30,400	30,000
Final	23,800	22,550	22,300	22,450	21,200	Final	29,950	30,250	29,100	30,400	30,000
Minnesota						South Dakota					
September	30,650	30,800	30,750	30,950	30,700	September	26,350	26,200	26,250	27,000	26,400
October	30,750	30,700	30,550	30,900	30,650	October	26,250	26,100	26,200	26,750	26,100
November	30,750	30,550	30,600	30,900	30,550	November	26,200	26,000	26,200	27,000	26,000
Final	30,750	30,550	30,600	30,900	30,650	Final	26,200	26,000	26,200	27,000	25,900
Missouri						Wisconsin					
September	27,900	27,300	27,850	28,500	28,200	September	29,900	30,100	29,450	31,000	30,250
October	27,600	27,750	27,850	28,400	27,500	October	29,700	29,900	29,100	30,600	30,150
November	27,600	27,800	27,950	28,400	27,600	November	29,450	29,800	29,150	30,650	29,750
Final	27,600	27,800	27,950	28,400	27,600	Final	29,450	29,800	29,100	30,650	29,850
						10 State					
						September	29,550	29,050	28,800	29,500	28,650
						October	29,500	28,950	28,700	29,350	28,500
						November	29,450	28,950	28,700	29,400	28,450
						Final	29,450	28,950	28,700	29,350	28,450

Corn for Grain Number of Ears per Acre – Selected States: 2015-2019

State and month	2015	2016	2017	2018	2019	State and month	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	30,800	30,350	30,200	31,550	30,300	All corn					
October	30,750	30,450	30,300	31,500	30,300	September ...	26,650	25,700	25,800	27,100	25,850
November	30,800	30,450	30,250	31,500	30,150	October	26,700	25,350	26,050	26,750	25,950
Final	30,800	30,450	30,250	31,500	30,150	November	26,700	25,400	25,950	26,800	25,700
						Final	26,700	25,400	25,950	26,800	25,700
Indiana						Irrigated					
September	29,550	29,600	28,900	30,000	28,900	September ...	29,000	27,850	28,650	29,950	28,200
October	29,300	29,400	29,100	29,800	28,700	October	29,250	27,500	28,950	29,350	28,150
November	29,250	29,250	28,850	29,750	28,650	November	29,200	27,550	28,750	29,300	28,000
Final	29,150	29,250	28,850	29,750	28,600	Final	29,200	27,550	28,750	29,300	28,000
Iowa						Non-irrigated					
September	30,950	30,550	30,600	31,150	30,250	September ...	23,650	22,850	22,600	23,850	23,500
October	30,800	30,400	30,600	30,900	30,200	October	23,550	22,550	22,800	23,650	23,700
November	30,850	30,500	30,600	30,800	30,100	November	23,550	22,550	22,900	23,850	23,400
Final	30,850	30,500	30,600	30,800	30,100	Final	23,550	22,550	22,900	23,850	23,400
Kansas						Ohio					
September	23,300	22,650	22,800	22,350	21,550	September	29,650	29,750	29,500	30,750	29,850
October	23,700	22,450	22,600	21,650	22,250	October	29,650	29,200	29,250	30,300	29,750
November	23,650	22,450	22,650	21,700	22,200	November	29,600	29,600	29,150	30,300	29,550
Final	23,650	22,450	22,650	21,700	22,200	Final	29,600	29,600	29,150	30,300	29,550
Minnesota						South Dakota					
September	30,500	30,550	30,750	30,850	30,050	September	26,200	25,650	26,250	28,100	26,450
October	30,400	30,350	30,850	30,850	29,800	October	25,900	25,350	26,150	27,750	25,300
November	30,450	30,250	30,850	30,800	29,650	November	25,750	25,450	26,200	27,950	25,000
Final	30,450	30,250	30,600	30,800	29,700	Final	25,750	25,450	25,850	28,050	24,900
Missouri						Wisconsin					
September	27,350	26,900	27,750	27,400	26,950	September	29,500	29,300	28,950	30,700	29,850
October	26,900	27,150	27,800	27,300	26,950	October	28,950	28,900	28,800	30,450	30,250
November	26,850	27,150	27,850	27,300	27,100	November	28,600	28,750	28,600	30,450	29,850
Final	26,850	27,150	27,850	27,300	27,100	Final	28,600	28,750	28,550	30,450	29,950
						10-State					
						September	29,050	28,550	28,550	29,350	28,200
						October	28,950	28,350	28,550	29,100	28,200
						November	28,900	28,400	28,500	29,100	28,050
						Final	28,900	28,400	28,450	29,100	28,050

Corn for Grain Percentage Distribution by Plant Population per Acre – Selected States: 2015-2019

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 2015	-	1.3	1.8	7.9	17.2	71.8
..... 2016	0.9	0.5	4.3	11.8	18.0	64.5
..... 2017	0.5	1.4	3.8	11.5	20.6	62.2
..... 2018	-	0.9	1.4	6.6	15.6	75.5
..... 2019	0.9	2.8	3.7	9.3	18.7	64.6
Indiana 2015	4.6	1.5	4.6	11.5	20.8	57.0
..... 2016	1.7	1.7	8.3	11.6	19.8	56.9
..... 2017	5.7	4.9	6.5	13.0	21.1	48.8
..... 2018	1.5	0.8	2.3	10.7	27.5	57.2
..... 2019	5.6	5.6	5.6	11.1	24.1	48.0
Iowa 2015	0.4	0.8	2.4	4.9	15.5	76.0
..... 2016	0.4	1.8	2.2	8.9	22.7	64.0
..... 2017	1.3	3.4	2.1	5.9	13.5	73.8
..... 2018	0.4	1.7	3.3	6.3	19.2	69.1
..... 2019	0.8	0.8	3.8	9.0	21.1	64.5
Kansas 2015	20.2	18.2	11.1	27.2	6.1	17.2
..... 2016	27.9	14.8	19.4	12.0	17.6	8.3
..... 2017	24.3	21.2	17.2	21.2	12.1	4.0
..... 2018	33.0	12.4	12.4	14.4	7.2	20.6
..... 2019	39.9	8.0	12.0	14.7	14.7	10.7
Minnesota 2015	-	1.6	3.1	11.0	22.8	61.5
..... 2016	0.8	3.0	4.5	11.4	21.2	59.1
..... 2017	2.8	4.7	5.6	7.5	12.1	67.3
..... 2018	-	1.7	8.7	6.1	13.9	69.6
..... 2019	1.4	4.2	8.3	2.8	25.0	58.3
Missouri 2015	6.6	3.3	15.4	28.5	25.3	20.9
..... 2016	3.0	6.0	14.0	28.0	23.0	26.0
..... 2017	1.9	1.0	15.5	26.2	26.2	29.2
..... 2018	2.2	6.5	8.6	20.4	28.0	34.3
..... 2019	2.8	8.3	16.7	22.2	16.7	33.3
Nebraska 2015	8.4	7.8	15.6	16.8	21.2	30.2
..... 2016	9.6	10.1	16.3	20.2	19.7	24.1
..... 2017	16.8	6.3	12.6	19.4	17.8	27.1
..... 2018	12.0	4.9	7.1	16.4	25.1	34.5
..... 2019	15.1	12.3	12.3	17.9	19.8	22.6
Ohio 2015	4.4	1.8	2.7	8.0	21.2	61.9
..... 2016	1.9	2.9	1.0	9.6	26.9	57.7
..... 2017	2.7	4.4	7.1	15.0	25.7	45.1
..... 2018	1.0	3.9	3.9	7.8	23.5	59.9
..... 2019	-	4.3	4.3	12.8	19.1	59.5
South Dakota 2015	12.1	5.5	17.6	20.9	26.3	17.6
..... 2016	13.2	5.3	17.1	26.3	18.4	19.7
..... 2017	8.1	13.5	16.2	16.2	25.7	20.3
..... 2018	7.4	12.6	11.6	18.9	21.1	28.4
..... 2019	9.3	7.0	23.3	23.3	30.1	7.0
Wisconsin 2015	2.4	2.4	7.3	14.6	23.2	50.1
..... 2016	2.4	4.9	3.7	11.0	18.3	59.7
..... 2017	3.9	2.6	6.6	19.7	21.1	46.1
..... 2018	2.0	2.0	-	7.9	19.8	68.3
..... 2019	-	-	9.4	15.6	25.0	50.0

- Represents zero.

Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2015-2019

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois2015	11	222	1	1	-
.....2016	6	218	-	1	-
.....2017	6	210	4	1	-
.....2018	9	211	-	-	-
.....2019	2	110	1	-	-
Indiana2015	8	124	3	1	-
.....2016	8	118	1	1	1
.....2017	7	117	-	-	-
.....2018	9	126	1	1	-
.....2019	4	53	1	-	-
Iowa2015	7	241	3	1	-
.....2016	12	213	4	4	-
.....2017	2	236	3	3	-
.....2018	12	234	2	1	-
.....2019	3	136	-	1	-
Kansas2015	2	105	3	-	-
.....2016	8	105	-	-	-
.....2017	2	106	2	-	-
.....2018	10	91	-	-	-
.....2019	9	70	-	-	-
Minnesota2015	29	118	1	-	-
.....2016	27	113	2	-	-
.....2017	27	89	2	-	-
.....2018	21	97	3	2	-
.....2019	15	63	3	1	-
Missouri2015	2	101	2	1	-
.....2016	5	96	1	2	-
.....2017	3	101	5	2	-
.....2018	5	90	1	2	1
.....2019	5	30	1	2	-
Nebraska2015	5	166	18	-	-
.....2016	-	162	23	-	-
.....2017	2	169	23	2	-
.....2018	6	160	25	-	-
.....2019	3	98	15	-	-
Ohio2015	2	110	4	1	2
.....2016	4	105	-	1	-
.....2017	2	109	1	1	-
.....2018	3	100	-	-	-
.....2019	2	45	1	-	-
South Dakota2015	13	78	1	2	-
.....2016	5	71	4	1	2
.....2017	6	75	1	1	-
.....2018	8	92	2	2	-
.....2019	5	45	-	1	-
Wisconsin2015	4	91	3	1	1
.....2016	2	84	2	2	-
.....2017	4	83	5	1	-
.....2018	4	108	4	2	-
.....2019	1	39	-	-	-

- Represents zero.

Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2015-2019

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	2015	227	4.0	78.9	16.7	-	0.4	-	29.7
	2016	211	2.4	87.6	9.5	-	-	0.5	29.8
	2017	209	1.4	85.1	12.0	0.5	0.5	0.5	30.1
	2018	212	1.9	87.7	10.4	-	-	-	29.9
	2019	107	-	83.2	15.9	0.9	-	-	30.2
Indiana	2015	130	4.6	77.7	13.1	1.5	2.3	0.8	29.8
	2016	121	3.3	72.7	22.3	1.7	-	-	29.8
	2017	123	2.4	78.9	17.9	0.8	-	-	29.8
	2018	131	6.1	71.7	19.8	0.8	0.8	0.8	29.8
	2019	54	1.9	77.7	18.5	-	1.9	-	30.2
Iowa	2015	245	2.4	76.8	19.2	1.6	-	-	30.0
	2016	225	2.2	76.9	19.1	0.9	0.9	-	30.0
	2017	237	0.8	76.4	19.0	0.4	3.0	0.4	30.4
	2018	239	3.8	77.4	17.2	0.8	0.8	-	29.9
	2019	133	1.5	78.1	18.8	0.8	0.8	-	30.0
Kansas	2015	99	2.0	74.8	20.2	2.0	1.0	-	30.2
	2016	108	4.6	85.2	10.2	-	-	-	29.6
	2017	99	2.0	75.8	21.2	-	-	1.0	30.1
	2018	97	3.1	76.3	20.6	-	-	-	29.7
	2019	75	4.0	81.3	14.7	-	-	-	29.9
Minnesota	2015	127	3.1	85.9	10.2	0.8	-	-	28.5
	2016	132	2.3	78.0	17.4	0.8	1.5	-	28.8
	2017	107	4.7	81.4	8.4	0.9	3.7	0.9	28.9
	2018	115	1.7	82.6	11.3	2.6	0.9	0.9	29.3
	2019	72	5.6	72.1	18.1	4.2	-	-	29.0
Missouri	2015	91	-	73.6	24.2	-	2.2	-	30.4
	2016	100	1.0	76.0	20.0	1.0	2.0	-	30.0
	2017	103	1.9	66.1	25.2	3.9	1.0	1.9	30.4
	2018	93	1.1	76.2	18.3	2.2	1.1	1.1	30.1
	2019	36	2.8	74.9	13.9	2.8	5.6	-	30.2
Nebraska	2015	179	2.2	71.6	15.1	8.9	2.2	-	30.7
	2016	178	-	65.2	20.2	9.0	4.5	1.1	31.2
	2017	191	-	70.7	15.7	9.4	4.2	-	31.0
	2018	183	1.6	65.6	15.3	12.6	4.9	-	31.2
	2019	106	1.9	71.7	14.2	11.3	0.9	-	30.8
Ohio	2015	113	1.8	74.2	20.4	2.7	-	0.9	30.4
	2016	104	4.8	81.7	10.6	1.9	1.0	-	29.8
	2017	113	0.9	83.2	15.0	0.9	-	-	30.0
	2018	102	2.9	79.5	17.6	-	-	-	29.9
	2019	47	4.3	87.2	6.4	2.1	-	-	29.8
South Dakota	2015	91	3.3	72.5	19.8	2.2	2.2	-	29.7
	2016	76	2.6	64.6	26.3	3.9	1.3	1.3	30.4
	2017	74	8.1	62.1	28.4	-	1.4	-	29.6
	2018	95	5.3	69.4	20.0	2.1	2.1	1.1	30.0
	2019	43	4.7	67.4	25.6	-	2.3	-	30.0
Wisconsin	2015	82	2.4	63.5	30.5	2.4	-	1.2	30.0
	2016	82	1.2	72.0	22.0	1.2	1.2	2.4	30.5
	2017	75	1.3	61.5	29.3	5.3	1.3	1.3	30.6
	2018	101	-	75.2	21.8	-	3.0	-	30.2
	2019	32	3.1	84.4	12.5	-	-	-	29.6

- Represents zero.

Sorghum Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2017-2019

State	Area planted for all purposes			Area harvested for grain		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas ¹	9	12	(NA)	7	10	(NA)
Colorado	410	355	365	360	325	310
Georgia ¹	21	25	(NA)	12	15	(NA)
Illinois ¹	17	18	(NA)	15	16	(NA)
Kansas	2,600	2,800	2,600	2,450	2,650	2,400
Louisiana ¹	15	8	(NA)	13	6	(NA)
Mississippi ¹	5	4	(NA)	4	3	(NA)
Missouri ¹	30	30	(NA)	23	21	(NA)
Nebraska	180	230	200	130	170	130
New Mexico ¹	85	80	(NA)	48	47	(NA)
North Carolina ¹	22	18	(NA)	17	8	(NA)
Oklahoma	315	300	300	295	240	260
South Dakota	270	260	250	170	200	175
Texas	1,650	1,550	1,550	1,500	1,350	1,400
United States	5,629	5,690	5,265	5,044	5,061	4,675

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas ¹	78.0	77.0	(NA)	546	770	(NA)
Colorado	52.0	53.0	41.0	18,720	17,225	12,710
Georgia ¹	54.0	53.0	(NA)	648	795	(NA)
Illinois ¹	83.0	111.0	(NA)	1,245	1,776	(NA)
Kansas	82.0	88.0	85.0	200,900	233,200	204,000
Louisiana ¹	91.0	84.0	(NA)	1,183	504	(NA)
Mississippi ¹	72.0	90.0	(NA)	288	270	(NA)
Missouri ¹	107.0	100.0	(NA)	2,461	2,100	(NA)
Nebraska	89.0	94.0	93.0	11,570	15,980	12,090
New Mexico ¹	35.0	38.0	(NA)	1,680	1,786	(NA)
North Carolina ¹	55.0	60.0	(NA)	935	480	(NA)
Oklahoma	53.0	50.0	51.0	15,635	12,000	13,260
South Dakota	68.0	80.0	80.0	11,560	16,000	14,000
Texas	63.0	46.0	61.0	94,500	62,100	85,400
United States	71.7	72.1	73.0	361,871	364,986	341,460

(NA) Not available.

¹ Estimates discontinued in 2019.

Sorghum for Silage Area Harvested, Yield, and Production – States and United States: 2017-2019

State	Area harvested			Yield per acre			Production		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (tons)	2018 (tons)	2019 (tons)	2017 (1,000 tons)	2018 (1,000 tons)	2019 (1,000 tons)
Arkansas ¹	1	1	(NA)	16.0	18.0	(NA)	16	18	(NA)
Colorado	25	8	18	15.0	14.0	17.0	375	112	306
Georgia ¹	8	8	(NA)	13.0	11.0	(NA)	104	88	(NA)
Illinois ¹	1	1	(NA)	12.0	14.0	(NA)	12	14	(NA)
Kansas	85	60	95	13.0	15.0	11.0	1,105	900	1,045
Louisiana ¹	1	1	(NA)	12.0	12.0	(NA)	12	12	(NA)
Mississippi ¹	1	1	(NA)	8.0	10.0	(NA)	8	10	(NA)
Missouri ¹	5	7	(NA)	19.0	12.0	(NA)	95	84	(NA)
Nebraska	20	20	60	11.0	11.0	10.0	220	220	600
New Mexico ¹	17	18	(NA)	11.0	11.0	(NA)	187	198	(NA)
North Carolina ¹	4	7	(NA)	10.0	10.0	(NA)	40	70	(NA)
Oklahoma	12	12	16	18.0	5.0	10.0	216	60	160
South Dakota	37	40	65	11.0	12.5	13.0	407	500	845
Texas	65	80	85	15.0	13.0	12.5	975	1,040	1,063
United States	282	264	339	13.4	12.6	11.9	3,772	3,326	4,019

(NA) Not available.

¹ Estimates discontinued in 2019.

Oat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted ¹			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Alabama ²	40	40	(NA)	10	15	(NA)
Arkansas	11	10	5	8	7	3
California	110	110	75	10	6	2
Colorado ²	50	95	(NA)	9	7	(NA)
Georgia	50	60	70	15	15	15
Idaho	50	40	60	10	10	12
Illinois	35	40	70	20	25	10
Iowa	115	135	215	42	33	69
Kansas	100	120	120	25	18	18
Maine	22	21	22	21	19	19
Michigan	55	75	70	40	50	25
Minnesota	170	180	240	95	105	100
Missouri	30	35	50	13	16	6
Montana	70	70	70	18	23	24
Nebraska	110	125	120	35	22	18
New York	55	69	56	35	43	39
North Carolina	35	30	22	10	11	7
North Dakota	295	300	355	80	105	115
Ohio	60	55	75	20	30	25
Oklahoma	45	50	100	16	10	25
Oregon	25	20	20	10	5	9
Pennsylvania	70	65	85	40	35	50
South Carolina ²	20	19	(NA)	8	7	(NA)
South Dakota	290	290	245	60	95	75
Texas	455	450	400	60	50	40
Washington ²	16	17	(NA)	4	4	(NA)
Wisconsin	180	200	265	85	90	120
Wyoming ²	25	25	(NA)	5	9	(NA)
United States	2,589	2,746	2,810	804	865	826

See footnote(s) at end of table.

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**Oat Area Planted and Harvested, Yield, and Production – States and United States:
2017-2019 (continued)**

State	Yield per acre			Production		
	2017 (bushels)	2018 (bushels)	2019 (bushels)	2017 (1,000 bushels)	2018 (1,000 bushels)	2019 (1,000 bushels)
Alabama ²	60.0	63.0	(NA)	600	945	(NA)
Arkansas	85.0	75.0	70.0	680	525	210
California	65.0	70.0	60.0	650	420	120
Colorado ²	65.0	50.0	(NA)	585	350	(NA)
Georgia	49.0	71.0	55.0	735	1,065	825
Idaho	71.0	84.0	92.0	710	840	1,104
Illinois	79.0	83.0	65.0	1,580	2,075	650
Iowa	77.0	63.0	58.0	3,234	2,079	4,002
Kansas	54.0	49.0	64.0	1,350	882	1,152
Maine	67.0	67.0	76.0	1,407	1,273	1,444
Michigan	54.0	63.0	57.0	2,160	3,150	1,425
Minnesota	75.0	59.0	62.0	7,125	6,195	6,200
Missouri	65.0	45.0	47.0	845	720	282
Montana	47.0	43.0	55.0	846	989	1,320
Nebraska	49.0	69.0	63.0	1,715	1,518	1,134
New York	55.0	54.0	60.0	1,925	2,322	2,340
North Carolina	66.0	66.0	71.0	660	726	497
North Dakota	58.0	82.0	86.0	4,640	8,610	9,890
Ohio	70.0	65.0	46.0	1,400	1,950	1,150
Oklahoma	42.0	48.0	50.0	672	480	1,250
Oregon	83.0	99.0	97.0	830	495	873
Pennsylvania	58.0	46.0	53.0	2,320	1,610	2,650
South Carolina ²	51.0	62.0	(NA)	408	434	(NA)
South Dakota	70.0	82.0	82.0	4,200	7,790	6,150
Texas	45.0	50.0	50.0	2,700	2,500	2,000
Washington ²	42.0	46.0	(NA)	168	184	(NA)
Wisconsin	59.0	61.0	54.0	5,015	5,490	6,480
Wyoming ²	85.0	57.0	(NA)	425	513	(NA)
United States	61.7	64.9	64.3	49,585	56,130	53,148

(NA) Not available.

¹ Includes area planted in preceding fall.

² Estimates discontinued in 2019.

Barley Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted ¹			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alaska ²	(X)	5	6	(X)	4	5
Arizona	20	14	17	17	11	14
California	75	65	60	29	26	43
Colorado	70	60	54	68	53	52
Delaware	32	25	21	18	14	14
Idaho	530	550	540	510	530	520
Kansas ³	(NA)	17	14	(NA)	6	4
Maine ³	(NA)	17	16	(NA)	16	15
Maryland	50	45	32	27	24	17
Michigan ³	(NA)	20	11	(NA)	5	8
Minnesota	80	80	70	68	67	55
Montana	770	790	920	565	600	740
New York ³	(NA)	10	10	(NA)	8	4
North Carolina ³	(NA)	11	11	(NA)	8	6
North Dakota	520	470	580	400	385	445
Oregon	47	43	40	38	26	31
Pennsylvania	60	45	35	45	33	25
South Dakota ³	(NA)	48	37	(NA)	13	9
Utah	25	21	17	18	16	10
Virginia	30	30	30	11	9	7
Washington	95	85	95	85	67	84
Wisconsin ³	(NA)	25	24	(NA)	10	8
Wyoming	82	72	81	63	51	66
United States ⁴	2,486	2,548	2,721	1,962	1,982	2,182

See footnote(s) at end of table.

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**Barley Area Planted and Harvested, Yield, and Production – States and United States:
2017-2019 (continued)**

State	Yield per acre			Production		
	2017 (bushels)	2018 (bushels)	2019 (bushels)	2017 (1,000 bushels)	2018 (1,000 bushels)	2019 (1,000 bushels)
Alaska ²	(X)	43.0	38.0	(X)	172	190
Arizona	131.0	100.0	126.0	2,227	1,100	1,764
California	50.0	69.0	66.0	1,450	1,794	2,838
Colorado	132.0	145.0	138.0	8,976	7,685	7,176
Delaware	85.0	78.0	80.0	1,530	1,092	1,120
Idaho	95.0	101.0	104.0	48,450	53,530	54,080
Kansas ³	(NA)	31.0	33.0	(NA)	186	132
Maine ³	(NA)	73.0	82.0	(NA)	1,168	1,230
Maryland	76.0	70.0	85.0	2,052	1,680	1,445
Michigan ³	(NA)	43.0	44.0	(NA)	215	352
Minnesota	76.0	76.0	67.0	5,168	5,092	3,685
Montana	51.0	56.0	59.0	28,815	33,600	43,660
New York ³	(NA)	58.0	52.0	(NA)	464	208
North Carolina ³	(NA)	80.0	66.0	(NA)	640	396
North Dakota	65.0	74.0	72.0	26,000	28,490	32,040
Oregon	62.0	53.0	78.0	2,356	1,378	2,418
Pennsylvania	70.0	63.0	70.0	3,150	2,079	1,750
South Dakota ³	(NA)	55.0	43.0	(NA)	715	387
Utah	75.0	86.0	93.0	1,350	1,376	930
Virginia	73.0	70.0	65.0	803	630	455
Washington	53.0	73.0	70.0	4,505	4,891	5,880
Wisconsin ³	(NA)	45.0	46.0	(NA)	450	368
Wyoming	102.0	100.0	107.0	6,426	5,100	7,062
United States ⁴	73.0	77.5	77.7	143,258	153,527	169,566

(NA) Not available.

(X) Not applicable.

¹ Includes area planted in preceding fall.

² Previously included in the Alaska table. For 2017 data, refer to the Alaska table on page 98.

³ Estimates began in 2018.

⁴ Beginning in 2018, United States total includes data for Alaska.

All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted ¹			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	150	160	130	100	110	85
Arizona	115	96	34	105	77	33
Arkansas	200	175	110	125	95	50
California	420	425	420	182	147	122
Colorado	2,260	2,260	2,150	2,029	1,954	2,000
Delaware	75	75	60	60	45	50
Florida ²	20	15	(NA)	10	10	(NA)
Georgia	160	200	150	70	70	50
Idaho	1,175	1,191	1,195	1,109	1,136	1,125
Illinois	500	600	650	470	560	550
Indiana	290	310	330	240	260	260
Iowa ²	16	16	(NA)	8	6	(NA)
Kansas	7,600	7,700	6,900	6,950	7,300	6,500
Kentucky	480	450	460	310	300	330
Louisiana ²	20	15	(NA)	13	10	(NA)
Maryland	410	360	345	185	200	165
Michigan	480	510	540	425	470	480
Minnesota	1,170	1,621	1,450	1,135	1,575	1,400
Mississippi	45	55	45	25	30	21
Missouri	640	740	550	540	520	390
Montana	5,140	5,390	5,450	4,665	5,165	5,175
Nebraska	1,120	1,100	1,070	1,020	1,010	970
Nevada ²	29	23	(NA)	14	8	(NA)
New Jersey	23	18	19	17	15	14
New Mexico	330	320	360	135	105	105
New York	140	110	90	125	95	66
North Carolina	450	460	290	375	370	225
North Dakota	6,680	7,735	7,505	6,260	7,635	6,620
Ohio	490	490	500	460	450	385
Oklahoma	4,500	4,400	4,200	2,900	2,500	2,750
Oregon	775	800	740	763	770	730
Pennsylvania	210	195	180	150	145	140
South Carolina	90	80	70	75	65	45
South Dakota	1,887	1,883	1,500	1,196	1,628	1,375
Tennessee	370	380	280	275	285	215
Texas	4,700	4,500	4,500	2,350	1,750	2,050
Utah	134	130	125	120	103	116
Virginia	210	230	180	145	155	105
Washington	2,195	2,220	2,260	2,140	2,165	2,205
West Virginia ²	8	7	(NA)	4	3	(NA)
Wisconsin	210	240	195	170	200	150
Wyoming	135	130	125	105	115	110
United States	46,052	47,815	45,158	37,555	39,612	37,162

See footnote(s) at end of table.

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**All Wheat Area Planted and Harvested, Yield, and Production – States and United States:
2017-2019 (continued)**

State	Yield per acre			Production		
	2017 (bushels)	2018 (bushels)	2019 (bushels)	2017 (1,000 bushels)	2018 (1,000 bushels)	2019 (1,000 bushels)
Alabama	77.0	72.0	72.0	7,700	7,920	6,120
Arizona	100.8	102.6	104.0	10,589	7,898	3,432
Arkansas	52.0	55.0	52.0	6,500	5,225	2,600
California	68.2	81.5	59.4	12,404	11,985	7,244
Colorado	43.2	36.1	49.0	87,598	70,504	98,000
Delaware	73.0	71.0	72.0	4,380	3,195	3,600
Florida ²	37.0	36.0	(NA)	370	360	(NA)
Georgia	47.0	54.0	56.0	3,290	3,780	2,800
Idaho	81.8	91.9	87.8	90,723	104,410	98,755
Illinois	76.0	66.0	67.0	35,720	36,960	36,850
Indiana	74.0	71.0	62.0	17,760	18,460	16,120
Iowa ²	68.0	58.0	(NA)	544	348	(NA)
Kansas	48.0	38.0	52.0	333,600	277,400	338,000
Kentucky	77.0	66.0	76.0	23,870	19,800	25,080
Louisiana ²	46.0	65.0	(NA)	598	650	(NA)
Maryland	71.0	63.0	75.0	13,135	12,600	12,375
Michigan	79.0	76.0	71.0	33,575	35,720	34,080
Minnesota	66.9	59.0	57.0	75,935	92,930	79,800
Mississippi	58.0	49.0	47.0	1,450	1,470	987
Missouri	68.0	59.0	63.0	36,720	30,680	24,570
Montana	27.3	38.3	42.4	127,430	197,630	219,265
Nebraska	46.0	49.0	57.0	46,920	49,490	55,290
Nevada ²	105.7	112.5	(NA)	1,480	900	(NA)
New Jersey	64.0	62.0	66.0	1,088	930	924
New Mexico	30.0	15.0	30.0	4,050	1,575	3,150
New York	67.0	69.0	63.0	8,375	6,555	4,158
North Carolina	55.0	57.0	56.0	20,625	21,090	12,600
North Dakota	37.9	47.6	48.5	237,133	363,483	320,760
Ohio	74.0	75.0	56.0	34,040	33,750	21,560
Oklahoma	34.0	28.0	40.0	98,600	70,000	110,000
Oregon	63.0	67.0	68.0	48,069	51,590	49,640
Pennsylvania	72.0	65.0	73.0	10,800	9,425	10,220
South Carolina	49.0	54.0	48.0	3,675	3,510	2,160
South Dakota	34.8	44.4	48.0	41,678	72,294	66,055
Tennessee	70.0	65.0	67.0	19,250	18,525	14,405
Texas	29.0	32.0	34.0	68,150	56,000	69,700
Utah	52.0	52.0	54.0	6,240	5,356	6,264
Virginia	66.0	60.0	62.0	9,570	9,300	6,510
Washington	66.6	70.8	64.7	142,500	153,210	142,735
West Virginia ²	69.0	46.0	(NA)	276	138	(NA)
Wisconsin	68.0	71.0	64.0	11,560	14,200	9,600
Wyoming	28.0	34.0	43.0	2,940	3,910	4,730
United States	46.4	47.6	51.7	1,740,910	1,885,156	1,920,139

(NA) Not available.

¹ Includes area planted in preceding fall.

² Estimates discontinued in 2019.

Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted ¹			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Alabama	150	160	130	100	110	85
Arizona ²	25	22	(NA)	16	4	(NA)
Arkansas	200	175	110	125	95	50
California	385	380	390	155	110	100
Colorado	2,250	2,250	2,150	2,020	1,950	2,000
Delaware	75	75	60	60	45	50
Florida ²	20	15	(NA)	10	10	(NA)
Georgia	160	200	150	70	70	50
Idaho	720	720	730	670	680	680
Illinois	500	600	650	470	560	550
Indiana	290	310	330	240	260	260
Iowa ²	16	16	(NA)	8	6	(NA)
Kansas	7,600	7,700	6,900	6,950	7,300	6,500
Kentucky	480	450	460	310	300	330
Louisiana ²	20	15	(NA)	13	10	(NA)
Maryland	410	360	345	185	200	165
Michigan	480	510	540	425	470	480
Minnesota ²	10	11	(NA)	5	5	(NA)
Mississippi	45	55	45	25	30	21
Missouri	640	740	550	540	520	390
Montana	1,750	1,650	2,000	1,590	1,570	1,900
Nebraska	1,120	1,100	1,070	1,020	1,010	970
Nevada ²	14	13	(NA)	5	5	(NA)
New Jersey	23	18	19	17	15	14
New Mexico	330	320	360	135	105	105
New York	140	110	90	125	95	66
North Carolina	450	460	290	375	370	225
North Dakota	70	85	85	35	70	70
Ohio	490	490	500	460	450	385
Oklahoma	4,500	4,400	4,200	2,900	2,500	2,750
Oregon	700	720	740	690	695	730
Pennsylvania	210	195	180	150	145	140
South Carolina	90	80	70	75	65	45
South Dakota	910	830	860	520	660	770
Tennessee	370	380	280	275	285	215
Texas	4,700	4,500	4,500	2,350	1,750	2,050
Utah	120	120	125	108	94	116
Virginia	210	230	180	145	155	105
Washington	1,700	1,700	1,750	1,650	1,650	1,700
West Virginia ²	8	7	(NA)	4	3	(NA)
Wisconsin	210	240	195	170	200	150
Wyoming	135	130	125	105	115	110
United States	32,726	32,542	31,159	25,301	24,742	24,327

See footnote(s) at end of table.

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Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 (continued)

State	Yield per acre			Production		
	2017 (bushels)	2018 (bushels)	2019 (bushels)	2017 (1,000 bushels)	2018 (1,000 bushels)	2019 (1,000 bushels)
Alabama	77.0	72.0	72.0	7,700	7,920	6,120
Arizona ²	100.0	40.0	(NA)	1,600	160	(NA)
Arkansas	52.0	55.0	52.0	6,500	5,225	2,600
California	64.0	77.0	50.0	9,920	8,470	5,000
Colorado	43.0	36.0	49.0	86,860	70,200	98,000
Delaware	73.0	71.0	72.0	4,380	3,195	3,600
Florida ²	37.0	36.0	(NA)	370	360	(NA)
Georgia	47.0	54.0	56.0	3,290	3,780	2,800
Idaho	80.0	90.0	87.0	53,600	61,200	59,160
Illinois	76.0	66.0	67.0	35,720	36,960	36,850
Indiana	74.0	71.0	62.0	17,760	18,460	16,120
Iowa ²	68.0	58.0	(NA)	544	348	(NA)
Kansas	48.0	38.0	52.0	333,600	277,400	338,000
Kentucky	77.0	66.0	76.0	23,870	19,800	25,080
Louisiana ²	46.0	65.0	(NA)	598	650	(NA)
Maryland	71.0	63.0	75.0	13,135	12,600	12,375
Michigan	79.0	76.0	71.0	33,575	35,720	34,080
Minnesota ²	45.0	60.0	(NA)	225	300	(NA)
Mississippi	58.0	49.0	47.0	1,450	1,470	987
Missouri	68.0	59.0	63.0	36,720	30,680	24,570
Montana	42.0	50.0	50.0	66,780	78,500	95,000
Nebraska	46.0	49.0	57.0	46,920	49,490	55,290
Nevada ²	107.0	120.0	(NA)	535	600	(NA)
New Jersey	64.0	62.0	66.0	1,088	930	924
New Mexico	30.0	15.0	30.0	4,050	1,575	3,150
New York	67.0	69.0	63.0	8,375	6,555	4,158
North Carolina	55.0	57.0	56.0	20,625	21,090	12,600
North Dakota	37.0	43.0	53.0	1,295	3,010	3,710
Ohio	74.0	75.0	56.0	34,040	33,750	21,560
Oklahoma	34.0	28.0	40.0	98,600	70,000	110,000
Oregon	63.0	67.0	68.0	43,470	46,565	49,640
Pennsylvania	72.0	65.0	73.0	10,800	9,425	10,220
South Carolina	49.0	54.0	48.0	3,675	3,510	2,160
South Dakota	40.0	48.0	52.0	20,800	31,680	40,040
Tennessee	70.0	65.0	67.0	19,250	18,525	14,405
Texas	29.0	32.0	34.0	68,150	56,000	69,700
Utah	52.0	52.0	54.0	5,616	4,888	6,264
Virginia	66.0	60.0	62.0	9,570	9,300	6,510
Washington	73.0	76.0	70.0	120,450	125,400	119,000
West Virginia ²	69.0	46.0	(NA)	276	138	(NA)
Wisconsin	68.0	71.0	64.0	11,560	14,200	9,600
Wyoming	28.0	34.0	43.0	2,940	3,910	4,730
United States	50.2	47.9	53.6	1,270,282	1,183,939	1,304,003

(NA) Not available.

¹ Includes area planted in preceding fall.

² Estimates discontinued in 2019.

Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado ¹	10	10	(NA)	9	4	(NA)
Idaho	430	460	460	415	445	440
Minnesota	1,160	1,610	1,450	1,130	1,570	1,400
Montana	2,500	2,900	2,900	2,290	2,820	2,760
Nevada ¹	15	10	(NA)	9	3	(NA)
North Dakota	5,350	6,550	6,700	5,050	6,490	5,950
Oregon ¹	75	80	(NA)	73	75	(NA)
South Dakota	970	1,050	640	670	965	605
Utah ¹	14	10	(NA)	12	9	(NA)
Washington	495	520	510	490	515	505
United States	11,019	13,200	12,660	10,148	12,896	11,660
State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado ¹	82.0	76.0	(NA)	738	304	(NA)
Idaho	85.0	95.0	89.0	35,275	42,275	39,160
Minnesota	67.0	59.0	57.0	75,710	92,630	79,800
Montana	21.0	34.0	37.0	48,090	95,880	102,120
Nevada ¹	105.0	100.0	(NA)	945	300	(NA)
North Dakota	41.0	49.0	49.0	207,050	318,010	291,550
Oregon ¹	63.0	67.0	(NA)	4,599	5,025	(NA)
South Dakota	31.0	42.0	43.0	20,770	40,530	26,015
Utah ¹	52.0	52.0	(NA)	624	468	(NA)
Washington	45.0	54.0	47.0	22,050	27,810	23,735
United States	41.0	48.3	48.2	415,851	623,232	562,380

(NA) Not available.

¹ Estimates discontinued in 2019.

Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona	90	74	34	89	73	33
California	35	45	30	27	37	22
Idaho	25	11	5	24	11	5
Montana	890	840	550	785	775	515
North Dakota	1,260	1,100	720	1,175	1,075	600
South Dakota ¹	7	3	(NA)	6	3	(NA)
United States	2,307	2,073	1,339	2,106	1,974	1,175

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arizona	101.0	106.0	104.0	8,989	7,738	3,432
California	92.0	95.0	102.0	2,484	3,515	2,244
Idaho	77.0	85.0	87.0	1,848	935	435
Montana	16.0	30.0	43.0	12,560	23,250	22,145
North Dakota	24.5	39.5	42.5	28,788	42,463	25,500
South Dakota ¹	18.0	28.0	(NA)	108	84	(NA)
United States	26.0	39.5	45.7	54,777	77,985	53,756

(NA) Not available.

¹ Estimates discontinued in 2019.

Wheat Production by Class – United States: 2017-2019

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

Crop	2017	2018	2019
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Winter			
Hard red	750,132	662,249	833,181
Soft red	293,222	285,558	239,166
Hard white	23,724	19,347	19,954
Soft white	203,204	216,785	211,702
Spring			
Hard red	384,193	587,007	521,557
Hard white	8,772	13,510	11,831
Soft white	22,886	22,715	28,992
Durum	54,777	77,985	53,756
Total	1,740,910	1,885,156	1,920,139

Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2017-2019

Class and State	Area planted			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Long grain						
Arkansas	995	1,250	950	955	1,240	935
California	7	11	10	7	11	10
Louisiana	370	395	370	366	392	361
Mississippi	115	140	115	114	139	111
Missouri	160	215	180	151	211	166
Texas	164	187	153	155	183	147
United States	1,811	2,198	1,778	1,748	2,176	1,730
Medium grain						
Arkansas	165	190	205	148	181	190
California	400	455	455	398	453	453
Louisiana	30	45	55	29	44	53
Mississippi	-	-	2	-	-	2
Missouri	9	9	7	9	9	7
Texas	9	8	4	3	6	3
United States	613	707	728	587	693	708
Short grain ¹						
Arkansas	1	1	1	1	1	1
California	38	40	33	38	40	33
United States	39	41	34	39	41	34
All rice						
Arkansas	1,161	1,441	1,156	1,104	1,422	1,126
California	445	506	498	443	504	496
Louisiana	400	440	425	395	436	414
Mississippi	115	140	117	114	139	113
Missouri	169	224	187	160	220	173
Texas	173	195	157	158	189	150
United States	2,463	2,946	2,540	2,374	2,910	2,472

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:
2017-2019 (continued)**

Class and State	Yield per acre			Production		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Long grain						
Arkansas	7,510	7,550	7,550	71,721	93,620	70,593
California	7,400	6,000	7,300	518	660	730
Louisiana	6,720	7,160	6,380	24,595	28,067	23,032
Mississippi	7,400	7,350	7,350	8,436	10,217	8,159
Missouri	7,460	7,760	7,360	11,265	16,374	12,218
Texas	7,300	8,000	7,400	11,315	14,640	10,878
United States	7,314	7,517	7,261	127,850	163,578	125,610
Medium grain						
Arkansas	7,340	7,330	7,160	10,863	13,267	13,604
California	8,620	8,810	8,580	34,308	39,909	38,867
Louisiana	6,580	6,880	6,370	1,908	3,027	3,376
Mississippi	(X)	(X)	7,150	-	-	143
Missouri	7,060	7,950	7,550	635	716	529
Texas	5,100	7,000	5,000	153	420	150
United States	8,155	8,274	8,004	47,867	57,339	56,669
Short grain ¹						
Arkansas	6,000	6,000	6,000	60	60	60
California	6,450	7,140	7,080	2,451	2,856	2,336
United States	6,438	7,112	7,047	2,511	2,916	2,396
All						
Arkansas	7,490	7,520	7,480	82,644	106,947	84,257
California	8,410	8,620	8,450	37,277	43,425	41,933
Louisiana	6,710	7,130	6,380	26,503	31,094	26,408
Mississippi	7,400	7,350	7,350	8,436	10,217	8,302
Missouri	7,440	7,770	7,370	11,900	17,090	12,747
Texas	7,260	7,970	7,350	11,468	15,060	11,028
United States	7,507	7,692	7,471	178,228	223,833	184,675

- Represents zero.

(X) Not applicable.

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

Rye Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted ¹			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Georgia ²	210	190	(D)	25	15	(D)
Minnesota	(D)	(D)	50	(D)	(D)	18
North Dakota	(D)	(D)	85	(D)	(D)	57
Oklahoma	260	240	260	45	50	55
Pennsylvania	(D)	(D)	100	(D)	(D)	14
Wisconsin	(D)	(D)	220	(D)	(D)	20
Other States ³	1,491	1,581	1,150	230	208	146
United States	1,961	2,011	1,865	300	273	310
State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Georgia ²	19.0	26.0	(D)	475	390	(D)
Minnesota	(D)	(D)	39.0	(D)	(D)	702
North Dakota	(D)	(D)	45.0	(D)	(D)	2,565
Oklahoma	24.0	22.0	27.0	1,080	1,100	1,485
Pennsylvania	(D)	(D)	26.0	(D)	(D)	364
Wisconsin	(D)	(D)	34.0	(D)	(D)	680
Other States ³	37.8	33.4	33.1	8,697	6,942	4,826
United States	34.2	30.9	34.3	10,252	8,432	10,622

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

¹ Includes area planted in preceding fall.

² Beginning in 2019, estimates included in Other States.

³ In 2017 and 2018, 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. Beginning in 2019, Other States include Georgia, Illinois, Kansas, Michigan, Nebraska, New York, North Carolina, South Dakota, and Texas.

Proso Millet Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado	320	300	340	290	270	320
Nebraska	105	95	115	86	81	106
South Dakota	53	48	51	27	39	39
United States	478	443	506	403	390	465
State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	38.5	28.0	37.0	11,165	7,560	11,840
Nebraska	32.0	32.0	31.0	2,752	2,592	3,286
South Dakota	36.0	37.0	38.0	972	1,443	1,482
United States	36.9	29.7	35.7	14,889	11,595	16,608

All Hay Area Harvested, Yield, and Production – States and United States: 2017-2019

State	Area harvested			Yield per acre		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama	860	850	700	2.50	2.80	2.50
Alaska ¹	(X)	22	22	(X)	1.30	1.30
Arizona	325	300	325	7.96	7.82	7.72
Arkansas	1,293	1,203	1,253	2.00	1.80	2.20
California	1,140	980	1,010	5.60	5.80	5.74
Colorado	1,440	1,420	1,460	2.75	2.55	2.78
Connecticut	48	47	47	2.29	2.34	1.72
Delaware	15	13	14	3.20	2.62	2.21
Florida	300	280	270	2.50	3.10	2.90
Georgia	620	600	560	2.90	2.90	2.75
Idaho	1,430	1,340	1,300	3.59	3.75	3.93
Illinois	490	470	420	3.25	2.79	2.71
Indiana	540	510	520	2.76	2.71	2.48
Iowa	1,060	940	1,020	3.08	3.19	3.05
Kansas	2,470	2,360	2,280	2.22	2.02	2.77
Kentucky	2,125	1,895	1,945	2.43	2.68	2.27
Louisiana	400	380	390	2.60	2.20	2.50
Maine	125	110	110	1.93	1.89	2.15
Maryland	190	195	189	2.68	2.83	2.68
Massachusetts	78	79	51	1.78	1.48	2.25
Michigan	870	810	780	2.29	2.24	2.38
Minnesota	1,360	1,220	1,100	2.79	2.52	2.70
Mississippi	610	590	610	2.40	2.10	2.30
Missouri	3,000	3,070	3,360	2.00	1.76	2.19
Montana	2,500	2,900	3,000	1.90	1.93	2.08
Nebraska	2,510	2,700	2,450	2.37	2.59	2.48
Nevada	385	365	435	3.35	3.17	3.60
New Hampshire	45	39	49	1.80	1.77	1.69
New Jersey	108	114	91	2.22	1.93	2.05
New Mexico	285	250	245	4.00	3.73	3.89
New York	1,320	1,220	1,180	2.01	2.25	1.90
North Carolina	657	816	816	2.30	2.71	2.30
North Dakota	2,580	2,670	2,420	1.33	1.66	1.70
Ohio	960	970	920	2.47	2.43	2.32
Oklahoma	2,930	3,230	3,005	1.92	1.59	1.98
Oregon	1,085	1,000	970	3.05	3.06	3.47
Pennsylvania	1,420	1,190	1,210	2.61	2.30	2.47
Rhode Island	6	6	5	2.00	2.00	1.40
South Carolina	300	270	270	2.60	2.50	2.10
South Dakota	2,950	3,250	3,350	1.56	1.78	2.09
Tennessee	1,665	1,720	1,763	2.26	2.46	2.31
Texas	4,520	4,740	4,920	2.11	1.77	1.87
Utah	705	650	680	3.74	3.38	3.85
Vermont	185	170	160	1.97	2.15	1.86
Virginia	1,195	1,140	1,145	2.31	2.23	2.23
Washington	740	760	640	4.02	3.64	3.83
West Virginia	567	535	515	1.78	1.72	1.74
Wisconsin	1,270	1,360	1,300	2.77	2.17	2.14
Wyoming	1,100	1,090	1,150	2.28	2.20	2.17
United States ²	52,777	52,839	52,425	2.43	2.34	2.46

See footnote(s) at end of table.

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All Hay Area Harvested, Yield, and Production – States and United States: 2017-2019 (continued)

State	Production		
	2017 (1,000 tons)	2018 (1,000 tons)	2019 (1,000 tons)
Alabama	2,150	2,380	1,750
Alaska ¹	(X)	29	29
Arizona	2,586	2,346	2,509
Arkansas	2,591	2,168	2,760
California	6,388	5,682	5,795
Colorado	3,960	3,621	4,052
Connecticut	110	110	81
Delaware	48	34	31
Florida	750	868	783
Georgia	1,798	1,740	1,540
Idaho	5,128	5,019	5,111
Illinois	1,593	1,309	1,140
Indiana	1,492	1,382	1,290
Iowa	3,268	2,998	3,116
Kansas	5,472	4,760	6,315
Kentucky	5,170	5,088	4,424
Louisiana	1,040	836	975
Maine	241	208	236
Maryland	509	552	507
Massachusetts	139	117	115
Michigan	1,989	1,812	1,858
Minnesota	3,797	3,077	2,966
Mississippi	1,464	1,239	1,403
Missouri	5,985	5,408	7,367
Montana	4,740	5,595	6,225
Nebraska	5,955	6,985	6,085
Nevada	1,288	1,158	1,565
New Hampshire	81	69	83
New Jersey	240	220	187
New Mexico	1,140	932	954
New York	2,650	2,744	2,240
North Carolina	1,514	2,210	1,877
North Dakota	3,423	4,419	4,116
Ohio	2,371	2,356	2,137
Oklahoma	5,638	5,121	5,935
Oregon	3,304	3,056	3,362
Pennsylvania	3,709	2,739	2,986
Rhode Island	12	12	7
South Carolina	780	675	567
South Dakota	4,603	5,788	7,003
Tennessee	3,767	4,231	4,073
Texas	9,548	8,374	9,216
Utah	2,636	2,195	2,618
Vermont	364	366	298
Virginia	2,764	2,540	2,555
Washington	2,973	2,764	2,448
West Virginia	1,009	922	894
Wisconsin	3,522	2,953	2,784
Wyoming	2,508	2,393	2,496
United States ²	128,207	123,600	128,864

(X) Not applicable.

¹ Previously was included in the Alaska table. For 2017 data please refer to the Alaska table on page 98.

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

Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2017-2019

State	Area harvested			Yield per acre		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (tons)	2018 (tons)	2019 (tons)
Arizona	285	260	280	8.40	8.30	8.30
Arkansas	3	3	3	3.60	2.50	3.20
California	700	620	580	6.80	6.90	7.10
Colorado	720	730	730	3.70	3.40	3.70
Connecticut	8	7	7	2.30	2.50	1.90
Delaware	5	4	3	3.50	2.90	3.00
Idaho	1,060	1,050	1,010	4.00	4.20	4.40
Illinois	230	250	200	4.10	3.30	3.50
Indiana	250	240	220	3.30	3.00	3.00
Iowa	720	620	700	3.50	3.70	3.40
Kansas	570	610	630	3.60	3.50	4.00
Kentucky	185	145	145	3.30	3.10	3.20
Maine	10	10	10	2.20	2.30	2.10
Maryland	35	40	34	3.90	4.50	3.50
Massachusetts	8	9	6	2.50	2.10	2.70
Michigan	610	590	550	2.60	2.40	2.50
Minnesota	870	720	730	3.35	2.85	3.10
Missouri	300	270	260	2.40	2.40	2.70
Montana	1,650	1,900	2,100	2.10	2.05	2.15
Nebraska	860	850	950	3.95	4.30	3.80
Nevada	225	185	225	4.30	4.70	4.90
New Hampshire	5	4	4	1.80	2.20	1.50
New Jersey	13	9	11	3.10	3.40	3.20
New Mexico	190	160	160	5.00	4.70	4.90
New York	400	300	290	2.60	2.40	2.20
North Carolina	7	6	6	2.70	3.90	2.30
North Dakota	1,380	1,470	1,220	1.35	1.70	1.80
Ohio	350	350	330	3.20	3.10	2.90
Oklahoma	280	230	205	3.10	2.70	3.00
Oregon	420	420	400	4.70	4.10	4.70
Pennsylvania	430	300	290	3.10	2.90	3.00
Rhode Island	1	1	1	2.00	2.00	2.20
South Dakota	1,550	1,750	1,900	1.75	2.15	2.35
Tennessee	15	20	13	3.60	3.30	3.70
Texas	120	140	120	4.40	5.60	4.80
Utah	550	500	510	4.20	3.70	4.30
Vermont	30	20	20	1.80	1.80	2.30
Virginia	65	40	45	3.40	3.00	3.00
Washington	390	350	330	5.20	4.50	4.60
West Virginia	17	15	15	2.70	2.50	2.90
Wisconsin	910	820	880	3.00	2.35	2.40
Wyoming	580	590	620	2.80	2.70	2.70
United States	17,007	16,608	16,743	3.28	3.17	3.28

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Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2017-2019 (continued)

State	Production		
	2017 (1,000 tons)	2018 (1,000 tons)	2019 (1,000 tons)
Arizona	2,394	2,158	2,324
Arkansas	11	8	10
California	4,760	4,278	4,118
Colorado	2,664	2,482	2,701
Connecticut	18	18	13
Delaware	18	12	9
Idaho	4,240	4,410	4,444
Illinois	943	825	700
Indiana	825	720	660
Iowa	2,520	2,294	2,380
Kansas	2,052	2,135	2,520
Kentucky	611	450	464
Maine	22	23	21
Maryland	137	180	119
Massachusetts	20	19	16
Michigan	1,586	1,416	1,375
Minnesota	2,915	2,052	2,263
Missouri	720	648	702
Montana	3,465	3,895	4,515
Nebraska	3,397	3,655	3,610
Nevada	968	870	1,103
New Hampshire	9	9	6
New Jersey	40	31	35
New Mexico	950	752	784
New York	1,040	720	638
North Carolina	19	23	14
North Dakota	1,863	2,499	2,196
Ohio	1,120	1,085	957
Oklahoma	868	621	615
Oregon	1,974	1,722	1,880
Pennsylvania	1,333	870	870
Rhode Island	2	2	2
South Dakota	2,713	3,763	4,465
Tennessee	54	66	48
Texas	528	784	576
Utah	2,310	1,850	2,193
Vermont	54	36	46
Virginia	221	120	135
Washington	2,028	1,575	1,518
West Virginia	46	38	44
Wisconsin	2,730	1,927	2,112
Wyoming	1,624	1,593	1,674
United States	55,812	52,634	54,875

All Other Hay Area Harvested, Yield, and Production – States and United States: 2017-2019

State	Area harvested			Yield per acre		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama ¹	860	850	700	2.50	2.80	2.50
Alaska ^{1 2}	(X)	22	22	(X)	1.30	1.30
Arizona	40	40	45	4.80	4.70	4.10
Arkansas	1,290	1,200	1,250	2.00	1.80	2.20
California	440	360	430	3.70	3.90	3.90
Colorado	720	690	730	1.80	1.65	1.85
Connecticut	40	40	40	2.30	2.30	1.70
Delaware	10	9	11	3.00	2.40	2.00
Florida ¹	300	280	270	2.50	3.10	2.90
Georgia ¹	620	600	560	2.90	2.90	2.75
Idaho	370	290	290	2.40	2.10	2.30
Illinois	260	220	220	2.50	2.20	2.00
Indiana	290	270	300	2.30	2.45	2.10
Iowa	340	320	320	2.20	2.20	2.30
Kansas	1,900	1,750	1,650	1.80	1.50	2.30
Kentucky	1,940	1,750	1,800	2.35	2.65	2.20
Louisiana ¹	400	380	390	2.60	2.20	2.50
Maine	115	100	100	1.90	1.85	2.15
Maryland	155	155	155	2.40	2.40	2.50
Massachusetts	70	70	45	1.70	1.40	2.20
Michigan	260	220	230	1.55	1.80	2.10
Minnesota	490	500	370	1.80	2.05	1.90
Mississippi ¹	610	590	610	2.40	2.10	2.30
Missouri	2,700	2,800	3,100	1.95	1.70	2.15
Montana	850	1,000	900	1.50	1.70	1.90
Nebraska	1,650	1,850	1,500	1.55	1.80	1.65
Nevada	160	180	210	2.00	1.60	2.20
New Hampshire	40	35	45	1.80	1.70	1.70
New Jersey	95	105	80	2.10	1.80	1.90
New Mexico	95	90	85	2.00	2.00	2.00
New York	920	920	890	1.75	2.20	1.80
North Carolina	650	810	810	2.30	2.70	2.30
North Dakota	1,200	1,200	1,200	1.30	1.60	1.60
Ohio	610	620	590	2.05	2.05	2.00
Oklahoma	2,650	3,000	2,800	1.80	1.50	1.90
Oregon	665	580	570	2.00	2.30	2.60
Pennsylvania	990	890	920	2.40	2.10	2.30
Rhode Island	5	5	4	1.90	1.90	1.30
South Carolina ¹	300	270	270	2.60	2.50	2.10
South Dakota	1,400	1,500	1,450	1.35	1.35	1.75
Tennessee	1,650	1,700	1,750	2.25	2.45	2.30
Texas	4,400	4,600	4,800	2.05	1.65	1.80
Utah	155	150	170	2.10	2.30	2.50
Vermont	155	150	140	2.00	2.20	1.80
Virginia	1,130	1,100	1,100	2.25	2.20	2.20
Washington	350	410	310	2.70	2.90	3.00
West Virginia	550	520	500	1.75	1.70	1.70
Wisconsin	360	540	420	2.20	1.90	1.60
Wyoming	520	500	530	1.70	1.60	1.55
United States ³	35,770	36,231	35,682	2.02	1.96	2.07

See footnote(s) at end of table.

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All Other Hay Area Harvested, Yield, and Production – States and United States: 2017-2019 (continued)

State	Production		
	2017 (1,000 tons)	2018 (1,000 tons)	2019 (1,000 tons)
Alabama ¹	2,150	2,380	1,750
Alaska ^{1 2}	(X)	29	29
Arizona	192	188	185
Arkansas	2,580	2,160	2,750
California	1,628	1,404	1,677
Colorado	1,296	1,139	1,351
Connecticut	92	92	68
Delaware	30	22	22
Florida ¹	750	868	783
Georgia ¹	1,798	1,740	1,540
Idaho	888	609	667
Illinois	650	484	440
Indiana	667	662	630
Iowa	748	704	736
Kansas	3,420	2,625	3,795
Kentucky	4,559	4,638	3,960
Louisiana ¹	1,040	836	975
Maine	219	185	215
Maryland	372	372	388
Massachusetts	119	98	99
Michigan	403	396	483
Minnesota	882	1,025	703
Mississippi ¹	1,464	1,239	1,403
Missouri	5,265	4,760	6,665
Montana	1,275	1,700	1,710
Nebraska	2,558	3,330	2,475
Nevada	320	288	462
New Hampshire	72	60	77
New Jersey	200	189	152
New Mexico	190	180	170
New York	1,610	2,024	1,602
North Carolina	1,495	2,187	1,863
North Dakota	1,560	1,920	1,920
Ohio	1,251	1,271	1,180
Oklahoma	4,770	4,500	5,320
Oregon	1,330	1,334	1,482
Pennsylvania	2,376	1,869	2,116
Rhode Island	10	10	5
South Carolina ¹	780	675	567
South Dakota	1,890	2,025	2,538
Tennessee	3,713	4,165	4,025
Texas	9,020	7,590	8,640
Utah	326	345	425
Vermont	310	330	252
Virginia	2,543	2,420	2,420
Washington	945	1,189	930
West Virginia	963	884	850
Wisconsin	792	1,026	672
Wyoming	884	800	822
United States ³	72,395	70,966	73,989

(X) Not applicable.

¹ Alfalfa and alfalfa mixtures included in all other hay.

² Previously included in the Alaska table. For 2017 data please refer to the Alaska table on page 98.

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

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 17 State Total: 2017-2019

[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		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	1,360	1,180	1,190	5.92	5.98	5.93
Idaho	1,495	1,380	1,380	3.74	4.00	4.35
Illinois	515	485	450	3.46	2.92	2.86
Iowa	1,120	995	1,115	3.23	3.31	3.15
Kansas	2,565	2,460	2,345	2.32	2.09	2.85
Michigan	1,050	1,010	990	2.86	2.70	2.99
Minnesota	1,550	1,380	1,330	2.97	2.73	2.82
Missouri	3,060	3,170	3,490	2.02	1.81	2.20
Nebraska	2,535	2,730	2,505	2.42	2.59	2.50
New York	1,800	1,740	1,640	2.73	3.01	2.52
Ohio	1,060	1,035	970	2.72	2.66	2.62
Pennsylvania	1,795	1,465	1,430	2.92	2.77	2.98
South Dakota	3,020	3,330	3,505	1.60	1.83	2.10
Texas	4,655	4,845	5,045	2.20	1.84	1.98
Vermont	290	295	265	3.47	3.76	3.54
Washington	815	830	670	4.35	4.07	4.02
Wisconsin	2,170	2,210	2,330	3.52	2.93	2.63
17 State total	30,855	30,540	30,650	2.76	2.61	2.71

State	Production		
	2017	2018	2019
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	8,052	7,053	7,060
Idaho	5,587	5,516	6,000
Illinois	1,783	1,417	1,285
Iowa	3,619	3,289	3,517
Kansas	5,949	5,140	6,690
Michigan	3,006	2,729	2,959
Minnesota	4,597	3,763	3,745
Missouri	6,193	5,737	7,661
Nebraska	6,125	7,084	6,258
New York	4,913	5,233	4,130
Ohio	2,878	2,757	2,546
Pennsylvania	5,242	4,065	4,265
South Dakota	4,827	6,110	7,365
Texas	10,236	8,910	9,965
Vermont	1,006	1,110	939
Washington	3,542	3,382	2,694
Wisconsin	7,643	6,479	6,135
17 State total	85,198	79,774	83,214

All Alfalfa Forage Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[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		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	740	670	610	6.71	6.75	7.06
Idaho	1,090	1,080	1,060	4.18	4.43	4.86
Illinois	245	260	220	4.45	3.47	3.68
Iowa	770	655	765	3.67	3.84	3.52
Kansas	585	620	645	3.72	3.54	4.05
Michigan	780	780	750	3.23	2.94	3.20
Minnesota	1,040	850	930	3.52	3.13	3.20
Missouri	310	290	290	2.51	2.68	2.69
Nebraska	870	870	990	3.98	4.26	3.75
New York	700	650	530	3.73	3.95	3.47
Ohio	410	390	370	3.60	3.66	3.44
Pennsylvania	645	465	380	3.59	3.65	4.37
South Dakota	1,580	1,800	2,000	1.78	2.21	2.34
Texas	125	145	125	4.47	5.52	4.90
Vermont	50	45	35	4.24	4.27	4.94
Washington	425	355	350	5.32	4.72	4.63
Wisconsin	1,700	1,590	1,680	3.83	3.29	3.00
17 State total	12,065	11,515	11,730	3.71	3.64	3.61

State	Production		
	2017	2018	2019
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	4,968	4,523	4,308
Idaho	4,561	4,788	5,155
Illinois	1,090	902	810
Iowa	2,828	2,514	2,690
Kansas	2,176	2,194	2,613
Michigan	2,523	2,290	2,403
Minnesota	3,665	2,657	2,975
Missouri	779	778	781
Nebraska	3,463	3,704	3,711
New York	2,611	2,566	1,840
Ohio	1,476	1,428	1,273
Pennsylvania	2,316	1,698	1,661
South Dakota	2,807	3,985	4,682
Texas	559	801	613
Vermont	212	192	173
Washington	2,263	1,676	1,619
Wisconsin	6,519	5,239	5,036
17 State total	44,816	41,935	42,343

All Other Forage Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[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		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	620	510	580	4.97	4.96	4.74
Idaho	405	300	320	2.53	2.43	2.64
Illinois	270	225	230	2.57	2.29	2.07
Iowa	350	340	350	2.26	2.28	2.36
Kansas	1,980	1,840	1,700	1.91	1.60	2.40
Michigan	270	230	240	1.79	1.91	2.32
Minnesota	510	530	400	1.83	2.09	1.93
Missouri	2,750	2,880	3,200	1.97	1.72	2.15
Nebraska	1,665	1,860	1,515	1.60	1.82	1.68
New York	1,100	1,090	1,110	2.09	2.45	2.06
Ohio	650	645	600	2.16	2.06	2.12
Pennsylvania	1,150	1,000	1,050	2.54	2.37	2.48
South Dakota	1,440	1,530	1,505	1.40	1.39	1.78
Texas	4,530	4,700	4,920	2.14	1.73	1.90
Vermont	240	250	230	3.31	3.67	3.33
Washington	390	475	320	3.28	3.59	3.36
Wisconsin	470	620	650	2.39	2.00	1.69
17 State total	18,790	19,025	18,920	2.15	1.99	2.16

State	Production		
	2017	2018	2019
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	3,084	2,530	2,752
Idaho	1,026	728	845
Illinois	693	515	475
Iowa	791	775	827
Kansas	3,773	2,946	4,077
Michigan	483	439	556
Minnesota	932	1,106	770
Missouri	5,414	4,959	6,880
Nebraska	2,662	3,380	2,547
New York	2,302	2,667	2,290
Ohio	1,402	1,329	1,273
Pennsylvania	2,926	2,367	2,604
South Dakota	2,020	2,125	2,683
Texas	9,677	8,109	9,352
Vermont	794	918	766
Washington	1,279	1,706	1,075
Wisconsin	1,124	1,240	1,099
17 State total	40,382	37,839	40,871

**All Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State
Total: 2017-2019**

[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		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	265	250	210	12.70	11.10	12.19
Idaho	100	105	155	9.30	9.57	11.60
Illinois	53	38	49	7.23	5.74	5.96
Iowa	100	80	140	7.12	7.36	5.80
Kansas	135	120	85	7.15	6.42	8.92
Michigan	275	285	290	7.48	6.51	7.68
Minnesota	250	220	265	6.48	6.31	5.95
Missouri	90	155	190	4.68	4.29	3.13
Nebraska	50	40	75	6.88	5.05	4.67
New York	660	710	610	6.94	7.09	6.27
Ohio	205	135	125	5.00	6.00	6.62
Pennsylvania	475	410	390	6.53	6.54	6.64
South Dakota	105	120	190	4.32	5.44	3.85
Texas	199	145	190	7.00	7.48	7.97
Vermont	180	185	165	7.22	8.14	7.85
Washington	125	119	85	9.20	10.50	5.85
Wisconsin	1,190	1,120	1,290	7.01	6.37	5.26
17 State total	4,457	4,237	4,504	7.21	6.99	6.44

State	Production		
	2017	2018	2019
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	3,365	2,774	2,559
Idaho	930	1,005	1,798
Illinois	383	218	292
Iowa	712	589	812
Kansas	965	770	758
Michigan	2,057	1,856	2,227
Minnesota	1,620	1,388	1,576
Missouri	421	665	595
Nebraska	344	202	350
New York	4,578	5,035	3,824
Ohio	1,026	810	828
Pennsylvania	3,101	2,683	2,588
South Dakota	454	653	731
Texas	1,393	1,085	1,515
Vermont	1,300	1,505	1,296
Washington	1,150	1,249	497
Wisconsin	8,337	7,132	6,780
17 State total	32,136	29,619	29,026

Alfalfa Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[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		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	70	80	60	6.00	6.20	6.40
Idaho	65	85	115	10.00	9.00	12.50
Illinois	33	24	30	9.00	6.50	7.40
Iowa	80	55	95	7.80	8.10	6.60
Kansas	25	20	25	10.00	6.00	7.50
Michigan	240	260	260	7.90	6.80	8.00
Minnesota	220	180	225	6.90	6.80	6.40
Missouri	20	35	40	6.00	7.50	4.00
Nebraska	20	25	50	6.70	4.00	4.10
New York	410	450	320	7.75	8.30	7.60
Ohio	120	90	90	6.00	7.70	7.10
Pennsylvania	265	250	200	7.50	6.70	8.00
South Dakota	50	75	125	3.80	6.00	3.50
Texas	9	5	10	7.00	7.00	7.50
Vermont	40	45	35	8.00	7.00	7.30
Washington	50	24	40	9.50	8.50	5.10
Wisconsin	1,050	1,000	1,020	7.30	6.70	5.80
17 State total	2,767	2,703	2,740	7.41	7.08	6.68

State	Production		
	2017	2018	2019
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	420	496	384
Idaho	650	765	1,438
Illinois	297	156	222
Iowa	624	446	627
Kansas	250	120	188
Michigan	1,896	1,768	2,080
Minnesota	1,518	1,224	1,440
Missouri	120	263	160
Nebraska	134	100	205
New York	3,178	3,735	2,432
Ohio	720	693	639
Pennsylvania	1,988	1,675	1,600
South Dakota	190	450	438
Texas	63	35	75
Vermont	320	315	256
Washington	475	204	204
Wisconsin	7,665	6,700	5,916
17 State total	20,508	19,145	18,304

All Other Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2017-2019

[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		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	195	170	150	15.10	13.40	14.50
Idaho	35	20	40	8.00	12.00	9.00
Illinois	20	14	19	4.30	4.40	3.70
Iowa	20	25	45	4.40	5.70	4.10
Kansas	110	100	60	6.50	6.50	9.50
Michigan	35	25	30	4.60	3.50	4.90
Minnesota	30	40	40	3.40	4.10	3.40
Missouri	70	120	150	4.30	3.35	2.90
Nebraska	30	15	25	7.00	6.80	5.80
New York	250	260	290	5.60	5.00	4.80
Ohio	85	45	35	3.60	2.60	5.40
Pennsylvania	210	160	190	5.30	6.30	5.20
South Dakota	55	45	65	4.80	4.50	4.50
Texas	190	140	180	7.00	7.50	8.00
Vermont	140	140	130	7.00	8.50	8.00
Washington	75	95	45	9.00	11.00	6.50
Wisconsin	140	120	270	4.80	3.60	3.20
17 State total	1,690	1,534	1,764	6.88	6.83	6.08

State	Production		
	2017	2018	2019
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	2,945	2,278	2,175
Idaho	280	240	360
Illinois	86	62	70
Iowa	88	143	185
Kansas	715	650	570
Michigan	161	88	147
Minnesota	102	164	136
Missouri	301	402	435
Nebraska	210	102	145
New York	1,400	1,300	1,392
Ohio	306	117	189
Pennsylvania	1,113	1,008	988
South Dakota	264	203	293
Texas	1,330	1,050	1,440
Vermont	980	1,190	1,040
Washington	675	1,045	293
Wisconsin	672	432	864
17 State total	11,628	10,474	10,722

New Seedings of Alfalfa and Alfalfa Mixtures – States and United States: 2017-2019

State	Area seeded		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Arizona	60	35	55
Arkansas	1	1	1
California	100	95	80
Colorado	70	85	80
Connecticut	1	1	1
Delaware	1	1	1
Idaho	125	155	135
Illinois	20	55	35
Indiana	40	40	40
Iowa	80	105	140
Kansas	65	55	75
Kentucky	17	20	17
Maine	1	2	2
Maryland	8	4	3
Massachusetts	1	1	1
Michigan	80	100	100
Minnesota	160	130	160
Missouri	30	30	35
Montana	100	115	130
Nebraska	150	120	140
Nevada	22	21	30
New Hampshire	1	1	1
New Jersey	1	1	2
New Mexico	15	30	15
New York	85	95	70
North Carolina	1	1	2
North Dakota	130	95	70
Ohio	50	35	60
Oklahoma	25	30	55
Oregon	65	40	70
Pennsylvania	80	60	80
South Dakota	125	170	135
Tennessee	3	2	1
Texas	10	15	10
Utah	60	50	65
Vermont	4	7	4
Virginia	11	10	7
Washington	70	60	50
West Virginia	2	3	1
Wisconsin	300	310	480
Wyoming	40	35	30
United States	2,210	2,221	2,469

Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	195.0	165.0	160.0	193.0	161.0	158.0
Arkansas	30.0	26.0	34.0	29.0	23.0	33.0
Florida	195.0	155.0	165.0	185.0	143.0	155.0
Georgia	835.0	665.0	670.0	825.0	655.0	660.0
Mississippi	44.0	25.0	20.0	43.0	24.0	19.0
New Mexico	7.6	5.5	4.7	7.6	5.5	4.7
North Carolina	119.0	102.0	104.0	117.0	98.0	102.0
Oklahoma	22.0	16.0	15.0	21.0	15.0	14.0
South Carolina	122.0	87.0	65.0	118.0	80.0	62.0
Texas	275.0	155.0	165.0	210.0	145.0	160.0
Virginia	27.0	24.0	25.0	27.0	24.0	24.0
United States	1,871.6	1,425.5	1,427.7	1,775.6	1,373.5	1,391.7

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	3,650	3,550	3,350	704,450	571,550	529,300
Arkansas	5,300	4,900	5,200	153,700	112,700	171,600
Florida	3,450	3,950	3,800	638,250	564,850	589,000
Georgia	4,330	4,390	4,200	3,572,250	2,875,450	2,772,000
Mississippi	4,000	3,900	4,000	172,000	93,600	76,000
New Mexico	3,500	2,850	3,210	26,600	15,675	15,087
North Carolina	4,100	3,870	4,350	479,700	379,260	443,700
Oklahoma	3,780	3,070	4,100	79,380	46,050	57,400
South Carolina	4,000	3,400	3,800	472,000	272,000	235,600
Texas	3,320	3,200	3,100	697,200	464,000	496,000
Virginia	4,440	4,200	4,600	119,880	100,800	110,400
United States	4,007	4,001	3,949	7,115,410	5,495,935	5,496,087

Canola Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho ¹	23.0	43.0	(NA)	22.3	42.0	(NA)
Kansas	50.0	47.0	29.0	47.0	35.0	19.0
Minnesota	36.0	46.0	51.0	34.5	45.0	49.0
Montana	155.0	120.0	150.0	137.0	116.0	138.0
North Dakota	1,590.0	1,590.0	1,700.0	1,560.0	1,580.0	1,610.0
Oklahoma	160.0	70.0	35.0	140.0	53.0	21.0
Oregon ¹	8.0	4.7	(NA)	7.2	4.5	(NA)
Washington	55.0	70.0	75.0	54.0	67.0	73.0
United States	2,077.0	1,990.7	2,040.0	2,002.0	1,942.5	1,910.0

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Idaho ¹	1,700	2,100	(NA)	37,910	88,200	(NA)
Kansas	1,320	960	1,090	62,040	33,600	20,710
Minnesota	2,080	2,060	2,270	71,760	92,700	111,230
Montana	860	1,120	1,450	117,820	129,920	200,100
North Dakota	1,600	1,960	1,800	2,496,000	3,096,800	2,898,000
Oklahoma	1,200	880	1,410	168,000	46,640	29,610
Oregon ¹	1,550	1,700	(NA)	11,160	7,650	(NA)
Washington	1,680	1,790	1,950	90,720	119,930	142,350
United States	1,526	1,861	1,781	3,055,410	3,615,440	3,402,000

(NA) Not available.

¹ Estimates discontinued in 2019.

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Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2017-2019

Varietal type and State	Area planted			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Oil						
California	54.0	58.0	49.0	52.5	57.0	49.0
Colorado	80.0	58.0	47.0	73.0	49.0	44.0
Kansas	52.0	43.0	37.0	50.0	41.0	32.0
Minnesota	34.0	45.0	53.0	33.0	44.0	51.0
Nebraska	30.0	25.0	28.0	28.5	24.0	26.0
North Dakota	395.0	395.0	470.0	381.0	380.0	430.0
South Dakota	540.0	520.0	485.0	520.0	480.0	460.0
Texas	31.0	20.0	28.0	30.0	19.0	26.0
United States	1,216.0	1,164.0	1,197.0	1,168.0	1,094.0	1,118.0
Non-oil						
California	1.3	2.0	1.6	1.3	2.0	1.6
Colorado	12.0	8.0	12.0	11.0	7.0	11.0
Kansas	13.5	10.0	8.0	12.2	8.5	7.3
Minnesota	4.7	7.5	5.0	3.3	6.9	4.6
Nebraska	15.5	12.0	9.0	15.0	9.5	8.5
North Dakota	43.0	41.0	65.0	42.0	40.0	58.0
South Dakota	82.0	51.0	48.0	68.0	45.0	31.0
Texas	15.0	5.5	5.0	13.0	4.5	4.5
United States	187.0	137.0	153.6	165.8	123.4	126.5
All						
California	55.3	60.0	50.6	53.8	59.0	50.6
Colorado	92.0	66.0	59.0	84.0	56.0	55.0
Kansas	65.5	53.0	45.0	62.2	49.5	39.3
Minnesota	38.7	52.5	58.0	36.3	50.9	55.6
Nebraska	45.5	37.0	37.0	43.5	33.5	34.5
North Dakota	438.0	436.0	535.0	423.0	420.0	488.0
South Dakota	622.0	571.0	533.0	588.0	525.0	491.0
Texas	46.0	25.5	33.0	43.0	23.5	30.5
United States	1,403.0	1,301.0	1,350.6	1,333.8	1,217.4	1,244.5

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Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2017-2019 (continued)

Varietal type and State	Yield per acre			Production		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 pounds)	2018 (1,000 pounds)	2019 (1,000 pounds)
Oil						
California	950	1,300	1,400	49,875	74,100	68,600
Colorado	1,000	1,100	1,000	73,000	53,900	44,000
Kansas	1,300	1,500	1,400	65,000	61,500	44,800
Minnesota	1,950	2,250	1,850	64,350	99,000	94,350
Nebraska	1,300	1,420	1,300	37,050	34,080	33,800
North Dakota	1,650	1,750	1,500	628,650	665,000	645,000
South Dakota	1,700	1,830	1,700	884,000	878,400	782,000
Texas	1,520	1,120	1,300	45,600	21,280	33,800
United States	1,582	1,725	1,562	1,847,525	1,887,260	1,746,350
Non-oil						
California	1,100	1,200	1,300	1,430	2,400	2,080
Colorado	1,200	1,150	1,400	13,200	8,050	15,400
Kansas	1,600	1,500	1,250	19,520	12,750	9,125
Minnesota	1,250	2,150	1,800	4,125	14,835	8,280
Nebraska	1,650	1,400	1,300	24,750	13,300	11,050
North Dakota	1,800	1,860	1,650	75,600	74,400	95,700
South Dakota	2,000	1,950	1,600	136,000	87,750	49,600
Texas	1,200	1,400	1,300	15,600	6,300	5,850
United States	1,750	1,781	1,558	290,225	219,785	197,085
All						
California	954	1,297	1,397	51,305	76,500	70,680
Colorado	1,026	1,106	1,080	86,200	61,950	59,400
Kansas	1,359	1,500	1,372	84,520	74,250	53,925
Minnesota	1,886	2,236	1,846	68,475	113,835	102,630
Nebraska	1,421	1,414	1,300	61,800	47,380	44,850
North Dakota	1,665	1,760	1,518	704,250	739,400	740,700
South Dakota	1,735	1,840	1,694	1,020,000	966,150	831,600
Texas	1,423	1,174	1,300	61,200	27,580	39,650
United States	1,603	1,731	1,562	2,137,750	2,107,045	1,943,435

(NA) Not available.
(X) Not applicable.

Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	350	345	265	345	335	260
Arkansas	3,530	3,270	2,650	3,500	3,210	2,610
Delaware	160	170	155	158	168	153
Florida ¹	15	18	(NA)	14	12	(NA)
Georgia	155	145	100	150	130	93
Illinois	10,600	10,800	9,950	10,550	10,500	9,860
Indiana	5,950	6,000	5,400	5,940	5,960	5,360
Iowa	10,000	9,950	9,200	9,940	9,830	9,120
Kansas	5,150	4,750	4,550	5,110	4,690	4,490
Kentucky	1,950	1,950	1,700	1,940	1,930	1,690
Louisiana	1,270	1,340	890	1,250	1,190	860
Maryland	500	530	480	495	515	475
Michigan	2,280	2,330	1,760	2,270	2,310	1,730
Minnesota	8,150	7,750	6,850	8,090	7,650	6,770
Mississippi	2,190	2,230	1,660	2,170	2,190	1,630
Missouri	5,950	5,850	5,100	5,910	5,780	5,010
Nebraska	5,700	5,650	4,900	5,670	5,590	4,840
New Jersey	100	110	95	99	107	92
New York	270	335	235	265	325	225
North Carolina	1,700	1,650	1,540	1,690	1,570	1,520
North Dakota	7,100	6,900	5,600	7,050	6,840	5,450
Ohio	5,100	5,050	4,300	5,090	5,020	4,270
Oklahoma	655	640	465	640	600	440
Pennsylvania	610	640	620	605	630	610
South Carolina	400	390	335	390	330	320
South Dakota	5,650	5,650	3,500	5,610	5,580	3,440
Tennessee	1,690	1,700	1,400	1,660	1,670	1,370
Texas	210	175	80	185	135	73
Virginia	600	600	570	590	590	560
West Virginia ¹	27	29	(NA)	26	27	(NA)
Wisconsin	2,150	2,220	1,750	2,140	2,180	1,700
United States	90,162	89,167	76,100	89,542	87,594	75,021

See footnote(s) at end of table.

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Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019 (continued)

State	Yield per acre			Production		
	2017 (bushels)	2018 (bushels)	2019 (bushels)	2017 (1,000 bushels)	2018 (1,000 bushels)	2019 (1,000 bushels)
Alabama	46.0	40.0	36.0	15,870	13,400	9,360
Arkansas	51.0	50.5	49.0	178,500	162,105	127,890
Delaware	51.0	41.5	47.0	8,058	6,972	7,191
Florida ¹	34.0	37.0	(NA)	476	444	(NA)
Georgia	42.0	39.5	29.0	6,300	5,135	2,697
Illinois	58.0	63.5	54.0	611,900	666,750	532,440
Indiana	54.0	57.5	51.0	320,760	342,700	273,360
Iowa	57.0	56.0	55.0	566,580	550,480	501,600
Kansas	37.5	43.0	41.5	191,625	201,670	186,335
Kentucky	53.0	51.0	46.0	102,820	98,430	77,740
Louisiana	54.0	51.5	48.0	67,500	61,285	41,280
Maryland	51.0	47.5	44.0	25,245	24,463	20,900
Michigan	42.5	47.5	41.0	96,475	109,725	70,930
Minnesota	47.5	49.0	44.0	384,275	374,850	297,880
Mississippi	53.0	54.0	50.0	115,010	118,260	81,500
Missouri	49.5	44.5	46.0	292,545	257,210	230,460
Nebraska	57.5	58.0	58.5	326,025	324,220	283,140
New Jersey	45.0	39.5	37.0	4,455	4,227	3,404
New York	45.0	52.0	48.0	11,925	16,900	10,800
North Carolina	40.0	33.0	35.0	67,600	51,810	53,200
North Dakota	34.5	35.0	32.0	243,225	239,400	174,400
Ohio	49.5	56.0	49.0	251,955	281,120	209,230
Oklahoma	29.0	28.0	29.0	18,560	16,800	12,760
Pennsylvania	48.0	44.5	49.0	29,040	28,035	29,890
South Carolina	38.0	29.0	26.0	14,820	9,570	8,320
South Dakota	43.0	45.0	42.5	241,230	251,100	146,200
Tennessee	50.0	45.5	47.0	83,000	75,985	64,390
Texas	37.0	31.5	28.0	6,845	4,253	2,044
Virginia	44.0	42.0	34.0	25,960	24,780	19,040
West Virginia ¹	54.0	53.0	(NA)	1,404	1,431	(NA)
Wisconsin	47.5	48.0	47.0	101,650	104,640	79,900
United States	49.3	50.6	47.4	4,411,633	4,428,150	3,558,281

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

(NA) Not available.

¹ Estimates discontinued in 2019.

Soybean Objective Yield Data

The National Agricultural Statistics Service conducted an objective yield survey in 11 soybean producing States during 2019. Randomly selected plots in soybean fields were visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

Soybean Pods with Beans per 18 Square Feet – Selected States: 2015-2019

State and month	2015	2016	2017	2018	2019	State and month	2015	2016	2017	2018	2019
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						Missouri					
September	1,729	1,884	1,992	1,841	1,759	September	1,612	1,881	2,041	1,777	1,719
October	1,737	1,805	1,898	1,795	1,731	October	1,755	2,006	2,172	1,899	1,754
November	1,813	1,820	2,039	1,943	1,717	November	1,869	2,123	2,253	1,948	1,898
Final	1,818	1,826	2,075	1,973	1,828	Final	1,899	2,164	2,239	1,961	1,921
Illinois						Nebraska					
September	1,980	1,969	1,917	2,132	1,696	September	1,816	1,947	1,653	1,736	1,669
October	2,052	2,109	1,886	2,225	1,683	October	1,863	2,036	1,795	2,071	1,777
November	2,086	2,193	1,947	2,249	1,601	November	1,884	2,074	1,853	2,174	1,722
Final	2,079	2,197	1,947	2,264	1,603	Final	1,884	2,074	1,853	2,174	1,722
Indiana						North Dakota					
September	1,641	1,683	1,795	1,880	1,496	September	1,321	1,395	1,406	1,418	1,147
October	1,703	1,775	1,772	2,001	1,501	October	1,330	1,444	1,430	1,485	1,246
November	1,691	1,873	1,774	2,054	1,569	November	1,337	1,442	1,465	1,515	1,253
Final	1,691	1,873	1,774	2,052	1,561	Final	1,337	1,470	1,451	1,514	1,195
Iowa						Ohio					
September	1,779	1,808	1,644	1,823	1,601	September	1,621	1,773	1,765	2,019	1,563
October	1,805	1,801	1,670	1,984	1,642	October	1,691	1,715	1,714	2,180	1,760
November	1,834	1,861	1,717	2,082	1,660	November	1,776	1,782	1,828	2,210	1,587
Final	1,834	1,890	1,735	2,097	1,682	Final	1,776	1,782	1,823	2,210	1,587
Kansas						South Dakota					
September	1,285	1,467	1,487	1,552	1,561	September	1,541	1,561	1,511	1,649	1,504
October	1,602	1,643	1,472	1,456	1,604	October	1,557	1,639	1,472	1,867	1,316
November	1,715	1,720	1,561	1,548	1,596	November	1,563	1,709	1,457	1,822	1,331
Final	1,715	1,737	1,561	1,558	1,583	Final	1,563	1,665	1,457	1,724	1,353
Minnesota						11-State					
September	1,637	1,614	1,359	1,605	1,465	September	1,672	1,741	1,678	1,786	1,561
October	1,644	1,625	1,407	1,616	1,474	October	1,731	1,800	1,692	1,895	1,593
November	1,612	1,658	1,480	1,569	1,458	November	1,763	1,862	1,751	1,938	1,582
Final	1,612	1,658	1,480	1,569	1,458	Final	1,764	1,870	1,752	1,938	1,586

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2015-2019

State and year	Row width (inches)				
	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas					
2015	8	41	34	32	77
2016	5	31	46	36	73
2017	9	25	42	39	79
2018	9	36	47	36	83
2019	-	14	13	21	25
Illinois					
2015	2	15	111	52	1
2016	1	15	105	57	1
2017	2	10	109	59	2
2018	3	11	118	58	-
2019	2	5	82	33	1
Indiana					
2015	2	17	103	15	-
2016	1	27	91	17	2
2017	3	28	101	12	-
2018	1	19	110	14	-
2019	-	5	57	9	1
Iowa					
2015	4	4	76	92	4
2016	1	6	73	100	2
2017	1	3	80	94	1
2018	1	11	77	88	3
2019	1	9	51	66	-
Kansas					
2015	5	13	38	56	-
2016	6	8	38	57	-
2017	10	14	32	43	2
2018	2	17	35	54	1
2019	-	10	23	16	-
Minnesota					
2015	4	7	42	50	1
2016	5	8	40	36	1
2017	1	9	38	42	-
2018	3	8	34	45	2
2019	3	5	26	28	1
Missouri					
2015	1	17	50	15	8
2016	-	14	71	19	5
2017	1	10	70	21	4
2018	1	15	65	31	4
2019	1	5	38	10	1
Nebraska					
2015	1	4	31	62	8
2016	-	10	36	46	3
2017	1	4	38	51	8
2018	3	7	35	49	8
2019	-	6	37	49	5

See footnote(s) at end of table.

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2015-2019 (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 2015	5	19	68	12	-
2016	8	17	55	15	-
2017	5	16	56	7	1
2018	4	31	49	12	-
2019	3	11	28	6	-
Ohio 2015	2	45	76	9	-
2016	3	41	84	7	-
2017	2	38	83	8	-
2018	4	31	98	1	-
2019	2	11	42	1	-
South Dakota 2015	2	3	12	65	1
2016	3	4	27	59	2
2017	1	4	27	63	1
2018	2	4	27	61	1
2019	4	-	18	30	-

- Represents zero.

¹ Includes broadcast soybeans.

Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2015-2019

State and year	Samples	Row width (inches)					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	2015	199	19.1	16.8	23.6	14.6	25.9	23.1
	2016	189	14.6	24.1	4.0	21.2	36.1	26.0
	2017	197	16.3	24.2	2.3	19.8	37.4	26.4
	2018	208	18.3	18.3	6.7	14.7	42.0	26.5
	2019	73	19.2	15.1	5.5	23.3	36.9	26.6
Illinois	2015	178	7.1	63.0	2.3	26.8	0.8	19.0
	2016	177	7.9	56.5	5.6	29.4	0.6	19.6
	2017	181	6.1	50.6	5.0	37.7	0.6	20.8
	2018	185	5.7	57.6	5.9	30.8	-	19.9
	2019	119	4.6	58.0	10.9	26.5	-	19.4
Indiana	2015	137	15.4	67.4	5.9	11.3	-	16.1
	2016	137	14.7	62.3	8.4	13.9	0.7	17.0
	2017	141	14.6	68.3	9.3	7.8	-	15.8
	2018	150	10.1	74.8	5.7	9.4	-	16.2
	2019	74	4.1	74.7	11.6	9.6	-	17.3
Iowa	2015	181	2.8	36.7	9.1	49.2	2.2	23.4
	2016	179	2.2	34.4	11.2	50.5	1.7	23.7
	2017	180	1.1	34.4	12.8	50.6	1.1	23.7
	2018	177	4.8	36.5	10.1	45.8	2.8	22.8
	2019	124	4.9	36.0	9.7	48.6	0.8	23.1
Kansas	2015	111	11.7	38.3	4.5	45.5	-	21.5
	2016	109	5.5	34.6	4.6	54.4	0.9	23.5
	2017	105	9.0	38.1	5.7	47.2	-	21.8
	2018	106	8.1	39.3	6.6	45.1	0.9	22.0
	2019	49	9.2	47.0	7.1	36.7	-	20.4
Minnesota	2015	89	5.1	21.9	20.8	52.2	-	24.0
	2016	84	11.3	28.0	23.8	36.9	-	21.6
	2017	88	7.4	23.3	18.8	50.5	-	23.5
	2018	85	10.0	28.8	14.7	46.5	-	22.6
	2019	59	11.9	18.6	26.3	41.5	1.7	23.0
Missouri	2015	86	16.7	56.6	7.7	11.9	7.1	17.9
	2016	104	3.8	70.7	2.4	16.8	6.3	18.9
	2017	106	9.4	63.7	5.7	19.3	1.9	18.3
	2018	113	12.8	52.7	8.0	23.0	3.5	19.2
	2019	51	7.8	68.7	7.8	15.7	-	17.8
Nebraska	2015	105	2.4	29.5	6.3	54.1	7.7	24.5
	2016	94	7.4	35.6	5.9	46.8	4.3	22.8
	2017	100	4.0	31.0	10.5	47.0	7.5	24.2
	2018	101	5.9	27.2	10.9	48.1	7.9	24.3
	2019	98	4.6	32.1	11.2	47.0	5.1	23.9

See footnote(s) at end of table.

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**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:
2015-2019 (continued)**

State and year	Samples	Row width (inches)					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	2015 104	13.5	45.7	29.3	11.5	-	17.6
	2016 95	20.1	42.9	20.1	16.9	-	17.7
	2017 84	17.3	55.3	17.9	8.3	1.2	16.2
	2018 96	21.9	45.3	22.9	7.3	2.6	16.4
	2019 48	17.7	49.0	22.9	10.4	-	17.1
Ohio	2015 132	32.7	57.0	5.0	5.3	-	13.8
	2016 137	32.1	60.3	1.8	5.8	-	13.7
	2017 134	25.4	66.4	2.6	5.6	-	14.1
	2018 134	20.9	76.5	2.6	-	-	13.7
	2019 57	22.8	77.2	-	-	-	13.6
South Dakota	2015 83	5.0	10.5	14.2	69.1	1.2	26.6
	2016 96	1.6	23.0	17.3	53.4	4.7	25.1
	2017 93	2.7	17.8	16.2	61.7	1.6	25.9
	2018 94	4.3	15.4	17.6	62.2	0.5	25.7
	2019 43	2.3	10.5	27.9	59.3	-	26.6

- 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: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Montana	52	39	99	38	37	89
North Dakota	245	165	275	229	158	230
South Dakota ¹	6	4	(NA)	5	3	(NA)
United States	303	208	374	272	198	319

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Montana	9.0	17.0	15.0	342	629	1,335
North Dakota	15.0	24.0	22.0	3,435	3,792	5,060
South Dakota ¹	13.0	15.0	(NA)	65	45	(NA)
United States	14.1	22.6	20.0	3,842	4,466	6,395

(NA) Not available.

¹ Estimates discontinued in 2019.

Safflower Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	56.0	60.0	57.0	55.5	59.5	57.0
Idaho	22.5	22.0	29.0	21.5	21.0	28.5
Montana	39.0	42.0	53.0	28.0	36.0	43.0
North Dakota ¹	7.1	10.0	(NA)	5.2	9.4	(NA)
South Dakota	21.9	18.5	13.8	18.5	17.4	11.5
Utah	17.0	15.0	13.0	16.5	13.0	12.7
United States	163.5	167.5	165.8	145.2	156.3	152.7

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	1,900	2,400	1,950	105,450	142,800	111,150
Idaho	900	830	940	19,350	17,430	26,790
Montana	610	990	840	17,080	35,640	36,120
North Dakota ¹	900	1,100	(NA)	4,680	10,340	(NA)
South Dakota	790	1,100	600	14,615	19,140	6,900
Utah	900	840	1,050	14,850	10,920	13,335
United States	1,212	1,512	1,272	176,025	236,270	194,295

(NA) Not available.

¹ Estimates discontinued in 2019.

Other Oilseed Area Planted and Harvested, Yield, and Production by Crop – United States: 2017-2019

Crop	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Rapeseed ¹	10.3	5.7	11.3	9.9	5.4	10.4
Mustard seed ²	103.0	102.5	98.0	95.4	97.8	90.0
State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Rapeseed ¹	1,843	1,524	2,160	18,250	8,230	22,464
Mustard seed ²	617	749	706	58,820	73,297	63,580

¹ For 2017 and 2018, rapeseed program States include Idaho, Montana, North Carolina, North Dakota, Oregon, and Washington. For 2019, rapeseed program States include Delaware, Idaho, Kentucky, North Carolina, Pennsylvania, South Carolina, Tennessee, and Virginia.

² For 2017 and 2018, mustard seed program States include Idaho, Montana, North Dakota, Oregon, and Washington. For 2019, mustard seed program States include Idaho, Montana, and North Dakota.

Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2017-2019

Type and State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Upland						
Alabama	435.0	510.0	540.0	430.0	497.0	535.0
Arizona	160.0	160.0	160.0	159.0	159.0	158.0
Arkansas	445.0	485.0	620.0	438.0	480.0	610.0
California	88.0	48.0	55.0	87.0	47.0	54.0
Florida	99.0	117.0	112.0	98.0	93.0	111.0
Georgia	1,280.0	1,430.0	1,400.0	1,270.0	1,305.0	1,390.0
Kansas	93.0	165.0	175.0	90.0	152.0	153.0
Louisiana	220.0	195.0	280.0	217.0	189.0	270.0
Mississippi	630.0	620.0	710.0	625.0	615.0	700.0
Missouri	305.0	325.0	380.0	297.0	322.0	368.0
New Mexico	66.0	77.0	63.0	46.0	56.0	47.0
North Carolina	375.0	430.0	510.0	367.0	415.0	500.0
Oklahoma	590.0	780.0	640.0	555.0	550.0	480.0
South Carolina	250.0	300.0	300.0	248.0	275.0	297.0
Tennessee	345.0	360.0	410.0	340.0	355.0	405.0
Texas	7,000.0	7,750.0	7,050.0	5,500.0	4,350.0	5,400.0
Virginia	84.0	98.0	103.0	83.0	97.0	102.0
United States	12,465.0	13,850.0	13,508.0	10,850.0	9,957.0	11,580.0
American Pima						
Arizona	15.0	14.5	7.5	15.0	14.5	7.5
California	216.0	211.0	205.0	215.0	210.0	202.0
New Mexico	7.5	6.8	5.3	7.4	6.8	5.0
Texas	14.0	18.0	12.0	13.0	17.5	10.0
United States	252.5	250.3	229.8	250.4	248.8	224.5
All						
Alabama	435.0	510.0	540.0	430.0	497.0	535.0
Arizona	175.0	174.5	167.5	174.0	173.5	165.5
Arkansas	445.0	485.0	620.0	438.0	480.0	610.0
California	304.0	259.0	260.0	302.0	257.0	256.0
Florida	99.0	117.0	112.0	98.0	93.0	111.0
Georgia	1,280.0	1,430.0	1,400.0	1,270.0	1,305.0	1,390.0
Kansas	93.0	165.0	175.0	90.0	152.0	153.0
Louisiana	220.0	195.0	280.0	217.0	189.0	270.0
Mississippi	630.0	620.0	710.0	625.0	615.0	700.0
Missouri	305.0	325.0	380.0	297.0	322.0	368.0
New Mexico	73.5	83.8	68.3	53.4	62.8	52.0
North Carolina	375.0	430.0	510.0	367.0	415.0	500.0
Oklahoma	590.0	780.0	640.0	555.0	550.0	480.0
South Carolina	250.0	300.0	300.0	248.0	275.0	297.0
Tennessee	345.0	360.0	410.0	340.0	355.0	405.0
Texas	7,014.0	7,768.0	7,062.0	5,513.0	4,367.5	5,410.0
Virginia	84.0	98.0	103.0	83.0	97.0	102.0
United States	12,717.5	14,100.3	13,737.8	11,100.4	10,205.8	11,804.5

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: 2017-2019 (continued)

Type and State	Yield per acre			Production ¹		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 bales) ²	2018 (1,000 bales) ²	2019 (1,000 bales) ²
Upland						
Alabama	902	858	969	808.0	888.0	1,080.0
Arizona	1,464	1,319	1,443	485.0	437.0	475.0
Arkansas	1,177	1,133	1,102	1,074.0	1,133.0	1,400.0
California	1,297	1,910	1,644	235.0	187.0	185.0
Florida	759	532	822	155.0	103.0	190.0
Georgia	841	719	915	2,225.0	1,955.0	2,650.0
Kansas	1,051	1,077	910	197.0	341.0	290.0
Louisiana	894	1,067	1,031	404.0	420.0	580.0
Mississippi	1,038	1,141	1,097	1,351.0	1,462.0	1,600.0
Missouri	1,212	1,373	1,330	750.0	921.0	1,020.0
New Mexico	1,179	977	1,328	113.0	114.0	130.0
North Carolina	969	812	1,018	741.0	702.0	1,060.0
Oklahoma	882	595	640	1,020.0	682.0	640.0
South Carolina	912	733	808	471.0	420.0	500.0
Tennessee	1,033	1,041	1,138	732.0	770.0	960.0
Texas	809	756	569	9,270.0	6,850.0	6,400.0
Virginia	1,110	896	1,035	192.0	181.0	220.0
United States	895	847	803	20,223.0	17,566.0	19,380.0
American Pima						
Arizona	966	943	896	30.2	28.5	14.0
California	1,407	1,662	1,616	630.0	727.0	680.0
New Mexico	863	812	864	13.3	11.5	9.0
Texas	960	933	912	26.0	34.0	19.0
United States	1,341	1,545	1,544	699.5	801.0	722.0
All						
Alabama	902	858	969	808.0	888.0	1,080.0
Arizona	1,421	1,288	1,418	515.2	465.5	489.0
Arkansas	1,177	1,133	1,102	1,074.0	1,133.0	1,400.0
California	1,375	1,707	1,622	865.0	914.0	865.0
Florida	759	532	822	155.0	103.0	190.0
Georgia	841	719	915	2,225.0	1,955.0	2,650.0
Kansas	1,051	1,077	910	197.0	341.0	290.0
Louisiana	894	1,067	1,031	404.0	420.0	580.0
Mississippi	1,038	1,141	1,097	1,351.0	1,462.0	1,600.0
Missouri	1,212	1,373	1,330	750.0	921.0	1,020.0
New Mexico	1,135	959	1,283	126.3	125.5	139.0
North Carolina	969	812	1,018	741.0	702.0	1,060.0
Oklahoma	882	595	640	1,020.0	682.0	640.0
South Carolina	912	733	808	471.0	420.0	500.0
Tennessee	1,033	1,041	1,138	732.0	770.0	960.0
Texas	809	757	570	9,296.0	6,884.0	6,419.0
Virginia	1,110	896	1,035	192.0	181.0	220.0
United States	905	864	817	20,922.5	18,367.0	20,102.0

¹ Production ginned and to be ginned.

² 480-pound net weight bale.

Cottonseed Production – States and United States: 2017-2019

State	Production		
	2017 (1,000 tons)	2018 (1,000 tons)	2019 ¹ (1,000 tons)
Alabama	204.0	254.0	315.0
Arizona	171.0	156.0	166.0
Arkansas	351.0	366.0	457.0
California	323.0	342.0	324.0
Florida	44.0	27.0	53.0
Georgia	638.0	546.0	751.0
Kansas	58.0	106.0	90.0
Louisiana	127.0	135.0	185.0
Mississippi	432.0	451.0	507.0
Missouri	255.0	310.0	348.0
New Mexico	40.0	42.0	46.0
North Carolina	217.0	224.0	318.0
Oklahoma	294.0	197.0	191.0
South Carolina	134.0	117.0	148.0
Tennessee	230.0	219.0	297.0
Texas	2,852.0	2,088.0	1,974.0
Virginia	52.0	51.0	62.0
United States	6,422.0	5,631.0	6,232.0

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

Tobacco Area Harvested, Yield, and Production – States and United States: 2017-2019

State	Area harvested			Yield per acre		
	2017	2018	2019	2017	2018	2019
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)
Georgia	12,500	12,500	9,000	2,100	1,900	2,100
Kentucky	80,500	68,100	57,400	2,277	1,973	2,150
North Carolina	163,900	152,750	117,400	2,197	1,649	1,999
Pennsylvania	8,100	7,800	5,700	2,344	2,231	2,509
South Carolina	12,000	12,300	8,300	2,100	1,800	1,900
Tennessee	21,100	15,700	13,300	2,038	2,523	2,292
Virginia	23,370	22,280	16,020	2,284	1,977	1,898
United States	321,470	291,430	227,120	2,209	1,830	2,060

State	Production		
	2017	2018	2019
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Georgia	26,250	23,750	18,900
Kentucky	183,300	134,370	123,390
North Carolina	360,040	251,925	234,700
Pennsylvania	18,990	17,400	14,300
South Carolina	25,200	22,140	15,770
Tennessee	43,000	39,610	30,490
Virginia	53,381	44,046	30,406
United States	710,161	533,241	467,956

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2017-2019

Class, type, and State	Area harvested		
	2017 (acres)	2018 (acres)	2019 (acres)
Class 1, Flue-cured (11-14)			
Georgia	12,500	12,500	9,000
North Carolina	163,000	152,000	117,000
South Carolina	12,000	12,300	8,300
Virginia	22,000	21,000	15,000
United States	209,500	197,800	149,300
Class 2, Fire-cured (21-23)			
Kentucky	11,500	11,000	9,500
Tennessee	7,500	7,600	6,300
Virginia	270	280	320
United States	19,270	18,880	16,120
Class 3A, Light air-cured			
Type 31, Burley			
Kentucky	63,000	50,000	41,000
North Carolina	900	750	400
Pennsylvania	4,500	4,000	2,500
Tennessee	12,000	5,300	4,000
Virginia	1,100	1,000	700
United States	81,500	61,050	48,600
Type 32, Southern Maryland			
Pennsylvania	1,800	1,400	1,000
United States	1,800	1,400	1,000
Total light air-cured (31-32)	83,300	62,450	49,600
Class 3B, Dark air-cured (35-37)			
Kentucky	6,000	7,100	6,900
Tennessee	1,600	2,800	3,000
United States	7,600	9,900	9,900
Class 4, Cigar filler			
Type 41, Pennsylvania Seedleaf			
Pennsylvania	1,800	2,400	2,200
United States	1,800	2,400	2,200
All Tobacco			
United States	321,470	291,430	227,120

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**Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States:
2017-2019 (continued)**

Class, type, and State	Yield per acre			Production		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 pounds)	2018 (1,000 pounds)	2019 (1,000 pounds)
Class 1, Flue-cured (11-14)						
Georgia	2,100	1,900	2,100	26,250	23,750	18,900
North Carolina	2,200	1,650	2,000	358,600	250,800	234,000
South Carolina	2,100	1,800	1,900	25,200	22,140	15,770
Virginia	2,300	2,000	1,900	50,600	42,000	28,500
United States	2,199	1,712	1,990	460,650	338,690	297,170
Class 2, Fire-cured (21-23)						
Kentucky	3,300	3,200	2,900	37,950	35,200	27,550
Tennessee	2,800	3,050	2,800	21,000	23,180	17,640
Virginia	2,150	1,950	1,800	581	546	576
United States	3,089	3,121	2,839	59,531	58,926	45,766
Class 3A, Light air-cured						
Type 31, Burley						
Kentucky	2,050	1,600	1,900	129,150	80,000	77,900
North Carolina	1,600	1,500	1,750	1,440	1,125	700
Pennsylvania	2,300	2,200	2,600	10,350	8,800	6,500
Tennessee	1,500	1,700	1,600	18,000	9,010	6,400
Virginia	2,000	1,500	1,900	2,200	1,500	1,330
United States	1,977	1,645	1,910	161,140	100,435	92,830
Type 32, Southern Maryland Belt						
Pennsylvania	2,400	2,200	2,300	4,320	3,080	2,300
United States	2,400	2,200	2,300	4,320	3,080	2,300
Total light air-cured (31-32)	1,986	1,658	1,918	165,460	103,515	95,130
Class 3B, Dark air-cured (35-37)						
Kentucky	2,700	2,700	2,600	16,200	19,170	17,940
Tennessee	2,500	2,650	2,150	4,000	7,420	6,450
United States	2,658	2,686	2,464	20,200	26,590	24,390
Class 4, Cigar filler						
Type 41, Pennsylvania Seedleaf						
Pennsylvania	2,400	2,300	2,500	4,320	5,520	5,500
United States	2,400	2,300	2,500	4,320	5,520	5,500
All tobacco						
United States	2,209	1,830	2,060	710,161	533,241	467,956

Sugarbeet Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

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

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California ¹	25.0	24.6	24.5	24.4	24.6	24.5
Colorado	29.4	26.3	25.1	29.0	25.5	24.4
Idaho	167.0	163.0	171.0	166.0	163.0	165.0
Michigan	144.0	150.0	146.0	143.0	148.0	145.0
Minnesota	420.0	415.0	424.0	409.0	408.0	336.0
Montana	42.9	43.5	41.8	42.7	42.4	36.5
Nebraska	46.1	45.5	44.0	45.2	44.1	42.1
North Dakota	214.0	202.0	212.0	212.0	199.0	170.0
Oregon	9.1	9.3	10.0	9.1	9.3	9.8
Washington	1.8	1.8	2.0	1.8	1.8	2.0
Wyoming	32.1	32.1	31.6	31.6	30.7	24.0
United States	1,131.4	1,113.1	1,132.0	1,113.8	1,096.4	979.3

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
California ¹	43.7	48.8	44.1	1,066	1,200	1,080
Colorado	35.7	32.6	30.7	1,035	831	749
Idaho	39.2	40.5	39.0	6,507	6,602	6,435
Michigan	25.2	29.1	28.6	3,604	4,307	4,147
Minnesota	30.6	25.7	25.0	12,515	10,486	8,400
Montana	32.7	31.1	31.6	1,396	1,319	1,153
Nebraska	31.8	31.9	25.4	1,437	1,407	1,069
North Dakota	30.4	28.8	26.0	6,445	5,731	4,420
Oregon	36.7	39.4	38.5	334	366	377
Washington	48.2	48.2	45.4	87	87	91
Wyoming	28.2	30.8	28.3	891	946	679
United States	31.7	30.4	29.2	35,317	33,282	28,600

¹ Relates to year of planting for overwintered beets in southern California.

Sugarcane Area Harvested, Yield, and Production – States and United States: 2017-2019

State	Area harvested			Yield per acre ¹		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
For sugar						
Florida	397.0	397.0	395.0	40.9	41.7	41.6
Louisiana	414.0	425.0	442.0	32.5	35.3	28.5
Texas	40.5	37.6	31.5	36.8	36.6	36.3
United States	851.5	859.6	868.5	36.6	38.3	34.7
For seed						
Florida	15.7	15.3	13.2	44.9	45.8	47.6
Louisiana	35.6	23.5	28.4	36.2	36.5	32.5
Texas	1.3	1.3	1.9	48.0	37.9	39.4
United States	52.6	40.1	43.5	39.1	40.1	37.4
For sugar and seed						
Florida	412.7	412.3	408.2	41.1	41.9	41.8
Louisiana	449.6	448.5	470.4	32.8	35.4	28.7
Texas	41.8	38.9	33.4	37.1	36.6	36.5
United States	904.1	899.7	912.0	36.8	38.4	34.9
State	Production ¹					
	2017	2018	2019			
	(1,000 tons)	(1,000 tons)	(1,000 tons)			
For sugar						
Florida	16,237	16,555	16,432			
Louisiana	13,455	15,003	12,597			
Texas	1,490	1,376	1,143			
United States	31,182	32,934	30,172			
For seed						
Florida	705	701	628			
Louisiana	1,289	858	923			
Texas	62	49	75			
United States	2,056	1,608	1,626			
For sugar and seed						
Florida	16,942	17,256	17,060			
Louisiana	14,744	15,861	13,520			
Texas	1,552	1,425	1,218			
United States	33,238	34,542	31,798			

¹ Net tons.

Potato Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alaska ^{1 2}	(X)	0.5	(NA)	(X)	0.5	(NA)
California	41.7	38.5	42.0	41.7	38.3	41.8
Colorado	55.9	55.3	51.3	55.6	55.0	51.1
San Luis Valley	51.7	51.8	48.6	51.5	51.6	48.5
All other areas	4.2	3.5	2.7	4.1	3.4	2.6
Florida	29.0	22.0	27.0	28.7	20.8	26.2
Idaho	310.0	315.0	310.0	310.0	315.0	308.0
Illinois ²	8.6	7.7	(NA)	8.1	7.6	(NA)
Kansas ²	4.1	3.3	(NA)	4.1	3.3	(NA)
Maine	48.0	49.0	52.0	47.5	48.5	51.5
Maryland ²	2.6	2.2	(NA)	2.5	2.0	(NA)
Michigan	50.0	50.0	49.0	49.5	48.0	46.5
Minnesota	46.0	44.0	46.0	45.5	43.5	44.0
Missouri ²	8.8	7.8	(NA)	8.5	7.4	(NA)
Montana ²	11.1	11.1	(NA)	11.1	11.1	(NA)
Nebraska	19.0	19.5	20.0	19.0	19.3	19.7
New Jersey ²	2.0	2.0	(NA)	2.0	2.0	(NA)
New York ²	14.5	14.3	(NA)	14.4	13.4	(NA)
North Carolina ²	16.0	13.0	(NA)	15.1	12.2	(NA)
North Dakota	75.0	74.5	73.0	74.0	73.0	58.0
Oregon	46.0	45.0	45.0	45.9	45.0	44.9
Texas	23.3	18.0	18.0	22.8	17.5	17.5
Virginia ²	5.0	4.8	(NA)	4.5	4.4	(NA)
Washington	165.0	160.0	165.0	164.0	160.0	165.0
Wisconsin	71.0	69.0	70.0	70.0	67.0	68.0
United States ³	1,052.6	1,026.5	968.3	1,044.5	1,014.8	942.2

See footnote(s) at end of table.

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**Potato Area Planted and Harvested, Yield, and Production – States and United States:
2017-2019 (continued)**

State	Yield per acre			Production		
	2017 (cwt)	2018 (cwt)	2019 (cwt)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Alaska ^{1 2}	(X)	280	(NA)	(X)	140	(NA)
California	429	404	445	17,894	15,457	18,601
Colorado	382	395	376	21,220	21,722	19,219
San Luis Valley	375	390	370	19,313	20,124	17,945
All other areas	465	470	490	1,907	1,598	1,274
Florida	250	265	270	7,175	5,512	7,074
Idaho	435	450	425	134,850	141,750	130,900
Illinois ²	410	375	(NA)	3,321	2,850	(NA)
Kansas ²	380	430	(NA)	1,558	1,419	(NA)
Maine	320	310	315	15,200	15,035	16,223
Maryland ²	365	255	(NA)	913	510	(NA)
Michigan	370	380	425	18,315	18,240	19,763
Minnesota	405	430	410	18,428	18,705	18,040
Missouri ²	285	225	(NA)	2,423	1,665	(NA)
Montana ²	340	350	(NA)	3,774	3,885	(NA)
Nebraska	475	480	480	9,025	9,264	9,456
New Jersey ²	300	265	(NA)	600	530	(NA)
New York ²	280	290	(NA)	4,032	3,886	(NA)
North Carolina ²	230	190	(NA)	3,473	2,318	(NA)
North Dakota	330	325	350	24,420	23,725	20,300
Oregon	550	600	560	25,245	27,000	25,144
Texas	390	425	390	8,892	7,438	6,825
Virginia ²	265	235	(NA)	1,193	1,034	(NA)
Washington	605	630	625	99,220	100,800	103,125
Wisconsin	425	405	415	29,750	27,135	28,220
United States ³	432	443	449	450,921	450,020	422,890

(NA) Not available.

(X) Not applicable.

¹ Previously included in the Alaska table. For 2017 data, refer to the Alaska table on page 95.

² Estimates discontinued in 2019.

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

Sweet Potato Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Blank data cells indicate estimation period has not yet begun. Beginning in 2019, estimates will be published in *Vegetable Summary* released in February 2020.]

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas ¹	(D)	5.2	(NA)	(D)	4.8	(NA)
California	21.0	21.0		21.0	21.0	
Florida ¹	(D)	6.5	(NA)	(D)	5.8	(NA)
Louisiana ¹	10.0	8.5	(NA)	9.5	8.3	(NA)
Mississippi	30.0	27.0		29.0	26.0	
North Carolina	90.0	82.0		89.5	78.5	
Other States	10.6	-		10.3	-	
United States	161.6	150.2		159.3	144.4	

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(cwt)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Arkansas ¹	(D)	220	(NA)	(D)	1,056	(NA)
California	310	370		6,510	7,770	
Florida ¹	(D)	140	(NA)	(D)	812	(NA)
Louisiana ¹	230	265	(NA)	2,185	2,200	(NA)
Mississippi	170	175		4,930	4,550	
North Carolina	220	140		19,690	10,990	
Other States	226	(X)		2,331	-	
United States	224	190		35,646	27,378	

- Represents zero.

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

(NA) Not available.

(X) Not applicable.

¹ Estimates discontinued in 2019.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Excludes beans grown for garden seed. Beginning in 2019, chickpeas are excluded]

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	50.0	48.0	27.4	49.7	47.7	27.4
Colorado	58.0	42.0	37.0	54.5	30.5	33.8
Idaho	180.0	185.0	47.0	178.0	183.0	45.0
Michigan	220.0	195.0	185.0	218.5	193.0	180.0
Minnesota	170.0	185.0	210.0	163.0	178.0	201.0
Montana ²	275.0	395.0	(NA)	265.0	386.0	(NA)
Nebraska	180.0	140.2	120.0	155.0	131.2	97.0
North Dakota	705.0	635.0	615.0	685.0	615.0	550.0
Texas ²	22.0	20.3	(NA)	20.0	18.3	(NA)
Washington	196.0	218.0	25.0	195.0	217.0	25.0
Wyoming	41.0	31.0	21.0	39.0	28.5	17.3
United States	2,097.0	2,094.5	1,287.4	2,022.7	2,028.2	1,176.5

State	Yield per acre ¹			Production ¹		
	2017	2018	2019	2017	2018	2019
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
California	2,100	2,490	2,660	1,045	1,190	729
Colorado	2,000	2,120	1,840	1,092	647	623
Idaho	1,610	1,710	2,370	2,873	3,127	1,067
Michigan	2,010	2,400	2,030	4,394	4,635	3,662
Minnesota	2,190	2,360	2,040	3,567	4,200	4,101
Montana ²	1,000	1,350	(NA)	2,643	5,214	(NA)
Nebraska	2,520	2,480	1,940	3,901	3,254	1,883
North Dakota	1,810	1,760	1,400	12,392	10,806	7,691
Texas ²	1,100	1,150	(NA)	220	210	(NA)
Washington	1,490	1,780	2,660	2,901	3,857	665
Wyoming	2,390	2,120	2,250	933	605	390
United States	1,778	1,861	1,769	35,961	37,745	20,811

- Represents zero.

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

(NA) Not available.

(X) Not applicable.

¹ Clean basis.

² Estimates discontinued in 2019.

Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2017-2019

Class and State	Area planted			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Large lima						
California	12.1	10.2	7.3	12.0	10.1	7.3
Colorado	-	-	-	-	-	-
Idaho	(D)	(D)	(D)	(D)	(D)	(D)
Michigan	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	-	-	-	-	-	-
Other States ²	0.2	0.7	1.6	0.2	0.7	1.6
United States	12.3	10.9	8.9	12.2	10.8	8.9
Baby lima						
California	8.0	10.0	7.9	8.0	9.9	7.9
Colorado	-	-	-	-	-	-
Idaho	0.6	(D)	(D)	0.6	(D)	(D)
Michigan	-	-	-	-	-	-
Minnesota	(D)	-	-	(D)	-	-
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	-	-	-	-	-	-
Other States ²	0.5	1.1	1.4	0.5	1.1	1.4
United States	9.1	11.1	9.3	9.1	11.0	9.3
Navy						
California	-	-	-	-	-	-
Colorado	-	-	-	-	-	-
Idaho	2.0	1.2	1.3	1.9	1.1	1.2
Michigan	74.0	60.0	55.0	73.9	59.2	54.4
Minnesota	41.4	42.8	39.3	39.5	41.3	37.6
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	84.0	81.0	75.0	82.0	79.0	72.0
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	1.1	1.4	(D)	1.1	1.4	(D)
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States ²	2.7	1.0	1.9	2.4	1.0	1.6
United States	205.2	187.4	172.5	200.8	183.0	166.8

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: 2017-2019 (continued)

Class and State	Yield per acre ³			Production ³		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Large lima						
California	2,090	2,150	2,350	251	217	172
Colorado	(X)	(X)	(X)	-	-	-
Idaho	(D)	(D)	(D)	(D)	(D)	(D)
Michigan	(X)	(X)	(X)	-	-	-
Minnesota	(X)	(X)	(X)	-	-	-
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(X)	(X)	(X)	-	-	-
North Dakota	(X)	(X)	(X)	-	-	-
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	(X)	(X)	(X)	-	-	-
Other States ²	2,000	2,429	1,563	4	17	25
United States	2,090	2,167	2,213	255	234	197
Baby lima						
California	2,210	2,560	3,120	177	253	246
Colorado	(X)	(X)	(X)	-	-	-
Idaho	2,200	(D)	(D)	13	(D)	(D)
Michigan	(X)	(X)	(X)	-	-	-
Minnesota	(D)	(X)	(X)	(D)	-	-
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(X)	(X)	(X)	-	-	-
North Dakota	(X)	(X)	(X)	-	-	-
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	(X)	(X)	(X)	-	-	-
Other States ²	2,800	2,000	2,286	14	22	32
United States	2,242	2,500	2,989	204	275	278
Navy						
California	(X)	(X)	(X)	-	-	-
Colorado	(X)	(X)	(X)	-	-	-
Idaho	2,500	2,920	2,730	48	32	33
Michigan	2,110	2,600	2,150	1,559	1,539	1,170
Minnesota	2,070	2,290	1,950	818	946	733
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	2,010	2,050	1,460	1,648	1,620	1,051
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	2,750	2,290	(D)	30	32	(D)
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States ²	2,417	2,200	2,625	58	22	42
United States	2,072	2,290	1,816	4,161	4,191	3,029

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: 2017-2019 (continued)

Class and State	Area planted			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Great northern						
California	-	-	-	-	-	-
Colorado	0.7	(D)	(D)	0.7	(D)	(D)
Idaho	1.4	1.9	3.7	1.4	1.8	3.5
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	-	(D)	(NA)	-	(D)	(NA)
Nebraska	54.6	41.0	48.0	47.6	39.0	38.4
North Dakota	2.9	(D)	4.4	2.8	(D)	4.3
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	1.0	(D)	0.7	1.0	(D)	0.7
Wyoming	1.5	(D)	1.3	1.5	(D)	1.2
Other States ²	1.3	8.1	4.4	1.3	7.7	4.1
United States	63.4	51.0	62.5	56.3	48.5	52.2
Small white						
California	-	-	-	-	-	-
Colorado	-	(D)	(D)	-	(D)	(D)
Idaho	1.8	(D)	1.2	1.8	(D)	1.1
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	(D)	-	(D)	(D)	-	(D)
North Dakota	-	-	-	-	-	-
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	(D)	1.2	(D)	(D)	1.2	(D)
Wyoming	-	-	-	-	-	-
Other States ²	5.8	5.9	4.0	5.5	5.8	4.0
United States	7.6	7.1	5.2	7.3	7.0	5.1

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: 2017-2019 (continued)

Class and State	Yield per acre ³			Production ³		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Great northern						
California	(X)	(X)	(X)	-	-	-
Colorado	2,150	(D)	(D)	15	(D)	(D)
Idaho	2,420	2,130	2,230	34	38	78
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	(X)	(D)	(NA)	-	(D)	(NA)
Nebraska	2,520	2,500	1,950	1,200	975	749
North Dakota	2,240	(D)	1,840	63	(D)	79
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	2,510	(D)	2,860	25	(D)	20
Wyoming	2,350	(D)	2,180	35	(D)	26
Other States ²	2,385	2,273	2,146	31	175	88
United States	2,492	2,449	1,992	1,403	1,188	1,040
Small white						
California	(X)	(X)	(X)	-	-	-
Colorado	(X)	(D)	(D)	-	(D)	(D)
Idaho	2,240	(D)	1,890	40	(D)	21
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(D)	(X)	(D)	(D)	-	(D)
North Dakota	(X)	(X)	(X)	-	-	-
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	(D)	1,900	(D)	(D)	23	(D)
Wyoming	(X)	(X)	(X)	-	-	-
Other States ²	2,382	2,276	2,100	131	132	84
United States	2,342	2,214	2,059	171	155	105

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: 2017-2019 (continued)

Class and State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Pinto						
California	-	-	-	-	-	-
Colorado	48.0	27.0	25.5	45.5	19.5	23.5
Idaho	32.0	22.0	14.0	31.5	21.7	13.5
Michigan	(D)	(D)	3.5	(D)	(D)	3.3
Minnesota	15.9	8.8	11.4	15.1	8.4	10.9
Montana ¹	6.0	3.0	(NA)	6.0	2.6	(NA)
Nebraska	93.6	65.0	51.0	79.8	59.5	43.1
North Dakota	468.0	320.0	368.0	457.0	313.0	326.0
Texas ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Washington	7.8	8.4	7.0	7.7	8.3	7.0
Wyoming	31.0	23.0	15.0	29.5	21.0	12.5
Other States ²	4.1	3.1	-	4.0	3.1	-
United States	706.4	480.3	495.4	676.1	457.1	439.8
Light red kidney						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	4.0	5.1	5.6	3.5	3.4	4.5
Idaho	1.4	1.0	2.0	1.4	1.0	1.9
Michigan	6.2	6.1	6.6	6.0	6.1	5.5
Minnesota	15.8	14.6	20.1	15.3	14.0	19.2
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	10.5	10.1	11.0	8.8	9.7	7.1
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	1.3	(D)	(D)	1.3	(D)	(D)
Wyoming	-	-	-	-	-	-
Other States ²	0.7	1.5	3.3	0.6	1.5	2.5
United States	39.9	38.4	48.6	36.9	35.7	40.7
Dark red kidney						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	-	(D)	-	-	(D)	-
Idaho	2.0	3.0	3.4	1.9	2.9	3.3
Michigan	(D)	2.7	3.0	(D)	2.7	2.7
Minnesota	44.2	58.5	65.8	42.1	56.3	63.0
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	1.7	1.5	(D)	1.6	1.4	(D)
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	1.8	1.9	(D)	1.8	1.9	(D)
Wyoming	-	(D)	-	-	(D)	-
Other States ²	3.2	2.0	6.1	3.0	1.3	4.2
United States	52.9	69.6	78.3	50.4	66.5	73.2

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: 2017-2019 (continued)

Class and State	Yield per acre ³			Production ³		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Pinto						
California	(X)	(X)	(X)	-	-	-
Colorado	1,900	2,040	1,590	865	398	374
Idaho	2,610	2,630	2,490	822	571	336
Michigan	(D)	(D)	1,640	(D)	(D)	54
Minnesota	1,910	1,980	1,920	288	166	209
Montana ¹	2,500	2,400	(NA)	150	62	(NA)
Nebraska	2,650	2,500	1,960	2,115	1,488	845
North Dakota	1,840	1,710	1,370	8,409	5,352	4,466
Texas ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Washington	2,500	2,500	2,800	193	208	196
Wyoming	2,430	2,290	2,310	717	481	289
Other States ²	1,450	1,677	(X)	58	52	-
United States	2,014	1,920	1,539	13,617	8,778	6,769
Light red kidney						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	2,800	2,720	2,830	98	92	127
Idaho	1,930	2,570	2,250	27	26	43
Michigan	1,490	1,620	1,650	89	99	91
Minnesota	3,040	2,660	2,300	465	372	442
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	2,000	2,760	2,040	176	268	145
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	2,540	(D)	(D)	33	(D)	(D)
Wyoming	(X)	(X)	(X)	-	-	-
Other States ²	1,833	2,667	2,680	11	40	67
United States	2,436	2,513	2,248	899	897	915
Dark red kidney						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	(X)	(D)	(X)	-	(D)	-
Idaho	2,440	2,390	2,170	46	69	72
Michigan	(D)	1,420	1,050	(D)	38	28
Minnesota	2,240	2,530	2,100	943	1,424	1,323
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	1,430	1,690	(D)	23	24	(D)
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	2,520	1,730	(D)	45	33	(D)
Wyoming	(X)	(D)	(X)	-	(D)	-
Other States ²	1,400	2,846	1,571	42	37	66
United States	2,181	2,444	2,034	1,099	1,625	1,489

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: 2017-2019 (continued)

Class and State	Area planted			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Pink						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	-	-	-	-	-	-
Idaho	7.5	7.5	5.1	7.3	7.3	4.9
Michigan	-	(D)	-	-	(D)	-
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	-	-	-	-	-	-
North Dakota	2.7	6.9	8.2	2.6	6.4	8.1
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	1.1	-	(D)	1.1	-	(D)
Wyoming	(D)	-	-	(D)	-	-
Other States ²	3.6	5.6	5.3	3.5	5.4	5.1
United States	14.9	20.0	18.6	14.5	19.1	18.1
Small red						
California	-	-	-	-	-	-
Colorado	1.5	0.9	-	1.4	0.4	-
Idaho	5.5	3.3	3.5	5.3	3.2	3.3
Michigan	5.5	13.3	11.0	5.3	13.1	10.8
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	(D)	(D)	-	(D)	(D)	-
North Dakota	4.4	9.0	11.5	4.2	8.5	8.1
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	2.0	3.8	2.7	2.0	3.8	2.7
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States ²	1.9	2.4	2.2	1.9	2.2	2.1
United States	20.8	32.7	30.9	20.1	31.2	27.0
Cranberry						
California	0.4	0.6	0.3	0.4	0.6	0.3
Colorado	-	-	(D)	-	-	(D)
Idaho	1.0	1.2	1.3	1.0	1.1	1.2
Michigan	3.8	3.9	2.7	3.7	3.9	2.5
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	-	(D)	(NA)	-	(D)	(NA)
Nebraska	(D)	(D)	-	(D)	(D)	-
North Dakota	3.2	2.8	(D)	3.1	2.7	(D)
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	1.1	(D)	1.4	1.1	(D)	1.4
Wyoming	-	-	-	-	-	-
Other States ²	2.1	5.8	4.3	2.0	5.6	3.6
United States	11.6	14.3	10.0	11.3	13.9	9.0

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: 2017-2019 (continued)

Class and State	Yield per acre ³			Production ³		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Pink						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	(X)	(X)	(X)	-	-	-
Idaho	2,690	2,490	2,380	196	182	117
Michigan	(X)	(D)	(X)	-	(D)	-
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(X)	(X)	(X)	-	-	-
North Dakota	1,610	1,790	1,150	42	115	93
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	2,410	(X)	(D)	27	-	(D)
Wyoming	(D)	(X)	(X)	(D)	-	-
Other States ²	1,914	1,870	1,588	67	101	81
United States	2,290	2,084	1,608	332	398	291
Small red						
California	(X)	(X)	(X)	-	-	-
Colorado	2,500	1,680	(X)	35	7	-
Idaho	2,480	2,320	2,190	131	74	72
Michigan	1,700	2,500	2,160	90	328	233
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(D)	(D)	(X)	(D)	(D)	-
North Dakota	2,160	2,000	1,770	91	170	143
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	2,490	2,250	2,520	50	86	68
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States ²	2,158	1,636	2,429	41	36	51
United States	2,179	2,247	2,100	438	701	567
Cranberry						
California	1,000	2,960	2,300	4	18	7
Colorado	(X)	(X)	(D)	-	-	(D)
Idaho	1,760	2,250	2,260	18	25	27
Michigan	1,580	1,560	1,640	58	61	41
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Montana ¹	(X)	(D)	(NA)	-	(D)	(NA)
Nebraska	(D)	(D)	(X)	(D)	(D)	-
North Dakota	1,560	1,350	(D)	48	36	(D)
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	2,230	(D)	2,600	25	(D)	36
Wyoming	(X)	(X)	(X)	-	-	-
Other States ²	1,600	1,857	1,389	32	104	50
United States	1,637	1,755	1,789	185	244	161

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: 2017-2019 (continued)

Class and State	Area planted			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Black						
California	0.2	(D)	(D)	0.2	(D)	(D)
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	4.1	3.5	5.4	4.0	3.4	5.2
Michigan	121.0	100.0	95.0	120.4	99.0	93.0
Minnesota	40.5	42.1	55.1	39.1	40.5	52.7
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	(D)	3.5	(D)	(D)	3.4	(D)
North Dakota	89.0	93.0	130.0	85.0	90.0	121.0
Texas ¹	-	-	(NA)	-	-	(NA)
Washington	2.9	3.9	5.0	2.8	3.8	5.0
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States ²	9.5	3.1	6.2	8.4	2.7	5.2
United States	267.2	249.1	296.7	259.9	242.8	282.1
Blackeye						
California	8.6	6.7	6.2	8.5	6.7	6.2
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	(D)	(D)	(D)	(D)	(D)	(D)
Michigan	-	-	-	-	-	-
Minnesota	-	-	-	-	-	-
Montana ¹	-	-	(NA)	-	-	(NA)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Texas ¹	18.0	16.0	(NA)	17.0	14.0	(NA)
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	-	-	-	-	-	-
Other States ²	3.7	9.9	7.5	3.3	9.2	6.7
United States	30.3	32.6	13.7	28.8	29.9	12.9

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: 2017-2019 (continued)

Class and State	Yield per acre ³			Production ³		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Black						
California	2,500	(D)	(D)	5	(D)	(D)
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	2,700	2,540	2,810	108	86	146
Michigan	2,040	2,440	2,080	2,456	2,416	1,934
Minnesota	2,110	2,310	1,970	825	936	1,038
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(D)	2,860	(D)	(D)	97	(D)
North Dakota	1,700	1,660	1,410	1,445	1,494	1,706
Texas ¹	(X)	(X)	(NA)	-	-	(NA)
Washington	2,950	2,900	2,890	83	110	145
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States ²	2,357	2,704	1,923	198	73	100
United States	1,970	2,147	1,797	5,120	5,212	5,069
Blackeye						
California	2,120	2,460	2,630	180	165	163
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	(D)	(D)	(D)	(D)	(D)	(D)
Michigan	(X)	(X)	(X)	-	-	-
Minnesota	(X)	(X)	(X)	-	-	-
Montana ¹	(X)	(X)	(NA)	-	-	(NA)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Texas ¹	1,100	1,100	(NA)	187	154	(NA)
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	(X)	(X)	(X)	-	-	-
Other States ²	2,121	2,272	1,433	70	209	96
United States	1,517	1,766	2,008	437	528	259

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: 2017-2019 (continued)

Class and State	Area planted			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Small chickpeas ⁴						
California	-	(D)	(D)	-	(D)	(D)
Colorado ¹	-	(D)	(NA)	-	(D)	(NA)
Idaho	46.0	62.0	20.0	45.8	61.7	18.8
Michigan ¹	-	-	(NA)	-	-	(NA)
Minnesota ¹	-	-	(NA)	-	-	(NA)
Montana	(D)	(D)	51.0	(D)	(D)	47.0
Nebraska ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
North Dakota	13.2	18.4	(D)	13.0	17.8	(D)
Texas ¹	-	(D)	(NA)	-	(D)	(NA)
Washington	52.0	70.0	25.0	51.8	69.8	22.5
Wyoming ¹	-	-	(NA)	-	-	(NA)
Other States ²	68.3	75.3	9.0	65.2	73.3	5.0
United States	179.5	225.7	105.0	175.8	222.6	93.3
Large chickpeas ⁵						
California	15.4	(D)	(D)	15.3	(D)	(D)
Colorado ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Idaho	71.0	72.0	68.0	70.5	71.5	67.5
Michigan ¹	-	-	(NA)	-	-	(NA)
Minnesota ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Montana	(D)	(D)	148.0	(D)	(D)	132.0
Nebraska ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
North Dakota	30.6	96.0	(D)	28.7	90.0	(D)
Texas ¹	-	(D)	(NA)	-	(D)	(NA)
Washington	120.0	120.0	85.0	119.5	119.5	84.0
Wyoming ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ²	209.0	349.5	45.4	201.2	342.9	27.2
United States	446.0	637.5	346.4	435.2	623.9	310.7
All chickpeas						
California	15.4	15.1	13.4	15.3	15.0	13.2
Colorado ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Idaho	117.0	134.0	88.0	116.3	133.2	86.3
Michigan ¹	-	-	(NA)	-	-	(NA)
Minnesota ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Montana	269.0	390.0	199.0	259.0	382.0	179.0
Nebraska ¹	(D)	12.7	(NA)	(D)	12.2	(NA)
North Dakota	43.8	114.4	41.0	41.7	107.8	19.0
Texas ⁵	-	(D)	(NA)	-	(D)	(NA)
Washington	172.0	190.0	110.0	171.3	189.3	106.5
Wyoming ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ²	8.3	7.0	-	7.4	7.0	-
United States	625.5	863.2	451.4	611.0	846.5	404.0

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: 2017-2019 (continued)

Class and State	Yield per acre ³			Production ³		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Small chickpeas ⁴						
California	(X)	(D)	(D)	-	(D)	(D)
Colorado ¹	(X)	(D)	(NA)	-	(D)	(NA)
Idaho	1,240	1,550	1,360	568	956	256
Michigan ¹	(X)	(X)	(NA)	-	-	(NA)
Minnesota ¹	(X)	(X)	(NA)	-	-	(NA)
Montana	(D)	(D)	1,370	(D)	(D)	644
Nebraska ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
North Dakota	1,200	1,850	(D)	156	329	(D)
Texas ¹	(X)	(D)	(NA)	-	(D)	(NA)
Washington	1,330	1,730	1,850	689	1,208	416
Wyoming ¹	(X)	(X)	(NA)	-	-	(NA)
Other States ²	853	1,164	2,140	556	853	107
United States	1,120	1,503	1,525	1,969	3,346	1,423
Large chickpeas ⁵						
California	2,130	(D)	(D)	326	(D)	(D)
Colorado ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Idaho	1,040	1,280	1,460	733	915	1,242
Michigan ¹	(X)	(X)	(NA)	-	-	(NA)
Minnesota ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Montana	(D)	(D)	1,410	(D)	(D)	2,505
Nebraska ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
North Dakota	1,310	1,720	(D)	376	1,548	(D)
Texas ¹	(X)	(D)	(NA)	-	(D)	(NA)
Washington	1,350	1,650	1,660	1,613	1,972	1,810
Wyoming ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ²	1,014	1,460	2,107	2,040	5,006	573
United States	1,169	1,513	1,549	5,088	9,441	4,814
All chickpeas						
California	2,130	2,770	2,690	326	415	355
Colorado ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Idaho	1,120	1,400	1,440	1,301	1,871	1,242
Michigan ¹	(X)	(X)	(NA)	-	-	(NA)
Minnesota ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Montana	960	1,350	1,400	2,493	5,138	2,505
Nebraska ¹	(D)	1,950	(NA)	(D)	238	(NA)
North Dakota	1,280	1,740	1,710	532	1,877	325
Texas ¹	(X)	(D)	(NA)	-	(D)	(NA)
Washington	1,340	1,680	1,700	2,302	3,180	1,810
Wyoming ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ²	1,392	971	(X)	103	68	-
United States	1,155	1,511	1,544	7,057	12,787	6,237

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: 2017-2019 (continued)

Class and State	Area planted			Area harvested		
	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)	2017 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Other						
California	4.3	3.8	4.3	4.3	3.8	4.3
Colorado	2.1	2.8	2.2	2.0	2.1	2.2
Idaho	3.5	(D)	5.0	3.4	(D)	4.8
Michigan	3.7	5.2	(D)	3.7	5.2	(D)
Minnesota	3.9	(D)	(D)	3.8	(D)	(D)
Montana ¹	-	(D)	(NA)	-	(D)	(NA)
Nebraska	0.3	(D)	(D)	0.3	(D)	(D)
North Dakota	4.6	(D)	9.6	4.4	(D)	5.5
Texas ¹	2.0	(D)	(NA)	1.0	(D)	(NA)
Washington	2.0	1.9	1.6	1.9	1.8	1.6
Wyoming	3.5	(D)	(D)	3.2	(D)	(D)
Other States ²	-	13.1	14.1	-	12.3	13.0
United States	29.9	26.8	36.8	28.0	25.2	31.4

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: 2017-2019 (continued)

Class and State	Yield per acre ³			Production ³		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Other						
California	2,000	2,170	2,570	86	82	111
Colorado	2,900	2,800	2,620	58	59	58
Idaho	2,530	(D)	1,990	86	(D)	96
Michigan	1,430	1,600	(D)	53	83	(D)
Minnesota	2,000	(D)	(D)	76	(D)	(D)
Montana ¹	(X)	(D)	(NA)	-	(D)	(NA)
Nebraska	1,670	(D)	(D)	5	(D)	(D)
North Dakota	1,840	(D)	1,570	81	(D)	86
Texas ¹	1,100	(D)	(NA)	11	(D)	(NA)
Washington	2,320	2,620	2,690	44	47	43
Wyoming	2,590	(D)	(D)	83	(D)	(D)
Other States ²	(X)	2,122	1,908	-	261	248
United States	2,082	2,111	2,045	583	532	642

- Represents zero.

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

(NA) Not available.

(X) Not applicable.

¹ Estimates discontinued in 2019.

² Includes data withheld above.

³ Clean basis.

⁴ Chickpeas 20/64 inches or smaller.

⁵ Chickpeas larger than 20/64 inches.

Lentil Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	36.0	35.0	34.0	35.0	34.0	33.0
Montana	730.0	500.0	295.0	670.0	450.0	255.0
North Dakota	270.0	185.0	95.0	250.0	175.0	81.0
Washington	68.0	60.0	62.0	67.0	59.0	62.0
United States	1,104.0	780.0	486.0	1,022.0	718.0	431.0
State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	900	1,300	1,100	315	442	363
Montana	650	1,080	1,290	4,355	4,860	3,290
North Dakota	870	1,370	1,300	2,175	2,398	1,053
Washington	950	1,200	1,100	637	708	682
United States	732	1,171	1,250	7,482	8,408	5,388

Wrinkled Seed Pea Production – States and United States: 2017-2019

[Beginning in 2019, wrinkled seed pea production is included in dry edible peas]

State	Production		
	2017	2018	2019
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	108	116	(NA)
Washington	249	273	(NA)
United States	357	389	(NA)

(NA) Not available.

Chickpea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

Size and State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Small ¹						
California	-	(D)	(D)	-	(D)	(D)
Colorado ⁵	-	(D)	(NA)	-	(D)	(NA)
Idaho	46.0	62.0	20.0	45.8	61.7	18.8
Michigan ⁵	-	-	(NA)	-	-	(NA)
Minnesota ⁵	-	-	(NA)	-	-	(NA)
Montana	(D)	(D)	51.0	(D)	(D)	47.0
Nebraska ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
North Dakota	13.2	18.4	(D)	13.0	17.8	(D)
Texas ⁵	-	(D)	(NA)	-	(D)	(NA)
Washington	52.0	70.0	25.0	51.8	69.8	22.5
Wyoming ⁵	-	-	(NA)	-	-	(NA)
Other States ⁴	68.3	75.3	9.0	65.2	73.3	5.0
United States	179.5	225.7	105.0	175.8	222.6	93.3
Large ²						
California	15.4	(D)	(D)	15.3	(D)	(D)
Colorado ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Idaho	71.0	72.0	68.0	70.5	71.5	67.5
Michigan ⁵	-	-	(NA)	-	-	(NA)
Minnesota ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Montana	(D)	(D)	148.0	(D)	(D)	132.0
Nebraska ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
North Dakota	30.6	96.0	(D)	28.7	90.0	(D)
Texas ⁵	-	(D)	(NA)	-	(D)	(NA)
Washington	120.0	120.0	85.0	119.5	119.5	84.0
Wyoming ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ⁴	209.0	349.5	45.4	201.2	342.9	27.2
United States	446.0	637.5	346.4	435.2	623.9	310.7
All						
California	15.4	15.1	13.4	15.3	15.0	13.2
Colorado ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Idaho	117.0	134.0	88.0	116.3	133.2	86.3
Michigan ⁵	-	-	(NA)	-	-	(NA)
Minnesota ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Montana	269.0	390.0	199.0	259.0	382.0	179.0
Nebraska ⁵	(D)	12.7	(NA)	(D)	12.2	(NA)
North Dakota	43.8	114.4	41.0	41.7	107.8	19.0
Texas ⁵	-	(D)	(NA)	-	(D)	(NA)
Washington	172.0	190.0	110.0	171.3	189.3	106.5
Wyoming ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ⁴	8.3	7.0	-	7.4	7.0	-
United States	625.5	863.2	451.4	611.0	846.5	404.0

See footnote(s) at end of table.

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**Chickpea Area Planted and Harvested, Yield, and Production – States and United States:
2017-2019 (continued)**

Size and State	Yield per acre ³			Production ³		
	2017 (pounds)	2018 (pounds)	2019 (pounds)	2017 (1,000 cwt)	2018 (1,000 cwt)	2019 (1,000 cwt)
Small ¹						
California	(X)	(D)	(D)	-	(D)	(D)
Colorado ⁵	(X)	(D)	(NA)	-	(D)	(NA)
Idaho	1,240	1,550	1,360	568	956	256
Michigan ⁵	(X)	(X)	(NA)	-	-	(NA)
Minnesota ⁵	(X)	(X)	(NA)	-	-	(NA)
Montana	(D)	(D)	1,370	(D)	(D)	644
Nebraska ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
North Dakota	1,200	1,850	(D)	156	329	(D)
Texas ⁵	(X)	(D)	(NA)	-	(D)	(NA)
Washington	1,330	1,730	1,850	689	1,208	416
Wyoming ⁵	(X)	(X)	(NA)	-	-	(NA)
Other States ⁴	853	1,164	2,140	556	853	107
United States	1,120	1,503	1,525	1,969	3,346	1,423
Large ²						
California	2,130	(D)	(D)	326	(D)	(D)
Colorado ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Idaho	1,040	1,280	1,460	733	915	986
Michigan ⁵	(X)	(X)	(NA)	-	-	(NA)
Minnesota ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Montana	(D)	(D)	1,410	(D)	(D)	1,861
Nebraska ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
North Dakota	1,310	1,720	(D)	376	1,548	(D)
Texas ⁵	(X)	(D)	(NA)	-	(D)	(NA)
Washington	1,350	1,650	1,660	1,613	1,972	1,394
Wyoming ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ⁴	1,014	1,460	2,107	2,040	5,006	573
United States	1,169	1,513	1,549	5,088	9,441	4,814
All						
California	2,130	2,770	2,690	326	415	355
Colorado ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Idaho	1,120	1,400	1,440	1,301	1,871	1,242
Michigan ⁵	(X)	(X)	(NA)	-	-	(NA)
Minnesota ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Montana	960	1,350	1,400	2,493	5,138	2,505
Nebraska ⁵	(D)	1,950	(NA)	(D)	238	(NA)
North Dakota	1,280	1,740	1,710	532	1,877	325
Texas ⁵	(X)	(D)	(NA)	-	(D)	(NA)
Washington	1,340	1,680	1,700	2,302	3,180	1,810
Wyoming ⁵	(D)	(D)	(NA)	(D)	(D)	(NA)
Other States ⁴	1,392	971	(X)	103	68	-
United States	1,155	1,511	1,544	7,057	12,787	6,237

- Represents zero.

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

(NA) Not available.

(X) Not applicable.

¹ Chickpeas 20/64 inches or smaller.

² Chickpeas larger than 20/64 inches.

³ Clean basis.

⁴ Includes data withheld above.

⁵ Estimates discontinued in 2019.

Dry Edible Pea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Beginning in 2019, wrinkled seed peas and Austrian winter peas included]

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	14.0	8.0	29.0	14.0	7.6	27.0
Montana	525.0	335.0	530.0	470.0	310.0	500.0
Nebraska	58.0	58.0	31.0	56.0	49.0	29.0
North Dakota	425.0	375.0	425.0	410.0	365.0	410.0
Oregon ¹	7.0	6.5	(NA)	6.5	6.3	(NA)
South Dakota	38.0	22.0	16.0	35.0	19.0	15.0
Washington	61.0	52.0	72.0	60.0	51.0	71.0
United States	1,128.0	856.5	1,103.0	1,051.5	807.9	1,052.0

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	1,800	2,300	1,900	252	175	513
Montana	820	1,620	2,030	3,854	5,022	10,150
Nebraska	1,420	1,840	2,300	795	902	667
North Dakota	1,800	2,200	2,260	7,380	8,030	9,266
Oregon ¹	2,900	2,000	(NA)	189	126	(NA)
South Dakota	1,500	2,100	2,200	525	399	330
Washington	2,000	2,500	2,000	1,200	1,275	1,420
United States	1,350	1,972	2,124	14,195	15,929	22,346

(NA) Not available.

¹ Estimates discontinued in 2019.

Austrian Winter Pea Area Planted and Harvested, Yield, and Production – States and United States: 2017-2019

[Beginning in 2019, Austrian winter peas are included in dry edible peas]

State	Area planted			Area harvested		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	3.0	1.4	(NA)	2.0	0.8	(NA)
Montana	20.0	12.0	(NA)	4.0	8.0	(NA)
Oregon	2.5	3.0	(NA)	2.0	2.1	(NA)
United States	25.5	16.4	(NA)	8.0	10.9	(NA)

State	Yield per acre			Production		
	2017	2018	2019	2017	2018	2019
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	1,300	1,300	(NA)	26	10	(NA)
Montana	710	950	(NA)	28	76	(NA)
Oregon	2,300	1,800	(NA)	46	38	(NA)
United States	1,250	1,138	(NA)	100	124	(NA)

(NA) Not available.

Hop Area Harvested, Yield, and Production by Variety – States and United States: 2017-2019

State and variety	Area harvested			Yield per acre		
	2017	2018	2019	2017	2018	2019
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)
Idaho						
Amarillo [®] , VGXP01	983	825	561	1,569	2,009	1,560
Apollo [™]	228	232	(D)	1,798	1,951	(D)
Bravo [™]	149	87	(D)	2,799	2,226	(D)
Calypso [™]	81	81	81	2,159	2,138	1,901
Cascade	882	836	710	1,771	1,716	1,823
Centennial	255	(D)	(D)	2,028	(D)	(D)
Chinook	699	962	786	1,665	1,873	2,215
Citra [®] , HBC 394	759	855	973	1,657	1,438	1,532
Cluster	(D)	63	(D)	(D)	2,126	(D)
C/T/Z [®]	(D)	(D)	991	(D)	(D)	3,002
Comet	(D)	(D)	112	(D)	(D)	1,970
Crystal	182	150	131	2,084	1,927	1,971
El Dorado [®]	219	120	352	2,163	1,463	1,352
Eureka [™]	(D)	133	185	(D)	2,299	2,243
Galena	(D)	109	113	(D)	1,715	1,773
Hallertauer	(D)	(D)	(D)	(D)	(D)	(D)
Idaho 7 [™]	(D)	(D)	388	(D)	(D)	2,562
Mosaic [®] , HBC 369	500	506	801	2,581	2,333	2,296
Northern Brewer	(D)	(D)	(D)	(D)	(D)	(D)
Saaz	(D)	(D)	140	(D)	(D)	771
Simcoe [®] , YCR 14	394	449	469	1,494	1,245	1,164
Super Galena [™]	(D)	84	(D)	(D)	2,493	(D)
Willamette	128	(D)	170	1,689	(D)	1,695
Zeus	1,061	1,496	611	2,756	2,764	2,672
Experimental	26	(D)	(D)	611	(D)	(D)
Other varieties ¹	579	1,152	784	1,959	1,845	1,907
Total	7,125	8,140	8,358	1,974	1,995	2,034
Oregon						
Amarillo [®] , VGXP01	(D)	(D)	212	(D)	(D)	2,312
Cascade	1,247	1,064	1,039	1,425	1,623	1,620
Centennial	789	698	614	1,273	1,277	1,661
Chinook	124	129	114	1,667	1,674	1,733
Citra [®] , HBC 394	766	690	998	1,475	1,600	1,476
Crystal	407	354	247	1,772	1,819	1,943
Fuggle	86	59	63	1,251	1,034	1,243
Golding	215	121	92	1,181	1,160	1,351
Magnum	47	105	(D)	1,714	1,284	(D)
Meridian	(NA)	(D)	(D)	(NA)	(D)	(D)
Mosaic [®] , HBC 369	337	(D)	478	1,875	(D)	2,113
Mt. Hood	318	311	295	1,439	1,411	1,538
Nugget	1,467	1,307	1,059	1,820	1,946	2,130
Perle	76	77	(D)	1,164	1,093	(D)
Simcoe [®] , YCR 14	461	436	440	1,421	1,588	1,845
Sterling	227	191	147	1,407	1,760	1,643
Strata [™] OR 91331	(NA)	(NA)	253	(NA)	(NA)	2,066
Super Galena [™]	67	84	78	2,096	2,216	2,580
Tettnanger	72	72	(D)	1,013	1,027	(D)
Willamette	892	913	619	1,324	1,489	1,717
Experimental	(D)	(D)	(D)	(D)	(D)	(D)
Other varieties ¹	618	1,114	558	1,573	2,068	1,644
Total	8,216	7,725	7,306	1,518	1,675	1,783

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:
2017-2019 (continued)**

State and variety	Production		
	2017 (1,000 pounds)	2018 (1,000 pounds)	2019 (1,000 pounds)
Idaho			
Amarillo ^R , VGXP01	1,542.3	1,657.4	875.2
Apollo TM	409.9	452.6	(D)
Bravo TM	417.1	193.7	(D)
Calypso TM	174.9	173.2	154.0
Cascade	1,562.0	1,434.6	1,294.3
Centennial	517.1	(D)	(D)
Chinook	1,163.8	1,801.8	1,741.0
Citra ^R , HBC 394	1,257.7	1,229.5	1,490.6
Cluster	(D)	133.9	(D)
C/T/Z ^R	(D)	(D)	2,975.0
Comet	(D)	(D)	220.6
Crystal	379.3	289.1	258.2
El Dorado ^R	473.7	175.6	475.9
Eureka TM	(D)	305.8	415.0
Galena	(D)	186.9	200.3
Hallertauer	(D)	(D)	(D)
Idaho 7 TM	(D)	(D)	994.1
Mosaic ^R , HBC 369	1,290.5	1,180.5	1,839.1
Northern Brewer	(D)	(D)	(D)
Saaz	(D)	(D)	107.9
Simcoe ^R , YCR 14	588.6	559.0	545.9
Super Galena TM	(D)	209.4	(D)
Willamette	216.2	(D)	288.2
Zeus	2,924.1	4,134.9	1,632.6
Experimental	15.9	(D)	(D)
Other varieties ¹	1,134.2	2,124.9	1,495.2
Total	14,067.3	16,242.8	17,003.1
Oregon			
Amarillo ^R , VGXP01	(D)	(D)	490.1
Cascade	1,777.0	1,726.9	1,683.2
Centennial	1,004.4	891.3	1,019.9
Chinook	206.7	215.9	197.6
Citra ^R , HBC 394	1,129.9	1,104.0	1,473.0
Crystal	721.2	643.9	479.9
Fuggle	107.6	61.0	78.3
Golding	253.9	140.4	124.3
Magnum	80.6	134.8	(D)
Meridian	(NA)	(D)	(D)
Mosaic ^R , HBC 369	631.9	(D)	1,010.0
Mt. Hood	457.6	438.8	453.7
Nugget	2,669.9	2,543.4	2,255.7
Perle	88.5	84.2	(D)
Simcoe ^R , YCR 14	655.1	692.4	811.8
Sterling	319.4	336.2	241.5
Strata TM OR 91331	(NA)	(NA)	522.7
Super Galena TM	140.4	186.1	201.2
Tettnanger	72.9	73.9	(D)
Willamette	1,181.0	1,359.5	1,062.8
Experimental	(D)	(D)	(D)
Other varieties ¹	972.4	2,303.5	917.5
Total	12,470.4	12,936.2	13,023.2

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:
2017-2019 (continued)**

State and variety	Area harvested			Yield per acre		
	2017 (acres)	2018 (acres)	2019 (acres)	2017 (pounds)	2018 (pounds)	2019 (pounds)
Washington						
Ahtanum™, YCR 1	371	255	261	1,052	2,730	2,820
Amarillo ^R , VGXP01	1,984	1,895	1,597	1,687	1,868	1,946
Apollo™	684	795	851	2,729	2,848	2,735
Azacca™, ADHA-483	578	546	589	2,463	2,491	2,441
Bravo™	486	280	236	2,973	3,258	3,216
Cascade	4,966	4,274	3,718	2,124	1,972	1,920
Cashmere	(D)	195	310	(D)	1,519	1,699
Centennial	4,375	3,875	3,031	1,703	1,364	1,820
Chinook	1,632	1,734	1,437	1,784	1,875	1,942
Citra ^R , HBC 394	3,715	4,837	6,720	1,748	1,611	1,424
Cluster	621	610	470	1,937	1,813	1,815
C/T/Z ^R	1,659	2,034	2,323	2,646	2,482	2,584
Comet	205	218	210	1,855	1,750	1,311
Crystal	122	114	66	2,063	2,357	1,989
Ekuanot™, HBC 366	890	865	632	2,740	2,583	2,483
El Dorado ^R	463	418	641	1,946	1,880	2,032
Eureka™	362	409	425	2,244	2,954	3,188
Galena	378	390	297	2,134	2,149	2,045
Glacier	(D)	(D)	(D)	(D)	(D)	(D)
Idaho 7™	(D)	(D)	85	(D)	(D)	1,544
Jarrylo™, ADHA-881	(D)	(D)	(D)	(D)	(D)	(D)
Loral™, HBC 291	186	172	125	2,295	2,349	2,515
Mosaic ^R , HBC 369	1,877	1,932	2,829	2,439	2,351	2,054
Mt. Hood	87	104	53	1,043	1,454	1,037
Mt. Rainier	(D)	306	239	(D)	1,899	2,149
Nugget	125	126	104	1,950	1,498	2,313
Pahto™, HBC 682	(NA)	1,721	2,109	(NA)	2,087	2,398
Palisade ^R , YCR 4	571	515	477	2,209	2,441	2,520
Pekko™, ADHA-871	(D)	92	(D)	(D)	1,889	(D)
Sabro™, HBC 438	(NA)	(NA)	724	(NA)	(NA)	1,612
Simcoe ^R , YCR 14	3,753	3,103	3,367	1,792	1,642	1,788
Sorachi Ace	(D)	146	(D)	(D)	1,042	(D)
Summit™	1,617	1,574	1,072	2,067	1,826	1,816
Super Galena™	435	500	473	2,647	3,133	2,871
Tahoma	217	209	230	1,752	2,147	1,958
Tettnanger	38	(D)	(D)	1,202	(D)	(D)
Willamette	571	376	270	1,446	1,348	1,596
Zeus	2,214	2,592	2,612	3,088	2,619	2,620
Experimental	421	374	360	1,901	1,889	2,251
Other varieties ¹	3,045	1,584	1,937	1,746	1,896	1,888
Total	38,648	39,170	40,880	2,046	1,984	2,006
United States²	53,989	55,035	56,544	1,956	1,943	1,981

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:
2017-2019 (continued)**

State and variety	Production		
	2017 (1,000 pounds)	2018 (1,000 pounds)	2019 (1,000 pounds)
Washington			
Ahtanum TM , YCR 1	390.3	696.2	736.0
Amarillo ^R , VGXP01	3,347.0	3,539.9	3,107.8
Apollo TM	1,866.6	2,264.2	2,327.5
Azacca TM , ADHA-483	1,423.6	1,360.1	1,437.7
Bravo TM	1,444.9	912.2	759.0
Cascade	10,547.8	8,428.3	7,138.6
Cashmere	(D)	296.2	526.7
Centennial	7,450.6	5,285.5	5,516.4
Chinook	2,911.5	3,251.3	2,790.7
Citra ^R , HBC 394	6,493.8	7,792.4	9,569.3
Cluster	1,202.9	1,105.9	853.1
C/T/Z ^R	4,389.7	5,048.4	6,002.6
Comet	380.3	381.5	275.3
Crystal	251.7	268.7	131.3
Ekuanot TM , HBC 366	2,438.6	2,234.3	1,569.3
El Dorado ^R	901.0	785.8	1,302.5
Eureka TM	812.3	1,208.2	1,354.9
Galena	806.7	838.1	607.4
Glacier	(D)	(D)	(D)
Idaho 7 TM	(D)	(D)	131.2
Jarrylo TM , ADHA-881	(D)	(D)	(D)
Loral TM , HBC 291	426.9	404.0	314.4
Mosaic ^R , HBC 369	4,578.0	4,542.1	5,810.8
Mt. Hood	90.7	151.2	55.0
Mt. Rainier	(D)	581.1	513.6
Nugget	243.8	188.7	240.6
Pahto TM , HBC 682	(NA)	3,591.7	5,057.4
Palisade ^R , YCR 4	1,261.3	1,257.1	1,202.0
Pekko TM , ADHA-871	(D)	173.8	(D)
Sabro TM , HBC 438	(NA)	(NA)	1,167.1
Simcoe ^R , YCR 14	6,725.4	5,095.1	6,020.2
Sorachi Ace	(D)	152.1	(D)
Summit TM	3,342.3	2,874.1	1,946.8
Super Galena TM	1,151.4	1,566.5	1,358.0
Tahoma	380.2	448.7	450.3
Tettnanger	45.7	(D)	(D)
Willamette	825.7	506.8	430.9
Zeus	6,836.8	6,788.4	6,843.4
Experimental	800.3	706.5	810.4
Other varieties ¹	5,316.0	3,002.6	3,656.7
Total	79,083.8	77,727.7	82,014.9
United States²	105,621.5	106,906.7	112,041.2

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

(NA) Not available.

^R Registered

TM Trademark

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

² Includes 532 acres of organic hops for 2019 with yield equal to 1,255 pounds per acre and production at 667,660 pounds.

Mint for Oil Area Harvested, Yield, and Production by Crop – States and United States: 2017-2019

Crop, State, and variety	Area harvested			Yield per acre		
	2017	2018	2019	2017	2018	2019
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)
Peppermint						
California ¹	1.5	1.6	(NA)	82	85	(NA)
Idaho	18.0	17.0	17.0	105	105	120
Indiana	8.5	7.0	6.4	45	50	48
Oregon	18.0	19.0	19.0	95	85	95
Washington	12.0	11.0	10.0	120	120	130
Wisconsin ¹	2.8	2.9	(NA)	73	59	(NA)
United States	60.8	58.5	52.4	95	92	104
Spearmint						
Idaho	(D)	(D)	1.1	(D)	(D)	140
Indiana	3.1	2.8	3.9	54	77	72
Michigan ¹	(D)	(D)	(NA)	(D)	(D)	(NA)
Oregon	2.5	2.5	2.5	105	125	125
Washington	14.0	12.3	11.0	150	142	151
Native	8.0	7.9	(D)	165	160	(D)
Scotch	6.0	4.4	(D)	130	110	(D)
Other States ²	2.7	3.2	-	99	92	(X)
United States	22.3	20.8	18.5	125	124	130
Crop, State, and variety	Production					
	2017	2018	2019			
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)			
Peppermint						
California ¹		123		136		(NA)
Idaho		1,890		1,785		2,040
Indiana		383		350		307
Oregon		1,710		1,615		1,805
Washington		1,440		1,320		1,300
Wisconsin ¹		204		171		(NA)
United States		5,750		5,377		5,452
Spearmint						
Idaho		(D)		(D)		154
Indiana		167		216		281
Michigan ¹		(D)		(D)		(NA)
Oregon		263		313		313
Washington		2,100		1,748		1,665
Native		1,320		1,264		(D)
Scotch		780		484		(D)
Other States ²		266		294		-
United States		2,796		2,571		2,413

- Represents zero.

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

(NA) Not available.

(X) Not applicable.

¹ Estimates discontinued in 2019.

² Includes data withheld above.

Maple Syrup Taps, Yield, and Production – States and United States: 2017-2019

[Estimates for 2019 are carried forward from the June 2019 *Crop Production*. Any revisions will appear in the June 2020 *Crop Production*]

State	Number of taps			Yield per tap			Production		
	2017	2018	2019	2017	2018	2019	2017	2018	2019
	(1,000 taps)	(1,000 taps)	(1,000 taps)	(gallons)	(gallons)	(gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Connecticut ¹	78	73	(NA)	0.231	0.247	(NA)	18	18	(NA)
Indiana ¹	70	70	(NA)	0.200	0.257	(NA)	14	18	(NA)
Maine	1,900	1,870	1,900	0.376	0.288	0.305	715	539	580
Massachusetts ¹	320	320	(NA)	0.263	0.225	(NA)	84	72	(NA)
Michigan	600	600	620	0.250	0.275	0.315	150	165	195
Minnesota ¹	83	65	(NA)	0.205	0.200	(NA)	17	13	(NA)
New Hampshire	570	560	540	0.281	0.291	0.274	160	163	148
New York	2,650	2,730	2,800	0.287	0.295	0.293	760	806	820
Ohio ¹	420	400	(NA)	0.200	0.225	(NA)	84	90	(NA)
Pennsylvania	780	670	680	0.212	0.212	0.231	165	142	157
Vermont	5,900	5,670	6,000	0.339	0.342	0.345	2,000	1,940	2,070
West Virginia ¹	70	66	(NA)	0.157	0.121	(NA)	11	8	(NA)
Wisconsin	760	750	800	0.272	0.300	0.338	207	225	270
United States	14,201	13,844	13,340	0.309	0.303	0.318	4,385	4,199	4,240

(NA) Not available.

¹ Estimates discontinued in 2019.

Taro Area Harvested, Yield, and Production – State and United States: 2017-2019

[Estimates discontinued beginning in 2019]

State	Area harvested			Yield per acre			Production		
	2017	2018	2019	2017	2018	2019	2017	2018	2019
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Hawaii	350	310	(NA)	10,530	9,630	(NA)	3,686	2,985	(NA)
United States	350	310	(NA)	10,530	9,630	(NA)	3,686	2,985	(NA)

(NA) Not available.

Alaska Area Planted and Harvested, Yield, and Production: 2017-2019

[Estimates are provided to meet special needs of crop and livestock production statistics users]

Crop	Area planted for all purposes			Area harvested		
	2017	2018 ¹	2019 ¹	2017	2018 ¹	2019 ¹
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Barley	5,500	5,000	6,000	5,200	4,000	5,000
Hay, all	(NA)	(NA)	(NA)	21,000	22,000	22,000
Oats ²	1,700	(NA)	(NA)	900	(NA)	(NA)
Potatoes ³	560	500	(NA)	540	500	(NA)

Crop	Yield per acre			Production		
	2017	2018 ¹	2019 ¹	2017	2018 ¹	2019 ¹
Barley	46.0	43.0	38.0	239,000	172,000	190,000
Hay, all	1.20	1.30	1.30	25,000	29,000	29,000
Oats ²	73.0	(NA)	(NA)	66,000	(NA)	(NA)
Potatoes ³	270	280	(NA)	146,000	140,000	(NA)

(NA) Not available.

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

² Estimates discontinued in 2018.

³ Estimates discontinued in 2019.

Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year]

Crop	Area planted		Area harvested	
	2018 (1,000 acres)	2019 (1,000 acres)	2018 (1,000 acres)	2019 (1,000 acres)
Grains and hay				
Barley	2,548	2,721	1,982	2,182
Corn for grain ¹	88,871	89,700	81,276	81,482
Corn for silage	(NA)	(NA)	6,120	6,587
Hay, all	(NA)	(NA)	52,839	52,425
Alfalfa	(NA)	(NA)	16,608	16,743
All other	(NA)	(NA)	36,231	35,682
Oats	2,746	2,810	865	826
Proso millet	443	506	390	465
Rice	2,946	2,540	2,910	2,472
Rye	2,011	1,865	273	310
Sorghum for grain ¹	5,690	5,265	5,061	4,675
Sorghum for silage	(NA)	(NA)	264	339
Wheat, all	47,815	45,158	39,612	37,162
Winter	32,542	31,159	24,742	24,327
Durum	2,073	1,339	1,974	1,175
Other spring	13,200	12,660	12,896	11,660
Oilseeds				
Canola	1,990.7	2,040.0	1,942.5	1,910.0
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	208	374	198	319
Mustard seed	102.5	98.0	97.8	90.0
Peanuts	1,425.5	1,427.7	1,373.5	1,391.7
Rapeseed	5.7	11.3	5.4	10.4
Safflower	167.5	165.8	156.3	152.7
Soybeans for beans	89,167	76,100	87,594	75,021
Sunflower	1,301.0	1,350.6	1,217.4	1,244.5
Cotton, tobacco, and sugar crops				
Cotton, all	14,100.3	13,737.8	10,205.8	11,804.5
Upland	13,850.0	13,508.0	9,957.0	11,580.0
American Pima	250.3	229.8	248.8	224.5
Sugarbeets	1,113.1	1,132.0	1,096.4	979.3
Sugarcane	(NA)	(NA)	899.7	912.0
Tobacco	(NA)	(NA)	291.4	227.1
Dry beans, peas, and lentils				
Austrian winter peas ²	16.4	(NA)	10.9	(NA)
Chickpeas ³	863.2	451.4	846.5	404.0
Dry edible beans ³	2,094.5	1,287.4	2,028.2	1,176.5
Dry edible peas ²	856.5	1,103.0	807.9	1,052.0
Lentils	780.0	486.0	718.0	431.0
Wrinkled seed peas ²	(NA)	(NA)	(NA)	(NA)
Potatoes and miscellaneous				
Hops	(NA)	(NA)	55.0	56.5
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)	(NA)	58.5	52.4
Potatoes	1,026.5	968.3	1,014.8	942.2
Spearmint oil	(NA)	(NA)	20.8	18.5
Taro (Hawaii) ⁴	(NA)	(NA)	0.3	(NA)

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States:
2018 and 2019 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year]

Crop	Yield per acre		Production	
	2018	2019	2018 (1,000)	2019 (1,000)
Grains and hay				
Barleybushels	77.5	77.7	153,527	169,566
Corn for grainbushels	176.4	168.0	14,340,369	13,691,561
Corn for silage tons	19.9	20.2	121,564	132,807
Hay, all tons	2.34	2.46	123,600	128,864
Alfalfa tons	3.17	3.28	52,634	54,875
All other tons	1.96	2.07	70,966	73,989
Oatsbushels	64.9	64.3	56,130	53,148
Proso milletbushels	29.7	35.7	11,595	16,608
Rice ⁵ cwt	7,692	7,471	223,833	184,675
Ryebushels	30.9	34.3	8,432	10,622
Sorghum for grainbushels	72.1	73.0	364,986	341,460
Sorghum for silage tons	12.6	11.9	3,326	4,019
Wheat, allbushels	47.6	51.7	1,885,156	1,920,139
Winterbushels	47.9	53.6	1,183,939	1,304,003
Durumbushels	39.5	45.7	77,985	53,756
Other springbushels	48.3	48.2	623,232	562,380
Oilseeds				
Canola pounds	1,861	1,781	3,615,440	3,402,000
Cottonseed tons	(X)	(X)	5,631.0	6,232.0
Flaxseedbushels	22.6	20.0	4,466	6,395
Mustard seed pounds	749	706	73,297	63,580
Peanuts pounds	4,001	3,949	5,495,935	5,496,087
Rapeseed pounds	1,524	2,160	8,230	22,464
Safflower pounds	1,512	1,272	236,270	194,295
Soybeans for beansbushels	50.6	47.4	4,428,150	3,558,281
Sunflower pounds	1,731	1,562	2,107,045	1,943,435
Cotton, tobacco, and sugar crops				
Cotton, all ⁵ bales	864	817	18,367.0	20,102.0
Upland ⁵ bales	847	803	17,566.0	19,380.0
American Pima ⁵ bales	1,545	1,544	801.0	722.0
Sugarbeets tons	30.4	29.2	33,282	28,600
Sugarcane tons	38.4	34.9	34,542	31,798
Tobacco pounds	1,830	2,060	533,241	467,956
Dry beans, peas, and lentils				
Austrian winter peas ^{2 5} cwt	1,138	(NA)	124	(NA)
Chickpeas ^{3 5} cwt	1,511	1,544	12,787	6,237
Dry edible beans ^{3 5} cwt	1,861	1,769	37,745	20,811
Dry edible peas ^{2 5} cwt	1,972	2,124	15,929	22,346
Lentils ⁵ cwt	1,171	1,250	8,408	5,388
Wrinkled seed peas ² cwt	(NA)	(NA)	389	(NA)
Potatoes and miscellaneous				
Hops pounds	1,943	1,981	106,906.7	112,041.2
Maple syrupgallons	(NA)	(NA)	4,199	4,240
Mushrooms pounds	(NA)	(NA)	917,235	846,491
Peppermint oil pounds	92	104	5,377	5,452
Potatoes cwt	443	449	450,020	422,890
Spearmint oil pounds	124	130	2,571	2,413
Taro (Hawaii) ⁴ pounds	9,630	(NA)	2,985	(NA)

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Beginning in 2019, Austrian winter peas and wrinkled seed peas are included in dry edible peas.

³ Beginning in 2019, chickpeas are excluded from dry edible beans.

⁴ Estimates discontinued in 2019.

⁵ Yield in pounds.

Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2018 and 2019

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year]

Crop	Area planted		Area harvested	
	2018 (hectares)	2019 (hectares)	2018 (hectares)	2019 (hectares)
Grains and hay				
Barley	1,031,150	1,101,160	802,100	883,030
Corn for grain ¹	35,965,200	36,300,690	32,891,580	32,974,950
Corn for silage	(NA)	(NA)	2,476,700	2,665,690
Hay, all ²	(NA)	(NA)	21,383,410	21,215,870
Alfalfa	(NA)	(NA)	6,721,090	6,775,720
All other	(NA)	(NA)	14,662,320	14,440,150
Oats	1,111,280	1,137,180	350,060	334,270
Proso millet	179,280	204,770	157,830	188,180
Rice	1,192,220	1,027,910	1,177,650	1,000,390
Rye	813,830	754,750	110,480	125,450
Sorghum for grain ¹	2,302,690	2,130,690	2,048,140	1,891,930
Sorghum for silage	(NA)	(NA)	106,840	137,190
Wheat, all ²	19,350,250	18,274,990	16,030,580	15,039,090
Winter	13,169,420	12,609,740	10,012,840	9,844,890
Durum	838,920	541,880	798,860	475,510
Other spring	5,341,910	5,123,380	5,218,880	4,718,690
Oilseeds				
Canola	805,620	825,570	786,110	772,960
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	84,180	151,350	80,130	129,100
Mustard seed	41,480	39,660	39,580	36,420
Peanuts	576,890	577,780	555,840	563,210
Rapeseed	2,310	4,570	2,190	4,210
Safflower	67,790	67,100	63,250	61,800
Soybeans for beans	36,084,990	30,796,910	35,448,420	30,360,250
Sunflower	526,500	546,570	492,670	503,640
Cotton, tobacco, and sugar crops				
Cotton, all ²	5,706,250	5,559,550	4,130,190	4,777,160
Upland	5,604,960	5,466,550	4,029,500	4,686,310
American Pima	101,290	93,000	100,690	90,850
Sugarbeets	450,460	458,110	443,700	396,310
Sugarcane	(NA)	(NA)	364,100	369,080
Tobacco	(NA)	(NA)	117,940	91,910
Dry beans, peas, and lentils				
Austrian winter peas ³	6,640	(NA)	4,410	(NA)
Chickpeas ⁴	349,330	182,680	342,570	163,490
Dry edible beans ⁴	847,620	521,000	820,790	476,120
Dry edible peas ³	346,620	446,370	326,950	425,730
Lentils	315,660	196,680	290,570	174,420
Wrinkled seed peas ³	(NA)	(NA)	(NA)	(NA)
Potatoes and miscellaneous				
Hops	(NA)	(NA)	22,270	22,880
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)	(NA)	23,670	21,210
Potatoes	415,410	391,860	410,680	381,300
Spearmint oil	(NA)	(NA)	8,420	7,490
Taro (Hawaii) ⁵	(NA)	(NA)	130	(NA)

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States:
2018 and 2019 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2019 crop year]

Crop	Yield per hectare		Production	
	2018 (metric tons)	2019 (metric tons)	2018 (metric tons)	2019 (metric tons)
Grains and hay				
Barley	4.17	4.18	3,342,660	3,691,860
Corn for grain	11.07	10.55	364,262,150	347,781,670
Corn for silage	44.53	45.20	110,281,010	120,480,480
Hay, all ²	5.24	5.51	112,128,030	116,903,450
Alfalfa	7.10	7.35	47,748,760	49,781,760
All other	4.39	4.65	64,379,270	67,121,690
Oats	2.33	2.31	814,720	771,440
Proso millet	1.67	2.00	262,970	376,660
Rice	8.62	8.37	10,152,890	8,376,720
Rye	1.94	2.15	214,180	269,810
Sorghum for grain	4.53	4.58	9,271,070	8,673,480
Sorghum for silage	28.24	26.58	3,017,300	3,645,980
Wheat, all ²	3.20	3.47	51,305,540	52,257,620
Winter	3.22	3.60	32,221,540	35,489,150
Durum	2.66	3.08	2,122,400	1,463,000
Other spring	3.25	3.24	16,961,600	15,305,480
Oilseeds				
Canola	2.09	2.00	1,639,940	1,543,120
Cottonseed	(X)	(X)	5,108,360	5,653,580
Flaxseed	1.42	1.26	113,440	162,440
Mustard seed	0.84	0.79	33,250	28,840
Peanuts	4.48	4.43	2,492,910	2,492,980
Rapeseed	1.71	2.42	3,730	10,190
Safflower	1.69	1.43	107,170	88,130
Soybeans for beans	3.40	3.19	120,514,490	96,840,540
Sunflower	1.94	1.75	955,740	881,530
Cotton, tobacco, and sugar crops				
Cotton, all ²	0.97	0.92	3,998,940	4,376,690
Upland	0.95	0.90	3,824,550	4,219,500
American Pima	1.73	1.73	174,400	157,200
Sugarbeets	68.05	65.47	30,192,920	25,945,480
Sugarcane	86.06	78.16	31,335,980	28,846,660
Tobacco	2.05	2.31	241,870	212,260
Dry beans, peas, and lentils				
Austrian winter peas ³	1.28	(NA)	5,620	(NA)
Chickpeas ⁴	1.69	1.73	580,010	282,910
Dry edible beans ⁴	2.09	1.98	1,712,080	943,970
Dry edible peas ³	2.21	2.38	722,530	1,013,600
Lentils	1.21	1.40	381,380	244,400
Wrinkled seed peas ³	(NA)	(NA)	17,640	(NA)
Potatoes and miscellaneous				
Hops	2.18	2.22	48,490	50,820
Maple syrup	(NA)	(NA)	21,000	21,200
Mushrooms	(NA)	(NA)	416,090	383,960
Peppermint oil	0.10	0.12	2,440	2,470
Potatoes ²	49.70	50.31	204,125,640	19,181,970
Spearmint oil	0.14	0.15	1,170	1,090
Taro (Hawaii) ⁵	10.80	(NA)	1,350	(NA)

(NA) Not available.

(X) Not applicable.

¹ Area planted for all purposes.

² Total may not add due to rounding.

³ Beginning in 2019, Austrian winter peas and wrinkled seed peas are included in dry edible peas.

⁴ Beginning in 2019, chickpeas are excluded from dry edible beans.

⁵ Estimates discontinued in 2019.

2019 Annual Weather Summary

Highlights: Despite the mid-year demise of El Niño, wet conditions were a hallmark of the 2019 growing season across large sections of the Plains and Midwest. Midwestern wetness, which intensified in March and persisted through spring and into summer, caused significant planting delays and subsequently slowed the development of crops such as corn and soybeans. Planting and developmental delays extended to other crops, including sugarbeets, sunflowers, and spring wheat.

The 2019 growing season across the Plains and Midwest ended with widespread freezes by mid-October, when some corn and soybeans were not yet fully mature. In fact, 4 percent of the Nation's corn had not denting by October 13, with state-level numbers on that date as high as 16 percent in Wisconsin and 13 percent in Michigan. Nationally, 73 percent of the corn was fully mature by October 13, while 85 percent of the soybeans were dropping leaves. Less than one-half of the corn was mature on that date in North Dakota (42 percent), Michigan (44 percent), and Wisconsin (49 percent). As autumn progressed, Midwestern harvest activities were delayed by muddy or snow-covered fields, as well as the need for some grains and oilseeds to shed excess moisture before being stored or processed.

Fieldwork delays were not nearly as pronounced across the South, where harvest activities for crops such as cotton, peanuts, rice, and soybeans proceeded at a pace that was mostly at or ahead of schedule. Autumn heat and dryness in the Southeast stressed pastures but contributed to the rapid pace of crop maturation and harvesting, despite some earlier planting delays. Farther west, autumn drought development across portions of the central and southern High Plains adversely affected some rangeland, pastures, and winter wheat. Stress on winter wheat was aggravated by several sharp autumn cold outbreaks.

Meanwhile, the western United States experienced an interesting year of weather, which included abundant precipitation during the winter of 2018-19; a sub-par summer monsoon season; and a delayed onset of widespread precipitation in autumn 2019. The wet winter of 2018-19 brought a significant decrease in Western drought coverage, which—according to the United States Drought Monitor—fell from 53 to 4 percent between early January and late April. Subsequently, Western drought coverage increased to nearly 25 percent by November 19 before dropping again.

Unlike 2018, when Hurricanes Florence and Michael caused great destruction, most of the country escaped the year with minimal tropical impacts. Official landfalls in the United States occurred with Hurricanes Barry and Dorian, as well as Tropical Storms Imelda and Nestor. Barry, a minimal (Category 1) hurricane upon arrival in Louisiana on July 13, quickly weakened after moving inland and produced only local downpours. After grazing the southern Atlantic Coast with heavy rain and high winds, Dorian crossed Cape Hatteras, North Carolina, on September 6 as a Category 1 hurricane. Later in the month, Imelda sparked torrential rain in southeastern Texas after moving ashore on September 17 near Freeport. Finally, Tropical Storms Nestor and Olga formed during October in the Gulf of Mexico. Only Nestor, which crossed Florida's panhandle on October 19, officially made landfall. Nevertheless, Nestor and Olga—along with non-tropical disturbances—delivered much-needed moisture, greatly reducing the coverage and intensity of Southeastern drought.

During 2019, the Nation's drought coverage ranged from 21.90 percent at the beginning of the year to a Drought Monitor-era record low of 2.28 percent on April 23. During the first half of autumn, a sharp but short-lived Southeastern drought contributed to a secondary spike in coverage, which peaked at 21.19 percent on October 15. During the autumn peak, drought also covered the Four Corners region, portions of the south-central United States, and the lower Ohio Valley.

Western wildfires were much less active in 2019 compared to the previous year. Nationally, wildfires charred about 4.6 million acres of vegetation, versus nearly 8.8 million acres in 2018 and the 10-year average of just under 7.0 million acres. Alaska, which experienced a very active wildfire season, accounted for nearly 55 percent of the annual national total, with 2.5 million acres burned in 2019. Nevertheless, several autumn wildfires caused significant damage while the West awaited cold-season precipitation to begin. Notably, a rash of late-October wildfires in California included the 78,000-acre Kincade Fire in Sonoma County; that blaze, propelled by high winds and abetted by low humidity levels and seasonally cured vegetation, destroyed 374 structures.

Winter 2018-19: Amid a developing El Niño, the Nation experienced its wettest winter during the 124-year period of record, according to the National Centers for Environmental Information. While the stormy regime extended into nearly every corner of the country, wetness was most acute in the central and eastern United States. For much of the winter,

heavy precipitation was distributed well enough, spatially and temporally, to prevent major flooding. During February, however, severe flash flooding affected parts of California, while significant river flooding developed across portions of the mid-South and lower Midwest.

Near- or above-normal winter temperatures belied the fact that a severe cold outbreak engulfed the northern Plains and Midwest, starting in late January. The cold weather, accompanied by frequently heavy snow, persisted through the remainder of winter, helping to set the stage for major, mid- to late-March flooding in the western Corn Belt. The snowy, cold weather stretched into the Northwest, especially during the first half of February, leading to an increase in livestock stress and mortality.

For the West as a whole, it was the second time in 3 years that widespread winter precipitation resulted in significant reductions in drought coverage. Across the eleven Western States, drought coverage according to the United States Drought Monitor decreased from 55 to 25 percent between mid-December and early March. National drought coverage fell from 23 to 12 percent during the same period, and there was no drought at winter's end east of the Mississippi River.

Spring: The continuation of El Niño through the Northern Hemisphere spring contributed to an excessively wet pattern across much of the United States. Drought coverage dipped to a Drought Monitor-era record low of 2.28 percent on April 23. Subsequently, drought coverage in the continental United States increased to 5.28 percent by June 4, courtesy of increasingly dry conditions in parts of the Southeast and Pacific Northwest. By the end of spring, developing drought also extended south of the Canadian border into parts of Montana and North Dakota.

However, the more significant agricultural and hydrological story during the spring of 2019 was the incessant wetness across large sections of the mid-South, Midwest, Plains, and West. Flooding began early in the spring, when a mid-March storm delivered heavy precipitation across the western Corn Belt atop frozen soils and an extensive snow cover. In parts of the middle Missouri Valley and environs, record-high water levels engulfed communities and agricultural land—and led to the March 14 destruction of the Spencer Dam along the Niobrara River in northern Nebraska.

Flooding returned to parts of the Plains and Midwest starting in late April, as frequent storms dumped copious rainfall. Major flooding persisted for 2 months (62 days from March 16 – May 16) along the Mississippi River at Burlington, IA, breaking the 1993 record of 41 consecutive days. In late May and early June, record flooding affected the Arkansas River in Oklahoma and Arkansas, while the Mississippi River between Quincy, IL, and Chester, MO, climbed to its second-highest level on record, behind 1993.

In addition to the high river levels, which caused extensive closings and delays for barges and other waterway traffic, extensive wetness resulted in a record-slow planting pace for the Nation's corn, soybeans, and rice. By June 2, only 67 percent of the intended corn acreage and 39 percent of the soybeans had been planted, compared to the 1995 records of 77 and 40 percent, respectively.

Across the Plains and upper Midwest, cool spring weather (as much as 2 to 4°F below normal) accompanied the relentless precipitation. In fact, some northern crop production areas experienced frequent snow through the end of April. In contrast, spring temperatures averaged more than 2°F above normal in the southern Atlantic States.

Summer: Despite an absence of extreme heat, agricultural issues developed in parts of the Corn Belt due to soil compaction, shallow-rooted crops, and a mid- to late-summer drying trend. Late-planted, late-developing crops experienced the greatest impacts, with 22 to 27 percent of the corn rated in very poor to poor condition by September 1 in Indiana, Michigan, Missouri, and Ohio. Similarly, more than one-fifth of the soybeans in Indiana and Ohio were rated very poor to poor on that date.

Following a brief hot spell in July, the Midwest experienced a protracted period with near- or below-normal temperatures, maintaining a slow corn and soybean development pace. However, those delays were mostly specific to the Corn Belt, as well as the northern Plains, where spring wheat and other small grains matured behind schedule due to a slow spring planting pace. As a result, some the northern Plains' small grains were still in the field and vulnerable to reductions in quality when torrential rain arrived in early September.

Farther south, a dreadful monsoon season resulted in a record-dry summer in Arizona and unfavorable dryness in other parts of the Southwest. The Southwestern heat and dryness led to stress on rangeland and pastures. However, much of the West escaped significant summer wildfire activity, in part due to the bountifully wet winter of 2018-19. By September 10, wildfires had burned 4.25 million acres of vegetation, well below the 10-year average of 5.92 million acres. More than 60 percent of the total, or 2.59 million acres, occurred in Alaska, which experienced an active wildfire season.

The mainland of the United States experienced only one named tropical system during the summer: Hurricane Barry. A minimal hurricane, Barry crossed the Louisiana coast on July 13 and subsequently produced pockets of heavy rain and flash flooding in the lower Mississippi Valley and neighboring areas. In late August, Dorian became a hurricane while traversing the United States Virgin Islands. Dorian, which utterly devastated the northwestern Bahamas as a Category 5 storm on September 1-2, later grazed the southern Atlantic coast of the United States, making landfall on Cape Hatteras, NC, as a Category 1 hurricane on September 6.

During much of the summer of 2019, drought coverage in the contiguous United States ranged from 3 to 5 percent. During August, however, drought development across the southern Plains and Southwest resulted in an increase in coverage to 10 percent by September 3. In addition, pockets of drought in the central and eastern Corn Belt aggravated the effects of late planting and soil compaction on corn and soybeans. In mid- to late August, extreme drought (D3) returned to the continental United States for the first time since March 2019. However, D3 was confined to 3 percent of Texas and 2 percent of Oklahoma.

Autumn: The Nation's slowest corn harvest since 2009 was one of many agricultural weather highlights in an active autumn. Plains and Midwestern harvest disruptions, which extended to other crops such as soybeans, sugarbeets, sunflowers, and spring wheat, were not only due to adverse autumn weather, but also because of crop developmental delays mostly related to late planting. In addition, the growing season ended amid a mid-October cold snap across much of the Midwest, leaving some grains and oilseeds with unusually high moisture content and not yet ready to harvest. By October 13, only 73 percent of the Nation's corn was fully mature, while 85 percent of the soybeans were dropping leaves.

Farther south, record-setting heat gripped the Southeast in September and early October. The heat, accompanied by mostly dry weather, extended as far north as the Ohio Valley, hastening crop maturation and harvest activities, but depleting topsoil moisture and stressing pastures. The Southeastern hot, dry spell abruptly ended in mid to late October, partly due to surges of moisture from the Gulf of Mexico that included the remnants of Tropical Storms Nestor and Olga.

Earlier, Hurricane Dorian and Tropical Storm Imelda had made landfalls in the United States. Dorian, significantly weakened in the wake of its catastrophic encounter with the northwestern Bahamas, grazed the southern Atlantic Coast in early September. Officially, Dorian made landfall on September 6 on Cape Hatteras, North Carolina, as a Category 1 hurricane. Less than 2 weeks later, on September 17, Imelda suddenly formed while approaching Freeport, Texas. Although inundating rain fell across southeastern Texas, agricultural impacts were relatively minor.

Elsewhere, cool-season precipitation was slow to arrive across the western United States, which—following a sub-par Southwestern monsoon—led to autumn drought intensification in the Four Corners States. Major changes occurred, however, during the second half of November, when two storm systems crossed the Southwest. The swift Southwestern drought improvement stood in contrast to short-term dryness in the Northwest.

During much of the autumn of 2019, drought coverage in the contiguous United States ranged from 10 to 20 percent. Coverage across the Lower 48 States peaked at 21 percent on October 15, when the Southeastern drought reached its maximum intensity. Other areas of drought included the central and southern Plains, where some rangeland, pastures, and winter wheat suffered due to a lack of topsoil moisture, and the Southwest, which experienced significant late-November relief. According to the United States Drought Monitor, exceptional drought (D4) has been absent from the country since March 2019.

December: Active December weather prevailed across most of the country, especially in the Southeast and a broad area stretching from California and the Southwest to the northern Plains and upper Great Lakes region. From the Dakotas to Upper Michigan, a persistently deep snow cover hampered final harvest efforts for crops such as corn and sunflowers. In

the last national report, dated December 8, only 92 percent of the Nation's corn and 73 percent of the sunflowers had been harvested. In North Dakota, 43 percent of the corn had been cut on that date, while 60 percent of the sunflowers had been harvested. Snow also remained on the ground for much (or all) of the month in parts of the Northeast, where an early-December storm dumped heavy snow.

In contrast, drier-than-normal weather covered portions of the southern Plains, as well as the western Gulf Coast region. Several factors, including drought and periodic cold snaps, continued to adversely affect winter wheat in parts of Colorado, Kansas, Oklahoma, and Texas. During December, as much as 15 percent of the Nation's winter wheat production area was in drought, according to the United States Drought Monitor. However, a late-month storm system provided some of the Plains' driest wheat areas with highly beneficial moisture.

Portions of the Northwest also experienced drier-than-normal conditions, despite a late-month increase in precipitation. In addition, Northwestern snow accumulations were limited by mild weather, leaving high-elevation snowpack 25 to 75 percent of the late-December average in much of Idaho, Oregon, and Washington. Elsewhere, near- or above-average snowpack dominated areas from the Sierra Nevada to the central and southern Rockies, as well as the eastern slopes of the northern Rockies, courtesy of multiple storms in late November and throughout December.

2019 Annual Crop Summary

April: Cooler than average temperatures were recorded for much of the Corn Belt, Delta, New England, northern Rocky Mountains, and Texas. In the upper Midwest, average temperatures were 3°F or more below normal in many areas. However, temperatures were slightly warmer in the mid-Atlantic, California, Florida, central Great Plains, Pacific Northwest, and Southwest averaging 3°F or more above normal in some areas. Beneficial rain showers were recorded in the Delta, Pacific Northwest, Southeast, and central Texas during the month. In parts of the Delta, Pacific Northwest, and Texas, 9 or more inches of rain fell during the month. Snow fell across parts of the Great Lakes, northern Great Plains, New England, and Rocky Mountains which caused delays in fieldwork. By April 7, producers had planted 2 percent of the Nation's corn acreage, equal to the previous year and equal to the 5-year average. Producers had planted 15 percent of the 2019 corn acreage as of April 28, equal to the previous year, but 12 percentage points behind the 5-year average. All States were behind their respective 5-year average planting pace, except Texas, which had 65 percent of the 2019 corn acreage planted. Cotton producers planted 11 percent of the cotton acreage by April 28, one percentage point behind the previous year and 2 percentage points behind the 5-year average. In Texas, 13 percent of the 2019 cotton acreage was planted by April 28, two percentage points behind the previous year but equal to the 5-year average.

May: Monthly temperatures were cooler than normal for parts of California, the Corn Belt, Great Plains, New England, Rocky Mountains, and Southwest with temperatures averaging 4°F or more below normal. However, temperatures averaged 2°F or more above normal in the mid-Atlantic, Florida, southern Great Lakes, Mississippi Valley, and Pacific Northwest. Higher than normal precipitation was experienced across the United States during the month of May. Parts of the Corn Belt, Delta, and the Great Plains received more than 10 inches of rain during the month. However, portions of States along the Canadian border, the Pacific Southwest, Pacific Northwest, and Southeast remained dry. By May 12, thirty percent of the 2019 corn acreage was planted, 29 percentage points behind the previous year and 36 percentage points behind the 5-year average. Ten percent of the Nation's corn acreage emerged by May 12, fifteen percentage points behind the previous year and 19 percentage points behind the 5-year average. Nationally, 26 percent of the cotton acreage was planted by May 12, eight percentage points behind the previous year and 6 percentage points behind the 5-year average. Producers planted 24 percent of the 2019 sorghum acreage by May 12, eight percentage points behind the previous year and 9 percentage points behind the 5-year average. By May 12, fifty-nine percent of the barley acreage was seeded, equal to the previous year but 13 percentage points behind the 5-year average. By May 26, twenty-nine percent of the Nation's soybean acreage was planted, 45 percentage points behind the previous year and 37 percentage points behind the 5-year average. Eighty-four percent of the Nation's spring wheat acreage was seeded by May 26, five percentage points behind the previous year and 7 percentage points behind the 5-year average.

June: During the month, cooler than normal temperatures were experienced across much of the Nation. In the mid-Atlantic, Delta, Great Lakes, Great Plains, northern Mississippi Valley, Northeast, Rocky Mountains, and Southwest, temperatures averaged 2°F or more below normal. However, in Alabama, California, Georgia, Florida, Pacific Northwest, and southern Texas, temperatures averaged 4°F or more above normal in some areas. The eastern half of United States

had above normal precipitation during the month of June. Parts of Kansas, the mid-Atlantic, Mississippi Valley, Ohio Valley, Oklahoma, Southeast, and eastern Texas received more than 10 inches of rain during the month. However, California, the Pacific Northwest, Rocky Mountains, and Southwest remained dry. By June 2, sixty-seven percent of the 2019 corn acreage was planted, 29 percentage points behind both the previous year and the 5-year average.

Thirty-nine percent of the Nation's soybean acreage was planted by June 2, forty-seven percentage points behind the previous year and 40 percentage points behind the 5-year average. By June 2, ninety-four percent of the barley acreage was seeded, two percentage points behind the previous year and 3 percentage points behind the 5-year average. Peanut planting advanced to 86 percent complete by June 2, four percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. The Nation's spring wheat was 69 percent emerged by June 2, nine percentage points behind the previous year and 15 percentage points behind the 5-year average. Seventy-six percent of the rice acreage emerged by June 2, eighteen percentage points behind the previous year and 15 percentage points behind the 5-year average. Seventy-nine percent of the corn acreage was emerged by June 16, eighteen percentage points behind both the previous year and the 5-year average. Nationwide, 92 percent of the barley acreage had emerged by June 16, three percentage points behind the previous year and four percentage points behind the 5-year average. Nationally, 89 percent of the cotton acreage was planted by June 16, six percentage points behind the previous year and 5 percentage points behind the 5-year average. Nationally, 71 percent of the soybean acreage emerged by June 23, twenty-three percentage points behind last year and 20 percentage points behind the 5-year average. As of June 23, eighty-four percent of the Nation's sorghum was planted, 10 percentage points behind the previous year and 7 percentage points behind the 5-year average.

July: Temperatures were cooler than average for the month in parts of the Great Plains, Mississippi Valley, northern Rocky Mountains, and Pacific Northwest with temperatures averaging 2°F or more below normal. However, temperatures were warmer in the Great Lakes, New England, New Mexico, and Utah averaging 4°F or more above normal in some areas. During the month of July, parts of the Delta received more than 8 inches of rain. However, parts of California, the Pacific Northwest, Southwest, Southern Plains, and Southeast remained dry. Heading of this year's oat acreage advanced to 74 percent complete by July 7, sixteen percentage points behind both the previous year and the 5-year average. Heading of the Nation's barley acreage advanced to 55 percent complete by July 7, nineteen percentage points behind the previous year and 20 percentage points behind the 5-year average. By July 7, fifty-six percent of the spring wheat acreage was at or beyond the heading stage, 22 percentage points behind the previous year and 17 percentage points behind the 5-year average. Nationally, 22 percent of the United States soybean acreage was at or beyond the blooming stage by July 14, forty percentage points behind the previous year and 27 percentage points behind the 5-year average. Twenty-four percent of the 2019 rice acreage was at or beyond the heading stage by July 14, six percentage points behind the previous year and 7 percentage points behind the 5-year average. By July 28, twenty-one percent of the 2019 soybean acreage was at or beyond the pod-setting stage, 37 percentage points behind the previous year and 24 percentage points behind the 5-year average. Nationally, 86 percent of the cotton acreage was at or beyond the squaring stage by July 28, one percentage point behind both the previous year and the 5-year average. By July 28, bolls were setting on 45 percent of the Nation's cotton acreage, 3 percentage points behind both the previous year and the 5-year average. Fifty-eight percent of the corn acreage was at or beyond the silking stage by July 28, thirty-two percentage points behind the previous year and 25 percentage points behind the 5-year average. By July 28, thirty-three percent of the Nation's sorghum acreage was at or beyond the heading stage, 19 percentage points behind the previous year and 17 percentage points behind the 5-year average. Eighty-four percent of the Nation's peanut acreage was pegging by July 28, one percentage point behind both the previous year and the 5-year average.

August: Temperatures were cooler than average in parts of the Great Lakes and Great Plains, with temperatures averaging 4°F or more below normal. However, temperatures were warmer in the Southwest averaging 6°F or more above normal in some locations. During the month of August, parts of the Delta, Florida, and southern Great Plains received more than 10 inches of rain. However, parts of California, Michigan, the Pacific Northwest, Rocky Mountains, and Southwest remained dry. By August 4, seventy-eight percent of the corn was at or beyond the silking stage, 17 percentage points behind the previous year and 15 percentage points behind the 5-year average. Nationally, 23 percent of the corn acreage was at or beyond the dough stage by August 4, thirty-one percentage points behind the previous year and 19 percentage points behind the 5-year average. As of August 11, eighty-two percent of the soybean acreage was at or beyond the blooming stage, 13 percentage points behind the previous year and 11 percentage points behind the 5-year average. By August 11, barley producers had harvested 15 percent of the 2019 acreage, 22 percentage points behind the previous year and 24 percentage points behind the 5-year average. Overall, 74 percent of the barley was reported in good to excellent

condition on August 11, compared with 81 percent at the same time in 2018. By August 18, spring wheat producers had harvested 16 percent of the Nation's acreage, 40 percentage points behind the previous year and 33 percentage points behind the 5-year average. Overall, 70 percent of the spring wheat was reported in good to excellent condition on August 18, four percentage points lower than at the same time in 2018. Heading of the 2019 sorghum acreage was 75 percent complete by August 18, eleven percentage points behind the previous year and 8 percentage points behind the 5-year average. The Nation's rice acreage was 88 percent headed by August 18, six percentage points behind the previous year and 5 percentage points behind the 5-year average. Sixty percent of the oat acreage was harvested by August 18, eighteen percentage points behind both the previous year and the 5-year average. Seventy-nine percent of the Nation's soybeans were at or beyond the pod setting stage by August 25, fifteen percentage points behind the previous year and 12 percentage points behind the 5-year average. Ninety percent of the Nation's cotton acreage was at or beyond the boll setting stage by August 25, equal to the previous year but 1 percentage point behind the 5-year average.

September: Average monthly temperatures were warmer than average for parts of Colorado, Illinois, Indiana, the Mississippi Valley, New Mexico, North Carolina, Ohio, the southern Great Plains, Virginia, and West Virginia with temperatures averaging 6°F or more above normal. However, temperatures were cooler in parts of Arizona, California, Idaho, Montana, Nevada, New England, and the Pacific Northwest. During the month of September, the United States remained extremely dry, except along the Carolina coastline, northern Illinois, western North Dakota, southeast Texas, and southern Wisconsin. Nationally, 41 percent of the corn acreage was at or beyond the dent stage by September 1, thirty-two percentage points behind the previous year and 22 percentage points behind the 5-year average. By September 8, eighty-two percent of the barley acreage was harvested, 9 percentage points behind the previous year and 10 percentage points behind the 5-year average. Spring wheat producers harvested 71 percent of the 2019 acreage by September 8, twenty-one percentage points behind the previous year and 16 percentage points behind the 5-year average. Oat producers had harvested 89 percent of the 2019 acreage by September 8, seven percentage points behind the previous year and 6 percentage points behind the 5-year average. Nationally, producers had harvested 46 percent of the 2019 rice acreage by September 15, two percentage points behind both the previous year and the 5-year average. Overall, 69 percent of the rice acreage was rated in good to excellent condition on September 15, compared with 74 percent at the same time in 2018. Fifteen percent of the 2019 soybean acreage was at or beyond the leaf dropping stage by September 15, thirty-five percentage points behind the previous year and 23 percentage points behind the 5-year average. By September 15, seventy-nine percent of the sorghum acreage was at or beyond the coloring stage, 8 percentage points behind the previous year and 5 percentage points behind the 5-year average. Twenty-nine percent of the corn acreage was mature by September 22, forty percentage points behind the previous year and 28 percentage points behind the 5-year average. By September 22, producers had sown 22 percent of the Nation's 2020 winter wheat acreage, 4 percentage points behind the previous year and 2 percentage points behind the 5-year average. By September 22, sixty-four percent of the 2019 cotton acreage was at or beyond the boll opening stage, 7 percentage points ahead of both the previous year and the 5-year average.

October: Temperatures were cooler than normal for parts of the Great Plains, Nevada, Oregon, and the Rocky Mountains with temperatures averaging 6°F or more below normal. However, temperatures were 6°F or more above normal along the Indiana and Ohio border and in parts of the Southeast. During the month of October, the western half of the United States remained extremely dry. In contrast, areas in the Mississippi Valley, Oklahoma, and Washington received 10 inches of rain or more. Soybean producers had harvested 26 percent of the Nation's acreage by October 13, eleven percentage points behind the previous year and 23 percentage points behind the 5-year average. Overall, 54 percent of the soybean acreage was reported in good to excellent condition as of October 13, twelve percentage points lower than at the same time in 2018. By October 13, fifty-five percent of the Nation's peanut acreage was harvested, 12 percentage points ahead of the previous year and 13 percentage points ahead of the 5-year average. Overall, 54 percent of the peanut acreage was reported in good to excellent condition as of October 13, four percentage points lower than at the same time in 2018. By October 20, ninety-three percent of the rice acreage was harvested, 3 percentage points ahead of the previous year but 1 percentage point behind the 5-year average. Forty-one percent of the 2019 corn acreage was harvested by October 27, twenty percentage points behind both the previous year and the 5-year average. Sorghum producers had harvested 65 percent of the acreage by October 27, thirteen percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Producers had sown 85 percent of the 2020 winter wheat acreage by October 27, eight percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Nationally, producers harvested 46 percent of the cotton acreage by October 27, three percentage points ahead of both the previous year and the 5-year average. Overall, 40 percent of the cotton acreage was reported in good to excellent condition as of

October 27, five percentage points ahead of the same time in 2018. Producers harvested 58 percent of the sugarbeet acreage by October 27, twenty-two percentage points behind the previous year and 26 percentage points behind the 5-year average.

November: Temperatures were cooler than average for most of the eastern half of the Nation, with the exception of Central and Southern Florida. Temperatures averaged 5°F or more below normal for much of the Great Lakes, Northeast, middle Mississippi Valley, and Ohio Valley. In contrast, much of the western part of the Nation was warmer than average with temperatures averaging 5°F or more above normal in parts of California, Idaho, Oregon, Texas, and Utah. During the month of November, much of the western half of the United States remained dry, except for areas of the Pacific Northwest and the Southwest. Parts of Arizona and Washington received 6 inches of rain or more during the month. Much of the eastern half of the Nation received 2 inches or more of rain, with parts of Arkansas, Kentucky, Missouri, Oklahoma, and Tennessee receiving more than 6 inches of rain. Ninety-two percent of the 2020 winter wheat acreage was sown by November 10, four percentage points ahead of the previous year but equal to the 5-year average. Nationally, winter wheat emergence had advanced to 78 percent complete by November 10, two percentage points ahead of the previous year but 3 percentage points behind the 5-year average. By November 10, ninety-six percent of the Nation's sugarbeet acreage was harvested, 1 percentage point ahead of the previous year but equal to the 5-year average. Producers harvested 91 percent of the soybean acreage by November 17, equal to the previous year but 4 percentage points behind the 5-year average. Producers harvested 93 percent of the 2019 peanut acreage by November 17, eight percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Eighty-four percent of the 2019 corn acreage was harvested by November 24, nine percentage points behind the previous year and 12 percentage points behind the 5-year average. As of November 24, ninety-seven percent of the 2019 sorghum acreage was harvested, 9 percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. Producers harvested 78 percent of the cotton acreage by November 24, ten percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. By November 24, fifty-six percent of the 2019 sunflower acreage was harvested, 20 percentage points behind the previous year and 33 percentage points behind the 5-year average. Fifty-two percent of the 2020 winter wheat acreage was reported in good to excellent condition for the week ending November 24, compared with 55 percent rated in these two categories during the same week in 2018.

Crop Comments

Corn: Corn for grain production in the United States is estimated at 13.7 billion bushels, down 5 percent from the revised 2018 estimate. The average yield in the United States is estimated at 168.0 bushels per acre, 8.4 bushels below the 2018 yield of 176.4 bushels per acre.

Estimated yields in 2019 are down from the previous year across most of the Northern Plains and Eastern Corn Belt. Record yields are estimated in Arizona, Florida, Oregon, Tennessee, Washington, and West Virginia.

Corn planted area, at 89.7 million acres, was up 1 percent from the revised 2018 estimate. Area harvested for grain was estimated at 81.5 million acres, up less than 1 percent from the revised 2018 estimate.

The 2018 corn objective yield data indicated the lowest number of ears per acre since 2012 for the combined 10 objective yield States (Iowa, Illinois, Indiana, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin).

Corn silage production was estimated at 133 million tons for 2019, up 9 percent from the revised 2018 estimate. The United States silage yield was estimated at 20.2 tons per acre, up 0.3 ton from 2018. Area harvested for silage was estimated at 6.59 million acres, up 8 percent from the revised 2018 estimate.

Most of the country was abnormally wet in April, disrupting planting activities in a multitude of regions, including the northern and southern Plains, Mississippi Delta, and much of the Midwest and Northwest. In addition, runoff from rain and melting snow led to widespread lowland flooding, especially in the eastern Dakotas and Mississippi Valley. By April 28, only 15 percent of the Nation's intended corn acreage had been planted—the slowest early-season planting pace since 2013, when 5 percent had been sown by that date.

Rainfall continued into May causing new rounds of flooding which further hampered fieldwork throughout the month. By May 5, producers had planted 23 percent of the Nation's corn acreage, 13 percentage points behind last year and 23 percentage points behind the 5-year average. Six percent of the Nation's corn acreage had emerged by May 5, one percentage point behind last year and 7 percentage points behind the 5-year average. By May 26, producers had planted 58 percent of the Nation's corn acreage, 32 percentage points behind both last year and the 5-year average. Thirty-two percent of the Nation's corn acreage had emerged by May 26, thirty-seven percentage points behind both last year and the 5-year average.

Due to the wet field conditions throughout much of the spring planting season, producers had planted just 83 percent of the Nation's corn acreage by June 9, sixteen percentage points behind both last year and the 5-year average. Sixty-two percent of the corn acreage had emerged by June 9, thirty-one percentage points behind both last year and the 5-year average. By June 23, producers had planted 96 percent of the Nation's corn acreage, 4 percentage points behind both last year and the 5-year average. Eighty-nine percent of the corn acreage had emerged by June 23, eleven percentage points behind last year and 10 percentage points behind the 5-year average.

Eight percent of the corn acreage had reached the silking stage by July 7, twenty-six percentage points behind last year and 14 percentage points behind the 5-year average. Thirty-five percent of the Nation's corn acreage was at or beyond the silking stage by July 21, forty-three percentage points behind last year and 31 percentage points behind the 5-year average. By July 21, five percent of the Nation's corn was at or beyond the dough stage, 11 percentage points behind last year and 5 percentage points behind the 5-year average.

Seventy-eight percent of the Nation's corn acreage was at or beyond the silking stage by August 4, seventeen percentage points behind last year and 15 percentage points behind the 5-year average. By August 4, twenty-three percent of the corn was at or beyond the dough stage, 31 percentage points behind last year and 19 percentage points behind the 5-year average. By August 18, fifty-five percent of the corn was at or beyond the dough stage, 28 percentage points behind last year and 21 percentage points behind the 5-year average. By August 18, fifteen percent of the corn acreage was dented, 26 percentage points behind last year and 15 percentage points behind the 5-year average.

By September 1, eighty-one percent of the corn acreage was at or beyond the dough stage, 14 percentage points behind last year and 12 percentage points behind the 5-year average. By September 1, forty-one percent of the corn acreage was dented, 32 percentage points behind last year and 22 percentage points behind the 5-year average. All of the estimating States, except Texas, were behind their respective 5-year averages for denting progress on September 1. Eighteen percent of the 2019 corn acreage had reached maturity as of September 15, thirty-three percentage points behind last year and 21 percentage points behind the 5-year average. By September 29, eighty-eight percent of the corn acreage was dented, 12 percentage points behind last year and 10 percentage points behind the 5-year average. Forty-three percent of the 2019 corn acreage had reached maturity by September 29, forty-one percentage points behind last year and 30 percentage points behind the 5-year average. Eleven percent of the corn acreage was harvested by September 29, fourteen percentage points behind last year and 8 percentage points behind the 5-year average. Overall, 57 percent of the Nation's corn was rated in good to excellent condition as of September 29, twelve percentage points below the same time last year.

As of October 6, ninety-three percent of this year's corn acreage was dented, 7 percentage points behind last year and 6 percentage points behind the 5-year average. Fifty-eight percent of the corn acreage had matured by October 6, thirty-four percentage points behind last year and 27 percentage points behind the 5-year average. Fifteen percent of the 2019 acreage was harvested by October 6, eighteen percentage points behind last year and 12 percentage points behind the 5-year average. Eighty-six percent of the 2019 corn acreage had reached maturity as of October 20, thirteen percentage points behind last year and 11 percentage points behind the 5-year average. Thirty percent of the 2019 acreage was harvested by October 20, eighteen percentage points behind last year and 17 percentage points behind the 5-year average.

Fifty-two percent of the corn acreage was harvested by November 3, twenty-two percentage points behind last year and 23 percentage points behind the 5-year average. Eighty-four percent of the 2019 acreage was harvested by November 24, nine percentage points behind last year and 12 percentage points behind the 5-year average.

Eighty-nine percent of the acreage was harvested by December 1, eight percentage points behind last year and 9 percentage points behind the 5-year average. Harvest progress was behind the 5-year average pace by 18 percentage

points or more in Michigan, North Dakota, South Dakota, and Wisconsin. Ninety-two percent of the 2019 acreage was harvested by December 8, eight percentage points behind both last year and the 5-year average.

Sorghum: Grain production in 2019 was estimated at 341 million bushels, down 6 percent from the 2018 total. Planted area for 2019 was estimated at a record low 5.27 million acres, down 7 percent from the previous year. Area harvested for grain, at 4.68 million acres, was down 8 percent from 2018. Grain yield was estimated at 73.0 bushels per acre, up 0.9 bushel from 2018.

Silage production was estimated at 4.02 million tons, up 21 percent from 2018. Area harvested for silage was estimated at 339,000 acres, up 28 percent from the previous year. Silage yield averaged 11.9 tons per acre, down 0.7 ton per acre from 2018.

Beginning in 2019, sorghum estimates were discontinued in Arkansas, Georgia, Illinois, Louisiana, Mississippi, Missouri, New Mexico, and North Carolina.

Oats: Production in 2019 was estimated at 53.1 million bushels, down 1 percent from 2018 for comparable States. Yield was estimated at 64.3 bushels per acre, down 1.0 bushel from the previous year for comparable States. Harvested area, at 826,000 acres, was less than 1 percent above last year for comparable States. Record low acres were harvested in Arkansas, California, Georgia, Illinois, Maine, Missouri, and North Carolina.

Record high yields were estimated in Idaho and North Dakota.

Nationally, oat producers seeded 50 percent of the 2019 acreage by May 5, four percentage points behind the previous year and 22 percentage points behind the 5-year average. Fifty-three percent of the oat acreage had emerged by May 19, eleven percentage points behind the previous year and 23 percentage points behind the 5-year average. Heading of the oat acreage advanced to 58 percent complete by June 30, twenty-two percentage points behind the previous year and 23 percentage points behind the 5-year average. Oat producers harvested 32 percent of the acreage by August 4, seventeen percentage points behind both last year and the 5-year average. At that time, harvest progress was at or behind the 5-year average in 8 of the 9 weekly *Crop Progress* estimating States. Eighty-four percent of the Nation's oat acreage was harvested by September 1, nine percentage points behind the previous year and 7 percentage points behind the 5-year average.

Beginning in 2019, oat estimates were discontinued in Alabama, Colorado, South Carolina, Washington, and Wyoming.

Barley: Production was estimated at 170 million bushels, up 10 percent from the 2018 total of 154 million bushels. The average yield, at 77.7 bushels per acre, was up 0.2 bushel from the previous year. Producers seeded 2.72 million acres in 2019, up 7 percent from 2018. Harvested area, at 2.18 million acres, was up 10 percent from 2018.

Record high yields were estimated in Oregon, Utah, and Wyoming.

Two percent of the Nation's barley acreage was planted by April 7, one percentage point behind the previous year and 7 percentage points behind the 5-year average. Nationwide, barley producers seeded 28 percent of the Nation's acreage by April 28, four percentage points ahead of the previous year but 13 percentage points behind the 5-year average. By April 28, emergence was evident in 6 percent of the Nation's barley acreage, equal to the previous year but 9 percentage points behind the 5-year average. Nationally, 94 percent of the barley acreage was sown by June 2, two percentage points behind the previous year and 3 percentage points behind the 5-year average. Seventy-three percent of the barley acreage emerged by June 2, seven percentage points behind the previous year and 12 percentage points behind the 5-year average. Heading of the Nation's barley acreage advanced to 55 percent complete by July 7, nineteen percentage points behind the previous year and 20 percentage points behind the 5-year average. By August 4, barley producers harvested 3 percent of the Nation's acreage, 11 percentage points behind the previous year and 15 percentage points behind the 5-year average. Overall, 74 percent of the barley acreage was reported in good to excellent condition on August 11, compared with 81 percent at the same time last year. By September 22, ninety-two percent of the barley acreage was harvested, 7 percentage points behind both the previous year and 5-year average.

All wheat: Production totaled 1.92 billion bushels in 2019, up 2 percent from the 2018 total of 1.89 billion bushels. Area harvested for grain totaled 37.2 million acres, down 6 percent from the previous year. The United States yield was estimated at 51.7 bushels per acre, up 4.1 bushels from the previous year. The levels of production and changes from 2018 by type were: winter wheat, 1.30 billion bushels, up 10 percent; other spring wheat, 562 million bushels, down 10 percent; and Durum wheat, 53.8 million bushels, down 31 percent.

Winter wheat: Winter wheat production for 2019 totaled 1.30 billion bushels, up 10 percent from the 2018 total of 1.18 billion bushels. The United States yield, at 53.6 bushels per acre, was up 5.7 bushels from 2018. Area harvested for grain was estimated at a record low 24.3 million acres, down 2 percent from the previous year. Record high yields were estimated in Colorado, Maryland, Montana, Nebraska, New Jersey, Oklahoma, Pennsylvania, and Wyoming for 2019.

Compared with 2018, harvested acreage was up 1 percent in the major Hard Red Winter (HRW) growing States, the primary winter wheat producing area. As a result of the increased harvested acreage and higher yields in 2019, HRW production totaled 833 million bushels, up 26 percent from 2018.

In the Soft Red Winter (SRW) growing area, planted and harvested acreage decreased from 2018. SRW production totaled 239 million bushels, down 16 percent from 2018.

White winter wheat production totaled 232 million bushels, down 2 percent from the previous year. Harvested acreage in the Pacific Northwest (Idaho, Oregon, and Washington) was up 3 percent from 2018. Yields were up in Oregon but down in Idaho and Washington compared with the previous year.

Seeding of the 2019 winter wheat acreage began in early September with 5 percent of the intended 2019 acreage sown by September 9, equal to both the previous year and the 5-year average. Winter wheat planting progress was most advanced in the Pacific Northwest as of September 9. By the end of September, producers had sown 43 percent of the Nation's winter wheat acreage, 9 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Nationwide, 14 percent of the winter wheat crop was emerged by September 30, four percentage points ahead of the previous year but unchanged from the 5-year average. Emergence was at or behind the 5-year average pace in 11 of the 18 weekly *Crop Progress* estimating States.

By October 7, producers had sown 57 percent of the Nation's winter wheat acreage, 11 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. By October 28, producers had sown 78 percent of the Nation's winter wheat acreage, 5 percentage points behind the previous year and 7 percentage points behind the 5-year average. Winter wheat planting was nearing completion in 6 of the 18 weekly *Crop Progress* estimating States at that time. Nationally, emergence was 63 percent complete by October 28, unchanged from the previous year but 4 percentage points behind the 5-year average. Overall, 53 percent of the 2019 winter wheat acreage was reported in good to excellent condition on October 28, compared with 52 percent at the same time the previous year.

By November 4, producers had sown 84 percent of the Nation's winter wheat acreage, 6 percentage points behind both the previous year and the 5-year average. Nationally, emergence was 70 percent complete by November 4, four percentage points behind the previous year and 7 percentage points behind the 5-year average. Overall, 51 percent of the 2019 winter wheat acreage was rated in good to excellent condition on November 4, 2018, four percentage points below the same time the previous year. By November 25, winter wheat planting was complete or nearing completion in all weekly *Crop Progress* estimating States except Arkansas, California, Missouri, and North Carolina, with 95 percent of the Nation's winter wheat acreage sown, 4 percentage points behind both the previous year and the 5-year average. Nationally, winter wheat emergence was 86 percent complete by November 25, five percentage points behind the previous year and 6 percentage points behind the 5-year average. Overall, 55 percent of the 2019 winter wheat acreage was rated in good to excellent condition on November 25, five percentage points above the same time the previous year.

On March 31, fifty-six percent of the 2019 winter wheat acreage was reported in good to excellent condition, compared with 32 percent at the same time last year.

By April 7, three percent of the Nation's winter wheat acreage had reached the headed stage, equal to last year but 1 percentage point behind the 5-year average. Sixty percent of the 2019 winter wheat acres was reported in good to

excellent condition as of April 7, thirty percentage points above the same time last year. In Kansas, the largest winter wheat-producing State, 58 percent of the acreage was rated in good to excellent condition at that time. In Texas, where areas of the State had been abnormally to moderately dry, 47 percent of the winter wheat acreage was in rated good to excellent condition.

By May 12, forty-two percent of the Nation's winter wheat acreage had reached the headed stage, 1 percentage point behind last year and 12 percentage points behind the 5-year average. For the week ending May 12, sixty-four percent of the 2019 winter wheat acreage was reported in good to excellent condition, 28 percentage points above the same time last year. In Kansas, 56 percent of the winter wheat crop was rated in good to excellent condition at that time, a decrease of 2 percentage point from the previous week.

As of June 2, seventy-six percent of the Nation's winter wheat acreage had reached the headed stage, 6 percentage points behind last year and 8 percentage points behind the 5-year average. Heading progress was behind by 30 percentage points or more compared with the 5-year average in Michigan, Nebraska, and South Dakota at that time. On June 2, sixty-four percent of the 2019 winter wheat acreage was reported in good to excellent condition, 27 percentage points above the same time last year. Harvest of the 2019 acreage began in early June with eight percent harvested by June 16, seventeen percentage points behind last year and 12 percentage points behind the 5-year average. Harvest was at or behind the 5-year average in all of the weekly *Crop Progress* estimating States at that time. By June 30, ninety-seven percent of the Nation's winter wheat acreage had reached the headed stage, 3 percentage points behind both last year and the 5-year average. Twenty-eight percent of Kansas's winter wheat acreage was harvested by June 30, forty percentage points behind last year and 33 percentage points behind the 5-year average. On June 30, sixty-three percent of the 2019 winter wheat acreage was reported in good to excellent condition, 26 percentage points above the same time last year.

Forty-seven percent of the 2019 winter wheat acreage was harvested by July 7, fourteen percentage points behind both last year and the 5-year average. Eighty-two percent of the 2019 winter wheat acreage was harvested by August 4, seven percentage points behind last year and 10 percentage points behind the 5-year average. Winter wheat harvest progress continued with advances of 16 percentage points or more reported in Michigan, Montana, Nebraska, Oregon, South Dakota, and Washington during the week ending August 4.

Harvest of the 2019 acreage was wrapping up by late August. Ninety-six percent was harvested by August 25, four percentage points behind last year and 3 percentage points behind the 5-year average. Winter wheat harvest progress was complete or nearing completion in all weekly *Crop Progress* estimating States except Idaho, Montana, South Dakota, and Washington.

Beginning in 2019, winter wheat estimates were discontinued in Arizona, Florida, Iowa, Louisiana, Minnesota, Nevada, and West Virginia.

Other spring wheat: Production for 2019 was estimated at 562 million bushels, down 10 percent from the 2018 total of 623 million bushels. Harvested area totaled 11.7 million acres, down 10 percent from 2018. The United States yield was estimated at 48.2 bushels per acre, down 0.1 bushel from the 2018 record high of 48.3 bushels per acre. A record high yield was estimated in North Dakota for 2019. Of the total production, 552 million bushels were Hard Red Spring wheat, down 11 percent from the 2018 total.

Seeding of the 2019 spring wheat acreage began in early April. Spring wheat planting progress was behind the 5-year average pace in all 6 weekly *Crop Progress* estimating States and planting had not yet begun in the Northern Plains as of April 7. By April 28, thirteen percent of the spring wheat acreage was seeded, 4 percentage points ahead of last year but 20 percentage points behind the 5-year average. Spring wheat planting progress was behind the 5-year average pace in all weekly *Crop Progress* estimating States at that time.

By May 12, forty-five percent of the spring wheat acreage was seeded, 9 percentage points behind last year and 22 percentage points behind the 5-year average. Spring wheat planting progress was behind the 5-year average pace in all weekly *Crop Progress* estimating States. By May 12, ten percent of the Nation's spring wheat acreage had emerged, 3 percentage points behind the previous year and 24 percentage points behind the 5-year average.

By June 2, ninety-three percent of the spring wheat acreage was seeded, 3 percentage points behind both last year and the 5-year average. South Dakota was the furthest behind compared with the State's 5-year average pace. Sixty-nine percent of the Nation's spring wheat acreage had emerged by June 2, nine percentage points behind the previous year and 15 percentage points behind the 5-year average. On June 2, eighty-three percent of the Nation's spring wheat acreage was rated in good to excellent condition, 13 percentage points above the same time last year.

Fifty-six percent of the Nation's spring wheat acres had reached the headed stage by July 7, twenty-two percentage points behind last year and 17 percentage points behind the 5-year average. Based on conditions as of July 7, seventy-eight percent of the Nation's spring wheat acreage was rated in good to excellent condition, 3 percentage points above the previous week but 2 percentage points below the same time last year.

Harvest of the 2019 spring wheat acreage began during the week ending August 4. At that time, two percent of the spring wheat was harvested, 10 percentage points behind last year and 12 percentage points behind the 5-year average. Harvest progress was behind the 5-year average in all 6 weekly *Crop Progress* estimating States. On August 4, seventy-three percent of the Nation's spring wheat acreage was rated in good to excellent condition, 1 percentage point below the same time last year.

As of September 1, fifty-five percent of the spring wheat acreage was harvested, 31 percentage points behind last year and 23 percentage points behind the 5-year average. On September 1, sixty-seven percent of the Nation's spring wheat acreage was rated in good to excellent condition, 7 percentage points below the same time last year. By September 22, eighty-seven percent of the spring wheat acreage was harvested, 12 percentage points behind last year and 10 percentage points behind the 5-year average. Spring wheat harvest progress was complete or nearing completion in all weekly *Crop Progress* estimating States, except Montana and North Dakota.

By October 6, ninety-one percent of the spring wheat acreage was harvested, 9 percentage points behind last year and 8 percentage points behind the 5-year average. By October 20, ninety-six percent of the spring wheat acreage was harvested, 4 percentage points behind both last year and the 5-year average. Spring wheat harvest progress was complete or nearing completion in all estimating States, except Montana which was 92 percent complete by October 20.

Beginning in 2019, spring wheat estimates were discontinued in Colorado, Nevada, Oregon, and Utah.

Durum wheat: Production for 2019 was estimated at 53.8 million bushels, down 31 percent from the 2018 total of 78.0 million bushels. Area harvested for grain totaled 1.18 million acres, down 40 percent from the previous year. The United States yield was estimated at a record high 45.7 bushels per acre, up 6.2 bushels from the 2018 yield. Record high yields were estimated in Montana and North Dakota for 2019. Production in North Dakota, the largest Durum wheat-producing State, was down 40 percent from 2018. Declines in production are attributed to declines in harvested acres across the Nation. Harvest began in the two major Durum-wheat producing States of Montana and North Dakota in early August. Harvest in 97 percent complete in North Dakota by November 3 and 95 percent complete in Montana by November 17.

Beginning in 2019, Durum wheat estimates were discontinued in South Dakota.

Rice: Production in 2019 totaled 185 million cwt, down 17 percent from the 2018 total. Planted area for 2019 was estimated at 2.54 million acres, down 14 percent from 2018. Area harvested, at 2.47 million acres, was down 15 percent from the previous crop year. The average yield for all rice for the Nation was estimated at 7,471 pounds per acre, down 221 pounds from the 2018 average yield of 7,692 pounds per acre.

Yields decreased from the previous year in all States except Mississippi.

Rye: Production for 2019 was estimated at 10.6 million bushels, up 41 percent from the 2018 total for comparable States. Harvested area totaled 310,000 acres, up 65,000 acres from 2018 for comparable States. The United States yield, at 34.3 bushels per acre, was up 3.5 bushels from the previous year for comparable States.

Beginning in 2019, rye estimates were discontinued in Maine, Maryland, New Jersey, South Carolina, and Virginia.

Proso millet: Production of proso millet in 2019 totaled 16.6 million bushels, up 43 percent from the revised 2018 production of 11.6 million bushels. Area planted to proso millet in the United States was estimated at 506,000 acres, up 63,000 acres from 2018. Area harvested in the United States, at 465,000 acres, was up 75,000 acres from the revised 2018 harvested estimate. The average yield for 2018 was estimated at 35.7 bushels per acre, up 6.0 bushels from 2018.

All hay: Production of all dry hay for 2019 was estimated at 128.9 million tons, up 4 percent from the 2018 total. Area harvested was estimated at 52.4 million acres, down 1 percent from 2018. The average yield, at 2.46 tons per acre, was up 0.12 ton from the previous year.

Precipitation was generally up across the Nation encouraging forage growth resulting in yield increases over last year.

Alfalfa and alfalfa mixtures: Production in 2019 was estimated at 54.9 million tons, up 4 percent from the 2018 total. Harvested area, at 16.7 million acres, was 1 percent above the previous year. Average yield was estimated at 3.28 tons per acre, up 0.11 ton from 2018.

Record high yields were estimated in Idaho and Nevada.

All other hay: Production in 2019 totaled 74.0 million tons, up 4 percent from the 2018 total. Harvested area, at 35.7 million acres, was down 2 percent from the previous year. Average yield was estimated at 2.07 tons per acre, up 0.11 ton from 2018.

Record high yields were estimated in California, Kansas, Maine, Missouri, Montana, Nevada, and Utah.

Forage: In 2019, seventeen States were included in the forage estimation program, which measures annual production of forage crops. Haylage and greenchop production was converted to 13 percent moisture and combined with dry hay production to derive the total forage production. The total 2019 all haylage and greenchop production for the 17 States in the forage program was 29.0 million tons, of which 18.3 million tons were from alfalfa and alfalfa mixtures. The 17 State total for all forage production was 83.2 million tons. Of this total, 42.3 million tons were produced from alfalfa and alfalfa mixtures.

New seedings of alfalfa and alfalfa mixtures: Growers seeded 2.47 million acres of alfalfa and alfalfa mixtures during 2019, up 11 percent from 2018. Wisconsin had a significant increase in alfalfa seedings as a result of winterkill from the previous winter. New seedings of alfalfa and alfalfa mixtures are normally harvested for the first time in the year following planting.

Peanuts: Production was estimated at 5.50 billion pounds, up slightly from 2018. Planted area was estimated at 1.43 million acres, up less than 1 percent from 2018. Harvested area was estimated at 1.39 million acres, up 1 percent from 2018. The average yield was estimated at 3,949 pounds per acre, down 52 pounds from 2018.

Record high production was estimated in Arkansas. Record high yields were estimated in North Carolina, Oklahoma, and Virginia.

Canola: Production in 2019 was estimated at 3.40 billion pounds, down 6 percent from 2018. Despite the decline from last year, production for the Nation represents the second largest total on record. The average yield, at 1,781 pounds per acre, is down 80 pounds from last year's average yield but is the fourth highest average yield on record for the Nation. Planted area was estimated at 2.04 million acres, 2 percent above the previous year's acreage. Harvested area, at 1.91 million acres, was down 2 percent from 2018.

Production in North Dakota, the leading canola-producing State, was estimated at 2.90 billion pounds. This represents the second largest production for North Dakota on record, trailing last year's record production by 6 percent. Planted and harvested area in North Dakota were both record highs.

The average yield in Minnesota was the highest on record at 2,270 pounds per acre. In Washington, planted area,

harvested area, and production were all record highs.

Beginning in 2019, canola estimates were discontinued in Idaho and Oregon.

Sunflower: The 2019 sunflower production totaled 1.94 billion pounds, down 8 percent from 2018. The United States average yield per acre of 1,562 pounds decreased 169 pounds from 2018. Planted area, at 1.35 million acres, was 4 percent above the previous year. Area harvested increased 2 percent from 2018 to 1.24 million acres.

South Dakota, the leading sunflower-producing State during 2019, produced 832 million pounds, a decrease of 14 percent from 2018. Compared with 2018, planted area in South Dakota decreased 7 percent and yield decreased 146 pounds to 1,694 pounds per acre. Meanwhile, production in North Dakota increased slightly primarily due to planted acreage, which increased 23 percent from the previous year. The average yield in North Dakota decreased 242 pounds from 2018 to 1,518 pounds per acre.

United States production of oil-type sunflower varieties, at 1.75 billion pounds, decreased 7 percent from 2018. Compared with the previous year, harvested acres were up 2 percent but the average yield decreased by 163 pounds to 1,562 pounds per acre.

Production of non-oil sunflower varieties was estimated at 197 million pounds, a decrease of 10 percent from 2018. Area harvested, at 126,500 acres, was up 3 percent from 2018. The average yield decreased by 223 pounds from 2018 to 1,558 pounds per acre.

Harvest of sunflowers began in early October and progressed mostly behind normal throughout October in the Dakotas. As of October 27, seventeen percent of the crop was harvested, 14 percentage points behind the previous year and 28 percentage points behind the 5-year average. By November 24, harvest progress had reached 56 percent complete. Nationally, 20 percentage points behind the previous year and 33 percentage points behind the 5-year average.

Soybeans: Production in 2019 totaled 3.56 billion bushels, down 20 percent from 2018. The average yield was estimated at 47.4 bushels per acre, 3.2 bushels below 2018. Planted area for the Nation, at 76.1 million acres, was down 15 percent from the 2018 planted acreage. Soybean growers harvested 75.0 million acres, down 14 percent from last year.

A record high yield occurred in Pennsylvania.

The 2019 soybean objective yield survey data indicated that final average pod counts were lower than last year in the combined eleven objective yield States. Compared with final counts for 2018, pod counts were down in 10 of the 11 published States. A decrease of more than 400 pods per 18 square feet from 2018's final pod count occurred in Illinois, Indiana, Iowa, Nebraska, and Ohio.

Nationwide, planting was underway by the start of May in 16 of the 18 major soybean-producing States. Six percent of the acreage was planted by May 5, eight percentage points behind both last year and the 5-year average. Heavy rains in the Plains and Midwest led to a record-slow planting pace for soybeans with 39 percent of the acreage planted by June 2, forty percentage points behind the 5-year average. Nationally, 55 percent of the soybean acreage was emerged by June 16, thirty-four percentage points behind last year and 29 percentage points behind the 5-year average. Soybean emergence in Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Ohio, South Dakota, and Wisconsin was at least 20 percentage points behind the 5-year average as of June 16. By July 7, ten percent of the soybean acreage was blooming, 34 percentage points behind last year and 22 percentage points behind the 5-year average. Twenty-two percent of the Nation's soybeans were blooming by July 14, forty percentage points behind last year and 27 percentage points behind the 5-year average. By July 21, seven percent of the Nation's soybeans were at or beyond the pod-setting stage, 34 percentage points behind last year and 21 percentage points behind the 5-year average. Fifty-seven percent of the soybeans were at or beyond the blooming stage by July 28, twenty-eight percentage points behind last year and 22 percentage points behind the 5-year average. By July 28, twenty-one percent of the Nation's soybeans were setting pods, 37 percentage points behind last year and 24 percentage points behind the 5-year average.

As of August 4, thirty-seven percent of the soybean acreage was setting pods, 36 percentage points behind last year and 26 percentage points behind the 5-year average. Sixty-eight percent of the acreage was at or beyond the pod setting stage on August 18, twenty-two percentage points behind last year and 17 percentage points behind the 5-year average. By September 1, eighty-six percent of the soybean acreage was setting pods, 12 percentage points behind last year and 10 percentage points behind the 5-year average.

As of September 29, fifty-five percent of the United States soybean acreage was at or beyond the leaf dropping stage, 26 percentage points behind last year and 21 percentage points behind the 5-year average. Soybean harvest was 7 percent complete as of September 29, fifteen percentage points behind last year and 13 percentage points behind the 5-year average. At that time, harvest progress was at or behind the respective State 5-year average pace in 15 of the 18 estimating States.

By October 6, the soybean crop was 14 percent harvested, 17 percentage points behind last year and 20 percentage points behind the 5-year average. As of November 3, harvest was 75 percent complete Nationwide, 6 percentage points behind last year and 12 percent behind the 5-year average. By November 3, harvest progress was behind the respective State 5-year average pace in Arkansas, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Mississippi, Missouri, North Dakota, Ohio, South Dakota, and Wisconsin.

Beginning in 2019, soybean estimates were discontinued in Florida and West Virginia.

Flaxseed: Production of flaxseed in 2019 totaled 6.40 million bushels, up 43 percent from the previous year. Harvested area totaled 319,000 acres in 2019, up 61 percent from the previous year. Harvested acreage in North Dakota, the largest flaxseed-producing State, was estimated at 230,000 acres, up 46 percent from 2018. The average United States yield for 2019, at 22.0 bushels per acre, was down 2.6 bushels from 2018.

Beginning in 2019, flaxseed estimates were discontinued in South Dakota.

Safflower: Production of safflower in 2019, at 194 million pounds, was down 14 percent from 2018 in comparable States. Growers planted 165,800 acres in 2019, an increase of 5 percent from 2018 in comparable States. Harvested area, at 152,700 acres, was up 4 percent from the previous year for comparable States. Average yield, at 1,272 pounds per acre, a decline of 266 pounds from the 2018 average yield for comparable States of 1,538 pounds per acre.

Record high yields were estimated in Idaho and Utah.

Beginning in 2019, safflower estimates were discontinued in North Dakota.

Other Oilseeds: Mustard seed production for 2019 decreased 13 percent from the previous year to 63.6 million pounds. This represents the sixth largest production for the Nation on record. Planted area, at 98,000 acres, was down just 4,500 acres from 2018. Harvested area, at 90,000 acres, was down 8 percent, or 7,800 acres, from last year. Planted and harvested acreage both represented the seventh highest area for the Nation since records began in 1991. The average yield, at 706 pounds per acre, was 43 pounds below the 2018 average yield.

Beginning in 2019, estimates for mustard seed were discontinued in Oregon and Washington.

Rapeseed production was estimated at 22.5 million pounds, up 173 percent from last year's production level and the represents the largest production for the Nation since records began in 1991. Growers planted 11,300 acres of rapeseed in 2019, an increase of 5,600 acres from 2018. Harvested area, at 10,400 acres, was up 5,000 acres from last year. The average yield in 2019 was 2,160 pounds per acre, an increase of 636 pounds from 2018 and is the second highest yield on record.

Beginning in 2019, estimates for rapeseed were discontinued in Montana, North Dakota, Oregon, and Washington. Estimates began for rapeseed in 2019 for Delaware, Kentucky, Pennsylvania, South Carolina, Tennessee, and Virginia.

Cotton: Upland cotton production was estimated at 19.4 million 480-pound bales, up 10 percent from the previous year. The United States yield for Upland cotton is estimated at 803 pounds per acre, down 44 pounds from 2018. Upland planted area, estimated at 13.5 million acres, was down 2 percent from last year. Harvested area, at 11.6 million acres, was up 16 percent from the previous year. In Kansas, planted and harvested area were at record highs. Record high yields were estimated in New Mexico and Tennessee for 2019. In Missouri, production was at an all-time high.

In the Southeast States (Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia), planting was completed by the end of June. The crop was rated in mostly fair to good condition throughout the growing season. Hot and dry weather would cause variable yields for the dryland cotton.

In the Delta region, a rainy planting season was complete by the end of June. Some areas within the region struggled with excessive moisture throughout the season. The crop progressed slower than usual but the harvest period was shorter than last year.

In Texas, rainfall caused planting delays. Overall, many growers reported having a very disappointing crop. The crop started out looking very promising but a very hot summer caused the dryland portion of the crop to struggle since the heat units accumulated very quickly. Many growers had to make decisions about harvesting dryland acreage.

American Pima producers planted 229,800 acres in 2019, down 8 percent from 2018. Harvested area, at 224,500 acres, was down 10 percent from the previous year. Production was estimated at 722 thousand 480-pound bales, down 10 percent from 2018. The United States yield was estimated at 1,544 pounds per acre, down 1 pound from the previous year.

Ginnings totaled 17,484,150 running bales prior to January 1.

Cottonseed: Production for 2019, based on a 3-year average lint-seed ratio, is expected to total 6.23 million tons, up 11 percent from last year.

Tobacco: United States all tobacco production for 2019 was estimated at 468 million pounds, down 12 percent from the previous year. Growers harvested a record low 227,120 acres, down 22 percent from a year earlier. Yield per acre averaged 2,060 pounds, up 230 pounds per acre from 2018.

Flue-cured tobacco production was estimated at 297 million pounds, down 12 percent from the previous year. Harvested acres totaled 149,300 in 2019, twenty-five percent below a year earlier. Average yield, at 1,990 pounds per acre, was up 278 pounds from 2018. Burley production totaled 92.8 million pounds, down 8 percent from the previous year. Growers harvested 48,600 acres, down 20 percent from 2018. Reported yields averaged 1,910 pounds per acre, up 265 pounds from a year earlier. Record low harvested acres and production were estimated for flue-cured tobacco and burley tobacco.

Sugarbeets: Production for 2019 was estimated at 28.6 million tons, down 14 percent from the previous year's revised production. Growers in the 11 major sugarbeet-producing States planted 1.13 million acres, up 2 percent from the 2018 revised area. Harvested area, at 979,300 acres, was down 11 percent from the previous year. Estimated yield, at 29.2 tons per acre, was down 1.2 tons from last year.

Harvest progress in Minnesota and North Dakota was delayed in October due to excessive rainfall. This combined with freezing temperatures resulted in some abandoned fields. Early snowstorms in Colorado, Montana, Nebraska, and Wyoming negatively impacted yield. Michigan's harvest was completed the second week of November despite cold and snowy conditions.

Sugarcane: Production of sugarcane for sugar and seed in 2019 was estimated at 31.8 million tons, of which 30.2 million tons were utilized for sugar and 1.63 million tons for seed. Total production for sugar and seed was down 8 percent from 2018. Sugarcane producers harvested 912,000 acres for sugar and seed in 2019, up 1 percent from the previous year. Yield for sugar and seed was estimated at 34.9 tons per acre, down 3.5 tons from 2018.

Dry edible beans: United States dry edible bean production was estimated at 20.8 million cwt for 2019, down 16 percent from the previous year for comparable States. Planted area was estimated at 1.29 million acres, up 7 percent from 2018 for comparable States. Harvested area was estimated at 1.18 million acres, up 1 percent from the previous year for comparable States. The average United States yield for dry edible beans for the 2019 season is 1,769 pounds per acre.

Beginning in 2019, dry edible bean estimates were discontinued in Montana and Texas. Also beginning in 2019, estimates no longer include chickpeas.

Lentils: Production of lentils is estimated at 5.39 million cwt, down 36 percent from a year ago. Planted area, at 486,000 acres, is down 38 percent from last year, while harvested acreage, at 431,000 acres, is down 40 percent from 2018. The average yield is expected to be 1,250 pounds per acre, up 79 pounds from last year. This is the lowest production on record since 2015.

In Montana, planting began late as spring precipitation persisted and many fields had standing water until the final week of May. Harvest reached 95 percent completed by the week ending September 29. Hail and wet conditions were reported throughout the season. In North Dakota, harvest started in early to mid-August and by October 20, harvest was 95 percent complete.

Wrinkled seed peas: Beginning in 2019, wrinkled seed peas were included with dry edible peas.

Dry edible peas: Production of dry edible peas was estimated at 22.3 million cwt, up 37 percent for comparable States from last year. Planted area, at 1.10 million acres, and harvested area, at 1.05 million acres, increased by 26 percent and 28 percent, respectively, for comparable States. The average United States yield is expected to total 2,124 pounds per acre, up 143 pounds from 2018 for the comparable States. This is the highest yield on record since 2004.

In Montana, plantings began late as spring precipitation persisted and many fields had standing water until the final week of May. Harvest reached 96 percent complete the week ending September 29. Comparatively, in 2018, harvest reached 95 percent complete the week ending September 8.

In North Dakota, planting was slightly delayed this year due to cold and wet spring weather. Crop development lagged behind both last year's and the 5-year average pace during the entire growing season. As of September 22, ninety-six percent of the crop was harvested.

Beginning in 2019, estimates were discontinued in Oregon.

Austrian winter peas: Beginning in 2019, Austrian winter peas were included with dry edible peas.

Potatoes: Production in 2019 was estimated at 423 million cwt, down 2 percent from the 2018 crop for comparable States. The average yield, at 449 cwt per acre, was down 5 cwt for comparable States from the previous year. Planted acres, at 968,300 acres, was up 1 percent from last year for comparable States. Harvested area, at 942,200 acres, was down 1 percent for comparable States from the previous year.

Idaho's good weather in May kept planting on schedule. By the end of September, heavy moisture and cooler temperatures throughout the month delayed harvest. Early freeze and additional moisture raised quality concerns. Growers were able to complete harvest in October. Washington planting was delayed but was completed by the first week of June. Excessive rain and hail storms affected some fields in western Washington, while the eastern part of the State recorded temperatures in the triple digits during the growing season. Even with planting lagging behind normal, harvest was only slightly behind schedule in August. Harvest was 95 percent complete as of November 3. North Dakota's harvest began in September. Prolonged wet conditions during late September and early October, in combination with cold conditions during the remainder of October, hampered harvest progress. Potato harvest was only 70 percent complete by October 27, in contrast to the previous year where harvest was virtually complete by the same date.

Beginning in 2019, potato estimates were discontinued in Alaska, Illinois, Kansas, Maryland, Missouri, Montana, New Jersey, New York, North Carolina, and Virginia.

Sweet potatoes: Beginning in 2019, estimates will be published in *Vegetable Summary* released in February 2020.

Beginning in 2019, sweet potato estimates were discontinued in Arkansas, Florida, and Louisiana.

Peppermint oil: Production in 2019 totaled 5.45 million pounds, up 1 percent from the previous year. Harvested area was estimated at 52,400 acres, down 10 percent from 2018. Average yield was estimated at 104 pounds of oil per acre, up 12 pounds from a year earlier.

Beginning in 2019, peppermint oil estimates were discontinued in California and Wisconsin.

Spearmint oil: Production totaled 2.41 million pounds in 2019, down 6 percent from the previous year. Harvested area was estimated at 18,500 acres, down 2,300 acres from a year earlier. The average yield was estimated at 130 pounds of oil per acre, up 6 pounds from 2018.

Beginning in 2019, spearmint oil estimates were discontinued in Michigan.

Hops: Production for Idaho, Oregon, and Washington in 2019 totaled a record high 112 million pounds, up 5 percent from the 2018 crop of 107 million pounds. Combined area harvested for Idaho, Oregon, and Washington in 2019 totaled a record high 56,544 acres, up 3 percent from the 2018 level of 55,035 acres. Harvested acreage increased in Idaho and Washington but declined in Oregon. The United States hop yield, at 1,981 pounds per acre, was up 38 pounds from a year ago.

Washington produced 73 percent of the United States hop crop for 2019; while Idaho accounted for 15 percent and Oregon accounted for the remaining 12 percent. Citra^R, Cascade, Zeus, Simcoe^R, C/T/Z^R, and Mosaic^R were the six leading varieties in Washington, accounting for 50 percent of the State's hop production. In Idaho, C/T/Z^R, Mosaic^R, Chinook, Zeus, Citra^R, and Cascade were the major varieties, accounting for 65 percent of the State's hop production. In Oregon, Nugget, Cascade, Citra^R, and Willamette were the major varieties, accounting for 50 percent of the State's hop production.

Maple syrup: The 2019 United States maple syrup production totaled 4.24 million gallons, up 1 percent from the revised previous year. The number of taps totaled 13.3 million, down 4 percent from the 2018 total. Yield per tap was 0.318 gallon, up 0.015 gallon from the previous season.

Beginning in 2019, maple syrup estimates were discontinued in Connecticut, Indiana, Massachusetts, Minnesota, Ohio, and West Virginia.

Taro: Beginning in 2019, taro estimates were discontinued.

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 79,000 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 2019 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, 2.2 for Upland cotton and 1.2 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, 4.4 percent for Upland cotton, and 2.4 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

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

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Travis Thorson, Head, Field Crops Section	(202) 720-7369
David Colwell – Current Agricultural Industrial Reports	(202) 720-3338
Chris Hawthorn – Corn, Flaxseed, Proso Millet	(202) 720-9526
James Johanson – County Estimates, Hay	(202) 690-8533
Jeff Lemmons – Oats, Soybeans	(202) 690-3234
Sammy Neal – Peanuts, Rice	(202) 720-7688
Irwin Anolik – Crop Weather, Barley	(202) 720-7621
Jean Porter – Rye, Wheat	(202) 720-8068
Chris Singh – Cotton, Cotton Ginnings, Sorghum	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369
Jorge Garcia-Pratts, Head, Fruits, Vegetables and Special Crops Section.....	(202) 720-2127
Joshua Bates – Almonds, Apples, Apricots, Asparagus, Carrots, Coffee, Onions, Plums, Prunes, Sweet Corn, Tobacco	(202) 720-4288
Jorge Garcia-Pratts – Dry Beans, Garlic, Hazelnuts, Honeydews, Kiwifruit, Lettuce, Maple Syrup, Mint, Pears, Sweet Cherries, Tart Cherries, Tomatoes	(202) 720-2127
Fleming Gibson – Cauliflower, Celery, Grapefruit, Lemons, Macadamia, Mandarins and tangerines, Mushrooms, Olives, Oranges	(202) 720-5412
Greg Lemmons – Cranberries, Cucumbers, Pistachios, Potatoes, Pumpkins, Raspberries, Squash, Strawberries, Sugarbeets, Sugarcane, Sweet Potatoes, Tame Blueberries, Wild Blueberries.....	(202) 720-4285
Dan Norris – Artichokes, Cantaloupes, Dry Edible Peas, Green Peas, Lentils, Nectarines, Papayas, Peaches, Snap Beans, Spinach, Walnuts, Watermelons	(202) 720-3250
Dawn Smoker – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas, Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans	(202) 720-4215

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

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

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