

United States Department of Agriculture

National Agricultural Statistics Service

Crop Production 2018 Summary

February 2019



ISSN: 1057-7823



Corn for grain production in 2018 was estimated at 14.4 billion bushels, down 1 percent from the 2017 estimate. The average yield in the United States was estimated at 176.4 bushels per acre, 0.2 bushel below the 2017 record yield of 176.6 bushels per acre. Area harvested for grain was estimated at 81.7 million acres, down 1 percent from the 2017 estimate.

Sorghum grain production in 2018 was estimated at 365 million bushels, up 1 percent from the 2017 total. Planted area for 2018 was estimated at 5.69 million acres, up 1 percent from the previous year. Area harvested for grain, at 5.06 million acres, was up less than 1 percent from 2017. Grain yield was estimated at 72.1 bushels per acre, up 0.4 bushel from 2017.

Rice: Production in 2018 totaled 224 million cwt, up 26 percent from the 2017 total. Planted area for 2018 was estimated at 2.95 million acres, up 20 percent from 2017. Area harvested, at 2.92 million acres, was up 23 percent from the previous crop year. The average yield for all United States rice was estimated at 7,692 pounds per acre, up 185 pounds from the 2017 average yield of 7,507 pounds per acre.

Soybean production in 2018 totaled a record 4.54 billion bushels, up 3 percent from 2017. The average yield per acre was estimated at 51.6 bushels, up 2.3 bushels from 2017, but 0.3 bushel below the record yield in 2016. Harvested area was down 2 percent from 2017 to 88.1 million acres.

All cotton production is estimated at 18.4 million 480-pound bales, down 12 percent from 2017. The United States yield is estimated at 838 pounds per acre, down 67 pounds from last year. Harvested area, at 10.5 million acres, is down 5 percent from last year.

This report was approved on February 8, 2019.

Secretary of Agriculture Designate

Stephen L. Censky

Agricultural Statistics Board Chairperson

Joseph L. Parsons

Contents

Principal Crops Area Planted and Harvested – States and United States: 2016-2018	8
Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2016-2018	10
Corn for Silage Area Harvested, Yield, and Production – States and United States: 2016-2018	12
Corn for Grain Plant Population per Acre – Selected States: 2014-2018	13
Corn for Grain Number of Ears per Acre – Selected States: 2014-2018	14
Corn for Grain Percentage Distribution by Plant Population per Acre – Selected States: 2014-2018	15
Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2014-2018	16
Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2014-2018	17
Sorghum Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2016-2018	18
Sorghum for Silage Area Harvested, Yield, and Production – States and United States: 2016-2018	19
Oat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	20
Barley Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	22
All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	24
Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	26
Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	28
Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	29
Wheat Production by Class – United States: 2016-2018	29
Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2016-2018	30
Rye Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	32
Proso Millet Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	33
All Hay Area Harvested, Yield, and Production – States and United States: 2016-2018	34
Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2016-2018	36
All Other Hay Area Harvested, Yield, and Production – States and United States: 2016-2018	38
All Forage Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018	40

All Alfalfa Forage Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018	41
All Other Forage Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018	42
All Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018	43
Alfalfa Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018	44
All Other Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018	45
New Seedings of Alfalfa and Alfalfa Mixtures – States and United States: 2016-2018	46
Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	47
Canola Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	48
Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2016-2018	50
Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	52
Soybean Pods with Beans per 18 Square Feet – Selected States: 2014-2018	54
Soybean Frequency of Farmer Reported Row Widths – Selected States: 2014-2018	56
Soybean Frequency of Farmer Reported Row Widths – Selected States: 2014-2018 (continued)	57
Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2014-2018.	58
Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2014-2018 (continued)	59
Flaxseed Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	60
Safflower Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	60
Other Oilseed Area Planted and Harvested, Yield, and Production by Crop – United States: 2016-2018	61
Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2016-2018	62
Cottonseed Production – States and United States: 2016-2018	64
Tobacco Area Harvested, Yield, and Production – States and United States: 2016-2018	65
Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2016-2018	66
Sugarbeet Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	68
Sugarcane Area Harvested, Yield, and Production – States and United States: 2016-2018	69
Potato Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	70

United States: 2016-2018	72
Percent of Fall Potatoes Planted to Major Varieties – Selected States: 2016-2018 Crop	74
Percent of Fall Potatoes Planted to Major Varieties – Seven-State Total: 2016-2018 Crop	75
Fall Potato Number of Hills by Type – Selected States: 2014-2018	76
Fall Potato Harvest Loss by Type – Selected States: 2014-2018	77
Fall Potato Grading Categories by Type – Selected States: 2016-2018	78
Round Potato Size Categories by Type – Selected States: 2016-2018	79
Long Potato (Russet and Shepody) Size Categories – Maine: 2016-2018	80
All Long Potato Size Categories – Selected States: 2016-2018	80
Sweet Potato Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	81
Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	83
Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2016-2018	84
Lentil Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	98
Wrinkled Seed Pea Production – States and United States: 2016-2018	98
Dry Edible Pea Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	99
Austrian Winter Pea Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018	99
Hop Area Harvested, Yield, and Production by Variety – States and United States: 2016-2018	100
Mint for Oil Area Harvested, Yield, and Production by Crop – States and United States: 2016-2018	104
Maple Syrup Taps, Yield, and Production – States and United States: 2016-2018	105
Taro Area Harvested, Yield, and Production – State and United States: 2016-2018	105
Alaska Area Planted and Harvested, Yield, and Production: 2016-2018	105
Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2017 and 2018	106
Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2017 and 2018	108
2018 Annual Weather Summary	110
2018 Annual Crop Summary	113
Crop Comments	116

Statistical Methodology		8
Information Contacts	12	o

Principal Crops Area Planted and Harvested - States and United States: 2016-2018

[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]

Otata	'	Area planted	'	Area harvested				
State	2016	2017	2018	2016	2017	2018		
	(1,000 acres)							
Alabama	2,360	2,280	2,330	2,247	2,180	2,232		
Arizona	678	700	647	662	685	622		
Arkansas	7,397	7,299	7,292	7,228	7,102	7,134		
California	3,235	3,096	2,940	2,834	2,701	2,510		
Colorado	6,171	6,245	6,148	5,882	5,874	5,599		
Connecticut	71	72	70	67	68	67		
Delaware Florida	457	462	453	439	429	409		
Georgia	1,146 3,629	1,144 3,634	1,119 3,653	1,120 3,278	1,119 3,288	1,060 3,186		
Hawaii	3,029	3,034	3,000	15	3,200	3,100		
i lawaii	15	-	_	13	_	_		
Idaho	4,173	4,205	4,187	4,037	4,070	4,074		
Illinois	22,771	22,851	22,936	22,574	22,694	22,780		
Indiana	12,080	12,130	12,120	11,980	12,030	11,990		
lowa	24,455	24,491	24,291	24,240	24,280	23,959		
Kansas	23,595 6,135	23,633 5,956	23,465	23,072 5,995	22,743 5,761	22,726 5,573		
Kentucky Louisiana	3,345	5,956 3,265	5,753 3,295	5,995 3,214	3,220	5,573 3,134		
Maine	243	226	229	237	221	222		
Maryland	1,605	1,633	1,572	1,474	1,370	1,371		
Massachusetts	98	93	93	96	90	91		
Michigan	6,424	6,349	6,410	6,314	6,246	6,283		
Michigan Minnesota	19,891	19,691	19,534	19,579	19,426	19,223		
Mississippi	4,177	4,159	4,144	4,114	4,099	4,064		
Missouri	13,404	13,533	13,782	13,107	13,277	13,413		
Montana	9,117	9,079	9,835	8,709	8,294	9,350		
Nebraska	19,474	19,566	19,792	19,153	19,244	19,419		
Nevada	366	426	401	356	409	380		
New Hampshire	70	59	52	69	58	51		
New Jersey	320	310	311	310	302	301		
New Mexico	913	906	870	761	669	620		
New York	3,015	2,800	2,854	2,950	2,739	2,790		
North Carolina	4,438	4,428	4,593	4,266	4,296	4,343		
North Dakota	23,716	23,617	24,163	23,048	22,714	23,642		
Ohio	9,995	10,010	10,015	9,900	9,890	9,890		
Oklahoma	9,963	9,827	10,036	8,140	7,879	7,575		
Oregon	2,155	2,080	2,003	2,107	2,042	1,940		
Pennsylvania	3,638	3,728 8	3,493 8	3,531 9	3,608 8	3,381 8		
Rhode IslandSouth Carolina	1,505	1,544	1,498	1,447	1,492	1,430		
South Dakota	17,291	17,422	17,300	16,857	16,228	16,595		
Tonnococo	E 020	4 0 4 4	4.040	4.000	4 704	A 77A		
Tennessee Texas	5,030 21,368	4,841 21,580	4,916 21,830	4,920 18,000	4,701 17,079	4,774 15,169		
Utah	928	944	21,630 871	907	919	836		
Vermont	270	267	255	265	261	249		
Virginia	2,680	2,674	2,634	2,593	2,554	2,502		
Washington	3,718	3,634	3,702	3,645	3,554	3,612		
West Virginia	670	652	616	665	646	609		
Wisconsin	7,889	7,781	7,997	7,708	7,545	7,731		
Wyoming	1,462	1,510	1,473	1,410	1,437	1,416		
United States 1	318,989	318,328	319,587	305,839	301,768	300,566		
Depresents zero	, -	, -		,	,	,		

⁻ Represents zero.

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

This page intentionally left blank.

Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2016-2018

Stata	Area	planted for all purpo	ses	Area harvested for grain				
State	2016	2017	2018	2016	2017	2018		
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)		
Alabama	330	250	260	315	235	250		
Arizona	95	65	70	50	32	15		
Arkansas	760	620	660	745	595	645		
California	420	430	430	100	80	65		
Colorado	1,340	1,460	1,470	1,170	1,300	1,200		
Connecticut 1	25	24	23	(NA)	(NA)	(NA)		
Delaware	170	180	170	`164	`171 l	`166		
Florida	80	75	100	40	37	65		
Georgia	410	290	325	340	245	285		
Idaho	340	340	360	100	115	135		
Illinois	11,600	11,200	11,000	11,450	10,950	10,850		
Indiana	5,600	5,350	5,350	5,470	5,200	5,200		
lowa	13,900	13,300	13,200	13,500	12,900	12,800		
Kansas	5,100	5,500	5,450	4,920	5,200	5,000		
Kentucky	1,500	1,320	1,340	1,400	1,220	1,230		
Louisiana	620	500	460	550	490	450		
Maine ¹	31	31	31	(NA)	(NA)	(NA)		
Maryland	460	480	450	400	420	390		
Massachusetts ¹	16	15	14	(NA)	(NA)	(NA)		
Michigan	2,400	2,250	2,300	2,040	1,890	1,940		
Minnesota	8,450	8,050	7,900	8,000	7,630	7,490		
Mississippi	750	520	480	720	500	465		
Missouri	3,650	3,400	3,500	3,500	3,250	3,330		
Montana	115	115	115	55	65	68		
Nebraska	9,850	9,550	9,600	9,550	9,300	9,310		
Nevada ¹	9,030	12	13	(NA)	(NA)	(NA)		
New Hampshire ¹	15	14	13	(NA)	(NA)	(NA)		
New Jersey	80	77	72	71	70	61		
New Mexico	120	125	135	41	43			
New York	1,100	1,000	1,100	570	485	35 645		
North Carolina	1,000	890	910	940	840	830		
North Dakota	3,450	3,420	3,150	3,270	3,230	2,930		
Ohio	3,550	3,400	3,500	3,300	3,150	3,300		
Oklahoma	400	350	320	350	305	280		
Oregon	80	85	80	39	44	45		
Pennsylvania	1,400	1,350	1,350	950	920	950		
Rhode Island ¹	1,400	1,330	1,550					
				(NA)	(NA)	(NA)		
South Carolina	375	350	340	350	325	310		
South Dakota Tennessee	5,600 880	5,700 750	5,300 740	5,130 830	5,080 710	4,860 690		
Texas	2,900	2,450	2,200	2,550	2,240	1,750		
Utah	2,900	2,430	70	2,330	20	1,730		
Vermont ¹	90	82	85 l	(NA)	(NA)	(NA)		
Virginia	490	500	485	340	340	325		
Washington	170	170	165	85 l	80	85		
	49	50	46	35	33	33		
West Virginia								
Wisconsin Wyoming	4,050 100	3,900 95	3,900 95	3,220 69	2,930 63	3,170 70		
United States	94,004	90,167	89,129	86,748	82,733	81,740		

See footnote(s) at end of table. --continued

Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2016-2018 (continued)

State		Yield per acre		Production			
State	2016	2017	2018	2016	2017	2018	
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	
Alabama	120.0	167.0	156.0	37,800	39,245	39,000	
Arizona	215.0	195.0	220.0	10,750	6,240	3,300	
Arkansas	171.0	183.0	181.0	127,395	108,885	116,745	
California	185.0	167.0	173.0	18,500	13,360	11,245	
Colorado	137.0	143.0	130.0	160,290	185,900	156,000	
Connecticut ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Delaware	170.0	189.0	145.0	27,880	32,319	24,070	
Florida	145.0	161.0	157.0	5,800	5,957	10,205	
	165.0	176.0	176.0	56,100	43,120	50,160	
Georgia				·		·	
Idaho	188.0	203.0	213.0	18,800	23,345	28,755	
Illinois	197.0	201.0	210.0	2,255,650	2,200,950	2,278,500	
Indiana	173.0	180.0	189.0	946,310	936,000	982,800	
lowa	203.0	202.0	196.0	2,740,500	2,605,800	2,508,800	
Kansas	142.0	132.0	129.0	698,640	686,400	645,000	
Kentucky	159.0	178.0	175.0	222,600	217,160	215,250	
Louisiana	165.0	184.0	173.0	90,750	90,160	77,850	
Maine ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Maryland	1 5 2.0	172.Ó	146.Ó	60,80Ó	72 <u>,</u> 240	56,940	
Massachusetts 1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Michigan	157.Ó	1 5 9.0	1 5 3.Ó	320,28Ó	300,51Ó	296,82Ó	
Minnesota	193.0	194.0	182.0	1,544,000	1,480,220	1,363,180	
Mississippi	166.0	189.0	185.0	119,520	94,500	86,025	
Missouri	163.0	170.0	140.0	570,500	552,500	466,200	
		70.0	85.0	5,500	4,550	5,780	
Montana	100.0						
Nebraska	178.0	181.0	192.0	1,699,900	1,683,300	1,787,520	
Nevada ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
New Hampshire ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
New Jersey	145.0	167.0	141.0	10,295	11,690	8,601	
New Mexico	150.0	134.0	187.0	6,150	5,762	6,545	
New York	129.0	161.0	159.0	73,530	78,085	102,555	
North Carolina	129.0	142.0	113.0	121,260	119,280	93,790	
North Dakota	158.0	139.0	153.0	516,660	448,970	448,290	
Ohio	159.0	177.0	187.0	524,700	557,550	617,100	
Oklahoma	121.0	126.0	134.0	42,350	38,430	37,520	
Oregon	230.0	212.0	195.0	8,970	9,328	8,775	
Pennsylvania	129.0	161.0	140.0	122,550	148,120	133,000	
Rhode Island ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
South Carolina	127.0	136.0	127.0	44,450	44,200	39,370	
South Dakota	161.0	145.0	160.0	825,930	736,600	777,600	
Tennessee	151.0	171.0	168.0	125,330	121,410	115,920	
Toyon	407.0	140.0	400.0	202.050	242 600	400.000	
Texas	127.0	140.0	108.0	323,850	313,600	189,000	
Utah	175.0	176.0	182.0	5,075	3,520	4,004	
Vermont ¹	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	
Virginia	148.0	140.0	146.0	50,320	47,600	47,450	
Washington	235.0	225.0	220.0	19,975	18,000	18,700	
West Virginia	145.0	152.0	152.0	5,075	5,016	5,016	
Wisconsin	178.0	174.0	172.0	573,160	509,820	545,240	
Wyoming	147.0	155.0	164.0	10,143	9,765	11,480	
United States	174.6	176.6	176.4	15,148,038	14,609,407	14,420,101	

⁽NA) Not available.

Area harvested for grain not estimated.

Corn for Silage Area Harvested, Yield, and Production - States and United States: 2016-2018

State		Area harvested		Yi	eld per ac	re		Production	
State	2016	2017	2018	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	7	7	5	16.0	17.0	16.0	112	119	80
Arizona	44	32	51	30.0	31.0	29.0	1,320	992	1,479
Arkansas	2	2	3	15.0	19.0	21.0	30	38	63
California	315	345	360	26.5	26.5	27.5	8,348	9,143	9,900
Colorado	140	130	190	24.0	25.5	22.0	3,360	3,315	4,180
Connecticut	21	20	20	18.5	19.5	19.0	389	390	380
Delaware	5	7	3	18.0	19.5	24.0	90	137	72
FloridaGeorgia	35 40	35 35	30 30	19.0 19.0	19.0 16.0	21.0 21.0	665 760	665 560	630 630
Idaho	235	220	220	30.0	30.0	30.0	7,050	6,600	6,600
Illinois	80	190	100	21.0	17.0	20.0	1,680	3,230	2,000
Indiana	100	110	100	22.0	21.0	21.0	2,200	2,310	2,100
lowa	330	330	270	24.0	21.0	20.5	7,920	6,930	5,535
Kansas	150	250	390	19.5	21.5	13.5	2,925	5,375	5,265
Kentucky	80	85	90	19.5	20.0	21.0	1,560	1,700	1,890
Louisiana	1	1	2	17.0	20.0	20.0	17	20	40
Maine	28	27	27	19.0	18.0	20.0	532	486	540
Maryland	50	50	45	18.0	20.5	19.0	900	1,025	855
Massachusetts	14	12	12	16.0	19.0	20.0	224	228	240
Michigan	340	340	340	19.5	18.5	17.5	6,630	6,290	5,950
Minnesota	390	360	340	21.5	21.5	22.0	8,385	7,740	7,480
Mississippi	10	7	7	14.0	18.0	15.0	140	126	105
Missouri	80	70	100	15.0	15.0	13.0	1,200	1,050	1,300
Montana Nebraska	55 240	25 210	37 220	22.0 19.5	20.0 19.5	20.0 21.0	1,210 4,680	500 4,095	740 4,620
Nevada	7	10	7	24.0	24.0	26.0	168	240	182
New Hampshire	14	13	12	20.0	20.0	21.0	280	260	252
New Jersey	5	6	6	16.0	19.5	19.0	80	117	114
New Mexico	75	80	95	23.0	25.0	22.0	1,725	2,000	2,090
New York	510	495	445	16.0	18.0	19.0	8,160	8,910	8,455
North Carolina	40	40	50	15.5	18.0	16.0	620	720	800
North Dakota	150	160	170	17.5	10.0	15.0	2,625	1,600	2,550
Ohio	210	210	160	15.5	20.0	20.0	3,255	4,200	3,200
Oklahoma	20	20	20	15.0	20.0	11.0	300	400	220
Oregon	40	40	34	27.0	24.0	23.0	1,080	960	782
Pennsylvania Rhode Island	440 2	420 2	390 2	17.5 18.5	21.5 18.0	19.0 21.0	7,700 37	9,030 36	7,410 42
South Carolina	13	16	19	14.0	18.0	14.0	182	288	266
South Dakota	420	510	360	17.5	12.5	16.5	7,350	6,375	5,940
Tennessee	40	30	38	19.0	22.0	19.0	760	660	722
Texas	250	150	270	17.0	22.0	16.0	4,250	3,300	4,320
Utah	49	56	45	24.0	25.0	23.0	1,176	1,400	1,035
Vermont	85	76	79	20.0	16.5	19.0	1,700	1,254	1,501
Virginia	130	135	135	20.0	18.0	19.0	2,600	2,430	2,565
Washington	85	90	80	26.0	27.0	26.0	2,210	2,430	2,080
West Virginia	13	16	11	19.0	20.0	19.0	247	320	209
Wisconsin Wyoming	790 26	880 30	670 23	21.0 23.0	19.0 24.0	20.0 24.0	16,590 598	16,720 720	13,400 552
United States	6,206	6,385	6,113	20.3	20.0	19.9	126,020	127,434	121,361

Corn for Grain Objective Yield Data

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

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

State and month	2014	2015	2016	2017	2018	State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois September	30,900	31,800	31,100	30,800	32,000	Nebraska All corn					
October	30,800	31,750	31,100	30,900	32,000	September	26,450	26,650	25,900	25,950	27,100
November	30,700	31,750	31,100	30,950	32,000	October	26,450	26,750	25,950	25,800	26,750
Final	30,700	31,750	31,100	30,950	32,000	November	26,200	26,700	26,000	25,700	26,750
Indiana						Final	26,200	26,700	26,000	25,700	26,750
September	31,200	30,400	30,200	29,550	30,450	Irrigated					
October	31,000	30,100	29,950	29,350	30,400	September	28,850	29,100	28,200	29,050	30,300
November	30,850	30,000	29,800	29,200	30,400	October	28,850	29,300	28,200	29,000	29,900
Final	30,850	29,950	29,800	29,200	30,400	November	28,700	29,250	28,300	28,750	29,900
lowa						Final	28,700	29,250	28,300	28,750	29,900
September	30,850	31,500	31,250	31,300	31,350	Non-irrigated					
October	30,800	31,450	31,050	31,150	31,150	September	22,650	23,500	22,900	22,500	23,350
November	30,800	31,450	31,050	31,150	31,100	October	22,550	23,550	23,000	22,200	23,100
Final	30,800	31,450	31,050	31,150	31,100	November	22,250	23,550	23,000	22,250	23,150
14						Final	22,250	23,550	23,000	22,250	23,150
Kansas September	23,750	23,400	22,550	22,050	22,600	Ohio					
October	23,750	23,400	22,550	22,050	22,600	September	29,600	30,000	30,250	29,250	30,550
November	23,550	23,800	22,550	22,100	22,450	October	29,700	30,000	30,100	29,150	30,400
Final	23,550	23,800	22,550	22,300	22,450	November	29,600	29,950	30,250	29,100	30,400
	-,	.,	,	,	,	Final	29,600	29,950	30,250	29,100	30,400
Minnesota											
September	31,400	30,650	30,800	30,750	30,950	South Dakota					
October	31,350	30,750	30,700	30,550	30,900	September	24,550	26,350	26,200	26,250	27,000
November Final	31,150 31,250	30,750 30,750	30,550 30,550	30,600 30,600	30,900 30,900	October November	24,250 24,150	26,250 26,200	26,100 26,000	26,200 26,200	26,750 27,000
Filiai	31,230	30,730	30,330	30,000	30,900	Final	24,150	26,200	26,000	26,200	27,000
Missouri							2 1,100	25,200	25,000	20,200	2.,000
September	27,650	27,900	27,300	27,850	28,500	Wisconsin					
October	27,400	27,600	27,750	27,850	28,400	September	30,000	29,900	30,100	29,450	31,000
November	27,500	27,600	27,800	27,950	28,400	October	29,900	29,700	29,900	29,100	30,600
Final	27,500	27,600	27,800	27,950	28,400	November	30,000	29,450	29,800	29,150	30,650
						Final	30,050	29,450	29,800	29,100	30,650
						10 State					
						September	29,200	29,550	29,050	28,800	29,500
						October	29,100	29,500	28,950	28,700	29,350
						November	29,000	29,450	28,950	28,700	29,400
						Final	29,050	29,450	28,950	28,700	29,350

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

State and month	2014	2015	2016	2017	2018	State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Illinois						Nebraska					
September	30,300	30,800	30,350	30,200	31,550	All corn					
October	30,300	30,750	30,450	30,300	31,500	September	26,500	26,650	25,700	25,800	27,100
November	30,100	30,800	30,450	30,250	31,500	October	26,450	26,700	25,350	26,050	26,750
Final	30,100	30,800	30,450	30,250	31,500	November Final	26,200 26,200	26,700 26,700	25,400	25,950	26,800 26,800
Indiana						rınaı	20,200	20,700	25,400	25,950	20,000
September	30,850	29,550	29,600	28,900	30,000	Irrigated					
October	30,650	29,300	29,400	29,100	29,800	September	28,750	29,000	27,850	28,650	29,950
November	30,450	29,250	29,250	28,850	29,750	October	28,900	29,250	27,500	28,950	29,350
Final	30,450	29,150	29,250	28,850	29,750	November	28,700	29,200	27,550	28,750	29,300
						Final	28,700	29,200	27,550	28,750	29,300
lowa											
September	30,350	30,950	30,550	30,600	31,150	Non-irrigated					
October	30,150	30,800	30,400	30,600	30,900	September	22,900	23,650	22,850	22,600	23,850
November	30,150	30,850	30,500	30,600	30,800	October	22,550	23,550	22,550	22,800	23,650
Final	30,150	30,850	30,500	30,600	30,800	November	22,250	23,550	22,550	22,900	23,850
Kansas						Final	22,250	23,550	22,550	22,900	23,850
September	24,450	23,300	22,650	22,800	22,350	Ohio					
October	24,430	23,700	22,450	22,600	21,650	September	29,200	29,650	29,750	29,500	30,750
November	24,000	23,650	22,450	22,650	21,700	October	29,700	29,650	29,200	29,250	30,300
Final	24,000	23,650	22,450	22,650	21,700	November	29,600	29,600	29,600	29,150	30,300
1 III CI	21,000	20,000	22, 100	22,000	21,700	Final	29,600	29,600	29,600	29,150	30,300
Minnesota							_==,===	_==,===		,	
September	31,050	30,500	30,550	30,750	30,850	South Dakota					
October	31,050	30,400	30,350	30,850	30,850	September	24,850	26,200	25,650	26,250	28,100
November	30,750	30,450	30,250	30,850	30,800	October	24,400	25,900	25,350	26,150	27,750
Final	30,950	30,450	30,250	30,600	30,800	November	24,450	25,750	25,450	26,200	27,950
						Final	24,450	25,750	25,450	25,850	28,050
Missouri											
September	27,800	27,350	26,900	27,750	27,400	Wisconsin					
October	27,950	26,900	27,150	27,800	27,300	September	30,000	29,500	29,300	28,950	30,700
November	27,900	26,850	27,150	27,850	27,300	October	29,750	28,950	28,900	28,800	30,450
Final	27,900	26,850	27,150	27,850	27,300	November	29,550	28,600	28,750	28,600	30,450
						Final	29,700	28,600	28,750	28,550	30,450
						10-State					
						September	29,000	29,050	28,550	28,550	29,350
						October	28,850	28,950	28,350	28,550	29,100
						November	28,750	28,900	28,400	28,500	29,100
						Final	28,750	28,900	28,400	28,450	29,100

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

	-	-	Plant pop	pulations		
State and year	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	1.3	1.8 1.3	2.7 1.8	10.7 7.9	20.1 17.2	63.4 71.8
2016 2017	0.9 0.5	0.5 1.4	4.3 3.8	11.8 11.5	18.0 20.6	64.5 62.2
2018	-	0.9	1.4	6.6	15.6	75.5
Indiana	3.0	0.7	4.5	11.2	24.6	56.0
2015 2016	4.6 1.7	1.5 1.7	4.6 8.3	11.5 11.6	20.8 19.8	57.0 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
lowa	0.8 0.4	2.8 0.8	1.2 2.4	8.3 4.9	20.5 15.5	66.4 76.0
2013	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
Kansas2014	29.3	6.9	23.3	8.6	19.0	12.9
2015 2016	20.2 27.9	18.2 14.8	11.1 19.4	27.2 12.0	6.1 17.6	17.2 8.3
2010	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
Minnesota	0.7	2.1	5.7	8.5	18.4	64.6
2015 2016	0.8	1.6 3.0	3.1 4.5	11.0 11.4	22.8 21.2	61.5 59.1
2010	2.8	4.7	5.6	7.5	12.1	67.3
2018	-	1.7	8.7	6.1	13.9	69.6
Missouri	4.7	9.3	11.2	17.8	30.8	26.2
2015 2016	6.6 3.0	3.3 6.0	15.4 14.0	28.5 28.0	25.3 23.0	20.9 26.0
2010	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
Nebraska	13.4	8.4	15.6	18.4	17.9	26.3
2015 2016	8.4 9.6	7.8 10.1	15.6 16.3	16.8 20.2	21.2 19.7	30.2 24.1
2017	16.8	6.3	12.6	19.4	17.8	27.1
2018	12.0	4.9	7.1	16.4	25.1	34.5
Ohio2014	5.5	1.8	5.5	8.3	35.8	43.1
2015 2016	4.4	1.8 2.9	2.7 1.0	8.0	21.2 26.9	61.9 57.7
2016	1.9 2.7	4.4	7.1	9.6 15.0	25.7	45.1
2018	1.0	3.9	3.9	7.8	23.5	59.9
South Dakota	19.7	14.5	10.5	29.0	18.4	7.9
2015 2016	12.1	5.5 5.3	17.6 17.1	20.9 26.3	26.3	17.6
2010	13.2 8.1	13.5	16.2	16.2	18.4 25.7	19.7 20.3
2018	7.4	12.6	11.6	18.9	21.1	28.4
Wisconsin	2.1	4.2	4.2	9.4	27.1	53.0
2015 2016	2.4 2.4	2.4 4.9	7.3 3.7	14.6 11.0	23.2 18.3	50.1 59.7
2010	3.9	2.6	6.6	19.7	21.1	46.1
2018	2.0	2.0		7.9	19.8	68.3

⁻ Represents zero.

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

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

⁻ Represents zero.

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

		Row width (inches)				Average		
State and year	Samples	20.5 or less	20.6- 30.5	30.6- 34.5	34.6- 36.5	36.6- 38.5	38.6 or greater	row width
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)
Illinois	224 227 211 209 212	2.2 4.0 2.4 1.4 1.9	79.0 78.9 87.6 85.1 87.7	17.0 16.7 9.5 12.0 10.4	- - 0.5 -	1.8 0.4 - 0.5 -	0.5 0.5	30.0 29.7 29.8 30.1 29.9
Indiana	134 130 121 123 131	5.2 4.6 3.3 2.4 6.1	79.9 77.7 72.7 78.9 71.7	11.9 13.1 22.3 17.9 19.8	1.5 1.5 1.7 0.8 0.8	1.5 2.3 - - 0.8	0.8 - - 0.8	29.7 29.8 29.8 29.8 29.8
lowa	254 245 225 237 239	5.1 2.4 2.2 0.8 3.8	72.0 76.8 76.9 76.4 77.4	18.9 19.2 19.1 19.0 17.2	1.6 1.6 0.9 0.4 0.8	2.0 - 0.9 3.0 0.8	0.4 - - 0.4	30.0 30.0 30.0 30.4 29.9
Xansas	116 99 108 99 97	4.3 2.0 4.6 2.0 3.1	75.0 74.8 85.2 75.8 76.3	19.0 20.2 10.2 21.2 20.6	1.7 2.0 - -	1.0 - - -	- - - 1.0	29.8 30.2 29.6 30.1 29.7
Minnesota	141 127 132 107 115	2.8 3.1 2.3 4.7 1.7	78.8 85.9 78.0 81.4 82.6	13.5 10.2 17.4 8.4 11.3	2.8 0.8 0.8 0.9 2.6	1.4 - 1.5 3.7 0.9	0.7 - 0.9 0.9	29.1 28.5 28.8 28.9 29.3
Missouri	107 91 100 103 93	0.9 - 1.0 1.9 1.1	71.0 73.6 76.0 66.1 76.2	18.7 24.2 20.0 25.2 18.3	4.7 1.0 3.9 2.2	4.7 2.2 2.0 1.0 1.1	- - 1.9 1.1	30.6 30.4 30.0 30.4 30.1
Nebraska	179 179 178 191 183	1.7 2.2 - - 1.6	58.0 71.6 65.2 70.7 65.6	19.6 15.1 20.2 15.7 15.3	17.3 8.9 9.0 9.4 12.6	3.4 2.2 4.5 4.2 4.9	- 1.1 -	31.2 30.7 31.2 31.0 31.2
Ohio	109 113 104 113 102	0.9 1.8 4.8 0.9 2.9	83.5 74.2 81.7 83.2 79.5	13.8 20.4 10.6 15.0 17.6	2.7 1.9 0.9	0.9 - 1.0 - -	0.9 0.9 - -	30.2 30.4 29.8 30.0 29.9
South Dakota	76 91 76 74 95	2.6 3.3 2.6 8.1 5.3	75.1 72.5 64.6 62.1 69.4	17.1 19.8 26.3 28.4 20.0	1.3 2.2 3.9 - 2.1	2.2 1.3 1.4 2.1	3.9 - 1.3 - 1.1	30.4 29.7 30.4 29.6 30.0
Wisconsin	96 82 82 75 101	6.3 2.4 1.2 1.3	70.7 63.5 72.0 61.5 75.2	18.8 30.5 22.0 29.3 21.8	2.4 1.2 5.3	2.1 1.2 1.3 3.0	2.1 1.2 2.4 1.3	29.8 30.0 30.5 30.6 30.2

⁻ Represents zero.

Sorghum Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2016-2018

State	Area	planted for all purpo	ses	Aı	rea harvested for gra	in
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas	47	9	12	44	7	10
Colorado	450	410	355	415	360	325
Georgia	20	21	25	10	12	15
Illinois	18	17	18	16	15	16
Kansas	3,100	2,600	2,800	2,950	2,450	2,650
Louisiana	52	15	8	46	13	6
Mississippi	13	5	4	11	4	3
Missouri	65	30	30	54	23	21
Nebraska New Mexico	200 110	180 85	230	175	130 48	170
New Mexico	110	85	80	85	48	47
North Carolina	45	22	18	37	17	8
Oklahoma	400	315	300	370	295	240
South Dakota	270	270	260	200	170	200
Texas	1,900	1,650	1,550	1,750	1,500	1,350
United States	6,690	5,629	5,690	6,163	5,044	5,061
State	Yield per acre				Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas	73.0	78.0	77.0	3,212	546	770
Colorado	50.0	52.0	53.0	20,750	18,720	17,225
Georgia	54.0	54.0	53.0	540	648	795
Illinois	93.0	83.0	111.0	1,488	1,245	1,776
Kansas	91.0	82.0	88.0	268,450	200,900	233,200
Louisiana	102.0	91.0	84.0	4,692	1,183	504
Mississippi	89.0	72.0	90.0	979	288	270
Missouri	95.0	107.0	100.0	5,130	2,461	2,100
Nebraska	102.0	89.0	94.0	17,850	11,570	15,980
New Mexico	41.0	35.0	38.0	3,485	1,680	1,786
North Carolina	55.0	55.0	60.0	2,035	935	480
Oklahoma	55.0	53.0	50.0	20,350	15,635	12,000
South Dakota	79.0	68.0	80.0	15,800	11,560	16,000
Texas	66.0	63.0	46.0	115,500	94,500	62,100
United States	77.9	71.7	72.1	480,261	361,871	364,986

Sorghum for Silage Area Harvested, Yield, and Production – States and United States: 2016-2018

State		Area harvested		Y	'ield per acr	e	Production			
State	2016	2017	2018	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)	
Arkansas	1	1	1	18.0	16.0	18.0	18	16	18	
Colorado	10	25	8	9.0	15.0	14.0	90	375	112	
Georgia	8	8	8	10.0	13.0	11.0	80	104	88	
Illinois	1	1	1	17.0	12.0	14.0	17	12	14	
Kansas	95	85	60	15.5	13.0	15.0	1,473	1,105	900	
Louisiana	1	1	1	13.0	12.0	12.0	13	12	12	
Mississippi	1	1	1	10.0	8.0	10.0	10	8	10	
Missouri		5	7	17.0	19.0	12.0	153	95	84	
Nebraska	10	20	20	14.0	11.0	11.0	140	220	220	
New Mexico	18	17	18	13.0	11.0	11.0	234	187	198	
North Carolina	4	4	7	10.0	10.0	10.0	40	40	70	
Oklahoma	15	12	12	10.0	18.0	5.0	150	216	60	
South Dakota	40	37	40	13.0	11.0	12.5	520	407	500	
Texas	85	65	80	14.5	15.0	13.0	1,233	975	1,040	
United States	298	282	264	14.0	13.4	12.6	4,171	3,772	3,326	

Oat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

State		Area planted 1			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	50	40	40	20	10	15
Arkansas	11	11	10	8	8	7
California	110	110	110	11	10	6
Colorado	55	50	95	10	9	7
Georgia	45	50	60	15	15	15
Idaho	55	50	40	15	10	10
Illinois	45	35	40	20	20	25
lowa	120	115	135	43	42	33
Kansas	120	100	120	30	25	18
Maine	25	22	21	22	21	19
Michigan	65	55	75	30	40	50
Minnesota	210	170	180	120	95	105
Missouri	45	30	35	19	13	16
Montana	60	70	70	28	18	23
Nebraska	135	110	125	25	35	22
New York	90	55	69	60	35	43
North Carolina	35	35	30	9	10	11
North Dakota	290	295	300	110	80	105
Ohio	50	60	55	25	20	30
Oklahoma	65	45	50	8	16	10
Oregon	30	25	20	10	10	5
Pennsylvania	85	70	65	50	40	35
South Carolina	17	20	19	7	8	7
South Dakota	295	290	290	110	60	95
Texas	470	455	450	60	60	50
Washington	18	16	17	7	4	4
Wisconsin	210	180	200	100	85	90
Wyoming	23	25	25	7	5	9
United States	2,829	2,589	2,746	979	804	865

See footnote(s) at end of table. --continued

Oat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

Stata		Yield per acre			Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	55.0	60.0	63.0	1,100	600	945
Arkansas	73.0	85.0	75.0	584	680	525
California	65.0	65.0	70.0	715	650	420
Colorado	80.0	65.0	50.0	800	585	350
Georgia	58.0	49.0	71.0	870	735	1,065
Idaho	83.0	71.0	84.0	1,245	710	840
Illinois	81.0	79.0	83.0	1,620	1,580	2,075
lowa	76.0	77.0	63.0	3,268	3,234	2,079
Kansas	57.0	54.0	49.0	1,710	1,350	882
Maine	71.0	67.0	67.0	1,562	1,407	1,273
Michigan	58.0	54.0	63.0	1,740	2,160	3,150
Minnesota	68.0	75.0	59.0	8,160	7,125	6,195
Missouri	60.0	65.0	45.0	1,140	845	720
Montana	47.0	47.0	43.0	1,316	846	989
Nebraska	60.0	49.0	69.0	1,500	1,715	1,518
New York	55.0	55.0	54.0	3,300	1,925	2,322
North Carolina	60.0	66.0	66.0	540	660	726
North Dakota	66.0	58.0	82.0	7,260	4,640	8,610
Ohio	74.0	70.0	65.0	1,850	1,400	1,950
Oklahoma	43.0	42.0	48.0	344	672	480
Oregon	90.0	83.0	99.0	900	830	495
Pennsylvania	67.0	58.0	46.0	3,350	2,320	1,610
South Carolina	46.0	51.0	62.0	322	408	434
South Dakota	82.0	70.0	82.0	9,020	4,200	7,790
Texas	50.0	45.0	50.0	3,000	2,700	2,500
Washington	61.0	42.0	46.0	427	168	184
Wisconsin	66.0	59.0	61.0	6,600	5,015	5,490
Wyoming	55.0	85.0	57.0	385	425	513
United States	66.0	61.7	64.9	64,628	49,585	56,130

¹ Includes area planted in preceding fall.

Barley Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

Stata		Area planted 1			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alaska ²	(X)	(X)	5	(X)	(X)	4
Arizona	17	20	12	16	17	9
California	85	75	65	60	29	26
Colorado	80	70	58	75	68	52
Delaware	35	32	25	25	18	14
Idaho	600	530	550	580	510	530
Kansas ³	(NA)	(NA)	17	(NA)	(NA)	6
Maine ³	(NA)	(NA)	17	(NA)	(NA)	16
Maryland	50	50	45	34	27	24
Michigan ³	(NA)	(NA)	20	(NA)	(NA)	5
Minnesota	95	80	80	79	68	67
Montana	990	770	790	780	565	600
New York ³	(NA)	(NA)	10	(NA)	(NA)	8
North Carolina 3	(NA)	(NA)	11	(NA)	(NA)	8
North Dakota	`740	`52Ó	470	`64Ó	`40Ó	385
Oregon	45	47	43	32	38	26
Pennsylvania	55	60	45	38	45	33
South Dakota 3	(NA)	(NA)	48	(NA)	(NA)	13
Utah	` 29 l	` 25	21	` 19	` 18	16
Virginia	33	30	30	12	11	9
Washington	110	95	85	93	85	67
Wisconsin ³	(NA)	(NA)	25	(NA)	(NA)	10
Wyoming	95	82	71	82	63	50
United States ⁴	3,059	2,486	2,543	2,565	1,962	1,978

See footnote(s) at end of table.

--continued

Barley Area Planted and Harvested, Yield, and Production – States and United States: **2016-2018** (continued)

Otata		Yield per acre			Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alaska ²	(X)	(X)	43.0	(X)	(X)	172
Arizona	128.0	131.0	100.0	2,048	2,227	900
California	75.0	50.0	69.0	4,500	1,450	1,794
Colorado	129.0	132.0	145.0	9,675	8,976	7,540
Delaware	76.0	85.0	78.0	1,900	1,530	1,092
Idaho	107.0	95.0	101.0	62,060	48,450	53,530
Kansas ³	(NA)	(NA)	31.0	(NA)	(NA)	186
Maine ³	(NA)	(NA)	73.0	(NA)	(NA)	1,168
Maryland	72.0	76.0	70.0	2,448	2,052	1,680
Michigan ³	(NA)	(NA)	43.0	(NA)	(NA)	215
Minnesota	66.0	76.0	76.0	5,214	5,168	5,092
Montana	60.0	51.0	56.0	46,800	28,815	33,600
New York ³	(NA)	(NA)	58.0	(NA)	(NA)	464
North Carolina 3	(NA)	(NA)	80.0	(NA)	(NA)	640
North Dakota	67.0	65.0	74.0	42,880	26,000	28,490
Oregon	67.0	62.0	53.0	2,144	2,356	1,378
Pennsylvania	75.0	70.0	63.0	2,850	3,150	2,079
South Dakota 3	(NA)	(NA)	55.0	(NA)	(NA)	715
Utah	82.0	75.0	86.0	1,558	1,350	1,376
Virginia	67.0	73.0	70.0	804	803	630
Washington	77.0	53.0	73.0	7,161	4,505	4,891
Wisconsin 3	(NA)	(NA)	45.0	(NA)	(NA)	450
Wyoming	96.0	102.0	100.0	7,872	6,426	5,000
United States ⁴	77.9	73.0	77.4	199,914	143,258	153,082

(NA) Not available.

⁽X) Not applicable.

1 Includes area planted in preceding fall.
2 Previously included in the Alaska table. For 2016 and 2017 data, refer to the Alaska table on page 105.

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

All Wheat Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

State		Area planted 1		Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Alabama	230	150	160	170	100	110	
Arizona	111	115	91	103	105	74	
Arkansas	195	200	175	115	125	95	
California	480	420	420	217	182	143	
Colorado	2,361	2,260	2,260	2,200	2,029	1,954	
Delaware	70	75	75	65	60	45	
Florida	22	20	15	15	10	10	
Georgia	180	160	200	110	70	70	
Idaho	1,190	1,175	1,191	1,125	1,109	1,136	
Illinois	520	500	600	470	470	560	
11111015	320	300	000	470	470	300	
Indiana	330	290	310	280	240	260	
lowa	25	16	16	17	8	6	
Kansas	8,500	7,600	7,700	8,200	6,950	7,300	
Kentucky	510	480	450	400	310	300	
Louisiana	25	20	15	20	13	10	
Maryland	360	410	360	260	185	200	
Michigan	610	480	510	570	425	470	
Minnesota	1,321	1,170	1,621	1,268	1,135	1,575	
Mississippi	65	45	55	50	25	30	
Missouri	690	640	740	570	540	520	
Montana	5,130	5,140	5,390	4,975	4,665	5,165	
Nebraska	1,370	1,120	1,100	1,310	1,020	1,010	
Nevada	15	29	23	9	14	8	
New Jersey	25	23	18	21	17	15	
New Mexico	345	330	315	210	135	105	
New York	120	140	110	115	125	95	
North Carolina	420	450	460	355	375	370	
North Dakota	7,590	6,680	7,735	7,405	6,260	7,635	
Ohio	580	490	490	560	460	450	
Oklahoma	5,000	4,500	4,400	3,500	2,900	2,500	
Oregon	810	775	800	797	763	770	
Pennsylvania	190	210	195	150	150	145	
South Carolina	60	90	80	50	75	65	
South Dakota	2,270	1,887	1,883	2,157	1,196	1,628	
	400	370	380	335	275	285	
Tennessee Texas	5,000	4,700	4,500	2,800	2,350	1,750	
	5,000 129	134	4,500	2,800 120	2,350	1,750	
Utah	210	210	230	175	120	155	
Virginia							
Washington	2,240	2,195	2,220	2,200	2,140	2,165	
West Virginia	7	8	7	4	4	3	
Wisconsin	270	210	240	250	170	200	
Wyoming	140	135	130	125	105	115	
United States	50,116	46,052	47,800	43,848	37,555	39,605	

See footnote(s) at end of table.

--continued

All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

State		Yield per acre			Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	70.0	77.0	72.0	11,900	7,700	7,92
Arizona	97.8	100.8	102.4	10,073	10,589	7,58
Arkansas	54.0	52.0	55.0	6,210	6.500	5.22
California	79.7	68.2	81.2	17,302	12,404	11,60
Colorado	48.2	43.2	36.1	106,000	87,598	70.50
Delaware	67.0	73.0	71.0	4,355	4,380	3,19
Florida	30.0	37.0	36.0	450	370	36
Georgia	46.0	47.0	54.0	5,060	3,290	3,78
daho	91.4	81.8	91.9	102,795	90,723	104,41
llinois	74.0	76.0	66.0	34,780	35,720	36,96
	24.0	74.0	74.0	00.000	47.700	40.40
ndiana	81.0	74.0	71.0	22,680	17,760	18,46
owa	63.0	68.0	58.0	1,071	544	34
Kansas	57.0	48.0	38.0	467,400	333,600	277,40
Kentucky	80.0	77.0	66.0	32,000	23,870	19,80
_ouisiana	45.0	46.0	65.0	900	598	65
Maryland	64.0	71.0	63.0	16,640	13,135	12,60
Michigan	89.0	79.0	76.0	50,730	33,575	35,72
Minnesota	59.0	66.9	59.0	74,828	75,935	92,93
Mississippi	48.0	58.0	49.0	2,400	1,450	1,47
Missouri	70.0	68.0	59.0	39,900	36,720	30,68
Montana	42.4	27.3	38.3	210,875	127,430	197,63
Nebraska	54.0	46.0	49.0	70,740	46,920	49,49
Nevada	72.3	105.7	112.5	651	1,480	9(
New Jersey	64.0	64.0	62.0	1,344	1,088	93
New Mexico	22.0	30.0	15.0	4,620	4,050	1,57
New York	74.0	67.0	69.0	8,510	8,375	6,55
North Carolina	41.0	55.0	57.0	14,555	20,625	21,09
North Dakota	45.0	37.9	47.6	332,978	237,133	363,48
Ohio	80.0	74.0	75.0	44,800	34,040	33,75
Oklahoma	39.0	34.0	28.0	136,500	98,600	70,00
	50.4	20.6		·	10.000	,
Oregon	50.1	63.0	67.0	39,937	48,069	51,59
Pennsylvania	68.0	72.0	65.0	10,200	10,800	9,42
South Carolina	43.0	49.0	54.0	2,150	3,675	3,5
South Dakota	51.6	34.8	44.4	111,281	41,678	72,29
Tennessee	73.0	70.0	65.0	24,455	19,250	18,52
Гехаs	32.0	29.0	32.0	89,600	68,150	56,00
Jtah	59.9	52.0	52.0	7,184	6,240	5,3
/irginia	53.0	66.0	60.0	9,275	9,570	9,30
Washington	71.5	66.6	70.8	157,290	142,500	153,21
West Virginia	61.0	69.0	46.0	244	276	13
Wisconsin	79.0	68.0	71.0	19,750	11,560	14,20
Wyoming	34.0	28.0	34.0	4,250	2,940	3,91
United States	52.7	46.4	47.6	2,308,663	1,740,910	1,884,45

¹ Includes area planted in preceding fall.

Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

State		Area planted 1		Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Alabama	230	150	160	170	100	110	
Arizona	14	25	20	7	16	4	
Arkansas	195	200	175	115	125	95	
California	425	385	380	170	155	110	
Colorado	2,350	2,250	2,250	2,190	2,020	1,950	
Delaware	70	75	75	65	60	45	
Florida	22	20	15	15	10	10	
Georgia	180	160	200	110	70	70	
Idaho	770	720	720	720	670	680	
Illinois	520	500	600	470	470	560	
Indiana	330	290	310	280	240	260	
lowa	25	16	16	17	8	6	
Kansas	8,500	7,600	7,700	8,200	6,950	7,300	
Kentucky	510	480	450	400	310	300	
Louisiana	25	20	15	20	13	10	
Maryland	360	410	360	260	185	200	
Michigan	610	480	510	570	425	470	
Minnesota	11	10	11	8	5	5	
Mississippi	65	45	55	50	25	30	
Missouri	690	640	740	570	540	520	
Montana	2,250	1,750	1,650	2,150	1,590	1,570	
Nebraska	1,370	1,120	1,100	1,310	1,020	1,010	
Nevada	10	14	13	6	5	5	
New Jersey	25	23	18	21	17	15	
New Mexico	345	330	315	210	135	105	
New York	120	140	110	115	125	95	
North Carolina	420	450	460	355	375	370	
North Dakota	130	70	85	120	35	70	
Ohio	580	490	490	560	460	450	
Oklahoma	5,000	4,500	4,400	3,500	2,900	2,500	
Oregon	720	700	720	710	690	695	
Pennsylvania	190	210	195	150	150	145	
South Carolina	60	90	80	50	75	65	
South Dakota	1,180	910	830	1,100	520	660	
Tennessee	400	370	380	335	275	285	
Texas	5,000	4,700	4,500	2,800	2,350	1,750	
Utah	120	120	120	112	108	94	
Virginia	210	210	230	175	145	155	
Washington	1,700	1,700	1,700	1,670	1,650	1,650	
West Virginia	7	8	7	4	4	3	
Wisconsin	270	210	240	250	170	200	
Wyoming	140	135	130	125	105	115	
United States	36,149	32,726	32,535	30,235	25,301	24,742	

See footnote(s) at end of table. --continued

Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

01-1-		Yield per acre			Production	
State -	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	70.0	77.0	72.0	11,900	7,700	7,920
Arizona	95.0	100.0	40.0	665	1,600	160
Arkansas	54.0	52.0	55.0	6,210	6,500	5,225
California	78.0	64.0	77.0	13,260	9,920	8,470
Colorado	48.0	43.0	36.0	105,120	86,860	70,200
Delaware	67.0	73.0	71.0	4,355	4,380	3,195
Florida	30.0	37.0	36.0	450	370	360
Georgia	46.0	47.0	54.0	5,060	3,290	3,780
Idaho	94.0	80.0	90.0	67,680	53,600	61,200
Illinois	74.0	76.0	66.0	34,780	35,720	36,960
Indiana	81.0	74.0	71.0	22,680	17,760	18,460
lowa	63.0	68.0	58.0	1,071	544	348
Kansas	57.0	48.0	38.0	467,400	333,600	277,400
Kentucky	80.0	77.0	66.0	32,000	23,870	19,800
Louisiana	45.0	46.0	65.0	900	598	650
Maryland	64.0	71.0	63.0	16,640	13,135	12,600
,	89.0	71.0	76.0	50,730	33,575	35,720
Michigan Minnesota	61.0	79.0 45.0	60.0	488	225	300
Mississippi	48.0	58.0	49.0	2,400	1,450	1,470
Missouri	70.0	68.0	59.0	39,900	36,720	30,680
Montana	49.0	42.0	50.0	105,350	66,780	78,500
Nebraska	54.0	46.0	49.0	70,740	46,920	49,490
Nevada	75.0	107.0	120.0	450	535	600
New Jersey	64.0	64.0	62.0	1,344	1,088	930
New Mexico	22.0	30.0	15.0	4,620	4,050	1,575
New York	74.0	67.0	69.0	8,510	8,375	6,555
North Carolina	41.0	55.0	57.0	14,555	20.625	21,090
North Dakota	48.0	37.0	43.0	5,760	1,295	3,010
Ohio	80.0	74.0	75.0	44,800	34,040	33,750
Oklahoma	39.0	34.0	28.0	136,500	98,600	70,000
Oregon	50.0	63.0	67.0	35,500	43,470	46.565
Pennsylvania	68.0	72.0	65.0	10,200	10,800	9.425
South Carolina	43.0	49.0	54.0	2,150	3,675	3,510
South Dakota	58.0	40.0	48.0	63,800	20,800	31,680
Tennessee	73.0	70.0	65.0	24,455	19,250	,
		29.0		,	·	18,525
Texas	32.0		32.0	89,600	68,150	56,000
Utah	60.0	52.0	52.0	6,720	5,616	4,888
Virginia	53.0	66.0	60.0	9,275	9,570	9,300
Washington	78.0	73.0	76.0	130,260	120,450	125,400
West Virginia	61.0	69.0	46.0	244	276	138
Wisconsin	79.0	68.0	71.0	19,750	11,560	14,200
Wyoming	34.0	28.0	34.0	4,250	2,940	3,910
United States	55.3	50.2	47.9	1,672,522	1,270,282	1,183,939

¹ Includes area planted in preceding fall.

Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

Stata		Area planted	_	Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Colorado	11	10	10	10	9	4	
Idaho	410	430	460	395	415	445	
Minnesota	1,310	1,160	1,610	1,260	1,130	1,570	
Montana	2,100	2,500	2,900	2,060	2,290	2,820	
Nevada	5	15	10	3	9	3	
North Dakota	6,000	5,350	6,550	5,850	5,050	6,490	
Oregon	90	75	80	87	73	75	
South Dakota	1,080	970	1,050	1,050	670	965	
Utah	9	14	10	8	12	9	
Washington	540	495	520	530	490	515	
United States	11,555	11,019	13,200	11,253	10,148	12,896	
Ctoto	Yield per acre			Production			
State	2016	2017	2018	2016	2017	2018	
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	
Colorado	88.0	82.0	76.0	880	738	304	
Idaho	87.0	85.0	95.0	34,365	35,275	42,275	
Minnesota	59.0	67.0	59.0	74,340	75,710	92,630	
Montana	36.0	21.0	34.0	74,160	48,090	95,880	
Nevada	67.0	105.0	100.0	201	945	300	
North Dakota	46.0	41.0	49.0	269,100	207,050	318,010	
Oregon	51.0	63.0	67.0	4,437	4,599	5,025	
South Dakota	45.0	31.0	42.0	47,250	20,770	40,530	
Utah	58.0	52.0	52.0	464	624	468	
Washington	51.0	45.0	54.0	27,030	22,050	27,810	
United States	47.3	41.0	48.3	532,227	415,851	623,232	

Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

Ctata		Area planted		Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Arizona	97 55 10 780 1,460	90 35 25 890 1,260	71 40 11 840 1,100 3	96 47 10 765 1,435	89 27 24 785 1,175 6	70 33 11 775 1,075 3	
United States	2,412	2,307	2,065	2,360	2,106	1,967	
Ctata		Yield per acre		Production			
State	2016	2017	2018	2016	2017	2018	
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	
Arizona	98.0 86.0 75.0 41.0 40.5 33.0	101.0 92.0 77.0 16.0 24.5 18.0	106.0 95.0 85.0 30.0 39.5 28.0	9,408 4,042 750 31,365 58,118 231	8,989 2,484 1,848 12,560 28,788 108	7,420 3,135 935 23,250 42,463 84	
United States	44.0	26.0	39.3	103,914	54,777	77,287	

Wheat Production by Class - United States: 2016-2018

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

Crop	2016	2017	2018
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Winter Hard red Soft red Hard white Soft white	1,082,004 345,172 25,477 219,869	750,132 293,222 23,724 203,204	662,249 285,558 19,347 216,785
Spring Hard red Hard white Soft white Durum	491,325 7,539 33,363 103,914	384,193 8,772 22,886 54,777	587,007 13,510 22,715 77,287
Total	2,308,663	1,740,910	1,884,458

Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2016-2018

Class and State		Area planted		Area harvested		
Class and State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Long grain						
Arkansas	1,410	995	1,250	1,390	955	1,245
California	9	7	11	9	7	11
Louisiana	413	370	395	405	366	392
Mississippi	195	115	140	194	114	139
Missouri	230	160	215	225	151	211
Texas	185	164	187	180	155	183
United States	2,442	1,811	2,198	2,403	1,748	2,181
Medium grain						
Arkansas	135	165	190	130	148	181
California	490	400	455	485	398	453
Louisiana	24	30	45	23	29	44
Missouri	6	9	9	6	9	g
Texas	10	9	8	7	3	6
United States	665	613	707	651	587	693
Short grain ¹						
Arkansas	1	1	1	1	1	1
California	42	38	40	42	38	40
United States	43	39	41	43	39	41
All rice						
Arkansas	1,546	1,161	1,441	1,521	1,104	1,427
California	541	445	506	536	443	504
Louisiana	437	400	440	428	395	436
Mississippi	195	115	140	194	114	139
Missouri	236	169	224	231	160	220
Texas	195	173	195	187	158	189
United States	3,150	2,463	2,946	3,097	2,374	2,915

See footnote(s) at end of table. --continued

Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2016-2018 (continued)

Class and State		Yield per acre		Production			
Class and State	2016	2017	2018	2016	2017	2018	
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	
Long grain							
Arkansas	6,940	7,510	7,550	96,466	71,721	93,998	
California	7,300	7,400	6,000	657	518	660	
Louisiana	6,660	6,720	7,160	26,973	24,595	28,067	
Mississippi	7,180	7,400	7,350	13,929	8,436	10,217	
Missouri	6,640	7,460	7,760	14,940	11,265	16,374	
Texas	7,500	7,300	8,000	13,500	11,315	14,640	
United States	6,927	7,314	7,517	166,465	127,850	163,956	
Medium grain							
Arkansas	6,760	7,340	7,330	8,788	10,863	13,267	
California	9,000	8,620	8,810	43,650	34,308	39,909	
Louisiana	6,160	6,580	6,880	1,417	1,908	3,027	
Missouri	6,860	7,060	7,950	412	635	716	
Texas	3,800	5,100	7,000	266	153	420	
United States	8,377	8,155	8,274	54,533	47,867	57,339	
Short grain ¹							
Arkansas	6,000	6,000	6,000	60	60	60	
California	7,350	6,450	7,140	3,087	2,451	2,856	
United States	7,319	6,438	7,112	3,147	2,511	2,916	
All							
Arkansas	6,920	7,490	7,520	105,314	82,644	107,325	
California	8,840	8,410	8,620	47,394	37,277	43,425	
Louisiana	6,630	6,710	7,130	28,390	26,503	31,094	
Mississippi	7,180	7,400	7,350	13,929	8,436	10,217	
Missouri	6,650	7,440	7,770	15,352	11,900	17,090	
Texas	7,360	7,260	7,970	13,766	11,468	15,060	
United States	7,237	7,507	7,692	224,145	178,228	224,211	

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

Rye Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

State	Area planted ¹			Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Georgia Oklahoma	200 260	210 260	190 240	30 75	25 45	15 50	
Other States ²	1,431	1,491	1,581	306	230	208	
United States	1,891	1,961	2,011	411	300	273	
State	Yield per acre			Production			
State	2016	2017	2018	2016	2017	2018	
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	
Georgia Oklahoma	21.0 25.0	19.0 24.0	26.0 22.0	630 1,875	475 1,080	390 1,100	
Other States ²	35.4	37.8	33.4	10,832	8,697	6,942	
United States	32.5	34.2	30.9	13,337	10,252	8,432	

¹ Includes area planted in preceding fall.

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

Proso Millet Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

State		Area planted		Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Colorado	300 95 48	320 105 53	300 95 48	285 88 40	290 86 27	275 89 39	
United States	443	478	443	413	403	403	
State		Yield per acre		Production			
State	2016	2017	2018	2016	2017	2018	
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	
Colorado	27.5 35.0 41.0	38.5 32.0 36.0	28.0 32.0 37.0	7,838 3,080 1,640	11,165 2,752 972	7,700 2,848 1,443	
United States	30.4	36.9	29.8	12,558	14,889	11,991	

All Hay Area Harvested, Yield, and Production – States and United States: 2016-2018

01-1-		Area harvested			Yield per acre	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama	810	860	850	2.10	2.50	2.80
Alaska ¹	(X)	(X)	22	(X)	(X)	1.30
Arizona	320	325	300	8.18	7.96	7.82
Arkansas	1,304	1,293	1,203	2.00	2.00	1.80
California	1,220	1,140	980	5.57	5.60	5.80
Colorado	1,380	1,440	1,420	2.59	2.75	2.55
Connecticut	46	48	47	1.89	2.29	2.34
Delaware	17	15	13	3.06	3.20	2.62
Florida	300	300	280	2.70	2.50	3.10
Georgia	600	620	600	2.30	2.90	2.90
Idaho	1,330	1,430	1,340	3.85	3.59	3.75
Illinois	480	490	470	3.12	3.25	2.79
Indiana	500	540	510	3.56	2.76	2.71
owa	910	1,060	940	3.53	3.08	3.19
Kansas	2,600	2,470	2,360	2.40	2.22	2.02
Kentucky	2,260	2,125	1,895	2.48	2.43	2.68
Louisiana	410	400	380	2.90	2.60	2.20
Maine	140	125	110	1.88	1.93	1.89
Maryland	215	190	195	2.68	2.68	2.83
Massachusetts	82	78	79	1.57	1.78	1.48
Michigan	870	870	810	2.71	2.29	2.24
Minnesota	1,520	1,360	1,220	2.92	2.79	2.52
Mississippi	640	610	590	2.20	2.40	2.10
Missouri	2,830	3,000	3,070	2.14	2.00	1.76
Montana	2,600	2,500	2,900	1.92	1.90	1.93
Nebraska	2,380	2,510	2,700	2.40	2.37	2.59
Nevada	340	385	365	3.37	3.35	3.17
New Hampshire	55	45	39	1.98	1.80	1.77
New Jersey	115	108	114	1.85	2.22	1.93
New Mexico	275	285	250	3.71	4.00	3.73
New York	1,360	1,320	1,220	1.68	2.01	2.25
North Carolina	687	657	816	2.31	2.30	2.71
North Dakota	2,530	2,580	2,670	1.69	1.33	1.66
Ohio	965	960	970	2.56	2.47	2.43
Oklahoma	2,960	2,930	3,230	1.90	1.92	1.59
Oregon	1,130	1,085	1,000	3.44	3.05	3.06
Pennsylvania	1,300	1,420	1,190	2.38	2.61	2.30
Rhode Island	7	6	6	1.29	2.00	2.00
South Carolina	320	300	270	2.10	2.60	2.50
South Dakota	3,050	2,950	3,250	1.78	1.56	1.78
Tennessee	1,815	1,665	1,720	2.16	2.26	2.46
Texas	4,630	4,520	4,740	2.53	2.11	1.77
Jtah	690	705	650	3.74	3.74	3.38
Vermont	180	185	170	1.92	1.97	2.15
√irginia	1,215	1,195	1,140	2.34	2.31	2.23
Washington	840	740	760	3.98	4.02	3.64
West Virginia	587	567	535	1.84	1.78	1.72
Nisconsin	1,330	1,270	1,360	2.95	2.77	2.17
Wyoming	1,040	1,100	1,090	2.20	2.28	2.20
United States 2	53,185	52,777	52,839	2.52	2.43	2.34

See footnote(s) at end of table. --continued

All Hay Area Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

Stata	Production						
State	2016	2017	2018				
	(1,000 tons)	(1,000 tons)	(1,000 tons)				
Alabama	1,701	2,150	2,380				
\laska ¹	(X)	(X)	29				
Arizona	2,619	2,586	2,346				
Arkansas	2,614	2,591	2,168				
California	6,790	6,388	5,682				
Colorado	3,570	3,960	3,621				
Connecticut	87	110	110				
Delaware	52	48	34				
Florida	810	750	868				
Georgia	1,380	1,798	1,740				
daho	5,126	5,128	5,019				
Ilinois	1,497	1,593	1,309				
ndiana	1,781	1,492	1,382				
owa	3,210	3,268	2,998				
ansas	6,240	5,472	4,760				
Kentucky	5,600	5,170	5,088				
	- I		•				
ouisiana	1,189	1,040	836				
Maine	263	241	208				
/laryland	576	509	552				
Massachusetts	129	139	117				
/lichigan	2,357	1,989	1,812				
/linnesota	4,440	3,797	3,077				
lississippi	1,408	1,464	1,239				
lissouri	6,066	5,985	5,408				
Iontana	5,000	4,740	5,595				
lebraska	5,717	5,955	6,985				
	- I	•	•				
levada	1,146	1,288	1,158				
lew Hampshire	109	81	69				
lew Jersey	213	240	220				
New Mexico	1,019	1,140	932				
New York	2,285	2,650	2,744				
North Carolina	1,587	1,514	2,210				
lorth Dakota	4,285	3,423	4,419				
Ohio	2,471	2,371	2,356				
Oklahoma	5,611	5,638	5,121				
Oregon	3,891	3,304	3,056				
Pennsylvania	3,093	3,709	2,739				
	9	12	12				
Rhode Island	-						
South CarolinaSouth Dakota	672 5,425	780 4,603	675 5,788				
	0.004	0.707					
ennessee	3,924	3,767	4,231				
exas	11,714	9,548	8,374				
Itah	2,578	2,636	2,195				
ermont	345	364	366				
irginia	2,847	2,764	2,540				
/ashington	3,343	2,973	2,764				
/est Virginia	1,079	1,009	922				
/isconsin	3,926	3,522	2,953				
Vyoming	2,288	2,508	2,993				
Jnited States ²							
inited States *	134,082	128,207	123,600				

⁽X) Not applicable.

¹ Previously was included in the Alaska table. For 2016 and 2017 data please refer to the Alaska table on page 105.

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: 2016-2018

01-1-		Area harvested		Yield per acre			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	
Arizona	285	285	260	8.60	8.40	8.30	
Arkansas	4	3	3	3.60	3.60	2.50	
California	720	700	620	7.00	6.80	6.90	
Colorado	680	720	730	3.50	3.70	3.40	
Connecticut	6	8	7	1.90	2.30	2.50	
Delaware	5	5	4	2.80	3.50	2.90	
Idaho	1,000	1,060	1,050	4.40	4.00	4.20	
Illinois	230	230	250	3.90	4.10	3.30	
Indiana	210	250	240	4.20	3.30	3.00	
lowa	550	720	620	4.20	3.50	3.70	
Kansas	700	570	610	4.30	3.60	3.50	
Kentucky	160	185	145	3.50	3.30	3.10	
Maine	10	10	10	2.20	2.20	2.30	
Maryland	35	35	40	4.10	3.90	4.50	
Massachusetts	7	8	9	2.30	2.50	2.10	
Michigan	640	610	590	3.00	2.60	2.40	
Minnesota	1,000	870	720	3.40	3.35	2.85	
Missouri	230	300	270	3.20	2.40	2.40	
Montana	1,800	1,650	1,900	2.00	2.10	2.05	
Nebraska	780	860	850	4.15	3.95	4.30	
Nevada	200	225	185	4.40	4.30	4.70	
New Hampshire	5	5	4	1.70	1.80	2.20	
New Jersey	12	13	9	3.20	3.10	3.40	
New Mexico	190	190	160	4.60	5.00	4.70	
New York	350	400	300	2.20	2.60	2.40	
North Carolina	7	7	6	3.30	2.70	3.90	
North Dakota	1,430	1,380	1,470	1.65	1.35	1.70	
Ohio	365	350	350	3.40	3.20	3.10	
Oklahoma Oregon	210 420	280 420	230 420	3.80 4.70	3.10 4.70	2.70 4.10	
Pennsylvania	350	430	300	3.00	3.10	2.90	
Rhode Island	1	1	1	1.10	2.00	2.00	
South Dakota	1,700	1,550	1,750	2.00	1.75	2.15	
Tennessee	15	15	20	3.60	3.60	3.30	
Texas	130	120	140	5.30	4.40	5.60	
Utah	530	550	500	4.20	4.20	3.70	
Vermont	30	30	20	2.50	1.80	1.80	
Virginia	65	65	40	3.10	3.40	3.00	
Washington	430	390	350	5.20	5.20	4.50	
West Virginia	17	17	15	3.10	2.70	2.50	
Wisconsin	1,000	910	820	3.20	3.00	2.35	
Wyoming	520	580	590	2.70	2.80	2.70	
United States	17,029	17,007	16,608	3.44	3.28	3.17	

--continued

Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

Ctata		Production	
State	2016	2017	2018
	(1,000 tons)	(1,000 tons)	(1,000 tons)
Arizona	2,451	2,394	2,158
Arkansas	14	11	8
California	5,040	4,760	4,278
Colorado	2,380	2,664	2,482
Connecticut	11	18	18
Delaware	14	18	12
Idaho	4,400	4,240	4,410
Illinois	897	943	825
Indiana	882	825	720
lowa	2,310	2,520	2,294
Kansas	3,010	2,052	2,135
Kentucky	560	611	450
Maine	22	22	23
Maryland	144	137	180
Massachusetts	16	20	19
Michigan	1,920	1,586	1,416
Minnesota	3,400	2,915	2,052
Missouri	736	720	648
Montana	3,600	3,465	3,895
Nebraska	3,237	3,397	3,655
Nevada	880	968	870
New Hampshire	9	9	9
New Jersey	38	40	31
New Mexico	874	950	752
New York	770	1,040	720
North Carolina	23	19	23
North Dakota	2,360	1,863	2,499
Ohio	1,241 798	1,120 868	1,085
Oklahoma	798 1,974	1,974	621 1,722
Oregon	1,974	1,574	1,722
Pennsylvania	1,050	1,333	870
Rhode Island	1	2	2
South Dakota	3,400	2,713	3,763
Tennessee	54	54	66
Texas	689	528	784
Utah	2,226	2,310	1,850
Vermont	75 202	54	36
Virginia		221	120
Washington	2,236 53	2,028 46	1,575 38
West Virginia	3,200	2,730	1,927
Wisconsin	3,200 1,404	2,730 1,624	1,593
United States	58,601	55,812	52,634

All Other Hay Area Harvested, Yield, and Production – States and United States: 2016-2018

01-1-		Area harvested			Yield per acre	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama ¹	810	860	850	2.10	2.50	2.80
Alaska 1 2	(X)	(X)	22	(X)	(X)	1.30
Arizona	35	40	40	4.80	4.80	4.70
Arkansas	1,300	1,290	1,200	2.00	2.00	1.80
California	500	440	360	3.50	3.70	3.90
Colorado	700	720	690	1.70	1.80	1.65
Connecticut	40	40	40	1.90	2.30	2.30
Delaware	12	10	9	3.20	3.00	2.40
Florida ¹	300	300	280	2.70	2.50	3.10
Georgia ¹	600	620	600	2.30	2.90	2.90
Idaho	330	370	290	2.20	2.40	2.10
Illinois	250	260	220	2.40	2.50	2.20
Indiana	290	290	270	3.10	2.30	2.45
lowa	360	340	320	2.50	2.20	2.20
Kansas	1,900	1,900	1,750	1.70	1.80	1.50
Kentucky	2,100	1,940	1,750	2.40	2.35	2.65
Louisiana 1	410	400	380	2.90	2.60	2.20
Maine	130	115	100	1.85	1.90	1.85
Maryland	180	155	155	2.40	2.40	2.40
Massachusetts	75	70	70	1.50	1.70	1.40
Michigan	230	260	220	1.90	1.55	1.80
Minnesota	520	490	500	2.00	1.80	2.05
Mississippi ¹	640	610	590	2.20	2.40	2.10
Missouri	2,600	2,700	2,800	2.05	1.95	1.70
Montana	800	850	1,000	1.75	1.50	1.70
Nebraska	1,600	1,650	1,850	1.55	1.55	1.80
Nevada	140	160	180	1.90	2.00	1.60
New Hampshire	50	40	35	2.00	1.80	1.70
New Jersey	103	95	105	1.70	2.10	1.80
New Mexico	85	95	90	1.70	2.00	2.00
New York	1,010	920	920	1.50	1.75	2.20
North Carolina	680	650	810	2.30	2.30	2.70
North Dakota	1,100	1,200	1,200	1.75	1.30	1.60
Ohio	600	610	620	2.05	2.05	2.05
Oklahoma	2,750	2,650	3,000	1.75	1.80	1.50
Oregon	710	665	580	2.70	2.00	2.30
Pennsylvania	950	990	890	2.15	2.40	2.10
Rhode Island	6	5	5	1.30	1.90	1.90
South Carolina 1	320	300	270	2.10	2.60	2.50
South Dakota	1,350	1,400	1,500	1.50	1.35	1.35
Tennessee	1,800	1,650	1,700	2.15	2.25	2.45
Texas	4,500	4,400	4,600	2.45	2.05	1.65
Utah	160	155	150	2.20	2.10	2.30
Vermont	150	155	150	1.80	2.00	2.20
Virginia	1,150	1,130	1,100	2.30	2.25	2.20
Washington	410	350	410	2.70	2.70	2.90
West Virginia	570	550	520	1.80	1.75	1.70
Wisconsin	330	360	540	2.20	2.20	1.90
Wyoming	520	520	500	1.70	1.70	1.60
United States 3	36,156	35,770	36,231	2.09	2.02	1.96

See footnote(s) at end of table. --continued

All Other Hay Area Harvested, Yield, and Production - States and United States: 2016-2018 (continued)

Company Comp	01-11-		Production	
Alabana	State	2016	2017	2018
Alaska¹ (X) (X) 29 Arizona 168 192 188 Arizona 168 192 188 Arizonassa 2,600 2,580 2,160 Colorado 1,150 1,296 1,138 Colorado 1,150 1,296 1,138 Colorado 1,150 1,296 1,138 Delavarie 38 3 3 2 Piorda 80 70 668 Georgia¹ 1,380 1,790 1,688 Georgia¹ 1,380 600 650 484 Ilinois 600 650 484 Ilinois 600 650 484 Ilinois 660 650 484 Ilindiana 899 667 662 Ilinois 1,040 4,559 4,538 Kentucky 5,040 4,559 4,538 Maine 2,11 2,19 1,95 Massachu		(1,000 tons)	(1,000 tons)	(1,000 tons)
Arizona 188 192 188 Arizona 2,600 2,580 2,1600 2,580 2,1600 2,580 2,1600 2,580 2,1600 2,580 1,1628 1,1404 2,000 1,1206 1,1300 1,266 1,139 2,2600 2,580 2,2600 2,	Alabama ¹	1,701	2,150	2,380
Arizona 188 192 188 Arizona 2,600 2,580 2,1600 2,580 2,1600 2,580 2,1600 2,580 2,1600 2,580 1,1628 1,1404 2,000 1,1206 1,1300 1,266 1,139 2,2600 2,580 2,2600 2,	Alaska 1 2	(X)	(X)	29
California 1,750 1,628 1,404 Colorado 1,190 1,266 1,139 Conneciciut 76 92 92 Pelordar 88 30 22 Florida ' 810 750 888 Georgia ' 1,380 1,788 1,740 Idaho 726 888 609 Illinois 600 650 484 Indician 899 667 662 Iowa 900 748 704 Karsas 3,230 3,420 2,625 Kentucky 5,040 4,559 4,638 Louisiana ' 1,189 1,040 836 Maine 241 219 185 Maryland 432 372 372 Massachusetts 113 119 98 Michigan 437 403 396 Minnesota 1,040 882 1025 Mississippi* 1,408		168	192	188
Colorado 1,190 1,296 1,139 Connecticut 76 92 92 92 Delaware 38 30 22 Plonds 1 810 750 868 Georgia 1 1,380 1,788 1,740	Arkansas	2,600	2,580	2,160
Colorado 1,190 1,296 1,139 Connecticut 76 92 92 92 Delaware 38 30 22 Plonds 1 810 750 868 Georgia 1 1,380 1,788 1,740	California	1,750	1,628	1,404
Connecticut 76 92 92 Plotda' 810 750 888 Georgia' 1,360 1,798 1,740 Idaho 726 888 609 Illinois 600 650 484 Illinois 600 650 484 Indiana 899 667 662 Iowa 900 748 704 Kanasa 3,230 3,420 2,625 Kentucky 5,040 4,559 4,638 Louisiana' 1,189 1,040 836 Maine 241 219 185 Maryland 432 372 372 372 Massachusetts 113 119 98 Michigan 437 403 398 Mirasissipi' 1,404 882 1,025 Mississipi' 1,408 1,444 1,239 Mississipi' 1,408 1,445 1,248 Morbarska	Colorado			•
Delaware 38 30 22 Florida' 810 750 888 Georgia' 1,380 1,798 1,740 Idaho 726 888 609 Illinois 600 650 484 Indiana 889 667 662 Iowa 900 748 748 Kansas 3,230 3,420 2,625 Kantucky 5,040 4,559 4,638 Louisiana' 1,189 1,040 386 Maine 241 219 185 Massachusetts 113 119 98 Michigan 437 403 36 Minnesota 1,040 882 1,025 Mississippi 1,484 1,239 Mississippi 1,484 1,239 Mississippi 1,484 1,239 Mississippi 1,484 1,239 Mississippi 1,486 1,486 1,256 Mi	_			
Florida				
Caecing	Florida 1			
Idaho	Georgia 1			
Illinois	Georgia	1,300	1,790	1,740
Indiana				
lowa 900 748 704 Kansas 3,220 3,420 2,625 Kentuck 5,040 4,559 4,638 Louisiana¹ 1,189 1,040 836 Maine 241 219 185 Maryland 432 372 372 Massachusetts 113 119 98 Michigan 437 403 396 Minnesota 1,040 882 1,025 Mississippi¹ 1,408 1,464 1,239 Mississippi¹ 1,408 1,464 1,239 Mississippi¹ 1,400 1,275 1,700 Nevada 2,480 2,558 3,330 Nevada 2,266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 1,91 1,91 New Morita 1,554 1,610 2,024 North Dakot				
Kansas 3,230 3,420 2,625 Kentucky 5,040 4,559 4,638 Louisiana 1 1,189 1,040 836 Maire 241 219 185 Maryland 432 372 372 Massachusetts 113 119 98 Michigan 437 403 396 Misnissippi 1 1,040 882 1,025 Mississippi 1 1,408 1,464 1,239 Mississippi 1 1,408 1,464 1,239 Mississippi 1 1,400 1,275 1,700 Mississippi 1 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 Nevada 2,666 320 2,88 New Harsey 175 200 1,88 New Jersey 175 200 1,89 New Mexico 1,45 1,91 2,024 New Mexico 1,564 1,495 1,87	_			
Kentucky 5,040 4,559 4,638 Louisiana¹ 1,189 1,040 836 Maine 241 219 185 Maryland 432 372 372 Missaschusetts 113 119 98 Michigan 437 403 396 Minnesota 1,040 882 1,025 Mississippi¹ 1,408 1,464 1,229 Missouri 5,330 5,265 4,760 Montana 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 New Hampshire 100 72 60 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,256 1,560 1,220				
Louisiana 1 1,189 1,040 836 Maine 241 219 185 Maryland 432 372 372 Massachusetts 113 119 98 Michigan 437 403 396 Michigan 482 1,025 Mississippi 1 1,408 1,464 1,239 Missouri 5,330 5,265 4,760 Montana 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 Newdad 2,666 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Work 1,515 1,610 2,024 New Work 1,515 1,610 2,024 New Work 1,515 1,610 2,024 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklaoma 4,	Kansas			
Maine 241 219 185 Maryland 432 372 372 Massachusetts 113 119 98 Michigan 437 403 396 Minnesota 1,040 882 1,025 Mississippi 1,408 1,464 1,239 Missouri 5,330 5,265 4,760 Mortana 1,400 1,275 1,700 Nevada 2,480 2,558 3,330 Nevada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Carolina 1,564 1,495 2,187 North Carolina 1,512 1,510 1,200 Ohio 1,230 1,251 1,271		5,040	4,559	4,638
Maryland 432 372 372 Massachusetts 113 119 98 Michigan 437 403 396 Minnesota 1,040 882 1,025 Mississipi 1 1,408 1,464 1,239 Missouri 5,330 5,265 4,760 Montana 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 Newada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New Mexico 145 160 2,024 North Carolina 1,564 1,495 2,187 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500	Louisiana 1	1,189	1,040	836
Massachusetts 113 119 98 Michigan 437 403 396 Minnesota 1,040 882 1,025 Mississippi 1 1,408 1,464 1,239 Mississippi 1 1,408 1,464 1,239 Mississippi 1 1,400 1,275 1,700 Montana 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 New Ada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Okajoma 4,813 4,770 4,500	Maine	241	219	185
Massachusetts 113 119 98 Michigan 437 403 396 Minnesota 1,040 882 1,025 Mississippi 1 1,408 1,464 1,239 Mississippi 1 1,408 1,464 1,239 Mississippi 1 1,400 1,275 1,700 Montana 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 New Ada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Okajoma 4,813 4,770 4,500	Maryland	432	372	372
Minnesota 1,040 882 1,025 Mississippi 1 1,408 1,464 1,239 Missiour 5,330 5,265 4,760 Montana 1,400 1,275 1,700 Mebraska 2,480 2,558 3,330 Nevada 266 320 288 New Hampshire 100 72 60 New Hesco 145 190 180 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Carolina 1,564 1,495 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 1 10 South Carolina 1 672 780 675		113	119	98
Minnesota 1,040 882 1,025 Mississippi 1 1,408 1,464 1,239 Missiour 5,330 5,265 4,760 Montana 1,400 1,275 1,700 Mebraska 2,480 2,558 3,330 Nevada 266 320 288 New Hampshire 100 72 60 New Hesco 145 190 180 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Carolina 1,564 1,495 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 1 10 South Carolina 1 672 780 675	Michigan	437	403	396
Mississippi 1,408 1,464 1,239 Missouri 5,330 5,265 4,760 Montana 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 Newada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 672 780 675 South Dakota 2,025 1,890 2,025				
Missouri 5,330 5,265 4,760 Montana 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 Newada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Work 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Pende Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590		*		•
Montana 1,400 1,275 1,700 Nebraska 2,480 2,558 3,330 Nevada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,2376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590			· ·	•
Nebraska 2,480 2,558 3,330 Nevada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345		•	· · · · · · · · · · · · · · · · · · ·	•
Nevada 266 320 288 New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Okiahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,344 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 <			· ·	
New Hampshire 100 72 60 New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina ¹ 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420				•
New Jersey 175 200 189 New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189				
New Mexico 145 190 180 New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Okiahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,893 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 <	•			
New York 1,515 1,610 2,024 North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026				
North Carolina 1,564 1,495 2,187 North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 10 South Carolina 1 672 780 675 5outh Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 1,65 1,60 1,189 1,60 1,60 1,60 1,60 1,60 1,60 1,60 1,60 1,60 1,60 1,60 1,60 1,60 1,60 1,60	New Mexico	145	190	180
North Dakota 1,925 1,560 1,920 Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 884 United States 3 75,481 72,395 70,966 <td></td> <td></td> <td>•</td> <td>•</td>			•	•
Ohio 1,230 1,251 1,271 Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966			,	•
Oklahoma 4,813 4,770 4,500 Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wyoming 884 800 United States 3 75,481 72,395 70,966	North Dakota		1,560	
Oregon 1,917 1,330 1,334 Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 884 United States 3 75,481 72,395 70,966		1,230	1,251	1,271
Pennsylvania 2,043 2,376 1,869 Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wyoming 884 884 800 United States 3 75,481 72,395 70,966	Oklahoma	4,813	4,770	
Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966		1,917	1,330	1,334
Rhode Island 8 10 10 South Carolina 1 672 780 675 South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966	Pennsylvania	2,043	2,376	1,869
South Dakota 2,025 1,890 2,025 Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966		8	10	10
Tennessee 3,870 3,713 4,165 Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966	South Carolina 1	672	780	675
Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966	South Dakota	2,025	1,890	2,025
Texas 11,025 9,020 7,590 Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966	Tennessee	3.870	3.713	4.165
Utah 352 326 345 Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966				
Vermont 270 310 330 Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966		•	· · · · · · · · · · · · · · · · · · ·	•
Virginia 2,645 2,543 2,420 Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966				
Washington 1,107 945 1,189 West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966				
West Virginia 1,026 963 884 Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966				
Wisconsin 726 792 1,026 Wyoming 884 884 800 United States 3 75,481 72,395 70,966	West Virginia			
Wyoming 884 884 800 United States 3 75,481 72,395 70,966	Wisconsin			
United States ³				•
		884	884	800
		75,481	72,395	70,966

⁽X) Not applicable.

¹ Alfalfa and alfalfa mixtures included in all other hay.

² Previously included in the Alaska table. For 2016 and 2017 data please refer to the Alaska table on page 105.

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: 2016-2018

[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			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	
California Idaho Illinois Iowa	1,440 1,385 500 1,010	1,360 1,495 515 1,120	1,180 1,380 485 995	5.59 4.26 3.28 3.71	5.92 3.74 3.46 3.23	5.98 4.00 2.92 3.31	
Kansas Michigan Minnesota Missouri Nebraska New York	2,700 1,080 1,835 2,920 2,400 1,850	2,565 1,050 1,550 3,060 2,535 1,800	2,460 1,010 1,380 3,170 2,730 1,740	2.47 3.26 3.19 2.17 2.44 2.25	2.32 2.86 2.97 2.02 2.42 2.73	2.09 2.70 2.73 1.81 2.59 3.01	
Ohio	1,025 1,640 3,110 4,716 310 870 2,400	1,060 1,795 3,020 4,655 290 815 2,170	1,035 1,465 3,330 4,845 295 830 2,210	2.73 2.78 1.83 2.60 2.72 4.23 3.59	2.72 2.92 1.60 2.20 3.47 4.35 3.52	2.66 2.77 1.83 1.84 3.76 4.07 2.93	
17 State total	31,191	30,855	30,540	2.89	2.76	2.61	
State				uction			
	20	16	20		2018		
	(1,000	tons)	(1,000) tons)	(1,000	tons)	
California Idaho Illinois Iowa Kansas Michigan Minnesota Missouri Nebraska New York	8,053 5,905 1,640 3,750 6,656 3,518 5,852 6,342 5,866 4,165			8,052 5,587 1,783 3,619 5,949 3,006 4,597 6,193 6,125 4,913		7,053 5,516 1,417 3,289 5,140 2,729 3,763 5,737 7,084 5,233	
Ohio Pennsylvania South Dakota Texas Vermont Washington Wisconsin	2,803 4,556 5,680 12,257 844 3,679 8,607			2,878 5,242 4,827 10,236 1,006 3,542 7,643		2,757 4,065 6,110 8,910 1,110 3,382 6,479	
17 State total		90,173		85,198		79,774	

All Alfalfa Forage Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018

[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			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	
California	800	740	670	6.68	6.71	6.75	
Idaho	1,030	1.090	1,080	4.90	4.18	4.43	
Illinois	240	245	260	4.22	4.45	3.47	
lowa	620	770	655	4.38	3.67	3.84	
Kansas	720	585	620	4.35	3.72	3.54	
Michigan	830	780	780	3.64	3.23	2.94	
Minnesota	1,285	1,040	850	3.67	3.52	3.13	
Missouri	240	310	290	3.31	2.51	2.68	
Nebraska	790	870	870	4.20	3.98	4.26	
New York	650	700	650	3.16	3.73	3.95	
Ohio	405	440	000	0.00	0.00	0.00	
Ohio	405	410	390	3.69	3.60	3.66	
Pennsylvania	540	645	465	3.71	3.59	3.65	
South Dakota	1,740	1,580	1,800	2.05	1.78	2.21	
Texas	136	125	145	5.24	4.47	5.52	
Vermont	50	50	45	5.06	4.24	4.27	
Washington	440	425	355	5.33	5.32	4.72	
Wisconsin	1,950	1,700	1,590	3.80	3.83	3.29	
17 State total	12,466	12,065	11,515	3.92	3.71	3.64	
State			Produ	uction			
Oldio	20	16	20	2017		2018	
	(1,000	tons)	(1,000	tons)	(1,000	tons)	
California		5,346		4,968		4,523	
Idaho		5,043		4,561		4,788	
Illinois		1,012		1,090		902	
lowa		2,714		2,828		2,514	
Kansas		3,129		2,176		2,194	
Michigan		3,020		2,523		2,290	
Minnesota		4,715		3,665		2,657	
Missouri		795		779		778	
Nebraska		3,318		3,463		3,704	
New York		2,055		2,611		2,566	
Ohio		4 405		4 470		4 400	
Ohio		1,495		1,476		1,428	
Pennsylvania		2,002		2,316		1,698	
South Dakota		3,566		2,807		3,985	
Texas		713		559		801	
Vermont		253		212		192	
Washington		2,345		2,263		1,676	
Wisconsin		7,406		6,519		5,239	

48,927

44,816

17 State total

41,935

All Other Forage Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018

[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]

equivalent basis]		Area harvested			Yield per acre	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	640	620	510	4.23	4.97	4.96
Idaho	355	405	300	2.43	2.53	2.43
Illinois	260	270	225	2.42	2.57	2.29
lowa	390	350	340	2.66	2.26	2.28
Kansas	1,980	1,980	1,840	1.78	1.91	1.60
Michigan	250	270	230	1.99	1.79	1.91
Minnesota	550	510	530	2.07	1.83	2.09
Missouri	2,680	2,750	2,880	2.07	1.97	1.72
Nebraska	1,610	1,665	1,860	1.58	1.60	1.82
New York	1,200	1,100	1,090	1.76	2.09	2.45
	,	,	,			
Ohio	620	650	645	2.11	2.16	2.06
Pennsylvania	1,100	1,150	1,000	2.32	2.54	2.37
South Dakota	1,370	1,440	1,530	1.54	1.40	1.39
Texas	4,580	4,530	4,700	2.52	2.14	1.73
Vermont	260	240	250	2.27	3.31	3.67
Washington	430	390	475	3.10	3.28	3.59
Wisconsin	450	470	620	2.67	2.39	2.00
17 State total	18,725	18,790	19,025	2.20	2.15	1.99
State			Production			
State	20	16	2017		20	18
	(1,000	tons)	(1,000	tons)	(1,000	tons)
California		2,707		3,084		2,530
Idaho		862		1,026		728
Illinois		628		693		515
lowa		1,036		791		775
Kansas		3,527		3,773		2,946
Michigan		498		483		439
Minnesota		1,137		932		1,106
Missouri		5,547		5,414		4,959
Nebraska		2,548		2,662		3,380
New York		2,110		2,302		2,667
Ohio		1,308		1.402		1,329
Pennsylvania		2.554		2,926		2,367
South Dakota		2,334		2,020		2,307
Texas		11,544		9.677		8,109
Vermont		591		794		918
		1,334		1,279		1.706
Washington		1,334		1,124		1,706
Wisconsin		1,201		1,124		1,240

41,246

37,839

40,382

17 State total

All Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018

[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	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	260	265	250	9.83	12.70	11.10
Idaho	125	100	105	12.60	9.30	9.57
Illinois	40	53	38	7.25	7.23	5.74
lowa	135	100	80	8.10	7.12	7.36
Kansas	130	135	120	6.46	7.15	6.42
Michigan	285	275	285	8.24	7.48	6.51
Minnesota	390	250	220	7.32	6.48	6.31
Missouri	130	90	155	4.31	4.68	4.29
Nebraska	50	50	40	6.02	6.88	5.05
New York	680	660	710	5.59	6.94	7.09
Ohio	135	205	135	4.97	5.00	6.00
Pennsylvania	470	475	410	6.30	6.53	6.54
South Dakota	80	105	120	6.44	4.32	5.44
Texas	147	199	145	7.48	7.00	7.48
Vermont	170	180	185	5.94	7.22	8.14
Washington	67	125	119	10.13	9.20	10.50
Wisconsin	1,310	1,190	1,120	7.23	7.01	6.37
17 State total	4,604	4,457	4,237	7.09	7.21	6.99
Ctoto	Production					
State	20	16	2017		201	8
	(1,000	tons)	(1,000	tons)	(1,000	tons)
California		2,556		3,365		2,774
Idaho		1,575		930		1,005
Illinois		290		383		218
lowa		1.093		712		589
Kansas		840		965		770
Michigan		2,348		2.057		1.856
Minnesota		2,856		1,620		1,388
Missouri		560		421		665
Nebraska		301		344		202
New York		3,804		4,578		5,035
		,		,		•
Ohio		671		1,026		810
Pennsylvania		2,959		3,101		2,683
South Dakota		515		454		653
Texas		1,099		1,393		1,085
Vermont		1,010		1,300		1,505
Washington		679		1,150		1,249
Wisconsin		9,470		8,337		7,132
17 State total		32,626		32,136		29,619

Alfalfa Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018

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

-	Area harvested			Yield per acre			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	
California	100	70	80	6.20	6.00	6.20	
Idaho	100	65	85	13.00	10.00	9.00	
Illinois	25	33	24	9.30	9.00	6.50	
lowa	95	80	55	8.60	7.80	8.10	
Kansas	30	25	20	8.00	10.00	6.00	
Michigan	250	240	260	8.90	7.90	6.80	
Minnesota	350	220	180	7.60	6.90	6.80	
Missouri	20	20	35	6.00	6.00	7.50	
Nebraska	25	20	25	6.50	6.70	4.00	
New York	400	410	450	6.50	7.75	8.30	
New York	400	410	400	0.50	7.75	0.50	
Ohio	90	120	90	5.70	6.00	7.70	
Pennsylvania	275	265	250	7.00	7.50	6.70	
South Dakota	50	50	75	6.70	3.80	6.00	
Texas	7	9	5	7.00	7.00	7.00	
Vermont	40	40	45	9.00	8.00	7.00	
Washington	22	50	24	10.00	9.50	8.50	
Wisconsin	1,150	1,050	1,000	7.40	7.30	6.70	
17 State total	3,029	2,767	2,703	7.56	7.41	7.08	
State			Production				
	20	16	2017		20	18	
	(1,000	tons)	(1,000) tons)	(1,000	tons)	
California		620		420		496	
Idaho		1,300		650		765	
Illinois		233		297		156	
lowa		817		624		446	
Kansas		240		250		120	
Michigan		2,225		1,896		1,768	
Minnesota		2,660		1,518		1,224	
Missouri		120		120		263	
Nebraska		163		134		100	
New York		2,600		3,178		3,735	
Ohio		513		720		693	
Pennsylvania		1,925		1,988		1,675	
South Dakota		335		190		450	
Texas		49		63		35	
Vermont		360		320		315	
Washington		220		475			
Wisconsin		8,510		7,665		6,700	
17 State total		22,890		20,508		19,145	

All Other Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2016-2018

[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]

not included]		Area harvested			Yield per acre			
State	2016	2017	2018	2016	2017	2018		
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)		
California	160	195	170	12.10	15.10	13.40		
Idaho	25	35	20	11.00	8.00	12.00		
Illinois	15	20	14	3.80	4.30	4.40		
lowa	40	20	25	6.90	4.40	5.70		
Kansas	100	110	100	6.00	6.50	6.50		
Michigan	35	35	25	3.50	4.60	3.50		
Minnesota	40	30	40	4.90	3.40	4.10		
Missouri	110	70	120	4.00	4.30	3.35		
	-	-	_					
Nebraska	25	30	15	5.50	7.00	6.80		
New York	280	250	260	4.30	5.60	5.00		
Ohio	45	85	45	3.50	3.60	2.60		
Pennsylvania	195	210	160	5.30	5.30	6.30		
South Dakota	30	55	45	6.00	4.80	4.50		
Texas	140	190	140	7.50	7.00	7.50		
Vermont	130	140	140	5.00	7.00	8.50		
Washington	45	75	95	10.20	9.00	11.00		
Wisconsin	160	140	120	6.00	4.80	3.60		
17 State total	1,575	1,690	1,534	6.18	6.88	6.83		
State		Production						
State	20	16	2017		20	18		
	(1,000	tons)	(1,000) tons)	(1,000	tons)		
California		1,936		2,945		2,278		
Idaho		275		280		240		
Illinois		57		86		62		
lowa		276		88		143		
Kansas		600		715		650		
Michigan		123		161		88		
Minnesota		196		102		164		
Missouri		440		301		402		
Nebraska		138		210		102		
New York		1,204		1,400		1,300		
Obje		450		000				
Ohio		158		306		117		
Pennsylvania		1,034		1,113		1,008		
South Dakota		180		264		203		
Texas		1,050		1,330		1,050		
Vermont		650		980		1,190		
Washington		459		675		1,045		
Wisconsin		960		672		432		
17 State total		9,736		11,628		10,474		

New Seedings of Alfalfa and Alfalfa Mixtures - States and United States: 2016-2018

Ctata		Area seeded	
State	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona	55	60	35
Arkansas	1	1	1
California	85	100	95
Colorado	70	70	85
Connecticut	1	1	1
Delaware	1	1	1
Idaho	115	125	155
Illinois	35	20	55
Indiana	35	40	40
lowa	80	80	105
Kansas	75	65	55
Kentucky	25	17	20
Maine	2	1	2
Maryland	5	8	4
Massachusetts	1	1	1
Michigan	80	80	100
Minnesota	200	160	130
Missouri	35	30	30
Montana	120	100	115
Nebraska	110	150	120
Nevada	20	22	21
New Hampshire	1	1	1
New Jersey	2	1	1
New Mexico	25	15	30
New York	90	85	95
North Carolina	1	1	1
North Dakota	120	130	95
Ohio	70	50	35
Oklahoma	35	25	30
Oregon	35	65	40
Pennsylvania	80	80	60
South Dakota	150	125	170
Tennessee	3	3	2
Texas	20	10	15
Utah	55	60	50
Vermont	5	4	7
Virginia	9	11	10
Washington	50	70	60
West Virginia	1	2	3
Wisconsin	320	300	310
Wyoming	45	40	35
United States	2,268	2,210	2,221

Peanut Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

State		Area planted			Area harvested		
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Alabama	175.0	195.0	165.0	172.0	193.0	162.0	
Arkansas	24.0	30.0	26.0	23.0	29.0	23.0	
Florida	155.0	195.0	155.0	146.0	185.0	140.0	
Georgia	720.0	835.0	665.0	706.0	825.0	650.0	
Mississippi	39.0	44.0	25.0	38.0	43.0	24.0	
New Mexico	8.0	7.6	5.5	8.0	7.6	5.5	
North Carolina	101.0	119.0	102.0	99.0	117.0	98.0	
Oklahoma	13.0	22.0	16.0	12.0	21.0	15.0	
South Carolina	110.0	122.0	87.0	106.0	118.0	82.0	
Texas	305.0	275.0	155.0	205.0	210.0	145.0	
Virginia	21.0	27.0	24.0	21.0	27.0	24.0	
United States	1,671.0	1,871.6	1,425.5	1,536.0	1,775.6	1,368.5	
State		Yield per acre		Production			
State	2016	2017	2018	2016	2017	2018	
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	
Alabama	3,600	3,650	3,400	619,200	704,450	550,800	
Arkansas	4,800	5,300	5,000	110,400	153,700	115,000	
Florida	3,800	3,450	3,600	554,800	638,250	504,000	
Georgia	3,900	4,330	4,450	2,753,400	3,572,250	2,892,500	
Mississippi	4,000	4,000	4,000	152,000	172,000	96,000	
New Mexico	2,800	3,500	3,000	22,400	26,600	16,500	
North Carolina	3,530	4,100	3,900	349,470	479,700	382,200	
Oklahoma	3,700	3,780	3,100	44,400	79,380	46,500	
South Carolina	3,200	4,000	3,400	339,200	472,000	278,800	
Texas	2,730	3,320	3,300	559,650	697,200	478,500	
Virginia	3,650	4,440	4,200	76,650	119,880	100,800	
United States	3,634	4,007	3,991	5,581,570	7,115,410	5,461,600	

Canola Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

Ctata		Area planted			Area harvested			
State	2016	2017	2018	2016	2017	2018		
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)		
Idaho	21.0	23.0	43.0	20.5	22.3	42.0		
Kansas	25.0	50.0	47.0	24.0	47.0	35.0		
Minnesota	29.0	36.0	46.0	27.5	34.5	45.0		
Montana	62.0	155.0	120.0	60.0	137.0	117.0		
North Dakota	1,460.0	1,590.0	1,590.0	1,450.0	1,560.0	1,580.0		
Oklahoma	75.0	160.0	70.0	70.0	140.0	53.0		
Oregon	4.0	8.0	4.7	3.7	7.2	4.5		
Washington	33.0	55.0	70.0	31.0	54.0	67.0		
United States	1,709.0	2,077.0	1,990.7	1,686.7	2,002.0	1,943.5		
State		Yield per acre			Production			
State	2016	2017	2018	2016	2017	2018		
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)		
Idaho	2,200	1,700	2,100	45,100	37,910	88,200		
Kansas	1,940	1,320	960	46,560	62,040	33,600		
Minnesota	1,700	2,080	2,060	46,750	71,760	92,700		
Montana	1,670	860	1,120	100,200	117,820	131,040		
North Dakota	1,840	1,600	1,960	2,668,000	2,496,000	3,096,800		
Oklahoma	1,450	1,200	880	101,500	168,000	46,640		
Oregon	2,400	1,550	1,700	8,880	11,160	7,650		
Washington	2,000	1,680	1,790	62,000	90,720	119,930		
United States	1,825	1,526	1,861	3,078,990	3,055,410	3,616,560		

This page intentionally left blank.

Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2016-2018

Varietal type		Area planted			Area harvested	
and State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)				
Oil						
California	45.0	54.0	58.0	44.5	52.5	57.0
Colorado	60.0	80.0	58.0	57.0	73.0	49.0
Kansas	45.0	52.0	43.0	42.0	50.0	41.0
Minnesota	66.0	34.0	45.0	64.0	33.0	44.0
Nebraska	29.0	30.0	25.0	28.0	28.5	24.0
North Dakota	630.0	395.0	395.0	610.0	381.0	380.0
South Dakota	510.0	540.0	520.0	495.0	520.0	485.0
Texas	33.0	31.0	20.0	28.0	30.0	19.0
United States	1,418.0	1,216.0	1,164.0	1,368.5	1,168.0	1,099.0
Non-oil						
California	1.6	1.3	2.0	1.5	1.3	2.0
Colorado	14.0	12.0	8.0	13.0	11.0	7.0
Kansas	18.0	13.5	10.0	16.0	12.2	8.5
Minnesota	14.0	4.7	7.5	13.5	3.3	7.0
Nebraska	12.5	15.5	12.0	11.0	15.0	9.5
North Dakota	58.0	43.0	41.0	53.0	42.0	40.0
South Dakota	48.0	82.0	51.0	45.0	68.0	45.0
Texas	12.5	15.0	5.5	10.5	13.0	4.5
United States	178.6	187.0	137.0	163.5	165.8	123.5
All						
California	46.6	55.3	60.0	46.0	53.8	59.0
Colorado	74.0	92.0	66.0	70.0	84.0	56.0
Kansas	63.0	65.5	53.0	58.0	62.2	49.5
Minnesota	80.0	38.7	52.5	77.5	36.3	51.0
Nebraska	41.5	45.5	37.0	39.0	43.5	33.5
North Dakota	688.0	438.0	436.0	663.0	423.0	420.0
South Dakota	558.0	622.0	571.0	540.0	588.0	530.0
Texas	45.5	46.0	25.5	38.5	43.0	23.5
United States	1,596.6	1,403.0	1,301.0	1,532.0	1,333.8	1,222.5

--continued

Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2016-2018 (continued)

Varietal type		Yield per acre			Production	
and State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Oil						
California	1,350	950	1,300	60,075	49,875	74,100
Colorado	1,200	1,000	1,100	68,400	73,000	53,900
Kansas	1,370	1,300	1,500	57,540	65,000	61,500
Minnesota	1,500	1,950	2,250	96,000	64,350	99,000
Nebraska	1,350	1,300	1,420	37,800	37,050	34,080
North Dakota	1,730	1,650	1,750	1,055,300	628,650	665,000
South Dakota	1,940	1,700	1,830	960,300	884,000	887,550
Texas	1,200	1,520	1,120	33,600	45,600	21,280
United States	1,731	1,582	1,726	2,369,015	1,847,525	1,896,410
Non-oil						
California	1,200	1,100	1,200	1,800	1,430	2,400
Colorado	1,700	1,200	1,150	22,100	13,200	8,050
Kansas	1,570	1,600	1,500	25,120	19,520	12,750
Minnesota	1,300	1,250	2,150	17,550	4,125	15,050
Nebraska	1,850	1,650	1,400	20,350	24,750	13,300
North Dakota	1,550	1,800	1,860	82,150	75,600	74,400
South Dakota	2,150	2,000	1,950	96,750	136,000	87,750
Texas	1,600	1,200	1,400	16,800	15,600	6,300
United States	1,729	1,750	1,781	282,620	290,225	220,000
All						
California	1,345	954	1,297	61,875	51,305	76,500
Colorado	1,293	1,026	1,106	90,500	86,200	61,950
Kansas	1,425	1,359	1,500	82,660	84,520	74,250
Minnesota	1,465	1,886	2,236	113,550	68,475	114,050
Nebraska	1,491	1,421	1,414	58,150	61,800	47,380
North Dakota	1,716	1,665	1,760	1,137,450	704,250	739,400
South Dakota	1,958	1,735	1,840	1,057,050	1,020,000	975,300
Texas	1,309	1,423	1,174	50,400	61,200	27,580
United States	1,731	1,603	1,731	2,651,635	2,137,750	2,116,410

Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

01-1-		Area planted			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)				
Alabama	420	350	345	410	345	340
Arkansas	3,130	3,530	3,280	3,090	3,500	3,240
Delaware	165	160	170	163	158	168
Florida	31	15	18	29	14	12
Georgia	260	155	145	240	150	135
Illinois	10,100	10,600	10,800	10,050	10,550	10,750
Indiana	5,650	5,950	5,950	5,630	5,940	5,920
lowa	9,500	10,000	10,000	9,440	9,940	9,910
Kansas	4,050	5,150	4,750	4,010	5,110	4,700
Kentucky	1,790	1,950	2,000	1,780	1,940	1,990
Louisiana	1,230	1,270	1,340	1,190	1,250	1,200
Maryland	520	500	520	515	495	515
Michigan	2,070	2,280	2,300	2,060	2,270	2,280
Minnesota	7,550	8,150	7,800	7,490	8,090	7,710
Mississippi	2,040	2,190	2,230	2,020	2,170	2,190
Missouri	5,600	5,950	5,850	5,540	5,910	5,800
Nebraska	5,200	5,700	5,700	5,150	5,670	5,650
New Jersey	100	100	105	98	99	103
New York	330	270	330	320	265	320
North Carolina	1,690	1,700	1,650	1,660	1,690	1,570
North Dakota	6,050	7,100	6,900	5,990	7,050	6,860
Ohio	4,850	5,100	5,000	4,840	5,090	4,980
Oklahoma	485	655	630	470	640	600
Pennsylvania	600	610	640	595	605	630
South Carolina	420	400	390	405	390	375
South Dakota	5,200	5,650	5,650	5,170	5,610	5,580
Tennessee	1,660	1,690	1,700	1,630	1,660	1,670
Texas	165	210	175	145	185	135
Virginia	610	600	600	600	590	590
West Virginia	27	27	28	26	26	27
Wisconsin	1,960	2,150	2,200	1,950	2,140	2,160
United States	83,453	90,162	89,196	82,706	89,542	88,110

--continued

Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

Ctata		Yield per acre			Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	32.0	46.0	41.0	13,120	15,870	13,940
Arkansas	47.0	51.0	51.0	145,230	178,500	165,240
Delaware	41.5	51.0	42.0	6,765	8,058	7,056
Florida	36.0	34.0	38.0	1,044	476	456
Georgia	30.0	42.0	40.0	7,200	6,300	5,400
Illinois	59.0	58.0	65.0	592,950	611,900	698,750
Indiana	57.5	54.0	58.5	323,725	320,760	346,320
lowa	60.0	57.0	57.0	566,400	566,580	564,870
Kansas	48.0	37.5	43.5	192,480	191,625	204,450
Kentucky	50.0	53.0	52.0	89,000	102,820	103,480
Louisiana	48.5	54.0	52.0	57,715	67,500	62,400
Maryland	41.5	51.0	47.5	21,373	25,245	24,463
Michigan	50.5	42.5	48.0	104,030	96,475	109,440
Minnesota	52.0	47.5	50.5	389,480	384,275	389,355
Mississippi	48.0	53.0	54.5	96,960	115,010	119,355
Missouri	49.0	49.5	45.0	271,460	292,545	261,000
Nebraska	61.0	57.5	59.0	314,150	326,025	333,350
New Jersey	36.0	45.0	40.0	3,528	4,455	4,120
New York	41.0	45.0	52.5	13,120	11,925	16,800
North Carolina	35.0	40.0	34.0	58,100	67,600	53,380
North Dakota	41.5	34.5	35.5	248,585	243,225	243,530
Ohio	54.5	49.5	58.0	263,780	251,955	288,840
Oklahoma	29.0	29.0	30.0	13,630	18,560	18,000
Pennsylvania	44.0	48.0	45.0	26,180	29,040	28,350
South Carolina	31.0	38.0	29.5	12,555	14,820	11,063
South Dakota	49.5	43.0	46.0	255,915	241,230	256,680
Tennessee	45.0	50.0	46.0	73,350	83,000	76,820
Texas	31.0	37.0	32.0	4,495	6,845	4,320
Virginia	36.0	44.0	43.0	21,600	25,960	25,370
West Virginia	51.0	54.0	53.5	1,326	1,404	1,445
Wisconsin	55.0	47.5	49.0	107,250	101,650	105,840
United States	51.9	49.3	51.6	4,296,496	4,411,633	4,543,883

Soybean Objective Yield Data

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

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

State and month	2014	2015	2016	2017	2018	State and month	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas September October November Final	1,925 1,960 1,999 1,999	1,729 1,737 1,813 1,818	1,884 1,805 1,820 1,826	1,992 1,898 2,039 2,075	1,841 1,795 1,943 1,973	Missouri September October November Final	2,050 1,969 2,055 2,043	1,612 1,755 1,869 1,899	1,881 2,006 2,123 2,164	2,041 2,172 2,253 2,239	1,777 1,899 1,948 1,961
Illinois September October November Final	1,922 1,913 1,964 1,968	1,980 2,052 2,086 2,079	1,969 2,109 2,193 2,197	1,917 1,886 1,947 1,947	2,132 2,225 2,249 2,264	Nebraska September October November Final	1,634 1,707 1,743 1,743	1,816 1,863 1,884 1,884	1,947 2,036 2,074 2,074	1,653 1,795 1,853 1,853	1,736 2,071 2,174 2,174
Indiana September October November Final	1,518 1,634 1,661 1,660	1,641 1,703 1,691 1,691	1,683 1,775 1,873 1,873	1,795 1,772 1,774 1,774	1,880 2,001 2,054 2,052	North Dakota September October November Final	1,281 1,266 1,454 1,459	1,321 1,330 1,337 1,337	1,395 1,444 1,442 1,470	1,406 1,430 1,465 1,451	1,418 1,485 1,515 1,514
lowa September October November Final	1,621 1,690 1,772 1,768	1,779 1,805 1,834 1,834	1,808 1,801 1,861 1,890	1,644 1,670 1,717 1,735	1,823 1,984 2,082 2,097	Ohio September October November Final	1,882 1,835 1,796 1,796	1,621 1,691 1,776 1,776	1,773 1,715 1,782 1,782	1,765 1,714 1,828 1,823	2,019 2,180 2,210 2,210
Kansas September October November Final	1,303 1,384 1,428 1,453	1,285 1,602 1,715 1,715	1,467 1,643 1,720 1,737	1,487 1,472 1,561 1,561	1,552 1,456 1,548 1,558	South Dakota September October November Final	1,533 1,485 1,498 1,501	1,541 1,557 1,563 1,563	1,561 1,639 1,709 1,665	1,511 1,472 1,457 1,457	1,649 1,867 1,822 1,724
Minnesota September October November Final	1,414 1,431 1,434 1,434	1,637 1,644 1,612 1,612	1,614 1,625 1,658 1,658	1,359 1,407 1,480 1,480	1,605 1,616 1,569 1,569	11-State September October November Final	1,651 1,667 1,719 1,720	1,672 1,731 1,763 1,764	1,741 1,800 1,862 1,870	1,678 1,692 1,751 1,752	1,786 1,895 1,938 1,938

This page intentionally left blank.

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

	•		Row width (inches)		
State and year	Less than 7.5 ¹	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas2014	10	53	50	27	65
2015	8	41	34	32	77
2016	5	31	46	36	73
2017	9	25	42	39	79
2018	9	36	47	36	83
Illinois2014	6	15	102	60	-
2015	2	15	111	52	1
2016	1	15	105	57	1
2017	2	10	109	59	2
2018	3	11	118	58	-
Indiana2014	2	21	110	13	2
2015	2	17	103	15	-
2016	1	27	91	17	2
2017	3	28	101	12	-
2018	1	19	110	14	-
lowa2014	1	3	74	104	2
2015	4	4	76	92	4
2016	1	6	73	100	2
2017	1	3	80	94	1
2018	1	11	77	88	3
Kansas2014	6	18	35	53	-
2015	5	13	38	56	-
2016	6	8	38	57	-
2017	10	14	32	43	2
2018	2	17	35	54	1
Minnesota2014	6	8	32	36	1
2015	4	7	42	50	1
2016	5	8	40	36	1
2017	1	9	38	42	-
2018	3	8	34	45	2
Missouri2014	2	14	74	17	6
2015	1	17	50	15	8
2016	-	14	71	19	5
2017	1	10	70	21	4
2018	1	15	65	31	4
Nebraska2014	-	4	30	58	4
2015	1	4	31	62	8
2016	-	10	36	46	3
2017	1	4	38	51	8
2018	3	7	35	49	8

See footnote(s) at end of table. --continued

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

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

⁻ Represents zero.

1 Includes broadcast soybeans.

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

			Ro	ow width (inche	s)		
State and year	Samples	10.0 or less ¹	10.1- 18.5	18.6- 28.5	28.6- 34.5	34.6 or greater	row width ¹
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)
Arkansas	208 199 189 197 208	20.7 19.1 14.6 16.3 18.3	24.1 16.8 24.1 24.2 18.3	29.9 23.6 4.0 2.3 6.7	12.8 14.6 21.2 19.8 14.7	12.5 25.9 36.1 37.4 42.0	20.1 23.1 26.0 26.4 26.5
Illinois	185 178 177 181 185	10.3 7.1 7.9 6.1 5.7	52.7 63.0 56.5 50.6 57.6	3.8 2.3 5.6 5.0 5.9	33.2 26.8 29.4 37.7 30.8	0.8 0.6 0.6	19.7 19.0 19.6 20.8 19.9
Indiana	143 137 137 141 150	15.0 15.4 14.7 14.6 10.1	66.4 67.4 62.3 68.3 74.8	9.1 5.9 8.4 9.3 5.7	9.5 11.3 13.9 7.8 9.4	- 0.7 - -	16.0 16.1 17.0 15.8 16.2
lowa	185 181 179 180 177	2.2 2.8 2.2 1.1 4.8	33.6 36.7 34.4 34.4 36.5	7.0 9.1 11.2 12.8 10.1	55.6 49.2 50.5 50.6 45.8	1.6 2.2 1.7 1.1 2.8	24.3 23.4 23.7 23.7 22.8
Kansas	113 111 109 105 106	9.3 11.7 5.5 9.0 8.1	41.1 38.3 34.6 38.1 39.3	5.8 4.5 4.6 5.7 6.6	43.8 45.5 54.4 47.2 45.1	0.9 0.9	21.2 21.5 23.5 21.8 22.0
Minnesota	81 89 84 88 85	11.2 5.1 11.3 7.4 10.0	18.6 21.9 28.0 23.3 28.8	25.5 20.8 23.8 18.8 14.7	42.8 52.2 36.9 50.5 46.5	1.9 - - - -	22.8 24.0 21.6 23.5 22.6
Missouri	115 86 104 106 113	12.2 16.7 3.8 9.4 12.8	57.4 56.6 70.7 63.7 52.7	7.8 7.7 2.4 5.7 8.0	18.3 11.9 16.8 19.3 23.0	4.3 7.1 6.3 1.9 3.5	18.4 17.9 18.9 18.3 19.2
Nebraska	95 105 94 100 101	2.6 2.4 7.4 4.0 5.9	28.4 29.5 35.6 31.0 27.2	7.9 6.3 5.9 10.5 10.9	55.8 54.1 46.8 47.0 48.1	5.3 7.7 4.3 7.5 7.9	24.8 24.5 22.8 24.2 24.3

See footnote(s) at end of table.

--continued

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

			Ro	ow width (inche	s)		
State and year	Samples	10.0 or less ¹	10.1- 18.5	18.6- 28.5	28.6- 34.5	34.6 or greater	row width ¹
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)
North Dakota2014	91	20.4	47.0	20.4	12.2	-	16.6
2015 2016	104 95	13.5 20.1	45.7 42.9	29.3 20.1	11.5 16.9	-	17.6 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
Ohio2014	130	35.0	60.0	1.2	3.8	-	13.1
2015	132	32.7	57.0	5.0	5.3	-	13.8
2016	137	32.1	60.3	1.8	5.8	-	13.7
2017 2018	134 134	25.4 20.9	66.4 76.5	2.6 2.6	5.6 -	-	14.1 13.7
South Dakota2014	81	4.3	25.3	12.4	54.3	3.7	24.8
2015	83	5.0	10.5	14.2	69.1	1.2	26.6
2016	96	1.6	23.0	17.3	53.4	4.7	25.1
2017	93	2.7	17.8	16.2	61.7	1.6	25.9
2018	94	4.3	15.4	17.6	62.2	0.5	25.7

⁻ Represents zero.

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

Flaxseed Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

State		Area planted		Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Montana North Dakota South Dakota	29 335 10	52 245 6	39 165 4	28 329 9	38 229 5	37 158 3	
United States	374	303	208	366	272	198	
State		Yield per acre			Production		
State	2016	2017	2018	2016	2017	2018	
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	
Montana North Dakota South Dakota	22.0 24.0 16.0	9.0 15.0 13.0	17.0 24.0 15.0	616 7,896 144	342 3,435 65	629 3,792 45	
United States	23.7	14.1	22.6	8,656	3,842	4,466	

Safflower Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

Salliowel Alea Flail	eu anu naives	steu, Tielu, ali	u Froduction.	- States and U	illieu States.	2010-2010
State		Area planted			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	62.0	56.0	60.0	61.5	55.5	59.5
Idaho	18.0	22.5	22.0	17.5	21.5	21.0
Montana	37.0	39.0	42.0	34.0	28.0	36.0
North Dakota	8.3	7.1	10.0	7.7	5.2	9.5
South Dakota	21.8	21.9	18.5	18.5	18.5	17.4
Utah	14.0	17.0	15.0	13.5	16.5	13.0
United States	161.1	163.5	167.5	152.7	145.2	156.4
Ctoto		Yield per acre			Production	
State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	2,200	1,900	2,400	135,300	105,450	142,800
Idaho	850	900	830	14,875	19,350	17,430
Montana	810	610	990	27,540	17,080	35,640
North Dakota	1,250	900	1,100	9,625	4,680	10,450
South Dakota	1,100	790	1,100	20,350	14,615	19,140
Utah	810	900	840	10,935	14,850	10,920
United States	1,432	1,212	1,511	218,625	176,025	236,380

Other Oilseed Area Planted and Harvested, Yield, and Production by Crop - United States: 2016-2018

Crop		Area planted		Area harvested			
	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Rapeseed ¹ Mustard seed ²	11.0 103.1	10.3 103.0	5.7 102.5	10.5 98.2	9.9 95.4	5.4 97.5	
State		Yield per acre		Production			
State	2016	2017	2018	2016	2017	2018	
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	
Rapeseed ¹ Mustard seed ²	1,840 980	1,843 617	1,524 750	19,320 96,270	18,250 58,820	8,230 73,078	

¹ Rapeseed program states include Idaho, Montana, North Carolina, North Dakota, Oregon, and Washington. ² Mustard seed program States include Idaho, Montana, North Dakota, Oregon, and Washington.

Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2016-2018

Type and State		Area planted		Area harvested			
Type and State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Jpland							
	345.0	435.0	510.0	343.0	430.0	500	
Arizona	120.0	160.0	160.0	118.0	159.0	159	
Arkansas	380.0	445.0	485.0	375.0	438.0	480	
California	63.0	88.0	48.0	62.0	87.0	47	
Torida	103.0	99.0	117.0	102.0	98.0	90	
Seorgia	1,180.0	1,280.0	1,430.0	1,165.0	1,270.0	1,350	
	33.0	93.0	1,430.0	31.0	90.0	1,330	
ansas							
ouisiana	140.0	220.0	195.0	137.0	217.0	192	
lississippi	435.0	630.0	620.0	430.0	625.0	615	
lissouri	280.0	305.0	325.0	266.0	297.0	322	
lew Mexico	47.0	66.0	77.0	41.0	46.0	57	
lorth Carolina	280.0	375.0	430.0	255.0	367.0	410	
Oklahoma	305.0	590.0	780.0	290.0	555.0	565	
outh Carolina	190.0	250.0	300.0	183.0	248.0	290	
ennessee	255.0	345.0	360.0	250.0	340.0	355	
exas	5,650.0	7,000.0	7,750.0	5,200.0	5,500.0	4,600	
irginia	73.0	84.0	98.0	72.0	83.0	97	
Inited States	9,879.0	12,465.0	13,850.0	9,320.0	10,850.0	10,283	
American Pima							
rizona	14.5	15.0	14.0	11.0	15.0	14	
California	155.0	216.0	210.0	154.0	215.0	209	
lew Mexico	8.0	7.5	7.0	7.8	7.4		
exas	17.0	14.0	18.0	15.0	13.0	17	
Inited States	194.5	252.5	249.0	187.8	250.4	247	
AII							
Alabama	345.0	435.0	510.0	343.0	430.0	500	
rizona	134.5	175.0	174.0	129.0	174.0	173	
rkansas	380.0	445.0	485.0	375.0	438.0	480	
alifornia	218.0	304.0	258.0	216.0	302.0	256	
lorida	103.0	99.0	117.0	102.0	98.0	90	
Georgia	1,180.0	1,280.0	1,430.0	1,165.0	1,270.0	1,350	
ansas	33.0	93.0	165.0	31.0	90.0	154	
ouisiana	140.0	220.0	195.0	137.0	217.0	192	
	435.0	630.0	620.0	430.0	625.0	615	
lississippilissouri	280.0	305.0	325.0	266.0	297.0	322	
ew Mexico	55.0	73.5	84.0	48.8	53.4	64	
orth Carolina	280.0	375.0	430.0	255.0	367.0	410	
klahoma	305.0	590.0	780.0	290.0	555.0	565	
outh Carolina	190.0	250.0	300.0	183.0	248.0	290	
ennessee	255.0	345.0	360.0	250.0	340.0	35	
exas	5,667.0	7,014.0	7,768.0	5,215.0	5,513.0	4,61	
irginia	73.0	84.0	98.0	72.0	83.0	97	
Inited States	10,073.5	12,717.5	14,099.0	9,507.8	11,100.4	10,530	

See footnote(s) at end of table. --continued

Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2016-2018 (continued)

Type and State		Yield per acre			Production ¹	
Type and State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 bales) ²	(1,000 bales) ²	(1,000 bales) ²
Upland						
Alabama	988	902	826	706.0	808.0	860.
Arizona	1,525	1,464	1,328	375.0	485.0	440.
Arkansas	1,075	1,177	1,150	840.0	1,074.0	1,150.
California	1,897	1,297	1,879	245.0	235.0	184.
Florida	922	759	640	196.0	155.0	120.0
Georgia	898	841	693	2,180.0	2,225.0	1,950.
Kansas	1,099	1,051	1,066	71.0	197.0	342.
Louisiana	939	894	1,025	268.0	404.0	410.0
Mississippi	1,207	1,038	1,116	1,081.0	1,351.0	1,430.
Missouri	1,021	1,212	1,245	566.0	750.0	835.
New Mexico	1,030	1,179	926	88.0	113.0	110.0
North Carolina	646	969	820	343.0	741.0	700.0
Oklahoma	1,021	882	637	617.0	1,020.0	750.0
South Carolina	656	912	728	250.0	471.0	440.0
Tennessee	1,104	1,033	1,055	575.0	732.0	780.0
Texas	748	809	720	8,100.0	9,270.0	6,900.0
Virginia	667	1,110	965	100.0	192.0	195.0
United States	855	895	821	16,601.0	20,223.0	17,596.0
American Pima						
Arizona	851	966	994	19.5	30.2	29.0
California	1,565	1,407	1,649	502.0	630.0	718.0
New Mexico	886	863	823	14.4	13.3	12.0
Texas	1,056	960	960	33.0	26.0	35.0
United States	1,454	1,341	1,540	568.9	699.5	794.0
All						
Alabama	988	902	826	706.0	808.0	860.0
Arizona	1,468	1,421	1,301	394.5	515.2	469.
Arkansas	1,075	1,177	1,150	840.0	1,074.0	1,150.
California	1,660	1,375	1,691	747.0	865.0	902.
Florida	922	759	640	196.0	155.0	120.0
Georgia	898	841	693	2,180.0	2,225.0	1,950.
Kansas	1,099	1,051	1,066	71.0	197.0	342.
Louisiana	939	894	1,025	268.0	404.0	410.0
Mississippi	1,207	1,038	1,116	1,081.0	1,351.0	1,430.0
Missouri	1,021	1,212	1,245	566.0	750.0	835.0
New Mexico	1,007	1,135	915	102.4	126.3	122.0
North Carolina	646	969	820	343.0	741.0	700.
Oklahoma	1,021	882	637	617.0	1,020.0	750.
South Carolina	656	912	728	250.0	471.0	440.
Tennessee	1,104	1,033	1,055	575.0	732.0	780.
Texas	749	809	721	8,133.0	9,296.0	6,935.
Virginia	667	1,110	965	100.0	192.0	195.
United States	867	905	838	17,169.9	20,922.5	18,390.0

¹ Production ginned and to be ginned. ² 480-pound net weight bale.

Cottonseed Production - States and United States: 2016-2018

01-1-		Production	
State	2016	2017	2018 ¹
	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	207.0	204.0	253.0
Arizona	138.0	171.0	157.0
Arkansas	275.0	351.0	379.0
California	281.0	323.0	339.0
Florida	55.0	44.0	34.0
Georgia	616.0	638.0	549.0
Kansas	23.0	58.0	106.0
Louisiana	86.0	127.0	131.0
Mississippi	348.0	432.0	458.0
Missouri	198.0	255.0	298.0
New Mexico	33.0	40.0	40.0
North Carolina	99.0	217.0	205.0
Oklahoma	192.0	294.0	232.0
South Carolina	71.0	134.0	130.0
Tennessee	191.0	230.0	258.0
Texas	2,528.0	2,852.0	2,172.0
Virginia	28.0	52.0	53.0
United States	5,369.0	6,422.0	5,794.0

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

Tobacco Area Harvested, Yield, and Production - States and United States: 2016-2018

State	Area harvested			Yield per acre				
State	2016	2017	2018	2016	2017	2018		
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)		
Georgia Kentucky North Carolina Pennsylvania South Carolina Tennessee Virginia	13,500 75,300 166,000 8,200 13,000 20,200 23,460	12,500 80,500 163,900 8,100 12,000 21,100 23,370	12,500 68,100 152,750 7,800 12,300 15,700 22,280	2,100 1,810 1,999 2,495 1,900 1,767 2,193	2,100 2,277 2,197 2,344 2,100 2,038 2,284	1,900 1,973 1,649 2,231 1,800 2,523 1,977		
United States	319,660	321,470	291,430	1,967	2,209	1,830		
State	Production							
State	201	6	20	17	2018			
	(1,000 pc	ounds)	(1,000 p	oounds)	(1,000 pounds)			
Georgia Kentucky North Carolina Pennsylvania South Carolina Tennessee Virginia	28,350 136,280 331,800 20,460 24,700 35,690 51,440			26,250 183,300 360,040 18,990 25,200 43,000 53,381	23,750 134,370 251,925 17,400 22,140 39,610 44,046			
United States		628,720		710,161		533,241		

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2016-2018

Olean turne and Olete	Area harvested					
Class, type, and State	2016	2017	2018			
	(acres)	(acres)	(acres)			
Class 1, Flue-cured (11-14)						
Georgia	13,500	12,500	12,500			
North Carolina	165,000	163,000	152,000			
South Carolina	13,000	12,000	12,300			
Virginia	22,000	22,000	21,000			
viigiilia	22,000	22,000	21,000			
United States	213,500	209,500	197,800			
Class 2, Fire-cured (21-23)						
Kentucky	9,500	11,500	11,000			
Tennessee	7,000	7,500	7,600			
Virginia	260	270	280			
United States	16,760	19,270	18,880			
Class 3A, Light air-cured						
Type 31, Burley						
Kentucky	61.000	63.000	50.000			
North Carolina	- ,	900	750			
	1,000					
Pennsylvania	4,800	4,500	4,000			
Tennessee	12,000	12,000	5,300			
Virginia	1,200	1,100	1,000			
United States	80,000	81,500	61,050			
Type 32, Southern Maryland						
Pennsylvania	1,800	1,800	1,400			
United States	1,800	1,800	1,400			
Total light air-cured (31-32)	81,800	83,300	62,450			
Class 3B, Dark air-cured (35-37)						
Kentucky	4,800	6,000	7,100			
Tennessee	1,200	1,600	2,800			
United States	6,000	7,600	9,900			
Class 4, Cigar filler						
Type 41, Pennsylvania Seedleaf						
Pennsylvania	1,600	1,800	2,400			
United States	1,600	1,800	2,400			
All Tobacco						
United States	319,660	321,470	291,430			

--continued

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2016-2018 (continued)

Class type and State		Yield per acre	9		Production	
Class, type, and State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Class 1, Flue-cured (11-14)						
Georgia	2.100	2,100	1,900	28,350	26,250	23.750
North Carolina	2,000	2,200	1,650	330,000	358,600	250,800
South Carolina	1,900	2,100	1,800	24,700	25,200	22,140
Virginia	2,200	2,300	2,000	48,400	50,600	42,000
	,	,	,	,	,	,
United States	2,021	2,199	1,712	431,450	460,650	338,690
Class 2, Fire-cured (21-23)						
Kentucky	2,300	3,300	3,200	21,850	37,950	35,200
Tennessee	2,450	2,800	3,050	17,150	21,000	23,180
Virginia	2,000	2,150	1,950	520	581	546
United States	2,358	3,089	3,121	39,520	59,531	58,926
Class 3A, Light air-cured						
Type 31, Burley						
Kentucky	1,750	2,050	1,600	106,750	129,150	80,000
North Carolina	1,800	1,600	1,500	1,800	1,440	1,125
Pennsylvania	2,600	2,300	2,200	12,480	10,350	8,800
Tennessee	1,350	1,500	1,700	16,200	18,000	9,010
Virginia	2,100	2,000	1,700	2,520	2,200	1,500
	,	,		,	·	,
United States	1,747	1,977	1,645	139,750	161,140	100,435
Type 32, Southern Maryland Belt						
Pennsylvania	2,300	2,400	2,200	4,140	4,320	3,080
United States	2,300	2,400	2,200	4,140	4,320	3,080
Total light air-cured (31-32)	1,759	1,986	1,658	143,890	165,460	103,515
Class 3B, Dark air-cured (35-37)						
Kentucky	1.600	2.700	2,700	7,680	16,200	19,170
Tennessee	1,950	2,500	2,650	2,340	4,000	7,420
		,	,		,	
United States	1,670	2,658	2,686	10,020	20,200	26,590
Class 4, Cigar filler						
Type 41, Pennsylvania Seedleaf	1					
Pennsylvania	2,400	2,400	2,300	3,840	4,320	5,520
United States	2,400	2,400	2,300	3,840	4,320	5,520
All tobacco						
United States	1,967	2,209	1,830	628,720	710,161	533,241
	1,001	_,_50	1,550	020,720	7.10,101	333,Z-11

Sugarbeet Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

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

State		Area planted		Area harvested				
State	2016	2017	2018	2016	2017	2018		
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)		
California 1	25.3	25.0	24.6	25.2	24.4	24.6		
Colorado	28.1	29.4	26.3	27.6	29.0	25.5		
daho	172.0	167.0	163.0	170.0	166.0	163.0		
Michigan	151.0	144.0	150.0	149.0	143.0	147.0		
Minnesota	437.0	420.0	415.0	417.0	409.0	408.0		
Montana	45.6	42.9	43.5	45.3	42.7	42.4		
Nebraska	48.0	46.1	45.5	47.2	45.2	44.1		
North Dakota	213.0	214.0	202.0	203.0	212.0	199.0		
Oregon	10.7	9.1	9.3	10.2	9.1	9.3		
Washington	2.0	1.8	1.8	1.9	1.8	1.8		
Wyoming	30.7	32.1	32.1	30.0	31.6	30.7		
United States	1,163.4	1,131.4	1,113.1	1,126.4	1,113.8	1,095.4		
Ctoto		Yield per acre		Production				
State	2016	2017	2018	2016	2017	2018		
	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)		
California 1	45.1	43.7	44.4	1,137	1,066	1,092		
Colorado	33.6	35.7	32.6	927	1,035	831		
daho	41.4	39.2	40.5	7,038	6,507	6,602		
Michigan	30.8	25.2	29.1	4,589	3,604	4,278		
Minnesota	30.0	30.6	25.7	12,510	12,515	10,486		
Montana	35.0	32.7	31.1	1,586	1,396	1,319		
Nebraska	29.9	31.8	31.9	1,411	1,437	1,407		
North Dakota	30.8	30.4	28.8	6,252	6,445	5,731		
Oregon	42.0	36.7	39.4	428	334	366		
Washington	47.9	48.2	48.2	91	87	87		
Wyoming	31.7	28.2	30.8	951	891	946		
United States	32.8	31.7	30.3	36,920	35,317	33,14		

Sugarcane Area Harvested, Yield, and Production – States and United States: 2016-2018

	,,	Area harvested		Yield per acre 1			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	
For sugar	,	,	,	, ,	, ,	, ,	
Florida	400.0	397.0	397.0	40.3	40.9	42.2	
Hawaii ²	15.5	(NA)	(NA)	86.2	(NA)	(NA)	
Louisiana	400.0	414.0	426.0	28.8	32.5	34.7	
Texas	37.7	40.5	37.6	37.0	36.8	34.3	
United States	853.2	851.5	860.6	35.6	36.6	38.1	
For seed							
Florida	17.0	15.7	15.1	46.1	44.9	46.0	
Hawaii ²	-	(NA)	(NA)	-	(NA)	(NA)	
Louisiana	31.0	35.6	31.2	28.8	36.2	38.0	
Texas	1.9	1.3	1.3	37.0	48.0	37.3	
United States	49.9	52.6	47.6	35.0	39.1	40.5	
For sugar and seed							
Florida	417.0	412.7	412.1	40.5	41.1	42.3	
Hawaii ²	15.5	(NA)	(NA)	86.2	(NA)	(NA)	
Louisiana	431.0	449.6	457.2	28.8	32.8	34.9	
Texas	39.6	41.8	38.9	37.0	37.1	34.4	
United States	903.1	904.1	908.2	35.6	36.8	38.3	
State	Production ¹						
	20	16	20)17	20	18	
	(1,000	tons)	(1,000	0 tons)	(1,000 tons)		
For sugar							
Florida		16,120		16,237		16,753	
Hawaii ²		1,336		(NA)		(NA)	
Louisiana		11,520		13,455		14,782	
Texas		1,395		1,490		1,290	
United States		30,371		31,182		32,825	
For seed							
Florida		784		705		695	
Hawaii ²		-		(NA)		(NA)	
Louisiana		893		1,289		1,186	
Texas		70		62		48	
United States		1,747		2,056		1,929	
For sugar and seed							
Florida		16,904		16,942		17,448	
Hawaii ²		1,336		(NA)		(NA)	
Louisiana		12,413		14,744		15,968	
Texas		1,465		1,552		1,338	
United States		32,118		33,238		34,754	
United States		32,118		33,238		34,754	

⁻ Represents zero. (NA) Not available. 1 Net tons.

² Estimates discontinued in 2017.

Potato Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

Ctata		Area planted		Area harvested			
State	2016	2017	2018	2016	2016 2017		
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Alaska ¹	(X)	(X)	0.5	(X)	(X)	0.5	
California	39.4	41.7	38.5	38.3	4Ì.Ź	38.5	
Colorado	57.3	55.9	55.3	57.1	55.6	55.0	
Florida	25.0	29.0	22.0	22.9	28.7	20.8	
Idaho	325.0	310.0	315.0	324.0	310.0	315.0	
Illinois	7.5	8.6	7.7	7.4	8.1	7.6	
Kansas	4.2	4.1	3.3	4.2	4.1	3.3	
Maine	47.0	48.0	50.0	46.5	47.5	49.5	
Maryland	(D)	2.6	2.2	(D)	2.5	2.0	
Michigan	48.0	50.0	50.0	47.0	49.5	48.0	
Minnesota	44.0	46.0	44.0	43.0	45.5	43.5	
Missouri	8.2	8.8	7.8	7.9	8.5	7.4	
Montana	11.1	11.1	11.1	11.0	11.1	11.1	
Nebraska	16.5	19.0	19.5	16.4	19.0	19.3	
New Jersey	(D)	2.0	2.0	(D)	2.0	2.0	
New York	15.0	14.5	14.5	14.8	14.4	14.2	
North Carolina	14.0	16.0	13.0	13.6	15.1	12.2	
North Dakota	80.0	75.0	74.5	72.0	74.0	73.0	
Oregon	45.0	46.0	46.0	44.9	45.9	46.0	
Texas	21.5	23.3	14.5	21.0	22.8	14.0	
Virginia	4.4	5.0	4.8	4.1	4.5	4.4	
Washington	170.0	165.0	165.0	169.0	164.0	165.0	
Wisconsin	69.0	71.0	72.0	68.0	70.0	71.0	
Other States ²	4.6	-	-	4.6	-	-	
United States 3	1,056.7	1,052.6	1,033.2	1,037.7	1,044.5	1,023.3	

See footnote(s) at end of table.

--continued

Potato Area Planted and Harvested, Yield, and Production – States and United States: **2016-2018** (continued)

Ctata		Yield per acre		Production			
State	2016	2017	2018	2016	2017	2018	
	(cwt)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	
Alaska ¹	(X)	(X)	280	(X)	(X)	140	
California	401	429	402	15,372	17,894	15,470	
Colorado	389	382	395	22,236	21,220	21,722	
Florida	235	250	265	5,382	7,175	5,512	
Idaho	430	435	445	139,320	134,850	140,175	
Illinois	380	410	375	2,812	3,321	2,850	
Kansas	300	380	430	1,260	1,558	1,419	
Maine	325	320	310	15,113	15,200	15,345	
Maryland	(D)	365	255	(D)	913	510	
Michigan	370	370	380	17,390	18,315	18,240	
Minnesota	400	405	430	17,200	18,428	18,705	
Missouri	305	285	225	2,410	2,423	1,665	
Montana	335	340	345	3,685	3,774	3,830	
Nebraska	450	475	485	7,380	9,025	9,361	
New Jersey	(D)	300	265	(D)	600	530	
New York	240	280	290	3,552	4,032	4,118	
North Carolina	220	230	190	2,992	3,473	2,318	
North Dakota	300	330	320	21,600	24,420	23,360	
Oregon	590	550	610	26,491	25,245	28,060	
Texas	395	390	425	8,295	8,892	5,950	
Virginia	290	265	235	1,189	1,193	1,034	
Washington	625	605	640	105,625	99,220	105,600	
Wisconsin	435	425	400	29,580	29,750	28,400	
Other States ²	313	-	-	1,440	-	-	
United States 3	434	432	444	450,324	450,921	454,314	

⁻ Represents zero.

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

(X) Not applicable.

¹ Previously included in the Alaska table.

² Includes data withheld above.

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

Potato Area Planted and Harvested, Yield, and Production by Seasonal Group – States and United States: 2016-2018

Seasonal group		Area planted		Area harvested			
and State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Spring							
California	31.5	33.5	31.0	30.4	33.5	31.0	
Florida	25.0	29.0	22.0	22.9	28.7	20.8	
United States	56.5	62.5	53.0	53.3	62.2	51.8	
Summer							
Illinois	7.5	8.6	7.7	7.4	8.1	7.6	
Kansas	4.2	4.1	3.3	4.2	4.1	3.3	
Maryland	(D)	2.6	2.2	(D)	2.5	2.0	
Missouri	8.2	8.8	7.8	7.9	8.5	7.4	
New Jersey	(D)	2.0	2.0	(D)	2.0	2.0	
North Carolina	14.0	16.0	13.0	13.6	15.1	12.2	
Texas	21.5	23.3	14.5	21.0	22.8	14.0	
Virginia	4.4	5.0	4.8	4.1	4.5	4.4	
Other States ¹	4.6	-	-	4.6	-	-	
United States	64.4	70.4	55.3	62.8	67.6	52.9	
Fall							
Alaska ²	(X)	(X)	0.5	(X)	(X)	0.5	
California	7.9	<u> </u>	7.5	7. <u>9</u>	<u> 8.2</u>	7.5	
Colorado	57.3	55.9	55.3	57.1	55.6	55.0	
San Luis Valley	51.6	51.7	51.8	51.5	51.5	51.6	
All other areas	5.7	4.2	3.5	5.6	4.1	3.4	
Idaho	325.0	310.0	315.0	324.0	310.0	315.0	
Maine	47.0	48.0	50.0	46.5	47.5	49.5	
Michigan	48.0	50.0	50.0	47.0	49.5	48.0	
Minnesota	44.0	46.0	44.0	43.0	45.5	43.5	
Montana	11.1	11.1	11.1	11.0	11.1	11.1	
Nebraska	16.5	19.0	19.5	16.4	19.0	19.3	
New York	15.0	14.5	14.5	14.8	14.4	14.2	
North Dakota	80.0	75.0	74.5	72.0	74.0	73.0	
Oregon	45.0	46.0	46.0	44.9	45.9	46.0	
Washington	170.0	165.0	165.0	169.0	164.0	165.0	
Wisconsin	69.0	71.0	72.0	68.0	70.0	71.0	
United States ³	935.8	919.7	924.9	921.6	914.7	918.6	
All ³							
United States	1,056.7	1,052.6	1,033.2	1,037.7	1,044.5	1,023.3	

See footnote(s) at end of table. --continued

Potato Area Planted and Harvested, Yield, and Production by Seasonal Group – States and United States: 2016-2018 (continued)

Seasonal group		Yield per acre			Production	
and State	2016	2017	2018	2016	2017	2018
	(cwt)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Spring						
California	390	435	395	11,856	14,573	12,245
Florida	235	250	265	5,382	7,175	5,512
United States	323	350	343	17,238	21,748	17,757
Summer						
Illinois	380	410	375	2,812	3,321	2,850
Kansas	300	380	430	1,260	1,558	1,419
Maryland	(D)	365	255	(D)	913	510
Missouri	305	285	225	2,410	2,423	1,665
New Jersey	(D)	300	265	(D)	600	530
North Carolina	220	230	190	2,992	3,473	2,318
Texas	395	390	425	8,295	8,892	5,950
Virginia	290	265	235	1,189	1,193	1,034
Other States ¹	313	-	-	1,440	-	-
United States	325	331	308	20,398	22,373	16,276
Fall						
Alaska ²	(X)	(X)	280	(X)	(X)	140
California	4 4 5	405	430	3,516	3,321	3,225
Colorado	389	382	395	22,236	21,220	21,722
San Luis Valley	385	375	390	19,828	19,313	20.124
All other areas	430	465	470	2,408	1,907	1,598
Idaho	430	435	445	139,320	134,850	140,175
Maine	325	320	310	15,113	15,200	15,345
Michigan	370	370	380	17,390	18,315	18,240
Minnesota	400	405	430	17,200	18,428	18,705
Montana	335	340	345	3,685	3,774	3,830
Nebraska	450	475	485	7,380	9,025	9,361
New York	240	280	290	3,552	4,032	4,118
North Dakota	300	330	320	21,600	24,420	23,360
Oregon	590	550	610	26,491	25,245	28,060
Washington	625	605	640	105,625	99,220	105,600
Wisconsin	435	425	400	29,580	29,750	28,400
United States ³	448	445	458	412,688	406,800	420,281
All ³						
United States	434	432	444	450,324	450,921	454,314

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

⁽X) Not applicable.

¹ Includes data withheld above.

Previously included in Alaska table.
 Beginning in 2018, United States total includes data for Alaska.

Fall Potato Objective Yield Data

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

Percent of Fall Potatoes Planted to Major Varieties - Selected States: 2016-2018 Crop

		ent of planted a		- Selected States. 201		ent of planted a	cres
State and variety	2016	2017	2018	State and variety	2016	2017	2018
Idaho							
Agata	(D)	1.0	1.2	North Dakota			
Alturas	1.7	(D)	2.4	Bannock	4.9	3.2	7.9
Bannock	1.9	2.3	(D)	Dakota Pearl	5.6	4.6	(D)
Clearwater	1.4	2.4	2.6	Dakota Russet	1.8	2.8	4.8
Dark Red Norland	(D)	1.9	2.2	Dark Red Norland	(D)	6.8	3.3
Frito Lay	(D)	1.2	1.5	Milva	(D)	1.4	(D)
Nor Donna	(D)	2.0	(D)	Mountain Gem	(D)	(D)	2.2
Norland	1.1	(D)	(D)	Norkotah	1.0	(D)	(D)
Ranger	13.1	14.4	13.Ś	Norland	2.7	9.1	2.8
Russet Burbank	51.3	48.3	44.9	Prospect	19.0	12.7	(D)
Russet Norkotah	16.7	17.1	18.0	Ranger	4.4	(D)	1.1
Teton	(D)	(D)	1.6	Red La Soda	2.3	1.4	1.2
Umatillas	2.1	2.4	3.7	Red Pontiac	(D)	1.8	(D)
Western Russet	(D)	(D)	1.1	Russet Burbank	39.2	29.2	42.7
Other	1Ò.Ź	7.Ó	7.3	Sangre	(D)	2.5	1.8
	-			Umatillas	1 <u>2</u> .1	14.7	14.8
Maine				Other	7.0	9.8	17.4
Atlantic	(D)	1.7	1.2				
Blazer	1.0	1.5	(D)	Oregon			
Caribou	(D)	3.3	5.1	Agata	(D)	1.1	(D)
Dark Red Norland	(D)	(D)	2.1	Alturas	7.5	7.0	13.0
Frito-Lay	15.7	12.2	8.9	Atlantic	1.9	(D)	1.6
Goldrush	2.5	1.1	4.2	Ciklamen	(D)	2.2	(D)
Highland	(D)	(D)	1.9	Clearwater	4.1	2.8	10.0
Innovator	2.1	(D)	(D)	Dakota Crisp	1.2	(D)	(D)
Keuka Gold	1.5	2.5	1.4	Dakota Pearl	(D)	1.7	(D)
Lamoka	1.4	2.5	(D)	Dakota Russet	(D)	(D)	1.2
Nadine	1.5	2.0	1.8	Defender	1.8	(D)	(D)
Norland	5.1	2.6	2.0	Frito Lay	5.9	12.0	1.0
Norwis	2.6	2.3	1.7	Lamoka	2.7	2.9	(D)
Russet Burbank	40.6	41.7	46.2	Pike	4.7	(D)	(D)
Russet Norkotah	4.8	6.7	2.6	Premier	(D)	1.6	(D)
Russet Nugget	(D)	2.0	(D)	Ranger	11.2	10.7	11.4
Satina	(D)	(D)	1.1	Russet Burbank	12.1	14.4	9.0
	(D)	1.3	(D)	Russet Norkotah	17.5	18.4	15.4
ShepodySnowden	4.4	2.6	(D) 3.1	Shepody	9.4	7.6	11.9
Superior	2.6	1.6	1.2	Umatillas	17.4	13.2	17.8
Waneta	1.1	1.5	2.0				1.4
Other	13.1	10.9	13.5	Waneta Yukon Gold	(D) (D)	(D) 1.7	(D)
Otilei	13.1	10.9	13.3	Other	2.6	2.7	6.3
Minnesota					2.0		0.0
Alpine	1.0	1.2	(D)				
Cascade	(D)	1.8	1.1				
Chieftain	1.0	(D)	(D)				
Dakota Pearl	3.4	ì.ź	4 .2				
Dakota Rose	1.1	1.3	3.1				
Dakota Russet	(D)	1.2	2.6				
Dark Red Norland	(D)	5.1	4.6				
Goldrush	1.5	1.6	3.1				
Ivory Russet	(D)	(D)	1.6				
Norland	13.9	8.2	11.5				
Russet Burbank	63.7	60.1	50.7				
Umatillas	7.5	12.3	11.1				
Other	6.9	6.0	6.4				
	0.0	5.0	J. 1				

See footnote(s) at end of table.

Percent of Fall Potatoes Planted to Major Varieties - Selected States: 2016-2018 Crop (continued)

State and variety	Perc	ent of planted a	icres	State and variety	Perc	ent of planted a	cres
State and variety	2016	2017	2018	State and variety	2016	2017	2018
Washington				Wisconsin			
Agata	(D)	1.1	1.9	Atlantic	2.4	2.4	3.4
Alturas	5.9	4.2	3.7	Dark Red Norland	(D)	2.2	5.6
Bannock	(D)	1.3	(D)	Frito Lay	23.1	22.8	23.6
Bintje	1.5	(D)	(D)	Goldrush	12.2	5.5	8.2
Chieftain	3.4	5.5	2.6	Lamoka	2.6	3.3	(D)
Clearwater	3.0	4.3	8.8	Norland	7.7	5.6	2.5
Frito-Lay	4.2	(D)	(D)	Pinnacle	(D)	1.3	(D)
Lamoka	1.1	(D)	(D)	Russet Burbank	15.8	19.9	9.9
NW1	1.5	(D)	(D)	Russet Norkotah	10.5	6.9	9.3
Pike	(D)	(D)	1.0	Silverton	6.4	6.7	9.4
Ranger	14.4	11.5	8.1	Snowden	5.1	5.6	6.9
Russet Burbank	31.1	26.8	29.6	Superior	1.8	2.2	1.7
Russet Norkotah	13.3	8.2	8.1	Umatillas	6.2	6.4	4.0
Satina	(D)	1.3	(D)	Other	6.2	9.2	15.5
Snowden	(D)	1.1	(D)				
Shepody	1.8	6.5	5.5				
Umatillas	12.9	13.5	14.8				
Other	5.9	14.7	15.9				

See footnote(s) at end of table.

--continued

Percent of Fall Potatoes Planted to Major Varieties - Seven-State Total: 2016-2018 Crop

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

Variatu	Perce	ent of planted	acres	Variativ	Perce	ent of planted	acres
Variety	2016	2017	2018	Variety	2016	2017	2018
Agata	0.2	0.7	0.9	Kennebec	(D)	(D)	0.1
Alegria	0.1	0.1	(D)	Keuka Gold	0.1	0.1	0.1
All Blue	0.1	(D)	(D)	Lamoka	1.0	0.8	(D)
Almera	(D)	0.1	(D)	Manistee	(D)	0.1	(D)
Alpine	0.2	0.2	(D)	Milva	(D)	0.2	0.1
Alturas	2.3	1.6	2.3	Modoc	0.1	(D)	(D)
Atlantic	0.5	0.5	0.6	Mountain Gem	(D)	(D)	0.5
Bannock	1.5	1.6	1.2	Nadine	0.1	0.2	0.2
Bintje	0.3	(D)	0.2	Natascha	(D)	(D)	0.1
Blazer	0.1	0.1	(D)	Nor Donna	0.2	0.8	(D)
Blushing Belle	(D)	(D)	0.1	Norland	2.7	2.3	1.3
Cal White	0.1	0.2	(D)	Norwis	0.2	0.1	0.2
Canella	0.1	(D)	(D)	NW1	0.3	(D)	(D)
Caribou	(D)	0.2	0.5	Ontario	0.1	(D)	(D)
Cascade	0.1	0.2	0.1	Payette Russet	(D)	(D)	0.1
Cecile	(D)	0.1	(D)	Pike	0.3	0.2	0.3
Challenger	(D)	0.1	0.1	Pinnacle	(D)	0.1	(D)
Chieftain	0.9	1.3	0.7	Premier	(D)	0.2	(D)
Ciklamen	(D)	0.4	0.3	Prospect	2.2	1.6	(D)
Classic	0.4	0.2	0.1	Purple Majesty	(D)	0.1	(D)
Clearwater	1.5	2.1	3.3	Ranger	9.5	8.9	7.9
Colorado Rose	0.1	0.2	0.1	Red La Soda	0.4	0.2	0.2
Cultivate	0.2	0.1	(D)	Red Pontiac	0.1	0.3	(D)
Dakota Crisp	0.1	0.1	(D)	Rosara	(D)	(D)	0.1
Dakota Pearl	0.9	0.7	0.3	Russet Burbank	40.9	38.0	37.4
Dakota Rose	0.1	0.2	0.2	Russet Norkotah	11.9	10.4	10.8
Dakota Russet	0.2	0.5	0.8	Russet Nugget	(D)	0.1	(D)
Dark Red Norland	(D)	2.2	2.2	Sangre	(D)	0.3	0.2
Defender	0.1	(D)	(D)	Satina	0.1	0.4	0.3
Elfe	(D)	0.1	(D)	Shepody	1.0	1.9	1.7
Frito Lay	4.6	3.6	3.5	Silverton	0.6	0.5	0.8
Gala	0.1	(D)	(D)	Snowden	0.8	0.8	1.0
Goldrush	1.3	0.6	1.3	Superior	0.3	0.3	0.3
Granola	(D)	(D)	(D)	Teton	0.3	0.3	0.6
Highland	0.2	(D)	0.2	Umatillas	6.8	7.8	7.9
Hi Lite Russet	0.1	(D)	(D)	Waneta	0.1	0.2	0.2
Innate	0.3	(D)	0.2	Western Russet	0.4	0.1	0.4
Innovator	0.1	(D)	(D)	White Pearl	(D)	0.1	(D)
Ivory Crisp	0.1	0.1	(D)	Yukon Gold	0.3	0.3	0.1
Ivory Russet	(D)	0.1	0.3	Other	2.3	4.1	7.6

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

Potato Objective Yield Data

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

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

	Re	eds	Wh	ites	Yell	ows	Rus	sets
State and year	Samples	Average number of hills per acre	Samples	Average number of hills per acre	Samples	Average number of hills per acre	Samples	Average number of hills per acre
	(number)	(number)	(number)	(number)	(number)	(number)	(number)	(number)
Idaho	5	14,147	7	13,051	3	13,419	174	12,875
	8	13,960	6	12,780	(D)	(D)	182	12,720
	6	14,349	5	12,082	(D)	(D)	184	12,233
	8	15,190	6	13,232	8	14,878	203	12,936
	8	15,291	3	13,592	5	14,772	157	12,707
Maine	7	13,315	35	12,190	11	13,643	65	10,627
	8	13,183	43	13,106	9	11,434	85	10,029
	10	13,322	53	13,331	11	12,479	74	9,679
	4	12,563	36	13,962	5	12,125	65	10,865
	8	11,985	34	14,341	6	12,130	77	9,925
Minnesota	35 31 18 13 23	11,952 13,705 12,998 12,784 13,208	8 9 6 6	12,390 12,629 13,211 11,563 11,082	(D) (D) - (D)	(D) (D) - (D)	88 82 101 81 92	11,533 13,416 13,663 12,293 13,438
North Dakota	19	11,008	32	10,985	(D)	(D)	78	11,772
	16	12,688	31	12,090	4	17,154	83	13,297
	9	10,017	34	12,441	(D)	(D)	96	14,135
	33	12,202	33	13,035	7	12,697	78	13,711
	14	12,481	19	12,960	7	12,423	120	13,457
Oregon	4 (D) 3 (D)	9,772 13,138 (D) 12,376 (D)	17 16 25 28 16	11,584 11,269 10,945 13,097 13,501	3 3 - 3 (D)	10,663 11,195 - 11,063 (D)	76 70 60 74 91	12,848 12,864 11,449 12,910 13,569
Washington	3	17,070	13	15,419	7	20,933	111	14,663
	6	20,170	12	15,669	5	13,988	104	14,867
	5	17,745	16	14,726	4	17,932	103	14,119
	9	18,303	8	13,427	4	14,721	81	14,103
	(D)	(D)	18	15,152	7	16,652	90	14,488
Wisconsin	6	14,455	41	14,320	5	15,272	65	12,233
	6	16,044	42	15,375	(D)	(D)	60	13,302
	12	16,864	43	15,544	(D)	(D)	52	13,310
	13	17,372	48	15,739	(D)	(D)	47	12,965
	9	18,811	43	15,808	5	16,134	48	12,798

⁻ Represents zero.

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

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

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

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

Fall Potato Grading Categories by Type – Selected States: 2016-2018

[Gross yield basis]

[G. GGG J.G.G. BGG.G]										
Type and State	2	No. 1 2 inch minimum ¹			No. 2 or ocessing usab /2 inch minimu		Cull ²			
	2016 2017 2018		2016	2017	2018	2016	2017	2018		
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	
Round red potatoes										
Minnesota	74.1	77.2	82.4	18.0	20.2	13.0	7.9	2.6	4.6	
North Dakota	(D)	80.9	75.5	(D)	13.5	21.7	(D)	5.6	2.8	
Wisconsin	78.8	76.1	(D)	20.7	23.7	(D)	0.5	0.2	(D)	
Round white potatoes										
Maine ³	85.0	88.6	96.5	7.4	10.9	3.4	7.6	0.5	0.1	
North Dakota	(D)	67.8	80.0	(D)	24.4	13.7	(D)	7.8	6.3	
Oregon	91.6	87.7	(D)	5.6	6.8	(D)	2.8	5.5	(D)	
Wisconsin	85.1	80.4	82.1	14.8	19.6	17.8	0.1	-	0.1	
All long potatoes 4										
Idaho ⁵	82.0	79.2	78.3	13.4	15.5	14.5	4.6	5.3	7.2	
Maine ³	87.6	83.2	79.3	6.0	16.1	20.0	6.4	0.7	0.7	
Minnesota	71.9	73.8	77.6	21.8	21.7	14.2	6.3	4.5	8.2	
North Dakota	72.3	77.9	83.7	18.9	18.2	13.0	8.8	3.9	3.3	
Oregon	80.5	79.1	79.0	15.0	15.7	13.8	4.5	5.2	7.2	
Washington	82.4	86.6	81.1	12.2	9.8	12.3	5.4	3.6	6.6	
Wisconsin	78.1	80.8	78.7	21.8	18.6	20.6	0.1	0.6	0.7	

⁻ Represents zero.

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

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

² Potatoes not meeting the requirements for United States #1 or #2, as stated in United States Standards for Grades of Potatoes, United States

Department of Agriculture, Agricultural Marketing Service.
³ Percent of net yield adjusted for field loss.

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

⁵ Russets only.

Round Potato Size Categories by Type – Selected States: 2016-2018 [Gross yield basis]

				Inches			
Year, type, and State	1 1/2	1 7/8	2	2 1/4	2 1/2	3 1/2	4 inches
7.71	- 1 7/8	2	- 2 1/4	- 2 1/2	- 3 1/2	4	and over
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
2016							
Red potatoes							
Minnesota	9.3	6.7	16.9	22.6	44.5	-	-
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wisconsin	8.7	8.8	20.3	28.4	33.8	-	-
White potatoes							
Maine ¹	2.0	2.8	9.4	16.4	61.9	6.3	1.2
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oregon	2.3	2.6	9.9	12.9	56.9	11.2	4.2
Wisconsin	3.6	3.3	10.9	18.1	61.8	1.8	0.5
2017							
Red potatoes							
Minnesota	6.0	6.1	12.7	23.9	48.4	2.9	-
North Dakota	4.1	4.2	10.8	19.9	60.4	0.6	-
Wisconsin	11.8	9.0	19.8	27.5	31.9	-	-
White potatoes							
Maine ¹	3.9	4.7	13.0	19.8	53.5	4.4	0.7
North Dakota	9.9	11.1	21.7	21.7	34.4	1.2	-
Oregon	2.7	3.6	13.9	19.6	45.2	13.0	2.0
Wisconsin	5.2	4.4	12.8	19.3	54.8	2.9	0.6
2018							
Red potatoes							
Minnesota	5.4	6.0	16.4	24.3	47.3	0.6	_
North Dakota	6.6	5.6	12.2	21.1	51.1	3.4	_
Wisconsin	(D)	(D)	(D)	(D)	(D)	(D)	(D)
White potatoes							
Maine ¹	0.7	2.5	12.4	21.7	59.0	3.7	_
North Dakota	6.6	7.6	17.7	20.0	45.3	2.8	_
Oregon	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wisconsin	5.3	4.4	12.8	19.8	56.0	1.7	(-)

⁻ Represents zero.

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

1 Percent of net yield adjusted for field loss.

Long Potato (Russet and Shepody) Size Categories - Maine: 2016-2018

[Percent of net yield - adjusted for field loss]

	Incl	hes			Our	nces				
Year	1 1/2 - 1 7/8	1 7/8 - 2	2 inches or 4-6	6-8	8-10	10-12	12-14	14 and over		
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)		
2016	1.0	2.1	23.0	18.4	16.3	12.5	7.4	19.3		
2017	3.2	3.8	31.2	20.2	13.6	8.5	6.2	13.3		
2018	7.9	6.3	18.7	19.2	15.2	10.3	6.9	15.5		

All Long Potato Size Categories - Selected States: 2016-2018

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

		Inches						Oun	ices				
Year and State	1 1/2 - 1 5/8	1 5/8 - 1 7/8	1 7/8 - 2	2 in. or 4-6	6	7	8	9	10	11	12	13	14 and over
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
2016													
Idaho 1	1.0	5.1	3.5	28.0	10.4	8.6	8.0	6.3	5.4	4.5	3.7	2.9	12.6
Minnesota	1.8	9.2	7.8	23.4	10.4	10.5	8.1	6.4	5.0	4.2	3.6	2.5	7.1
North Dakota	1.0	5.5	5.9	17.9	8.3	9.8	9.0	7.2	6.9	6.3	5.1	3.7	13.4
Oregon	0.8	3.2	2.6	18.1	8.9	7.1	7.7	6.7	7.2	5.2	5.6	4.5	22.4
Washington	0.6	2.8	2.3	22.1	9.5	8.6	9.2	7.0	6.7	4.9	4.8	4.1	17.4
Wisconsin	0.5	5.1	5.3	26.4	11.1	10.2	9.0	7.3	5.3	4.8	3.1	2.3	9.6
2017													
Idaho 1	1.6	5.8	5.6	24.3	10.8	8.7	7.5	7.1	5.6	4.5	3.7	3.2	11.6
Minnesota	1.8	8.2	8.2	29.5	10.5	9.6	7.0	5.6	4.7	3.8	2.5	2.2	6.4
North Dakota	1.5	6.7	6.9	26.9	9.9	9.4	7.1	6.7	5.6	4.0	3.6	2.4	9.3
Oregon	1.4	4.6	4.1	18.8	8.6	7.8	9.1	6.9	9.1	5.0	4.2	3.7	16.7
Washington	1.0	3.0	3.8	19.0	9.9	8.9	9.2	7.2	8.6	5.4	4.1	3.8	16.1
Wisconsin	0.5	6.0	5.0	24.8	11.7	10.2	9.9	7.0	5.8	5.3	3.5	2.3	8.0
2018													
Idaho 1	1.2	5.2	4.8	23.1	9.4	9.3	8.1	6.6	6.3	4.9	4.1	3.5	13.5
Minnesota	1.2	5.5	5.0	23.7	9.8	9.6	9.7	7.4	5.7	5.1	4.3	2.6	10.4
North Dakota	1.0	4.6	4.3	20.1	9.1	8.8	7.8	7.4	6.2	6.2	4.9	3.8	15.8
Oregon	1.0	4.3	3.9	20.6	9.0	9.2	8.2	7.2	7.1	5.4	3.7	4.1	16.3
Washington	0.9	3.7	3.7	20.6	9.3	9.3	8.1	7.4	6.3	5.8	4.4	3.8	16.7
Wisconsin	8.0	7.4	6.0	27.2	10.7	7.9	9.0	6.2	5.5	4.9	2.4	2.6	9.4

¹ Russets only.

Sweet Potato Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

Ctoto		Area planted			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas	(D)	(D)	5.2	(D)	(D)	4.8
California	20.0	21.0	21.0	20.0	21.0	21.0
Florida	(D)	(D)	6.5	(D)	(D)	5.8
Louisiana	10.0	10.0	8.5	9.5	9.5	8.3
Mississippi	30.0	30.0	27.0	29.0	29.0	26.0
North Carolina	98.0	90.0	82.0	95.0	89.5	78.5
Other States	10.1	10.6	=	9.8	10.3	-
United States	168.1	161.6	150.2	163.3	159.3	144.4
State		Yield per acre			Production	
State	2016	2017	2018	2016	2017	2018
	(cwt)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Arkansas	(D)	(D)	220	(D)	(D)	1,056
California	310	310	370	6,20Ó	6,5Ì1Ó	7,770
Florida	(D)	(D)	140	(D)	(D)	812
Louisiana	160	230	265	1,520	2,185	2,200
Mississippi	170	170	175	4,930	4,930	4,550
North Carolina	180	220	140	17,100	19,690	10,990
Other States	183	226	-	1,796	2,331	-
United States	193	224	190	31,546	35,646	27,378

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

This page intentionally left blank.

Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

State		Area planted		Area harvested				
State	2016	2017	2018	2016	2017	2018		
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)		
California	50.0	50.0	48.0	49.0	49.7	47.7		
Colorado	46.0	58.0	42.0	42.5	54.5	31.5		
daho	140.0	180.0	185.0	137.0	178.0	183.		
Michigan	210.0	220.0	195.0	208.0	218.5	193.		
Minnesota	155.0	170.0	175.0	147.0	163.0	168.		
Montana	103.0	275.0	395.0	99.5	265.0	386.		
Nebraska	138.0	180.0	140.0	122.0	155.0	131.		
North Dakota	625.0	705.0	635.0	565.0	685.0	615.		
Texas	29.0	22.0	18.0	24.0	20.0	16.		
Washington	135.0	196.0	218.0	133.0	195.0	217.		
Nyoming	33.0	41.0	30.0	31.1	39.0	27.		
United States	1,664.0	2,097.0	2,081.0	1,558.1	2,022.7	2,016.		
State		Yield per acre 1			Production ¹			
State	2016	2017	2018	2016	2017	2018		
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)		
California	2,330	2,100	2,500	1,141	1,045	1,19		
Colorado	1,750	2,000	2,120	742	1,092	66		
daho	1,920	1,610	1,710	2,624	2,873	3,12		
Michigan	1,920	2,010	2,400	4,002	4,394	4,63		
Minnesota	2,230	2,190	2,360	3,279	3,567	3,96		
Montana	1,620	1,000	1,350	1,613	2,643	5,21		
Nebraska	2,270	2,520	2,480	2,766	3,901	3,24		
North Dakota	1,580	1,810	1,760	8,908	12,392	10,80		
Гехаs	1,100	1,100	1,100	264	220	17		
Nashington	1,980	1,490	1,780	2,631	2,901	3,85		
Nyoming	2,360	2,390	2,180	733	933	60		
United States	1,842	1,778	1,860	28,703	35,961	37,49		

¹ Clean basis.

		Area planted			Area harvested	
Class and State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)				
Large lima						
California	13.7	12.1	10.2	13.7	12.0	10.1
Colorado	(NA)	-	-	(NA)	-	-
Idaho	(NA)	(D)	(D)	(NA)	(D)	(D)
Michigan	(NA)	-	-	(NA)	-	-
Minnesota	(NA)	=	=	(NA)	-	-
Montana	(NA)	=	=	(NA)	-	-
Nebraska	(NA)	-	-	(NA)	=	-
North Dakota	(NA)	-	-	(NA)	=	-
Texas	(NA)	<u>-</u>		(NA)	<u>-</u>	<u>-</u>
Washington	(NA)	(D)	(D)	(NA)	(D)	(D)
Wyoming	(NA)	-	-	(NA)	-	-
Other States ¹	(NA)	0.2	0.7	(NA)	0.2	0.7
United States	13.7	12.3	10.9	13.7	12.2	10.8
Baby lima						
California	7.9	8.0	10.0	7.8	8.0	9.9
Colorado	(NA)	-	=	(NA)	-	-
Idaho	(NA)	0.6	(D)	(NA)	0.6	(D)
Michigan	(NA)	<u>-</u>	-	(NA)	<u>-</u>	-
Minnesota	(NA)	(D)	-	(NA)	(D)	-
Montana	(NA)	-	-	(NA)	-	-
Nebraska	(NA)	-	-	(NA)	-	-
North Dakota	(NA)	-	-	(NA)	-	-
Texas	(NA)	- (5)	- (5)	(NA)	- (D)	- (5)
Washington	(NA)	(D)	(D)	(NA)	(D)	(D)
Wyoming	(NA)	-	-	(NA)	-	-
Other States ¹	(NA)	0.5	1.1	(NA)	0.5	1.1
United States	7.9	9.1	11.1	7.8	9.1	11.0
Navy						
California	(NA)	-	-	(NA)	-	-
Colorado	(NA)	=	=	(NA)	-	-
Idaho	1.2	2.0	1.2	1.0	1.9	1.1
Michigan	67.0	74.0	60.0	66.3	73.9	59.2
Minnesota	39.5	41.4	38.0	37.5	39.5	36.5
Montana	(NA)	-	-	(NA)	-	-
Nebraska	1.0	(D)	(D)	0.8	(D)	(D)
North Dakota	83.0	84.0	81.0	73.0	82.0	79.0
Texas	(NA) (²)	1.1	1.4	(NA) (²)	1.1	1.4
Washington	(²)	(D)	1.4 (D)	(2)	(D)	1.4 (D)
Other States ¹	(NA)	2.7	1.0	(NA)	2.4	1.0
			182.6	, ,		
United States	191.7	205.2	18∠.6	178.6	200.8	178.2

See footnote(s) at end of table.

Class and State		Yield per acre 3			Production ³	Production ³		
Class and State	2016	2017	2018	2016	2017	2018		
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)		
Large lima								
California	2,190	2,090	2,150	300	251	217		
Colorado	(NA)	-	, -	(NA)	-	-		
Idaho	(NA)	(D)	(D)	(NA)	(D)	(D)		
Michigan	(NA)	(- <i>)</i>	(- <i>)</i>	(NA)	-	(- <i>/</i>		
Minnesota	(NA)	_	_	(NA)	_	_		
Montana	(NA)	_	_	(NA)	_	_		
Nebraska	(NA)	_	_	(NA)	_	_		
North Dakota	(NA)		_	(NA)	_	_		
Texas	(NA)	_	_	(NA)	_			
	(NA)	(D)	(D)	` ,	(D)	(D)		
Washington	` ,	(D)	(D)	(NA)	(D)	(D)		
Wyoming	(NA)	-	-	(NA)	-	-		
Other States ¹	(NA)	2,000	2,429	(NA)	4	17		
United States	2,190	2,090	2,167	300	255	234		
Baby lima								
California	2,680	2,210	2,560	209	177	253		
Colorado	(NA)	-	-	(NA)	-	-		
Idaho	(NA)	2,200	(D)	(NA)	13	(D)		
Michigan	(NA)	2,200	(5)	(NA)	-	(5)		
Minnesota	(NA)	(D)	_	(NA)	(D)	_		
Montana	(NA)	(D)	_	(NA)	(D)	_		
Nebraska	(NA)	_	_	(NA)	_			
North Dakota	(NA)	-	-	(NA)	-	-		
	(NA)	-	-	(NA) (NA)	-	-		
Texas	\ /	(D)	(D)		(D)	(D)		
Washington	(NA)	(D)	(D)	(NA)	(D)	(D)		
Wyoming	(NA)	-	-	(NA)	-	-		
Other States ¹	(NA)	2,800	2,000	(NA)	14	22		
United States	2,680	2,242	2,500	209	204	275		
Navy								
California	(NA)	-	-	(NA)	-	-		
Colorado	(NA)	-	-	(NA)	-	-		
Idaho	2,700	2,500	2,920	27	48	32		
Michigan	1,970	2,110	2,600	1,306	1,559	1,539		
Minnesota	2,240	2,070	2,300	840	818	840		
Montana	(NA)	2,070	2,000	(NA)	-	J-10		
Nebraska	2,800	(D)	(D)	22	(D)	(D)		
North Dakota	1,810	2,010	2,050	1,321	1,648	1,620		
Texas	(NA)	2,010	2,030	(NA)	1,040	1,020		
Washington	(NA) (²)	2,750	2,290	(IVA) (²)	30	32		
Wyoming	(2)	2,750 (D)	2,290 (D)	(2)	(D)	(D)		
Other States ¹		` ,	, ,	` '	58	22		
	(NA)	2,417	2,200	(NA)				
United States	1,969	2,072	2,292	3,516	4,161	4,085		

See footnote(s) at end of table.

Class and State		Area planted			Area harvested	
Class and State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Great northern						
California	(NA)	-	-	(NA)	-	
Colorado	(NA)	0.7	(D)	(NA)	0.7	(D
daho	1.3	1.4	1.9	1.2	1.4	1.
Michigan	(NA)	(D)	(D)	(NA)	(D)	(0
/linnesota	(NA)	(D)	(D)	(NA)	(D)	(C
Montana	(NA)	· -	(D)	(NA)	· · ·	(C
Nebraska	37.0	54.6	41.0	31.9	47.6	39.
North Dakota	3.4	2.9	(D)	3.3	2.8	(C
Texas	(NA)	-	· -	(NA)	-	•
Washington	(NA)	1.0	(D)	(NA)	1.0	(C
Nyoming	(2)	1.5	(D)	(2)	1.5	(C
Other States 1	(NA)	1.3	8.0	(NA)	1.3	7.
Jnited States	41.7	63.4	50.9	36.4	56.3	48.
Small white						
California	(NA)	=	=	(NA)	-	
Colorado	(NA)	=	(D)	(NA)	-	(E
daho	`(²)	1.8	(D)	(2)	1.8)
Michigan	(NA)	(D)	(D)	(NA)	(D))
Minnesota	(NA)	(D)	(D)	(NA)	(D))
Montana	(NA)	-	-	(NA)	-	`
Nebraska	(NA)	(D)	=	(NA)	(D)	
North Dakota	(NA)	-	-	(NA)	-	
Гехаs	(NA)	=	=	(NA)	-	
Vashington	(2)	(D)	1.2	(2)	(D)	1.
Vyoming	(NA)	-	-	(NA)	· -	
Other States ¹	(NA)	5.8	5.9	(NA)	5.5	5.
Jnites States	(²)	7.6	7.1	(²)	7.3	7.

See footnote(s) at end of table.

Class and State		Yield per acre 3			Production ³	
Class and State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Great northern						
California	(NA)	-	-	(NA)	-	
Colorado	(NA)	2,150	(D)	(NA)	15	(D
Idaho	2,400	2,420	2,130	29	34	38
Michigan	(NA)	(D)	(D)	(NA)	(D)	(D
Minnesota	(NA)	(D)	(D)	(NA)	(D)	(D
Montana	(NA)	` -	(D)	(NA)	· -	(D
Nebraska	2,340	2,520	2,500	746	1,200	975
North Dakota	2,120	2,240	(D)	70	63	(D
Texas	(NA)	-	-	(NA)	-	` .
Washington	(NA)	2,510	(D)	(NA)	25	(D)
Wyoming	`(²)	2,350	(D)	`(²)	35	(D
Other States ¹	(NA)	2,385	2,276	(NA)	31	173
Circi Ciatos	(10.1)	2,000	2,270	(147.1)	01	170
United States	2,321	2,492	2,450	845	1,403	1,186
Small white						
California	(NA)	=	-	(NA)	-	
Colorado	(NA)	_	(D)	(NA)	-	(D
daho	(2)	2,240	(D)	(²)	40	(D
Michigan	(NA)	(D)	(D)	(NA)	(D)	(D
Minnesota	(NA)	(D)	(D)	(NA)	(D)	(D
Montana	(NA)	(- <i>)</i>	(- <i>)</i>	(NA)	(- <i>/</i>	ν-
Nebraska	(NA)	(D)	_	(NA)	(D)	
North Dakota	(NA)	-	_	(NA)	-	
Texas	(NA)	_	_	(NA)	_	
Washington	(2)	(D)	1,900	(²)	(D)	23
Wyoming	(NA)	-	-	(NA)	-	2.
Other States ¹	(NA)	2,382	2,276	(NA)	131	133
United States	(²)	2,342	2,214	(²)	171	15

See footnote(s) at end of table.

Pinto	Class and State		Area planted			Area harvested	
Pinto California (NA) - (NA) - California (NA) - (NA) - Colorado 38.0 48.0 27.0 35.5 45.5 Idaho 17.0 32.0 22.0 16.5 31.5 Monthan 45.5 Idaho 17.7 15.9 9.0 19.3 15.1 Monthan 40.0 60.0 3.0 3.5 6.0 Nebraska 84.0 93.6 65.0 76.0 79.8 North Dakota 424.0 488.0 320.0 383.0 457.0 3 77.7 78.8 8.4 10.2 7.7 79.8 North Dakota 424.0 488.0 320.0 383.0 457.0 3 70 78.8 457.0 79.8 8 457.0 77.7 8 8.4 10.2 7.7 77 77 9young 22.0 31.0 23.0 20.5 29.5 565.5 676.1 4 4 4 4 4 4 4	Class and State	2016	2017	2018	2016	2017	2018
California (NA) - - (NA) - Colorado 38.0 48.0 27.0 35.5 45.5 145.5 Idaho 17.0 32.0 22.0 16.5 31.5 Morbingan (²) (D)		(1,000 acres)	(1,000 acres)				
Colorado 38.0 48.0 27.0 35.5 45.5 Idaho 17.0 32.0 22.0 16.5 31.5 Michigan (*) (D) (D) (D) (D) Michigan (*) (D) (D) (D) (D) Minnesota 21.7 15.9 9.0 19.3 15.1 Montana 4.0 6.0 3.0 3.5 6.0 North Dakota 424.0 488.0 320.0 383.0 457.0 3 Texas (NA) (D) (D) (NA) (D) (NA) (D) Washington 11.0 7.8 8.4 10.2 7.7 Wyoming 22.0 31.0 23.0 20.5 29.5 Other States † (NA) 4.1 3.1 (NA) 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Pinto						
Colorado 38.0 48.0 27.0 35.5 45.5 Idaho 17.0 32.0 22.0 16.5 31.5 Michigan (*) (D) (D) (D) (D) Michigan (*) (D) (D) (D) (D) Minnesota 21.7 15.9 9.0 19.3 15.1 Montana 4.0 6.0 3.0 3.5 6.0 North Dakota 424.0 488.0 320.0 383.0 457.0 3 Texas (NA) (D) (D) (NA) (D) (NA) (D) Washington 11.0 7.8 8.4 10.2 7.7 Wyoming 22.0 31.0 23.0 20.5 29.5 Other States † (NA) 4.1 3.1 (NA) 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	California	(NA)	-	-	(NA)	-	-
Idaho		` ,	48.0	27.0	` '	45.5	20.5
Michigan (²) (D) (D) (²) (D) Minnesota 21.7 15.9 9.0 19.3 15.1 Montana 4.0 6.0 3.0 3.5 6.0 Nebraska 84.0 93.6 65.0 76.0 79.8 North Dakota 424.0 486.0 320.0 383.0 457.0 3 Texas (NA) (D) (D) (NA) (D) Washington 11.0 7.8 8.4 10.2 7.7 Wyoming 22.0 31.0 23.0 20.5 29.5							21.7
Minnesota 21.7 15.9 9.0 19.3 15.1				-			(D)
Montana	· ·					` '	8.6
Nebraska 84.0 436.6 65.0 76.0 79.8 North Dakota 424.0 468.0 320.0 383.0 457.0 3 3 3 3 457.0 3 3 3 457.0 3 3 3 457.0 3 3 3 457.0 3 3 3 3 457.0 3 3 3 3 457.0 3 3 3 3 3 457.0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3							2.6
North Dakota							59.5
Texas (NA) (D) (D) (NA) (D) (D) (NA) (D) Washington 11.0 7.8 8.4 4 10.2 7.7 Wyoming 22.0 31.0 23.0 20.5 29.5 29.5 29.5 29.5 29.5 29.5 29.5 29							313.0
Washington 11.0 7.8 8.4 10.2 7.7 Wyoming 22.0 31.0 23.0 20.5 29.5 Other States 1 (NA) 4.1 3.1 (NA) 4.0 United States 621.7 706.4 480.5 564.5 676.1 4 Light red kidney California 0.3 (D) (D) 0.3 (D) California 0.3 (D) 6.1 (2) 3.5 (D) Idaho 0.9 1.4 1.0 0.9 1.4 (D) 0.9 1.4 (D) 0.9 1.4 (D) 0.9 1.4 (D) 0.9 1.4 0.0 0.9 1.4 0.0 0.9 1.4 0.0 0.9 1.4 0.0 0.9 1.4 0.0 0.9 1.4 0.0 0.9 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0<							(D)
Wyoming 22.0 31.0 23.0 20.5 29.5 Other States ¹ (NA) 4.1 3.1 (NA) 4.0 United States 621.7 706.4 480.5 564.5 676.1 4 Light red kidney California 0.3 (D) (D) 0.0 0.3 (D) Colorado (²) 4.0 5.1 (²) 3.5 Iddaho 0.9 1.4 1.0 0.9 1.4 Michigan 8.6 6.2 6.1 8.5 6.0 Minnesota 8.3 15.8 14.5 8.2 15.3 Montana (NA) - - (NA) - - (NA) - - NA) - - - NA) -		` ,		` '	` '	` '	8.3
Other States ¹ (NA) 4.1 3.1 (NA) 4.0 United States 621.7 706.4 480.5 564.5 676.1 4 Light red kidney California 0.3 (D) (D) 0.3 (D) Colorado (²) 4.0 5.1 (²) 3.5 Idaho Idaho 0.9 1.4 1.0 0.9 1.4 Michigan 8.6 6.2 6.1 8.5 6.0 Minesota 8.3 15.8 14.5 8.2 15.3 Montana (NA) - - (NA) - Nebraska 4.3 10.5 10.1 2.2 8.8 North Dakota (NA) (D) (D) (NA) (D) Texas (NA) - - (NA) - Texas (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1	ŭ						21.0
United States 621.7 706.4 480.5 564.5 676.1 4 Light red kidney California 0.3 (D) (D) 0.3 (D) Colorado (2) 4.0 5.1 (2) 3.5 Idaho 0.9 1.4 1.0 0.9 1.4 Michigan 8.6 6.2 6.1 8.5 6.0 Minnesota 8.3 15.8 14.5 8.2 15.3 Montana (NA) (NA) - Nebraska 4.3 10.5 10.1 2.2 8.8 North Dakota (NA) (D) (D) (NA) (D) Texas (NA) (NA) - Washington (2) 1.3 (D) (2) 1.3 Wyoming (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney California 1.5 (D) (D) 1.2 (D) Colorado (NA) 0.7 2.0 3.0 0.7 1.9 Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) (NA) - (N							
California 0.3 0.5	Other States ¹	(NA)	4.1	3.1	(NA)	4.0	3.1
California 0.3 (D) (D) 0.3 (D) Colorado (2) 4.0 5.1 (2) 3.5 Idaho 0.9 1.4 1.0 0.9 1.4 Michigan 8.6 6.2 6.1 8.5 6.0 Minnesota 8.3 15.8 14.5 8.2 15.3 Montana (NA) - - (NA) - Nebraska 4.3 10.5 10.1 2.2 8.8 North Dakota (NA) (D) (D) (NA) (D) Texas (NA) - - (NA) - Texas (NA) - - (NA) - Vyoming (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney 1.5 (D) (D) (NA) - California 1.5 (D)	United States	621.7	706.4	480.5	564.5	676.1	458.3
Colorado (²) 4.0 5.1 (²) 3.5 Idaho 0.9 1.4 1.0 0.9 1.4 Michigan 8.6 6.2 6.1 8.5 6.0 Minnesota 8.3 15.8 14.5 8.2 15.3 Montana (NA) - - (NA) - Nebraska 4.3 10.5 10.1 2.2 8.8 North Dakota (NA) (D) (D) (NA) (D) Texas (NA) - - (NA) - Washington (²) 1.3 (D) (²) 1.3 Wyoming (NA) - - (NA) - Other States ¹ (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney 1.5 (D) (D) (NA) - California 1.5 (D) <td>Light red kidney</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Light red kidney						
Idaho	California	0.3	(D)	(D)	0.3	(D)	(D)
Michigan 8.6 6.2 6.1 8.5 6.0 Minnesota 8.3 15.8 14.5 8.2 15.3 Montana (NA) - - (NA) - Nebraska 4.3 10.5 10.1 2.2 8.8 North Dakota (NA) (D) (D) (NA) - Texas (NA) - - (NA) - Washington (°) 1.3 (D) (°) 1.3 Wyoming (NA) - - (NA) - Other States ¹ (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney 1.5 (D) (D) (NA) - California 1.5 (D) (D) (NA) - Colorado (NA) - (D) (NA) - Uidaho 0.7 2.0	Colorado	(2)	4.0	5.1	(2)	3.5	3.6
Minnesota 8.3 15.8 14.5 8.2 15.3 Montana (NA) - - (NA) - Nebraska 4.3 10.5 10.1 2.2 8.8 North Dakota (NA) (D) (D) (NA) (D) Vesals (NA) - - (NA) - Washington (P) (P) (P) (P) (P) (P) Washington (NA) - - - (NA) - <td< td=""><td>Idaho</td><td>0.9</td><td>1.4</td><td>1.0</td><td>0.9</td><td>1.4</td><td>1.0</td></td<>	Idaho	0.9	1.4	1.0	0.9	1.4	1.0
Montana (NA) - - (NA) - Nebraska 4.3 10.5 10.1 2.2 8.8 North Dakota (NA) (D) (D) (NA) (D) Texas (NA) - - (NA) - Washington (²) 1.3 (D) (²) 1.3 Wyoming (NA) - - (NA) - Other States¹ (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney - - (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney - - (D) (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney - - (D) (NA) - California 1.5 (D) </td <td>Michigan</td> <td>8.6</td> <td>6.2</td> <td>6.1</td> <td>8.5</td> <td>6.0</td> <td>6.1</td>	Michigan	8.6	6.2	6.1	8.5	6.0	6.1
Nebraska	Minnesota	8.3	15.8	14.5	8.2	15.3	13.9
North Dakota (NA) (D) (D) (NA) (D) Texas (NA) - - (NA) - Washington (P) 1.3 (D) (P) 1.3 Wyoming (NA) - - (NA) - Other States 1 (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney California 1.5 (D) (D) 1.2 (D) Colorado (NA) - (D) (NA) - - Idaho 0.7 2.0 3.0 0.7 1.9 - Michigan 2.9 (D) 2.7 2.8 (D) Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montan (NA) - - (NA) -	Montana	(NA)	-	-	(NA)	-	-
Texas (NA) - - (NA) - Washington (2) 1.3 (D) (2) 1.3 Wyoming (NA) - - (NA) - Other States 1 (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney 2.24 39.9 38.3 20.1 36.9 Dark red kidney 0.1 0.0 <td< td=""><td>Nebraska</td><td>`4.3</td><td>10.5</td><td>10.1</td><td>2.2</td><td>8.8</td><td>9.7</td></td<>	Nebraska	`4.3	10.5	10.1	2.2	8.8	9.7
Washington (2) 1.3 (D) (2) 1.3 Wyoming (NA) - - (NA) - Other States 1 (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney 2.0 39.9 38.3 20.1 36.9 Dark red kidney 2.0 0.0	North Dakota	(NA)	(D)	(D)	(NA)	(D)	(D)
Washington (2) 1.3 (D) (2) 1.3 Wyoming (NA) - - (NA) - Other States 1 (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney 22.4 39.9 38.3 20.1 36.9 Dark red kidney 22.4 39.9 38.3 20.1 36.9 Dark red kidney California 1.5 (D) (D) (NA) - Colorado (NA) - (D) (NA) - Idaho 0.7 2.0 3.0 0.7 1.9 Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 <t< td=""><td>Texas</td><td>(NA)</td><td>-</td><td>-</td><td>(NA)</td><td>-</td><td>-</td></t<>	Texas	(NA)	-	-	(NA)	-	-
Wyoming (NA) - - (NA) - Other States 1 (NA) 0.7 1.5 (NA) 0.6 United States 22.4 39.9 38.3 20.1 36.9 Dark red kidney California California (D) 1.2 (D) Colorado (NA) - (D) (NA) - Idaho 0.7 2.0 3.0 0.7 1.9 Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyomin	Washington	`(²)	1.3	(D)		1.3	(D)
Dark red kidney 22.4 39.9 38.3 20.1 36.9 Dark red kidney California 1.5 (D) (D) 1.2 (D) Colorado (NA) - (D) (NA) - (D)		(NA)	-	-	(NA)	-	` -
Dark red kidney California 1.5 (D) (D) 1.2 (D) Colorado (NA) - (D) (NA) - Idaho 0.7 2.0 3.0 0.7 1.9 Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) - -	Other States ¹	(NA)	0.7	1.5	(NA)	0.6	1.5
California 1.5 (D) (D) 1.2 (D) Colorado (NA) - (D) (NA) - Idaho 0.7 2.0 3.0 0.7 1.9 Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -	United States	22.4	39.9	38.3	20.1	36.9	35.8
Colorado (NA) - (D) (NA) - Idaho 0.7 2.0 3.0 0.7 1.9 Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -	Dark red kidney						
Idaho 0.7 2.0 3.0 0.7 1.9 Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -	California	1.5	(D)	(D)	1.2	(D)	(D)
Idaho 0.7 2.0 3.0 0.7 1.9 Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -	Colorado	(NA)	-		(NA)	-	(D)
Michigan 2.9 (D) 2.7 2.8 (D) Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -			2.0			1.9	2.9
Minnesota 43.1 44.2 54.7 42.0 42.1 Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -		2.9	(D)	2.7	2.8	(D)	2.7
Montana (NA) - - (NA) - Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -	· ·	43.1	(,			` '	52.5
Nebraska (NA) (D) (D) (NA) (D) North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -			-	-		-	-
North Dakota 3.3 1.7 1.5 3.2 1.6 Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -	Nebraska	` ,	(D)	(D)	` ,	(D)	(D)
Texas (NA) - - (NA) - Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -			` '		` '	` '	1.4
Washington 1.5 1.8 1.9 1.5 1.8 Wyoming (NA) - (D) (NA) -			-	-		-	-
Wyoming (NA) - (D) (NA) -		` '	1.8	1.9	` '	1.8	1.9
	· ·		-			-	(D)
Other States ¹	Other States ¹	(NA)	3.2	2.0	(NA)	3.0	1.3
United States	United States	53.0	52.9	65.8	51.4	50.4	62.7

See footnote(s) at end of table.

Class and State		Yield per acre ³			Production ³	
Class and State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Pinto						
California	(NA)	-	-	(NA)	-	-
Colorado	1,700	1,900	1,990	`604	865	408
Idaho	2,400	2,610	2,630	396	822	571
Michigan	(2)	(D)	(D)	(2)	(D)	(D)
Minnesota	1,640	1,910	1,980	317	288	170
Montana	2,300	2,500	2,400	81	150	62
Nebraska	2,220	2,650	2,500	1,687	2,115	1,488
	,	,		,	8,409	,
North Dakota	1,500	1,840	1,710	5,745	·	5,352
Texas	(NA)	(D)	(D)	(NA)	(D)	(D)
Washington	3,200	2,500	2,500	326	193	208
Wyoming	2,350	2,430	2,290	482	717	481
Other States ¹	(NA)	1,450	1,677	(NA)	58	52
United States	1,707	2,014	1,918	9,638	13,617	8,792
Light red kidney						
California	3,330	(D)	(D)	10	(D)	(D)
Colorado	(2)	2,800	2,720	(2)	98	98
Idaho	2,400	1,930	2,570	`22	27	26
Michigan	1,760	1,490	1,620	150	89	99
Minnesota	2,800	3,040	2,660	230	465	370
Montana	(NA)		2,000	(NA)	-	-
Nebraska	2,280	2,000	2,760	50	176	268
North Dakota	(NA)	2,000 (D)	2,700 (D)	(NA)		(D)
	` ,	(D)	(D)	` ,	(D)	(D)
Texas	(NA)	2.540	(D)	(NA)	33	(D)
Washington	(2)	2,540	(D)	(2)	33	(D)
Wyoming	(NA)	-	-	(NA)	-	-
Other States ¹	(NA)	1,833	2,667	(NA)	11	40
United States	2,299	2,436	2,517	462	899	901
Dark red kidney						
California	1,080	(D)	(D)	13	(D)	(D)
Colorado	(NA)	-	(D)	(NA)	-	(D)
Idaho	2,400	2,440	2,390	` 17	46	`69
Michigan	1,070	(D)	1,420	30	(D)	38
Minnesota	2,360	2,240	2,530	991	943	1,328
Montana	(NA)	_,0	_,556	(NA)	-	-,525
Nebraska	(NA)	(D)	(D)	(NA)	(D)	(D)
North Dakota	1,150	1,430	1,690	37	23	24
Texas	(NA)	1,730	1,030	(NA)	25	-
Washington	2,500	2,520	1,730	38	45	33
Wyoming	(NA)	2,320	(D)	(NA)	45 -	(D)
Other States ¹	(NA)	1,400	2,846	(NA)	42	37
United States	2,191	2,181	2,439	1,126	1,099	1,529
See footnote(s) at end of table	2,101	2,101	2,400	1,120	1,000	continue

See footnote(s) at end of table.

Class and State	,	Area planted		,	Area harvested	
Class and State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)				
Pink						
California	(NA)	(D)	(D)	(NA)	(D)	(D)
Colorado	(NA)	-	-	(NA)	-	-
Idaho	8.0	7.5	7.5	7.7	7.3	7.3
Michigan	(NA)	-	(D)	(NA)	-	(D)
Minnesota	(2)	(D)	(D)	(2)	(D)	(D)
Montana	(NA)	-	=	(NA)	-	-
Nebraska	(NA)	-	=	(NA)	-	-
North Dakota	8.1	2.7	6.9	7.3	2.6	6.4
Texas	(NA)	-	=	(NA)	-	-
Washington	(2)	1.1	=	(2)	1.1	-
Wyoming	(NA)	(D)	=	(NA)	(D)	-
Other States ¹	(NA)	3.6	5.5	(NA)	3.5	5.3
United States	16.1	14.9	19.9	15.0	14.5	19.0
Small red						
California	(NA)	=	=	(NA)	-	-
Colorado	(NA)	1.5	0.9	(NA)	1.4	0.4
Idaho	7.5	5.5	3.3	7.2	5.3	3.2
Michigan	19.1	5.5	13.3	19.0	5.3	13.1
Minnesota	(NA)	(D)	(D)	(NA)	(D)	(D)
Montana	(NA)	-	-	(NA)	-	-
Nebraska	(NA)	(D)	(D)	(NA)	(D)	(D)
North Dakota	3.2	4.4	9.0	3.1	4.2	8.5
Texas	(NA)	-	=	(NA)	-	-
Washington	4.0	2.0	3.8	3.7	2.0	3.8
Wyoming	(NA)	(D)	(D)	(NA)	(D)	(D)
Other States ¹	(NA)	1.9	2.7	(NA)	1.9	2.6
United States	33.8	20.8	33.0	33.0	20.1	31.6
Cranberry						
California	0.3	0.4	0.6	0.3	0.4	0.6
Colorado	(NA)	-	-	(NA)	-	-
Idaho	(NA)	1.0	1.2	(NA)	1.0	1.1
Michigan	2.6	3.8	3.9	2.6	3.7	3.9
Minnesota	(NA)	(D)	(D)	(NA)	(D)	(D)
Montana	(NA)	-	(D)	(NA)	-	(D)
Nebraska	(NA)	(D)	(D)	(NA)	(D)	(D)
North Dakota	(NA)	3.2	2.8	(NA)	3.1	2.7
Texas	(NA)	-	-	(NA)		-
Washington	0.7	1.1	(D)	0.7	1.1	(D)
Wyoming	(NA)	-	-	(NA)	-	-
Other States ¹	(NA)	2.1	5.9	(NA)	2.0	5.7
United States	3.6	11.6	14.4	3.6	11.3	14.0
See footnote(s) at end of table	<u> </u>	·	<u> </u>			continued

See footnote(s) at end of table.

Class and State		Yield per acre ³		Production ³		
Class and State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Pink						
California	(NA)	(D)	(D)	(NA)	(D)	(D)
Colorado	(NA)	` -	· -	(NA)	-	
Idaho	2,70Ó	2,690	2,490	`208	196	182
Michigan	(NA)	-	(D)	(NA)	-	(D)
Minnesota	`(²)	(D)	(D)	`(²)	(D)	(D)
Montana	(NA)	-	-	(NA)	-	-
Nebraska	(NA)	-	_	(NA)	_	_
North Dakota	1,350	1,610	1,790	99	42	115
Texas	(NA)	1,010	- 1,700	(NA)		-
Washington	(10 t) (2)	2,410	_	(10 t) (2)	27	_
Wyoming	(NA)	(D)	_	(NA)	(D)	_
vvyoming	(NA)	(D)	-	(IVA)	(D)	-
Other States ¹	(NA)	1,914	1,868	(NA)	67	99
United States	2,047	2,290	2,084	307	332	396
Small red						
California	(NA)	-	-	(NA)	=	-
Colorado	(NA)	2,500	1,680	(NA)	35	7
Idaho	2,400	2,480	2,320	173	131	74
Michigan	1,830	1,700	2,500	348	90	328
Minnesota	(NA)	(D)	(D)	(NA)	(D)	(D)
Montana	(NA)	(5)	(D)	(NA)	(5)	(D)
Nebraska	(NA)	(D)	(D)	(NA)	(D)	(D)
North Dakota	1,300	2,160	2,000	(NA) 40	91	(D) 170
	· ·	2,100	2,000	_	91	170
Texas	(NA)	2 400	2.250	(NA)		-
Washington	2,600	2,490	2,250	96	50	86
Wyoming	(NA)	(D)	(D)	(NA)	(D)	(D)
Other States ¹	(NA)	2,158	1,615	(NA)	41	42
United States	1,991	2,179	2,237	657	438	707
Cranberry						
California	2,000	1,000	2,960	6	4	18
Colorado	(NA)	· _	· -	(NA)	-	-
Idaho	(NA)	1,760	2,250	(NA)	18	25
Michigan	1,580	1,580	1,560	41	58	61
Minnesota	(NA)	(D)	(D)	(NA)	(D)	(D)
Montana	(NA)	(5)	(D)	(NA)	(5)	(D)
Nebraska	(NA)	(D)	(D)	(NA)	(D)	(D)
North Dakota	(NA)	1,560	1,350	(NA)	48	36
Texas	(NA)	1,500	1,550	(NA)	-	30
Washington	2,600	2,230	(D)	18	25	(D)
Wyoming	(NA)		(D) -	(NA)	-	(D) -
Other States ¹	(NA)	1,600	1,860	(NA)	32	106
United States	1,806	1,637	1,757	65	185	246
See footnote(s) at end of table	1,000	1,037	1,737	00	100	continued

See footnote(s) at end of table.

Class and State	,	Area planted		,	Area harvested	
Class and State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)				
Black						
California	(NA)	0.2	(D)	(NA)	0.2	(D)
Colorado	(NA)	(D)	(D)	(NA)	(D)	(D)
Idaho	3.5	4.1	3.5	3.3	4.0	3.4
Michigan	104.0	121.0	100.0	103.0	120.4	99.0
Minnesota	29.6	40.5	41.0	28.6	39.1	39.4
Montana	(NA)	-	=	(NA)	-	-
Nebraska	6.1	(D)	3.5	5.8	(D)	3.4
North Dakota	83.0	89.0	93.0	76.0	85.0	90.0
Texas	(NA)	-	=	(NA)	-	-
Washington	4.0	2.9	3.9	3.8	2.8	3.8
Wyoming	(NA)	(D)	(D)	(NA)	(D)	(D)
Other States ¹	(NA)	9.5	3.1	(NA)	8.4	2.9
United States	230.2	267.2	248.0	220.5	259.9	241.9
Blackeye						
California	12.5	8.6	6.7	12.3	8.5	6.7
Colorado	(NA)	(D)	(D)	(NA)	(D)	(D)
Idaho	(NA)	(D)	(D)	(NA)	(D)	(D)
Michigan	(NA)	-	=	(NA)	-	-
Minnesota	(NA)	-	-	(NA)	-	-
Montana	(NA)	-	-	(NA)	-	-
Nebraska	(NA)	(D)	(D)	(NA)	(D)	(D)
North Dakota	(NA)	(D)	(D)	(NA)	(D)	(D)
Texas	27.0	18.0	16.0	23.0	17.0	14.0
Washington	(NA)	(D)	(D)	(NA)	(D)	(D)
Wyoming	(NA)	-	-	(NA)	-	-
Other States ¹	(NA)	3.7	10.0	(NA)	3.3	8.7
United States	39.5	30.3	32.7	35.3	28.8	29.4
Small chickpeas ⁴						
California	-	-	-	-	-	-
Colorado	-	-	=	-	-	-
Idaho	39.0	46.0	62.0	38.8	45.8	61.7
Michigan	-	-	=	-	-	-
Minnesota	-	-	=	-	-	-
Montana	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	3.8	13.2	18.4	3.7	13.0	17.8
Texas	-	-	-	-	-	-
Washington Wyoming	29.0	52.0	70.0	28.9	51.8	69.8
vvyoniing	-	-	-	-	_	-
Other States ⁵	42.0	68.3	72.3	39.4	65.2	70.3
United States	113.8	179.5	222.7	110.8	175.8	219.6
See footnote(s) at end of table						continued

See footnote(s) at end of table.

Black	Close and State		Yield per acre ³			Production ³	
Black California Californ	Class and State	2016	2017	2018	2016	2017	2018
California (NA) 2,500 (D) (NA) 5 (D) Colorado (NA) (D) (D)		(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Colorado	Black						
Colorado	California	(NA)	2,500	(D)	(NA)	5	(D)
Idaho		(NA)	(D)	(D)	(NA)	(D)	(D)
Minnesota 2,470 2,110 2,320 706 825 914 Montana (NA) -	Idaho	2,700	2,700	2,540	` 89	108	`86
Minnesota 2,470 2,110 2,320 706 825 914 Minnesota (NA) - (NA)					2.029	2.456	2.416
Montana (NA) - (NA) - (NA) - - (NA) - - NAD - - (NA) - - - NAD - </td <td></td> <td>,</td> <td>,</td> <td></td> <td></td> <td></td> <td>,</td>		,	,				,
Nebraska		-	_,	_,		-	-
North Dakota		\ /	(D)	2.860		(D)	97
Texas (NA) Washington 2,500 (NA) 100 (NA) <		,		,	_	` '	
Washington 2,500 2,950 2,900 95 83 110 Wyoming (NA) (D) (D) (NA) (D) (D) Other States (NA) 2,357 2,690 (NA) 198 78 United States 1,977 1,970 2,148 4,360 5,120 5,195 Blackeye States California 2,590 2,120 2,460 319 180 165 Colorado (NA) (D) (D) (NA) (D) (D) (NA) (D) (D) (MA) (D) (D) (MA) (D) (D) (MA) (D) (D) (NA) (D) (D) (NA) (D) (D) (MA) (D) (D) (MA) - - (NA) - - (NA) - - (NA) - - (NA) - - - - - - - - - - - - <td></td> <td>-</td> <td>1,700</td> <td>1,000</td> <td>•</td> <td>1,445</td> <td>1,434</td>		-	1,700	1,000	•	1,445	1,434
Wyoming (NA) (D) (D) (NA) (D) (2 050	2 900	` ,	83	110
Other States (NA) 2,357 2,690 (NA) 198 78 United States 1,977 1,970 2,148 4,360 5,120 5,195 Blackeye 2 2 2 2,460 319 180 165 Colorado (NA) (D) (D) (D) (NA) (D) (D) Michigan (NA) (D) (D) (NA) - - (NA) - - - (NA) -	•	-	,				_
Dilited States	vvyorning	(IVA)	(D)	(D)	(INA)	(D)	(D)
Blackeye California 2,590 2,120 2,460 319 180 165 Colorado (NA) (D) (D) (NA) (D) (D) (NA) (D) (D	Other States	(NA)	2,357	2,690	(NA)	198	78
Californía 2,590 2,120 2,460 319 180 165 Colorado (NA) (D) (D) (NA) (D)	United States	1,977	1,970	2,148	4,360	5,120	5,195
Colorado (NA) (D) (D) (NA) (D)	Blackeye						
Colorado (NA) (D) (D) (NA) (D) (D) (NA) (D) (D) <th< td=""><td>California</td><td>2.590</td><td>2.120</td><td>2.460</td><td>319</td><td>180</td><td>165</td></th<>	California	2.590	2.120	2.460	319	180	165
Idaho		,	·	·			
Michigan (NA) - - (NA) -		` '	` '	` '	` ,	` '	
Minnesota (NA) - - (NA) -		` '	(D)	(D)	` ,	(D)	(D)
Montana (NA) - - (NA) - <	•	\ /	_	_	` ,	_	_
Nebraska		` '	_	_	` ,	_	
North Dakota (NA) (D) (D) (NA) (D) (D) Texas 1,100 1,100 1,100 253 187 154 Washington (NA) (D) (D) (NA) (D) (D)<		` '	(D)	(D)	` ,	(D)	(D)
Texas 1,100 1,100 1,100 253 187 154 Washington (NA) (D) (D) (NA) (D)		\ /	()	()	` ,	\ ,	(/
Washington (NA) (NA) (D) (D) (NA) (NA) (D) (D) (NA) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D)		` '	\ /	` '	` ,	` '	` ,
Wyoming (NA) - - (NA) - <		,	,	,			_
Other States (NA) 2,121 2,322 (NA) 70 202 United States 1,620 1,517 1,772 572 437 521 Small chickpeas ⁴ California -		` '	(D)	(D)	` ,	(D)	(D)
United States 1,620 1,517 1,772 572 437 521 Small chickpeas 4 California - - - - - - - Colorado - - - - - - - Idaho 1,700 1,240 1,550 660 568 956 Michigan - - - - - - Minnesota - - - - - - Montana (D) (wyoming	(NA)	-	-	(NA)	-	-
Small chickpeas 4 California - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	Other States	(NA)	2,121	2,322	(NA)	70	202
California -	United States	1,620	1,517	1,772	572	437	521
Colorado -<	Small chickpeas ⁴						
Idaho 1,700 1,240 1,550 660 568 956 Michigan - <td< td=""><td>-</td><td>-</td><td>- </td><td>- </td><td>-</td><td>-</td><td>-</td></td<>	-	-	-	-	-	-	-
Idaho 1,700 1,240 1,550 660 568 956 Michigan - <td< td=""><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></td<>		-	-	-	-	-	-
Michigan -<	Idaho	1.700	1.240	1.550	660	568	956
Minnesota -		,	- 1	-	-	-	-
Montana (D)	•	_]	_	_	_	_	_
Nebraska (D) (D		(D)	(D)	(D)	(D)	(D)	(D)
North Dakota 1,800 1,200 1,850 67 156 329 Texas -			` '	` '	` ,	` '	` ,
Texas - <td></td> <td></td> <td>()</td> <td>\ /</td> <td>\ ,</td> <td>\ ,</td> <td>\ /</td>			()	\ /	\ ,	\ ,	\ /
Washington 2,000 1,330 1,730 578 689 1,208 Wyoming - - - - - - - Other States 5 1,607 853 1,105 633 556 777 United States 1,749 1,120 1,489 1,938 1,969 3,270	_	1,000	1,200	1,000	-	130	529
Wyoming - </td <td></td> <td>2 000</td> <td>1 330</td> <td>1 720</td> <td>57º</td> <td>680</td> <td>1 200</td>		2 000	1 330	1 720	57º	680	1 200
Other States 5 1,607 853 1,105 633 556 777 United States 1,749 1,120 1,489 1,938 1,969 3,270	Wyoming	2,000 -	1,330	1,730	576	- 009	1,200
United States	, ,	1 607	853	1 105	633	556	777
		,		•			
	United States	1,749	1,120	1,489	1,938	1,969	3,270

See footnote(s) at end of table.

Class and State		Area planted			Area harvested	
Class and State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)				
₋arge chickpeas ⁶						
California	10.2	15.4	15.1	10.0	15.3	15.0
Colorado	-	(D)	(D)	-	(D)	(D
daho	53.0	7Ì.Ó	72.Ó	52.1	7Ò.Ś	7Ì.
Michigan	-	-	-	-	-	
/linnesota	-	(D)	(D)	-	(D)	(D
Montana	(D)	(D)	(D)	(D)	(D)	(C
Nebraska	(D)	(D)	(D)	(D)	(D)	(D
North Dakota	9.4	30.6	96.0	9.3	28.7	90.
Texas	-	-	-	-	-	
Washington	79.0	120.0	120.0	78.5	119.5	119.
Nyoming	-	(D)	(D)	-	(D)	(0
Other States 5	59.9	209.0	333.8	59.3	201.2	327.
Jnited States	211.5	446.0	636.9	209.2	435.2	623.
All chickpeas (Garbanzo)						
California	10.2	15.4	15.1	10.0	15.3	15.
Colorado	-	(D)	(D)	-	(D)	([
daho	92.0	117.0	134.0	90.9	116.3	133.
/lichigan	-	- -	- -	-	-	
/linnesota	-	(D)	(D)	-	(D)	([
Montana	99.0	269.Ó	390.Ó	96.0	259.Ó	382.
Nebraska	2.9	(D)	12.5	2.7	(D)	12.
North Dakota	13.2	43.8	114.4	13.0	41.7	107.
Texas	-	-	=	-	=	
Vashington	108.0	172.0	190.0	107.4	171.3	189.
Vyoming	-	(D)	(D)	-	(D)	([
Other States 5	-	8.3	3.6	-	7.4	3
Inited States	325.3	625.5	859.6	320.0	611.0	842.

See footnote(s) at end of table.

Class and State		Yield per acre 3			Production ³	
Class and State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
_arge chickpeas ⁶						
California	2,120	2,130	2,770	212	326	416
Colorado	-	(D)	(D)	-	(D)	(D)
daho	1,600	1,040	1,280	834	733	915
/lichigan	-	-	=	-	-	
/linnesota	-	(D)	(D)	-	(D)	(D
Montana	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D
North Dakota	2,000	1,310	1,720	186	376	1,548
Texas	-	-	=	-	-	-
Vashington	1,700	1,350	1,650	1,335	1,613	1,972
Vyoming	-	(D)	(D)	-	(D)	(D
Other States 5	1,589	1,014	1,412	942	2,040	4,621
United States	1,677	1,169	1,520	3,509	5,088	9,472
All chickpeas (Garbanzo)						
California	2,120	2,130	2,770	212	326	416
Colorado	, <u>-</u>	(D)	(D)	-	(D)	(D
daho	1,640	1,120	1,400	1,494	1,301	1,87
/lichigan	´ -	· -	-	· -	, -	,
Minnesota	-	(D)	(D)	-	(D)	(D
Montana	1,600	9êÓ	1,350	1,532	2,493	5,138
lebraska	1,590	(D)	1,940	43	(D)	233
lorth Dakota	1,950	1,280	1,740	253	532 [°]	1,87
exas	-	-		-	-	•
Vashington	1,780	1,340	1,680	1,913	2,302	3,180
Vyoming	-	(D)	(D)	-	(D)	(D
Other States 5	-	1,392	771	-	103	2
Jnited States	1,702	1,155	1,512	5,447	7,057	12,742

See footnote(s) at end of table.

Class and State		Area planted			Area harvested	_
Class and State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)				
Other						
California	3.6	4.3	3.8	3.4	4.3	3.8
Colorado	8.0	2.1	2.8	7.0	2.0	2.5
Idaho	7.9	3.5	(D)	7.6	3.4	(D)
Michigan	5.8	3.7	5.2	5.8	3.7	5.2
Minnesota	12.8	3.9	(D)	11.4	3.8	(D)
Montana	-	=	(D)	=	-	(D)
Nebraska	2.7	0.3	(D)	2.6	0.3	(D)
North Dakota	3.8	4.6	(D)	3.1	4.4	(D)
Texas	2.0	2.0	(D)	1.0	1.0	(D)
Washington	5.8	2.0	1.9	5.7	1.9	1.8
Wyoming	11.0	3.5	(D)	10.6	3.2	(D)
Other States	(NA)	-	12.5	(NA)	-	11.8
United States	63.4	29.9	26.2	58.2	28.0	25.1
All dry edible beans						
United States	1,664.0	2,097.0	2,081.0	1,558.1	2,022.7	2,016.0

See footnote(s) at end of table.

Class and State		Yield per acre ³		Production ³			
Class and State	2016	2017	2018	2016	2017	2018	
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	
Other							
California	2,120	2,000	2,170	72	86	82	
Colorado	1,970	2,900	2,800	138	58	70	
Idaho	2,220	2,530	(D)	169	86	(D)	
Michigan	1,690	1,430	1,600	98	53	83	
Minnesota	1,710	2,000	(D)	195	76	(D)	
Montana	-	-	(D)	-	-	(D)	
Nebraska	2,650	1,670	(D)	69	5	(D)	
North Dakota	1,650	1,840	(D)	51	81	(D)	
Texas	1,100	1,100	(D)	11	11	(D)	
Washington	2,540	2,320	2,620	145	44	47	
Wyoming	2,370	2,590	(D)	251	83	(D)	
Other States	(NA)	-	2,102	(NA)	-	248	
United States	2,060	2,082	2,112	1,199	583	530	
All dry edible beans							
United States	1,842	1,778	1,860	28,703	35,961	37,494	

⁻ Represents zero.

(NA) Not available.

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

¹ In 2016, data are included in "Other" class to avoid disclosure of individual operations. In 2016 and 2017, includes data withheld above.

² Data are included in "Other" class to avoid disclosing data for individual operations.

³ Clean basis

⁴ Chickpeas (or Garbanzo beans) smaller than 20/64 inches.

⁵ Includes data withheld above.

⁶ Chickpeas (or Garbanzo beans) larger than 20/64 inches.

Lentil Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

State		Area planted			Area harvested	
Sidle	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho Montana North Dakota Washington		36.0 730.0 270.0 68.0	35.0 500.0 185.0 60.0	37.0 505.0 294.0 69.0	35.0 670.0 250.0 67.0	34.0 450.0 175.0 59.0
United States	933.0	1,104.0	780.0	905.0	1,022.0	718.0
State		Yield per acre			Production	
State	2016	2017	2018	2016	2017	2018
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	1,550 1,460 1,320 1,400	900 650 870 950	1,300 1,080 1,370 1,200	574 7,373 3,881 966	315 4,355 2,175 637	442 4,860 2,398 708
United States	1,414	732	1,171	12,794	7,482	8,408

Wrinkled Seed Pea Production - States and United States: 2016-2018

State		Production	
State	2016	2017	2018
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho Washington	157 282	108 249	116 273
United States	439	357	389

Dry Edible Pea Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

[Excludes both wrinkled seed peas and Austrian winter peas]

Ctoto		Area planted		Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Idaho Montana	30.0 610.0	14.0 525.0	8.0 335.0	29.0 580.0	14.0 470.0	7.6 310.0	
Nebraska North Dakota	55.0 560.0 6.0	58.0 425.0 7.0	58.0 375.0 6.5	52.0 545.0 5.8	56.0 410.0 6.5	49.0 365.0 6.3	
Oregon South Dakota Washington	32.0 90.0	38.0 61.0	22.0 52.0	30.0 89.0	35.0 60.0	19.0 51.0	
United States	1,383.0	1,128.0	856.5	1,330.8	1,051.5	807.9	
State		Yield per acre			Production		
State	2016	2017	2018	2016	2017	2018	
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	
Idaho	2,500 1,950 1,340 2,250 2,600 1,600 2,400	1,800 820 1,420 1,800 2,900 1,500 2,000	2,300 1,620 1,840 2,200 2,000 2,100 2,500	725 11,310 697 12,263 151 480 2,136	252 3,854 795 7,380 189 525 1,200	175 5,022 902 8,030 126 399 1,275	
United States	2,086	1,350	1,972	27,762	14,195	15,929	

Austrian Winter Pea Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

Ctoto		Area planted		Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Idaho Montana Oregon	17.0 15.0 5.0	3.0 20.0 2.5	1.4 12.0 3.0	16.0 7.0 4.0	2.0 4.0 2.0	0.8 8.0 2.1	
United States	37.0	25.5	16.4	27.0	8.0	10.9	
Ctoto		Yield per acre			Production		
State	2016	2017	2018	2016	2017	2018	
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	
Idaho Montana Oregon	1,800 1,300 2,000	1,300 710 2,300	1,300 950 1,800	288 91 80	26 28 46	10 76 38	
United States	1,700	1,250	1,138	459	100	124	

Hop Area Harvested, Yield, and Production by Variety – States and United States: 2016-2018

Chata and describe		Area harvested				
State and variety	2016	2017	2018	2016	Yield per acre 2017	2018
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)
Idaho						
Amarillo ^R , VGXP01	(D)	983	825	(D)	1,569	2,009
Apollo TM	235	228	232	1,893	1,798	1,951
Bravo TM	151	149	87	2,359	2,799	2,226
Calypso ™	81	81	81	1,937	2,159	2,138
Cascade	788	882	836	1,585	1,771	1,716
Centennial	(D)	255	(D)	(D)	2,028	(D)
Chinook	418	699	962	1,712	1,665	1,873
Citra R, HBC 394	576	759	855	1,213	1,657	1,438
Cluster	(D)	(D)	63	1,213 (D)	(D)	2,126
	(-)	(-)		(-)	(-)	_,
Comet	(D)	(D)	(D)	(D)	(D)	(D)
Crystal	123	182	150	1,678	2,084	1,927
El Dorado R	227	219	120	1,658	2,163	1,463
Eureka TM	(D)	(D)	133	(D)	(D)	2,299
Galena	(D)	(D)	109	(D)	(D)	1,715
Mosaic R, HBC 369	496	50Ó	506	2,204	2,581	2,333
Simcoe R, YCR 14	232	394	449	1,335	1,494	1.245
Super Galena ™	69	(D)	84	1,872	(D)	2,493
Willamette	(D)	128	(D)	(D)	1,689	(D)
Zeus	580	1,061	1,496	2,761	2,756	2,764
Experimental	9	1,061	1,496 (D)	1,000	2,756 611	2,764 (D)
Experimental	3	20	(D)	1,000	011	(D)
Other varieties ¹	1,663	579	1,152	1,174	1,959	1,845
Total	5,648	7,125	8,140	1,646	1,974	1,995
Oregon						
Cascade	1,211	1,247	1,064	1,597	1,425	1,623
Centennial	723	789	698	1,235	1,273	1,277
Chinook	107	124	129	1,675	1,667	1,674
Citra R, HBC 394	654	766	690	1,047	1,475	1,600
Crystal	423	407	354	2,216	1,772	1,819
Fuggle	141	86	59	1,021	1,251	1,034
Golding	(D)	215	121	(D)	1,181	1,160
Magnum	151	47	105	1,493	1,714	1,284
Mosiac ^R , HBC 369	(D)	337	(D)	(D)	1,875	(D)
Mt Llood	20.4	040	044	4 400	4 400	4 444
Mt. Hood	324	318	311	1,463	1,439	1,411
Nugget	1,460	1,467	1,307	1,925	1,820	1,946
Perle	(D)	76	77	(D)	1,164	1,093
Simcoe ^R , YCR 14	330	461	436	1,969	1,421	1,588
Sterling	228	227	191	1,626	1,407	1,760
Super Galena ™	(D)	67	84	(D)	2,096	2,216
Tettnanger	122	72	72	1,193	1,013	1,027
Willamette	833	892	913	1,573	1,324	1,489
Experimental	(D)	(D)	(D)	(D)	(D)	(D)
Other varieties ¹	1,058	618	1,114	1,546	1,573	2,068
Total	7,765	8,216	7,725	1,596	1,518	1,675
	1,100	0,210	1,120	1,550	1,510	1,073

See footnote(s) at end of table.

100

Hop Area Harvested, Yield, and Production by Variety – States and United States: 2016-2018 (continued)

		Production	
State and variety	2016	2017	2018
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Idaho			
Amarillo ^R , VGXP01	(D)	1,542.3	1,657.4
Apollo [™] Bravo [™]	444.9	409.9	452.6
Bravo TM	356.2	417.1	193.7
Calypso ™	156.9	174.9	173.2
Cascade	1,248.9	1,562.0	1,434.6
Centennial	(D)	517.1	(D)
Chinook	71Š.Ś	1,163.8	1,801.8
Citra R, HBC 394	698.5	1,257.7	1,229.5
Cluster	(D)	(D)	133.9
Comet	(D)	(D)	(D)
Crystal	206.4	379.3	289.1
El Dorado R	376.3	473.7	175.6
Eureka TM	(D)	(D)	305.8
Galena	(D)	(D)	186.9
Mosaic ^R , HBC 369	1,093.4	1,290.5	1,180.5
Simcoe R. YCR 14	309.8	588.6	559.0
Super Galena TM	129.2	(D)	209.4
Willamette	(D)	216.2	(D)
Zeus	1,601.1	2,924.1	4,134.9
Experimental	9.0	15.9	(D)
Other varieties ¹	1,951.6	1,134.2	2,124.9
Total	9,297.7	14,067.3	16,242.8
Oregon			
Cascade	1,934.5	1,777.0	1,726.9
Centennial	893.2	1,004.4	891.3
Chinook	179.2	206.7	215.9
Citra R, HBC 394	684.7	1,129.9	1,104.0
Crystal	937.2	721.2	643.9
Fuggle	143.9	107.6	61.0
Golding	(D)	253.9	140.4
Magnum	225.5	80.6	134.8
Mosiac ^R , HBC 369	(D)	631.9	(D)
Mt. Hood	473.9	457.6	438.8
Nugget	2,810.9	2.669.9	2.543.4
Perle	2,810.9 (D)	88.5	84.2
Simcoe R, YCR 14	649.9	655.1	692.4
Sterling	370.8	319.4	336.2
Super Galena ™		140.4	186.1
	(D) 145.6	72.9	73.9
Tettnanger	1,310.0	1,181.0	1,359.5
Willamette Experimental	1,310.0 (D)	1,181.0 (D)	1,359.5 (D)
Other varieties ¹	1,636.0	972.4	2,303.5
Total	12,395.3	12,470.4	12,936.2
Total	12,383.3	12,470.4	12,930.2

See footnote(s) at end of table.

Hop Area Harvested, Yield, and Production by Variety – States and United States: 2016-2018 (continued)

Otata and carlets	,	Area harvested		Yield per acre		
State and variety	2016	2017	2018	2016	2017	2018
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)
Washington						
Ahtanum ™, YCR 1	155	371	255	1,012	1,052	2,730
Amarillo R, VGXP01	(D)	1,984	1,895	(D)	1,687	1,868
Apollo TM	735	684	795	2,225	2,729	2.848
Azacca ™, ADHA-483	506	578	546	1,870	2,463	2,491
Bravo TM	573	486	280	2,671	2,973	3,258
Cascade	5,582	4,966	4,274	1,727	2,124	1,972
Cashmere	(D)	(D)	195	(D)	(D)	1,519
Centennial	4.359	4,375	3.875	1.356	1,703	1,364
Chinook	1,415	1,632	1,734	1,420	1,784	1,875
_	,	•	,	,	,	•
Citra ^R , HBC 394	3,264	3,715	4,837	1,543	1,748	1,611
Cluster	623	621	610	1,700	1,937	1,813
C/T/Z ^R	1,416	1,659	2,034	1,969	2,646	2,482
Comet	163	205	218	949	1,855	1,750
Crystal	191	122	114	1,475	2,063	2,357
Ekuanot ™, HBC 366	(D)	890	865	(D)	2,740	2,583
El Dorado R	396	463	418	1,904	1,946	1,880
Eureka TM	(D)	362	409	(D)	2,244	2,954
Galena	262	378	390	1,692	2,134	2,149
Glacier	145	(D)	(D)	1,168	(D)	(D)
Jarrylo [™] , ADHA-881	131	(D)	(D)	1,408	(D)	(D)
Loral TM, HBC 291	(D)	186	172	(D)	2,295	2,349
Mosaic ^R , HBC 369	2.029			` '	2,293	2,349
*	2,029	1,877 87	1,932	2,327 1,075	,	,
Mt. Hood		_	104	· · · · · · · · · · · · · · · · · · ·	1,043	1,454
Mt. Rainier	(D)	(D)	306	(D)	(D)	1,899
Nugget	186	125	126	1,774	1,950	1,498
Pahto ™, HBC 682	(D)	(D)	1,721	(D)	(D)	2,087
Palisade R, YCR 4	580	571	515	2,228	2,209	2,441
Pekko™, ADHA-871	(D)	(D)	92	(D)	(D)	1,889
Simcoe ^R , YCR 14	3,769	3,753	3,103	1,673	1,792	1,642
Sorachi Ace	(D)	(D)	146	(D)	(D)	1,042
Summit ™	1.769	1,617	1,574	1,648	2.067	1.826
Super Galena ™	310	435	500	2,501	2,647	3,133
Tahoma	(D)	217	209	(D)	1,752	2,147
Tettnanger	(D)	38	(D)	(D)	1,202	(D)
Willamette	728	571	376	1,277	1,446	1.348
Zeus	2,502	2,214	2,592	2,469	3,088	2,619
Experimental	567	421	374	1,592	1,901	1,889
Other varieties ¹	5,000	3,045	1,584	1,662	1,746	1,896
Total	37,444	38,648	39,170	1,748	2,046	1,984
United States ²	50,857	53,989	55,035	1,713	1,956	1,943

See footnote(s) at end of table.

Hop Area Harvested, Yield, and Production by Variety – States and United States: 2016-2018 (continued)

	Production						
State and variety	2016	2017	2018				
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)				
Washington							
Ahtanum ™, YCR 1	156.9	390.3	696.2				
Amarillo ^R , VGXP01	(D)	3,347.0	3,539.9				
Apollo TM	1,635.6	1,866.6	2,264.2				
Azacca [™] , ADHA-483	946.4	1,423.6	1,360.1				
Bravo TM	1,530.5	1,444.9	912.2				
Cascade	9,638.8	10,547.8	8,428.3				
	9,038.8 (D)	,	296.2				
Cashmere		(D)					
Centennial	5,908.6	7,450.6	5,285.5				
Chinook	2,008.9	2,911.5	3,251.3				
Citra ^R , HBC 394	5,035.0	6,493.8	7,792.4				
Cluster	1,058.8	1,202.9	1,105.9				
C/T/Z R	2,787.9	4,389.7	5,048.4				
Comet	154.7	380.3	381.5				
Crvstal	281.7	251.7	268.7				
Ekuanot ™, HBC 366	(D)	2,438.6	2,234.3				
El Dorado ^R	754.0	901.0	785.8				
Eureka TM	(D)	812.3	1,208.2				
	443.3	806.7	838.1				
Galena							
Glacier	169.3	(D)	(D)				
Jarrylo [™] , ADHA-881	184.4	(D)	(D)				
Loral [™] , HBC 291	(D)	426.9	404.0				
Mosaic R, HBC 369	4,720.4	4,578.0	4,542.1				
Mt. Hood	94.6	90.7	151.2				
Mt. Rainier	(D)	(D)	581.1				
Nugget	33Ò.Ó	243.8	188.7				
Pahto ™, HBC 682	(D)	(D)	3,591.7				
Palisade R, YCR 4	1,292.5	1,261.3	1,257.1				
Pekko ™, ADHA-871	(D)	(D)	173.8				
Simcoe R, YCR 14	6,305.1	6,725.4	5,095.1				
Correct: Acc	(D)	(D)	450.4				
Sorachi Ace	(D)	(D)	152.1				
Summit TM	2,914.5	3,342.3	2,874.1				
Super Galena TM	775.3	1,151.4	1,566.5				
Tahoma	(D)	380.2	448.7				
Tettnanger	(D)	45.7	(D)				
Willamette	929.3	825.7	506.8				
Zeus	6,178.5	6,836.8	6,788.4				
Experimental	902.7	800.3	706.5				
Other varieties ¹	8,308.9	5,316.0	3,002.6				
Total	65,446.6	79,083.8	77,727.7				
United States ²	87,139.6	105,621.5	106,906.7				

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

R Registered

TM Trademark

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

² Includes 430 acres of organic hops for 2018 with yield equal to 1,119 pounds per acre and production at 481,200 pounds.

Mint for Oil Area Harvested, Yield, and Production by Crop - States and United States: 2016-2018

Orange de Otata	,	Area harvested	, ,		Yield per acre		
Crop and State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)	
Peppermint California	1.5 17.4 9.8 19.0 13.8 3.0 64.5 (D) 3.3 (D) 2.5 15.8	1.5 18.0 8.5 18.0 12.0 2.8 60.8 (D) 3.1 (D) 2.5 14.0	1.6 17.0 7.0 19.0 11.0 2.9 58.5 (D) 2.8 (D) 2.5 12.3	86 110 50 85 110 59 91 (D) 80 (D) 125 147	82 105 45 95 120 73 95 (D) 54 (D) 105 150	85 105 50 85 120 59 92 (D) 77 (D) 125 142	
Native Scotch Other States ¹	9.3 6.5 2.9	8.0 6.0 2.7	7.9 4.4 3.2	165 120 109	165 130 99	160 110 92	
United States	24.5	22.3	20.8	131	125	124	
Officed States	24.3	22.3		uction	125	124	
State	20	16		17	20	2018	
	(1,000 p	oounds)	(1,000)	oounds)	(1,000)	pounds)	
Peppermint California		129 1,914 490 1,615 1,518 177 5,843		123 1,890 383 1,710 1,440 204		136 1,785 350 1,615 1,320 171 5,377	
Officed States		3,043		3,730		3,377	
Spearmint Idaho Indiana Michigan Oregon Washington Native Scotch		(D) 264 (D) 313 2,315 1,535 780		(D) 167 (D) 263 2,100 1,320 780		(D) 216 (D) 313 1,748 1,264 484	
Other States ¹		316		266		294	
United States		3,208		2,796		2,571	

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

¹ Includes data withheld above.

Maple Syrup Taps, Yield, and Production – States and United States: 2016-2018

[Estimates for 2018 are carried forward from the June 2018 Crop Production. Any revisions will appear in the June 2019 Crop Production]

State	ı	Number of tap:	S	Yield per tap			Production		
Sidle	2016	2017	2018	2016	2017	2018	2016	2017	2018
	(1,000 taps)	(1,000 taps)	(1,000 taps)	(gallons)	(gallons)	(gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Connecticut	80	78	73	0.200	0.231	0.247	16	18	18
Indiana	65	70	70	0.200	0.200	0.257	13	14	18
Maine	1,860	1,900	1,870	0.363	0.376	0.288	675	715	539
Massachusetts	315	320	320	0.244	0.263	0.225	77	84	72
Michigan	550	600	455	0.225	0.250	0.275	124	150	125
Minnesota	82	83	65	0.183	0.205	0.200	15	17	13
New Hampshire	570	570	560	0.309	0.281	0.291	176	160	163
New York	2,515	2,650	2,730	0.281	0.287	0.295	707	760	806
Ohio	400	420	400	0.190	0.200	0.225	76	84	90
Pennsylvania	750	780	670	0.217	0.212	0.212	163	165	142
Vermont	4,900	5,900	5,670	0.388	0.339	0.342	1,900	2,000	1,940
West Virginia	60	70	66	0.117	0.157	0.121	7	11	8
Wisconsin		760	750	0.307	0.272	0.300	235	207	225
United States	12,912	14,201	13,699	0.324	0.309	0.304	4,184	4,385	4,159

Taro Area Harvested, Yield, and Production - State and United States: 2016-2018

State	Area harvested			Yield per acre			Production		
	2016	2017	2018	2016	2017	2018	2016	2017	2018
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Hawaii	310	350	310	11,300	10,530	9,630	3,503	3,686	2,985
United States	310	350	310	11,300	10,530	9,630	3,503	3,686	2,985

Alaska Area Planted and Harvested, Yield, and Production: 2016-2018

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

Crop	Area	a planted for all purpo	oses	Area harvested			
Стор	2016	2017	2018 ¹	2016	2017	2018 ¹	
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	
Barley	5,000 (NA) 2,000 550	5,500 (NA) 1,700 560	5,000 (NA) (NA) 500	4,700 22,000 1,200 530	5,200 21,000 900 540	4,000 22,000 (NA) 500	
Crop	Yield per acre			Production			
Сюр	2016	2017	2018 ¹	2016	2017	2018 ¹	
Barley bushels Hay, all tons Oats 2 bushels Potatoes cwt		46.0 1.20 73.0 270	43.0 1.30 (NA) 280	230,000 30,000 74,000 159,000	239,000 25,000 66,000 146,000	172,000 29,000 (NA) 140,000	

⁽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.

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

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2018 crop year]

	Area p		Area harvested		
Crop	2017	2018	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Grains and hay					
Barley	2,486	2,543	1,962	1,978	
Corn for grain ¹	90,167	89,129	82,733	81,740	
Corn for silage	(NA)	(NA)	6,385	6,113	
Hay, all	(NA)	(NA)	52,777	52,839	
Alfalfa	(NA)	(NA)	17,007	16,608	
All other	(NA)	(NA)	35,770	36,231	
Oats	2,589	2,746	804	865	
Proso millet	478	443	403	403	
Rice	2,463	2,946	2,374	2,915	
Rye	1,961	2,011	300	273	
Sorghum for grain ¹	5,629	5,690	5,044	5,061	
Sorghum for silage	(NA)	(NA)	282	264	
Wheat, all	46,052	47,800	37,555	39,605	
Winter	32,726	32,535	25,301	24,742	
Durum	2,307	2,065	2,106	1,967	
	11,019	13,200	10,148	12,896	
Other spring	11,019	13,200	10,146	12,090	
Oilseeds	0.077.0	4 000 7	0.000.0	4 040 5	
Canola	2,077.0	1,990.7	2,002.0	1,943.5	
Cottonseed	(X)	(X)	(X)	(X)	
Flaxseed	303	208	272	198	
Mustard seed	103.0	102.5	95.4	97.5	
Peanuts	1,871.6	1,425.5	1,775.6	1,368.5	
Rapeseed	10.3	5.7	9.9	5.4	
Safflower	163.5	167.5	145.2	156.4	
Soybeans for beans	90,162	89,196	89,542	88,110	
Sunflower	1,403.0	1,301.0	1,333.8	1,222.5	
Cotton, tobacco, and sugar crops					
Cotton, all	12,717.5	14,099.0	11,100.4	10,530.5	
Upland	12,465.0	13,850.0	10,850.0	10,283.0	
American Pima	252.5	249.0	250.4	247.5	
Sugarbeets	1,131.4	1,113.1	1,113.8	1,095.4	
Sugarcane	(NA)	(NA)	904.1	908.2	
Tobacco	(NA)	(NA)	321.5	291.4	
Dry beans, peas, and lentils					
Austrian winter peas	25.5	16.4	8.0	10.9	
Dry edible beans	2,097.0	2,081.0	2,022.7	2.016.0	
Chickpeas, all	625.5	859.6	611.0	842.8	
Large	446.0	636.9	435.2	623.2	
Small	179.5	222.7	175.8	219.6	
Dry edible peas	1,128.0	856.5	1,051.5	807.9	
	1,104.0	780.0	1,022.0	718.0	
Lentils	(NA)	(NA)	(NA)	(NA)	
Potatoes and miscellaneous					
Hops	(NA)	(NA)	54.0	55.0	
Maple Syrup	(NA)	(NA)	(NA)	(NA)	
Mushrooms	(NA)	(NA)	(NA)	(NA)	
Peppermint oil	(NA)	(NA)	60.8	58.5	
Potatoes, all	1,052.6	1,033.2	1,044.5	1,023.3	
	62.5	53.0	62.2	51.8	
SpringSummer	70.4	55.3	67.6	52.9	
Fall	919.7	924.9	914.7	918.6	
Spearmint oil	(NA)	(NA)	22.3	20.8	
Sweet potatoes	161.6	150.2	159.3	144.4	
Taro (Hawaii)	(NA)	(NA)	0.4	0.3	

See footnote(s) at end of table.

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

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2018 crop year]

Cron		Yield per	, , , , , , , , , , , , , , , , , , ,	Production		
Сгор		2017	2018	2017	2018	
				(1,000)	(1,000)	
Grains and hay						
Barley	bushels	73.0	77.4	143,258	153,082	
Corn for grain	bushels	176.6	176.4	14,609,407	14,420,101	
Corn for silage	tons	20.0	19.9	127,434	121,361	
Hay, all	tons	2.43	2.34	128,207	123,600	
Álfalfa		3.28	3.17	55,812	52,634	
All other	tons	2.02	1.96	72,395	70,966	
Oats		61.7	64.9	49,585	56,130	
Proso millet		36.9	29.8	14,889	11,991	
Rice ²		7,507	7,692	178,228	224,211	
Rye		34.2	30.9	10,252	8,432	
•				•	·	
Sorghum for grain		71.7	72.1	361,871	364,986	
Sorghum for silage		13.4	12.6	3,772	3,326	
Wheat, all		46.4	47.6	1,740,910	1,884,458	
Winter	bushels	50.2	47.9	1,270,282	1,183,939	
Durum	bushels	26.0	39.3	54,777	77,287	
Other spring	bushels	41.0	48.3	415,851	623,232	
Oilseeds						
Canola	nounds	1,526	1,861	3,055,410	3,616,560	
Cottonseed		(X)	(X)	6.422.0	5,794.0	
Flaxseed		` '		-, -	4,466	
		14.1	22.6	3,842	·	
Mustard seed		617	750	58,820	73,078	
Peanuts		4,007	3,991	7,115,410	5,461,600	
Rapeseed	pounds	1,843	1,524	18,250	8,230	
Safflower	pounds	1,212	1,511	176,025	236,380	
Soybeans for beans	bushels	49.3	51.6	4,411,633	4,543,883	
Sunflower	pounds	1,603	1,731	2,137,750	2,116,410	
Cotton, tobacco, and sugar crops						
Cotton, all ²	hales	905	838	20,922.5	18,390.0	
Upland ²		895	821	20,223.0	17,596.0	
American Pima ²		1,341	1,540	699.5	794.0	
		,				
Sugarbeets		31.7	30.3	35,317	33,145	
Sugarcane		36.8	38.3	33,238	34,754	
Tobacco	pounds	2,209	1,830	710,161	533,241	
Dry beans, peas, and lentils						
Austrian winter peas ²	cwt	1,250	1,138	100	124	
Dry edible beans ²	cwt	1,778	1,860	35,961	37,494	
Ćhickpeas, all ²	cwt	1,155	1,512	7,057	12,742	
Large ²		1.169	1,520	5,088	9,472	
Small ²	cwt	1,120	1,489	1,969	3,270	
Dry edible peas ²	CWt	1,350	1,972	14,195	15,929	
	Cvvt		1,171			
Lentils ²		732 (NA)	(NA)	7,482 357	8,408 389	
Patetana and misaallanaan		`	` '			
Potatoes and miscellaneous Hops	pounds	1,956	1,943	105,621.5	106,906.7	
Maple Syrup		(NA)	(NA)	4,385	4,159	
Mushrooms	_	(NA)	(NA)	933,355	917,235	
		95	92	5,750	5,377	
Peppermint oil				•	•	
Potatoes, all		432	444	450,921	454,314	
Spring		350	343	21,748	17,757	
Summer		331	308	22,373	16,276	
Fall	cwt	445	458	406,800	420,281	
- Gill						
Spearmint oil	pounds	125	124	2,796	2,571	
		125 224	124 190	2,796 35,646	2,571 27,378	

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

¹ Area planted for all purposes.

² Yield in pounds.

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

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2018 crop year]

Grains and hay Barley Corn for grain 1 Corn for silage Hay, all 2 Alfalfa All other Oats Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	1,006,060 36,489,680 (NA) (NA) (NA) (NA) 1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620 41,680	2018 (hectares) 1,029,130 36,069,620 (NA) (NA) (NA) (NA) 1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X) 84,180	2017 (hectares) 794,000 33,481,220 2,583,950 21,358,320 6,882,560 14,475,760 325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790 810,190 (X)	2018 (hectares) 800,480 33,079,360 2,473,870 21,383,410 6,721,090 14,662,320 350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Grains and hay Barley Corn for grain 1 Corn for silage Hay, all 2 Alfalfa All other Oats Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	1,006,060 36,489,680 (NA) (NA) (NA) (NA) 1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	1,029,130 36,069,620 (NA) (NA) (NA) (NA) 1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910	794,000 33,481,220 2,583,950 21,358,320 6,882,560 14,475,760 325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	800,480 33,079,360 2,473,870 21,383,410 6,721,090 14,662,320 350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Barley Corn for grain 1 Corn for silage Hay, all 2 Alfalfa All other Oats Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	36,489,680 (NA) (NA) (NA) (NA) 1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	36,069,620 (NA) (NA) (NA) (NA) 1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	33,481,220 2,583,950 21,358,320 6,882,560 14,475,760 325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	33,079,360 2,473,870 21,383,410 6,721,090 14,662,320 350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Corn for grain 1 Corn for silage Hay, all 2 Alfalfa All other Oats Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	36,489,680 (NA) (NA) (NA) (NA) 1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	36,069,620 (NA) (NA) (NA) (NA) 1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	33,481,220 2,583,950 21,358,320 6,882,560 14,475,760 325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	33,079,360 2,473,870 21,383,410 6,721,090 14,662,320 350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Corn for silage Hay, all 2 Alfalfa All other Oats Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Cilseeds Canola Cottonseed Flaxseed	(NA) (NA) (NA) (NA) (1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	(NA) (NA) (NA) (NA) 1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910	2,583,950 21,358,320 6,882,560 14,475,760 325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	2,473,870 21,383,410 6,721,090 14,662,320 350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Hay, all ² Alfalfa All other Oats Proso millet Rice Rye Sorghum for grain ¹ Sorghum for silage Wheat, all ² Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	(NA) (NA) (NA) 1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	(NA) (NA) (NA) (1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910	21,358,320 6,882,560 14,475,760 325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	21,383,410 6,721,090 14,662,320 350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Álfalfa All other Oats Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	(NA) (NA) 1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	(NA) (NA) 1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910	6,882,560 14,475,760 325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	6,721,090 14,662,320 350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
All other Oats Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	(NA) 1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	(NA) 1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	14,475,760 325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	14,662,320 350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Oats Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	1,047,740 193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	1,111,280 179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910	325,370 163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	350,060 163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Proso millet Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	193,440 996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	179,280 1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	163,090 960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	163,090 1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Rice Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	996,750 793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	1,192,220 813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	960,730 121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	1,179,670 110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Rye Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	793,600 2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	813,830 2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	121,410 2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	110,480 2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Sorghum for grain 1 Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	2,278,000 (NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	2,302,690 (NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	2,041,260 114,120 15,198,130 10,239,060 852,280 4,106,790	2,048,140 106,840 16,027,750 10,012,840 796,030 5,218,880
Sorghum for silage Wheat, all 2 Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	(NA) 18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	(NA) 19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	114,120 15,198,130 10,239,060 852,280 4,106,790	106,840 16,027,750 10,012,840 796,030 5,218,880 786,520
Wheat, all ² Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	18,636,780 13,243,880 933,620 4,459,280 840,540 (X) 122,620	19,344,180 13,166,590 835,680 5,341,910 805,620 (X)	15,198,130 10,239,060 852,280 4,106,790 810,190	16,027,750 10,012,840 796,030 5,218,880 786,520
Winter Durum Other spring Oilseeds Canola Cottonseed Flaxseed	13,243,880 933,620 4,459,280 840,540 (X) 122,620	13,166,590 835,680 5,341,910 805,620 (X)	10,239,060 852,280 4,106,790 810,190	10,012,840 796,030 5,218,880 786,520
Durum	933,620 4,459,280 840,540 (X) 122,620	835,680 5,341,910 805,620 (X)	852,280 4,106,790 810,190	796,030 5,218,880 786,520
Other spring Oilseeds Canola Cottonseed Flaxseed	4,459,280 840,540 (X) 122,620	5,341,910 805,620 (X)	4,106,790 810,190	5,218,880 786,520
Oilseeds Canola Cottonseed Flaxseed	840,540 (X) 122,620	805,620 (X)	810,190	786,520
Canola Cottonseed Flaxseed	(X) 122,620	(X)	·	·
Cottonseed	(X) 122,620	(X)	·	·
Flaxseed	122,620	` ,	(X)	
	*	8/1 180		(X)
Mustard acad	41.680	04,100	110,080	80,130
Mustard seed	.,	41,480	38,610	39,460
Peanuts	757,420	576,890	718,570	553,820
Rapeseed	4,170	2,310	4,010	2,190
Safflower	66,170	67,790	58,760	63,290
Soybeans for beans	36,487,660	36,096,730	36,236,750	35,657,240
Sunflower	567,780	526,500	539,780	494,730
Cotton, tobacco, and sugar crops				
Cotton, all ²	5,146,650	5,705,720	4,492,220	4,261,590
Upland	5,044,460	5,604,960	4,390,890	4,161,430
American Pima	102,180	100,770	101,330	100,160
Sugarbeets	457,870	450,460	450,740	443,300
Sugarcane	(NA)	(NA)	365,880	367,540
Tobacco	(NA)	(NA)	130,100	117,940
Dry beans, peas, and lentils				
Austrian winter peas	10,320	6,640	3,240	4,410
Dry edible beans	848,630	842,160	818,570	815,860
Chickpeas, all ²	253,130	347,870	247,270	341,070
Large	180,490	257,750	176,120	252,200
Small	72,640	90,120	71,140	88,870
Dry edible peas	456,490	346,620	425,530	326,950
Lentils	446,780	315,660	413,590	290,570
Wrinkled seed peas	(NA)	(NA)	(NA)	(NA)
Potatoes and miscellaneous				
Hops	(NA)	(NA)	21,850	22,270
Maple Syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)	(NA)	24,61Ó	23,670
Potatoes, all ²	425,980	418,130	422,700	414,120
Spring	25,290	21,450	25,170	20,960
Summer	28,490	22,380	27,360	21,410
Fall	372,190	374,300	370,170	371,750
Spearmint oil	(NA)	(NA)	9,020	8,420
Sweet potatoes	65,400	60,780	64,470	58,440
Taro (Hawaii)	(NA)	(NA)	140	130

See footnote(s) at end of table.

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

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2018 crop year]

Crop Crains and hay Crains and hay		Yield per hectare		Production		
Strain and hay	Crop		ı	2017	2018	
Barley		(metric tons)	(metric tons)	(metric tons)	(metric tons)	
Com for grain	Grains and hay					
Corn for Siage	Barley	3.93	4.16	3,119,070	3,332,970	
Hay, all 2	Corn for grain	11.08	11.07	371,096,030	366,287,440	
All other	Corn for silage	44.74	44.50	115,606,180	110,096,850	
All other	Hay, all ²	5.45	5.24	116,307,430	112,128,030	
Data	Alfalfa	7.36	7.10	50,631,790	47,748,760	
Proso millet 2.07	All other	4.54	4.39	65,675,640	64,379,270	
Rice	Oats	2.21	2.33	719,720	814,720	
Rye	Proso millet	2.07	1.67	337,680		
Sorghum for grain	Rice	8.41	8.62	8,084,290	10,170,040	
Sorghum for silage		2.14	1.94	260,410	214,180	
Wheat all 3.12 3.20 47,379,810 51,286,540 Durum 1.75 2.64 1.490,790 2.103,410 0.221,540 Durum 1.75 2.64 1.490,790 2.103,410 0.221,540 Durum 1.576 2.64 1.490,790 2.103,410 0.241,545 0.241	Sorghum for grain			9,191,950		
Winter		29.98				
Durum		3.12	3.20	47,379,810	51,286,540	
Other spring 2.76 3.25 11,317,610 16,961,600 OilseedS Canola 1,71 2.09 1,385,910 1,640,440 Cotronsed (X) (X) (X) 5,256,230 1,344,040 Cotronsed (X) (X) (X) 5,256,230 113,440 Cotronsed (B) 0,89 1,42 97,590 113,440 Mustard seed 0,69 0,84 26,680 33,150 Peanuts 4,49 4,47 3,227,500 2,477,340 Rapessed 2,07 1,71 8,280 3,730 Sufflower 1,36 1,69 79,840 107,220 Soybeans for beans 3,31 3,47 120,044,970 123,684,220 Cutton, tobacco, and sugar crops 1,80 1,94 4,555,340 4,00,340 3,831,080 Cotton, all 2 1,01 0,94 4,555,340 4,00,395 9,999 Cotton, tobacco, and sugar crops 1,01 0,94 4,555,340 4,00,395 <th< td=""><td>Winter</td><td></td><td></td><td>· · ·</td><td></td></th<>	Winter			· · ·		
Diseeds	Durum	1.75	2.64	1,490,790	2,103,410	
Canola 1.71 2.09 1.385,910 1,640,440 Cottonseed (X) (X) (X) 5,225,930 5,256,230 Flaxseed 0.89 1.42 97,590 113,440 Mustard seed 0.69 0.64 26,680 33,150 Rapeseed 2.07 1.71 8,280 3,730 Safflower 1.36 1.69 79,840 107,220 Soybeans for beans 3.31 3.47 120,064,970 123,664,230 Sunflower 1.80 1.94 969,670 959,990 Cotton, condition 1.80 1.94 969,670 959,990 Cotton, all 2 1.01 0.94 4,555,340 4,003,950 Upland 1.00 0.92 4,403,404 3,831,080 Sugarcane 1.50 1.73 152,300 172,870 Sugarcane 8.241 85,78 30,153,010 30,688,640 Toys bears, peas, and lentils 1.40 1.28 4,540 5,620	Other spring	2.76	3.25	11,317,610	16,961,600	
Cottonseed (X) (X) 5,255,200 5,256,230 Flaxseed 0,89 1,42 97,590 113,440 Mustard seed 0,69 0,84 26,800 33,150 Peanuts 4,49 4,47 3,227,500 2,477,340 Rapeseed 2,07 1,71 8,280 3,730 Solflower 1,36 1,69 79,840 107,220 Soybeans for beans 3,31 3,47 120,064,970 123,664,230 Surflower 1,80 1,94 969,670 959,990 Cotton, tobacco, and sugar crops 2 2 4,403,040 3,631,080 Upland 1,00 0,92 4,403,040 3,831,080 Upland 1,00 0,92 4,403,040 3,039,040 3,068,640						
Flaxseed	_			, ,		
Mustard seed 0.69		` '	. ` . ′	· · ·	· · ·	
Peanuts 4.49 4.47 3.227,500 2,477,340 Rapesed 2.07 1.11 8,280 3,730 Safflower 1.36 1.69 79,840 107,220 Soybeans for beans 3.31 3.47 120,064,970 123,664,230 Sunflower 1.80 1.94 969,670 969,999 Cotton, tobacco, and sugar crops				·	•	
Rapeseed 2.07 1.71 8,280 3,730 Safflower 1.36 1.69 79,840 107,220 Soybeans for beans 3.31 3.47 120,064,970 123,664,230 Sunflower 1.80 1.94 969,670 959,990 Cotton, tobacco, and sugar crops Cotton, tobacco, and sugar crops 1.01 0.94 4,555,340 4,003,950 Upland 1.00 0.92 4,403,040 3,831,080 American Pima 1.50 1.73 152,300 172,870 Sugarbeets 71.08 67.83 320,390,40 30,686,640 Sugarcane 82.41 85.78 30,153,010 31,528,300 Tobacco 2.48 2.05 322,120 241,870 Dry beans, peas, and lentils Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.25 1.67 89,310 148,320	_				,	
Safftower 1.36 1.69 79,840 107,220 Soybeans for beans 3.31 3.47 120,064,970 123,664,230 Sunflower 1.80 1.94 969,670 959,990 Cotton, tobacco, and sugar crops Cotton, all 2 1.01 0.94 4,555,340 4,003,950 Upland 1.00 0.92 4,403,040 3,831,080 American Plima 1.50 1.73 152,300 172,870 Sugarcane 82,41 85,78 30,153,010 31,528,300 Tobacco 2.48 2.05 322,120 241,870 Dry beans, peas, and lentils Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320	_			· · ·		
Soybeans for beans 3.31 3.47 120,064,970 123,664,230 Cotton, tobacco, and sugar crops Sumflower 1.80 1.94 969,670 959,990 Cotton, tobacco, and sugar crops Suparbeat Suparbeat Suparbeat 4,555,340 4,003,950 Upland 1.00 0.92 4,403,040 3,831,080 American Pima 1.50 1.73 152,300 172,870 Sugarbeats 71.08 67.83 30,9040 30,068,640 Sugarbeats 71.08 67.83 30,153,010 31,528,300 Tobacco 2.48 2.05 322,120 241,870 Dry beans, peas, and lentils 2.48 2.05 322,120 241,870 Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small	'					
Sunflower 1.80				,		
Cotton, tobacco, and sugar crops 1.01 0.94 4,555,340 4,003,950 Upland 1.00 0.92 4,403,040 3,831,080 American Pima 1.50 1.73 152,300 172,870 Sugarbeets 71.08 67.83 32,039,040 30,068,640 Sugarcane 82.41 85.78 30,153,010 31,528,300 Tobacco 2.48 2.05 322,120 241,870 Dry beans, peas, and lentils Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA)	,				, ,	
Upland		1.00	1.04	300,070	000,000	
American Pima 1.50 1.73 152,300 172,870 Sugarbeets 71.08 67.83 32,039,040 30,068,640 Sugarcane 82.41 85.78 30,153,010 31,528,300 Tobacco 2.48 2.05 322,120 241,870 Dry beans, peas, and lentils Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490	Cotton, all ²	1.01	0.94	4,555,340	4,003,950	
Sugarbeets 71.08 67.83 32,039,040 30,068,640 Sugarcane 82.41 85.78 30,153,010 31,528,300 Tobacco 2.48 2.05 322,120 241,870 Dry beans, peas, and lentils Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 2,193 20,800	Upland	1.00	0.92	4,403,040	3,831,080	
Sugarcane 82.41 85.78 30,153,010 31,528,300 Tobacco 2.48 2.05 322,120 241,870 Dry beans, peas, and lentils Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) (NA) 42,3360 416	American Pima	1.50	1.73	152,300	172,870	
Dry beans, peas, and lentils	Sugarbeets	71.08	67.83			
Dry beans, peas, and lentils Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) (NA) 22,193 2,218 47,910 48,490 Mosple syrup (NA) (NA) (NA) (NA) 20,453,430 20,607,344 Peppermint oil 0.11 </td <td>Sugarcane</td> <td>82.41</td> <td>85.78</td> <td>30,153,010</td> <td>31,528,300</td>	Sugarcane	82.41	85.78	30,153,010	31,528,300	
Austrian winter peas 1.40 1.28 4,540 5,620 Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all 2 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10<	Tobacco	2.48	2.05	322,120	241,870	
Dry edible beans 1.99 2.08 1,631,160 1,700,700 Chickpeas, all 2 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Chickpeas 2.19 2.18 47,910 48,490 48,490 48,490 48,490 48,490 49,76 49,790 429,640 48,490 49,76 20,453,430 20,607,340 59pearmint oil 39,19 38,42 986,470 805,440 50,						
Chickpeas, all 2 1.29 1.69 320,100 577,970 Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) (NA) 21,930 20,800 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all 2 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51	·	_			,	
Large 1.31 1.70 230,790 429,640 Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all 2 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 0.14 1,270 1,170 Sweet potatoes <td< td=""><td></td><td></td><td></td><td>· · ·</td><td></td></td<>				· · ·		
Small 1.26 1.67 89,310 148,320 Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all 2 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850				•	•	
Dry edible peas 1.51 2.21 643,870 722,530 Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all 2 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850						
Lentils 0.82 1.31 339,380 381,380 Wrinkled seed peas (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all 2 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850				•	•	
Wrinkled seed peas (NA) (NA) 16,190 17,640 Potatoes and miscellaneous Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all 2 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850	, ,				,	
Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all ² 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850						
Hops 2.19 2.18 47,910 48,490 Maple syrup (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all ² 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850	Potatoes and miscellaneous					
Maple syrup (NA) (NA) 21,930 20,800 Mushrooms (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all ² 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850		2.19	2.18	47,910	48,490	
Mushrooms (NA) (NA) 423,360 416,050 Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all ² 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850	·					
Peppermint oil 0.11 0.10 2,610 2,440 Potatoes, all ² 48.39 49.76 20,453,430 20,607,340 Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850	• • •	`	`		•	
Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850	Peppermint oil	`	` ,		•	
Spring 39.19 38.42 986,470 805,440 Summer 37.10 34.49 1,014,820 738,270 Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850	Potatoes, all ²	48.39	49.76	20,453,430	20,607,340	
Fall 49.79 51.28 18,169,320 19,063,630 Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850		39.19	38.42	986,470		
Spearmint oil 0.14 0.14 1,270 1,170 Sweet potatoes 25.08 21.25 1,616,880 1,241,850	Summer	37.10	34.49	1,014,820		
Sweet potatoes 25.08 21.25 1,616,880 1,241,850	Fall	49.79	51.28	18,169,320	19,063,630	
	Spearmint oil				•	
Taro (Hawaii) 11.80 10.80 1,670 1,350						
	Taro (Hawaii)	11.80	10.80	1,670	1,350	

(NA) Not available.

⁽X) Not applicable.

1 Area planted for all purposes.
2 Total may not add due to rounding.

2018 Annual Weather Summary

Highlights: For the second year in a row, deadly and destructive hurricanes struck parts of the country. On September 14, Category 1 Hurricane Florence arrived on the North Carolina coastline near Wrightsville Beach, but left a more significant inland imprint over the next several days as the slow-moving storm sparked torrential rainfall and major flooding in the eastern Carolinas. Less than a month later, on October 10, high-end Category 4 Hurricane Michael charged ashore near Panama City, Florida, bearing ferocious, 155 mph winds and a devastating storm surge. Both storms were destructive with respect to agriculture; Florence submerged low-lying fields of cotton, peanuts, and soybeans and resulted in notable losses in the poultry and swine sectors, while Michael caused substantial wind-related losses across western Florida, southwestern Georgia, and southeastern Alabama with respect to timber, pecans, and row crops such as cotton.

Meanwhile, wildfires again made headlines in several regions, including the Plains and the West. The Plains' most significant wildfire outbreaks occurred in mid-April, with activity peaking on April 12-13 and 17-18. Although the fires were followed by rain, Oklahoma's two largest April wildfires—the Rhea Fire and the 34 Complex—collectively charred approximately 350,000 acres of grass and brush. Farther west, wildfires were a factor for much of the year, starting in the spring across the Four Corners States and later shifting into the Northwest. California endured several major wildfire outbreaks, including one in July that produced the state's largest wildfire in modern history—the 459,000 acre Mendocino Complex—and a November disaster that included the Nation's deadliest wildfire in a century, since the Cloquet Fire scorched northern Minnesota in October 1918. During California's latter outbreak, which began on November 8, the Camp Fire incinerated much of the community of Paradise, in Butte County, California, destroying nearly 14,000 homes and resulting in at least 85 deaths. For the year, wildfires charred more than 8.5 million acres of vegetation, below the 2015 modern record of 10.1 million acres but well above the 10-year average of 6.6 million acres.

Although Western drought generally persisted or intensified in 2018, much of the central and eastern United States was free of drought by year's end. However, embedded within the overall wet pattern from the Plains to the East Coast were pockets of drought, most notably during the growing season from the southern Plains to the southwestern Corn Belt. Untimely drought in those areas adversely affected a variety of summer crops, including cotton and corn. The last cotton condition report of the season, on November 4, indicated that 35 percent of the crop was rated in very poor to poor condition—reflecting both summer drought on the southern Plains and hurricane-related damage in the Southeast.

However, a bigger weather story across the central and eastern United States was consistent warmth from early May through the end of the growing season, which accelerated crop development and hastened maturation. In many areas, ample rainfall accompanied the above-normal temperatures, leading to record-high yield expectations for the Nation's corn and soybeans. As the growing season ended, rainfall intensified in many areas, contributing to substantial harvest delays. Fieldwork further slowed in some areas in November, when cold, stormy weather hampered final harvest efforts and slowed winter wheat planting, emergence, and establishment across portions of the Plains, Midwest, South, and East. By November 25, only 70 percent of the Nation's cotton and 94 percent of the soybeans had been harvested—leaving a record amount of both crops in the field for that date, based on data since 1995.

Late in the year, El Niño was poised to return for the first time since early 2016. Even before the development of El Niño, drought was on the wane, despite widespread coverage west of the Rockies. During 2018, the Nation's drought coverage ranged from a maximum of 39.64 percent on February 6 to a minimum of 20.94 percent on November 13. At the time of the November minimum, 50.46 percent of the land in the eleven Western States was in drought.

Winter 2017-18: La Niña's influence on North American weather patterns contributed to warmth and dryness in the Southwest and lower Southeast; periods of cold, snowy weather on the northern Plains; and late-winter wetness and flooding in the mid-South and lower Midwest. In addition, intensifying drought gripped the southern half of the High Plains, leading to adverse impacts on rangeland, pastures, and winter wheat.

As winter began, wildfires scorched several southern California hillsides. In particular, the Thomas Fire charred more than 280,000 acres of vegetation in Ventura and Santa Barbara Counties, becoming the largest single wildfire in modern California history and setting the stage for devastating early-January mudslides and debris flows. The January storm notwithstanding, southern California—and most of the remainder of the Nation's southwestern quadrant—experienced a warm, dry winter.

Farther north, however, a generally cold, snowy winter eased the effects of a punishing summer drought and insulated winter wheat across the northern High Plains. However, the cold, snowy weather also stressed livestock. At times, short-lived but severe cold snaps affected many other parts of the country. When frigid weather reached the Deep South in mid-January, temperatures in some locations fell to their lowest levels since 1989 or 1996. Parts of the South also contended with multiple rounds of wintry precipitation, including heavy snow.

Elsewhere, a pattern change in mid-February brought colder, wetter weather to much of the West, maintaining favorable water-supply forecasts from the Pacific Northwest to the northern Rockies, and improving runoff prospects from the Sierra Nevada to the central Rockies. The West's cool, wet regime extended through much of March, quadrupling the average water content of the Sierra Nevada snowpack (from 4 to 16 inches, or from 20 to nearly 60 percent of average). At the same time, late-winter downpours across the mid-South and lower Midwest led to river navigation disruptions and extensive lowland flooding, and pushed the Ohio River between Cincinnati, Ohio, and Evansville, Indiana, to its highest level since 1997.

Drought coverage in the contiguous United States reached a winter peak of 39.64 percent on February 6, according to the Drought Monitor. Subsequently, heavy precipitation in several regions, including the mid-South and lower Midwest, reduced drought coverage to 31.30 percent by February 27. However, drought further intensified across the southern High Plains. By March 6, exceptional drought (D4) made its first appearance in Oklahoma since May 5, 2015. As winter ended, extreme drought (D3) was noted in parts of Kansas, Oklahoma, and Texas, as well as portions of the Four Corners States.

Spring: Spring 2018 featured a remarkable transition in the central and eastern United States from a cold April to a warm May. Nationally, the change in average temperature between April and May was 16.36°F, considerably above the 1901-2000 mean value of 9.15°F, according to the National Centers for Environmental Information. In fact, a record was set (during the 124-year period of record) for the greatest discrepancy in average temperature between April and May; the previous record of 13.50°F had been set in 1975.

Given the sudden transition from winter-like to summer-like conditions, the planting season was generally compressed, with fieldwork starting late in many areas but mostly ending on schedule. Subsequently, summer crops such as corn and soybeans exhibited rapid germination and growth due to the late-spring warmth. Nearly two-thirds (64 percent) of the Nation's intended corn acreage was planted during the 3-week period ending May 20, while 62 percent of the soybeans were planted in the 3 weeks ending May 27. Soybean emergence reached 68 percent by June 3, significantly ahead of the 5-year average of 52 percent.

There was also several other spring weather developments. First, a barrage of March storms in California (and environs) significantly improved water-supply prospects. Also, drought persistence or intensification in the southwestern and south-central United States contributed to an active spring wildfire season—and reduced yield prospects and increased abandonment rates for hard red winter wheat. Finally, late-spring downpours in the middle and southern Atlantic States curtailed fieldwork and caused local flooding.

Subtropical Storm Alberto, which formed several days before the official start of the Atlantic hurricane season, made landfall on Memorial Day, May 28, near Panama City, Florida, with maximum sustained winds near 45 mph. In general, however, Alberto—which later moved almost due northward through the Great Lakes region—was far less impressive than a parade of March nor easters that delivered wind, rain, and snow to the northern Atlantic States.

Drought coverage fell to 26.42 percent of the contiguous United States by May 29, down from a February 2018 peak of 39.64 percent. The reduction in drought coverage was largely due to abundant spring precipitation in several regions, including the Southeast, Far West, and portions of the Plains. However, a core drought area persisted across the southern High Plains and the Southwest. At the end of spring, some exceptional drought (D4) was noted in parts of the Four Corners States, along with Kansas, Oklahoma, and Texas.

Summer: Despite overarching summer warmth that accelerated crop development, primary production areas across the central and eastern United States received enough rain to support favorable outcomes for most major row crops. A notable

exception was cotton, which suffered due to drought in major production areas across the southern Plains—and was rated 33 percent very poor to poor by September 2.

Summer weather highlights also included persistent Western heat and drought, as well as rampant wildfires; significant variation in Midwestern conditions, ranging from pockets of excessive wetness in the upper Mississippi Valley to drought in the southwestern Corn Belt; and periods of excessive rainfall and flooding in the mid-Atlantic States and environs.

From January to August, wildfires burned more than 6.8 million acres of vegetation, nearly 130 percent of the 10-year average. Some of the worst summer wildfires, including the Mendocino Complex and the Carr Fire, affected northern California. The Mendocino Complex became the largest wildfire in modern California history, with nearly 460,000 acres of timber, brush, and grass torched near Potter Valley, while the Carr Fire—near Redding, California—destroyed nearly 1,100 homes and charred some 230,000 acres of vegetation. For the second summer in a row, a shroud of Northwestern smoke reduced visibility and air quality across a broad area.

During the summer of 2018, there was a general increase in overall drought (D1 to D4) coverage—from 27.09 to 36.21 percent of the contiguous United States between June 5 and August 14. According to the Drought Monitor, however, there was a net decrease in extreme to exceptional drought (D3 to D4), with summer coverage peaking at 9.25 percent on June 12 and falling to 7.50 percent by August 28. Nevertheless, core drought areas of the Four Corners States retained substantial extreme to exceptional drought by summer's end; on August 28, D3 to D4 coverage stood at 48 percent in Arizona, 44 percent in Colorado, 37 percent in Utah, and 36 percent in New Mexico.

Autumn: Despite some weather challenges, the Nation's corn and soybeans achieved record-high yields of 178.9 and 52.1 bushels per acre, respectively, based on November data released by USDA's National Agricultural Statistics Service. Some other crops, including cotton, did not fare quite as well, in part due to drought (on the southern High Plains) and hurricanes (in the Southeast).

In fact, Hurricanes Florence and Michael grabbed headlines for their adverse impacts on Southeastern agriculture. Florence resulted in catastrophic mid-September flooding in eastern North Carolina and portions of neighboring states, followed by Michael's devastating storm-surge strike on western Florida and subsequent wind-related inland impacts on cotton, pecans, timber, and other commodities in western Florida, southwestern Georgia, and southeastern Alabama.

As autumn progressed, colder, wetter conditions developed across the central and eastern United States. In particular, cold, wet weather resulted in extensive fieldwork delays—including summer crop harvesting and winter wheat planting—across the Plains and Midwest. Those conditions also hampered winter wheat emergence and establishment.

From January to November, the Nation's wildfires burned more than 8.5 million acres of vegetation, nearly 140 percent of the 10-year average. In California, devastating November wildfires struck both northern and sections of the state. In particular, northern California's Camp Fire became the Nation's deadliest wildfire in a century, with at least 85 fatalities reported in Butte County. The Camp Fire also scorched more than 153,000 acres of land and destroyed nearly 14,000 homes.

In the contiguous United States, warm-season drought (D1 to D4) coverage peaked at 36.21 percent on August 14, according to the Drought Monitor. However, there was a marked autumn decrease in drought coverage, especially across the central and eastern United States. By November 13, drought covered just 20.94 percent of the Lower 48 States. By December 4, drought was nearly non-existent across the central and eastern United States, but covered 54 percent of the eleven Western States. A core area of extreme to exceptional drought (D3 to D4) persisted into early December across the Four Corners region, covering 27 percent of Colorado, 21 percent of New Mexico, 13 percent of Arizona, and 8 percent of Utah. Elsewhere on December 4, extreme drought (D3) was reported across 34 percent of Oregon and 4 percent of California.

December: A parade of storms provided plenty of precipitation in most parts of the country. Precipitation surpluses were most apparent across the Plains and the Southeast; both areas contended with multiple major weather systems. In the latter region, a mid-month deluge followed an early-season snowfall. Additional Southeastern storms during the second half of December pushed annual precipitation totals into record-setting territory and led to several rounds of mostly minor to

moderate flooding. Acute wetness—for both December and 2018—extended as far north as the Ohio Valley and the mid-Atlantic.

Meanwhile, wintry conditions across the Nation's mid-section peaked amid the holiday season, particularly during a post-Christmas storm that delivered wind-driven snow from the southern High Plains into the upper Great Lakes region. Late-December precipitation eased short-term dryness on the southern Plains—one of the few regions east of the Rockies with drought-related concerns. The Great Lakes region and Deep South Texas were among a handful of areas east of the Rockies reporting pockets of below-normal monthly temperatures.

Warmth dominated the central and eastern United States, with December temperatures averaging at least 5°F above normal across large sections of the northern Plains and upper Midwest. In fact, warmth also extended across much of the West, excluding portions of the northern Intermountain region.

December precipitation was highly variable across the West. Relative to normal, monthly precipitation was greatest in the Northwest, northern Great Basin, and the southern Rockies. By early January, some of the lowest snowpack values, compared to typical amounts, were noted in southern Idaho.

2018 Annual Crop Summary

April: Cooler than average temperatures were recorded for much of the Nation east of the Rockies during the month of April. In the upper Midwest, average temperatures were 9°F or more below normal in many areas, leading to delays in plantings. However, from the Rockies westward, average temperatures were slightly warmer. Most of the lower Rockies were 3°F or more above normal. Scattered showers were recorded in drought-stricken northern Texas and Oklahoma during the month, but were not enough to offset the worsening dryness. In Alabama and Mississippi, 7 or more inches of rain fell during the month. Similarly wet conditions were recorded along the northern Pacific Coast. Early in the month, snow fell across parts of the northern Great Plains and Midwest, which caused additional delays to fieldwork. By April 8, producers had planted 2 percent of the Nation's corn crop, 1 percentage point behind the previous year but equal to the 5-year average. Producers had planted 17 percent of the 2018 corn crop by April 29, fifteen percentage points behind the previous year and 10 percentage points behind the 5-year average. All States were behind their 5-year average planting pace, except Missouri and Texas, which had 52 and 70 percent planted, respectively. Cotton producers had planted 12 percent of the cotton crop by April 29, two percentage points behind both the previous year and the 5-year average. In Texas, 15 percent of the 2018 cotton crop was planted by April 29, two percentage points ahead of both the previous year and the 5-year average.

May: Average monthly temperatures were warmer than normal for much of the Nation. From the Mid-Atlantic, through the Great Lakes, to northern Texas, temperatures were 6°F or more above normal. Temperatures were similarly warm in the Northern Plains and northern Rockies. Precipitation was above normal in much of the Southeast, with nearly all of Florida receiving 7 or more inches of rain. Two or more inches of precipitation fell across much of the Rockies during the month, but the Colorado Basin remained dry. The drought in the Colorado Basin and southern Plains continued through the month, though conditions did improve in parts of Texas and Oklahoma. By May 13, sixty-two percent of the 2018 corn crop was planted, 6 percentage points behind the previous year and 1 percentage point behind the 5-year average. Twenty-eight percent of the Nation's corn crop had emerged by May 13, one percentage point behind the previous year but 1 percentage point ahead of the 5-year average. Nationally, 36 percent of the cotton crop was planted by May 13, five percentage points ahead of both the previous year and the 5-year average. Producers had planted 32 percent of the 2018 sorghum crop by May 13, equal to the previous year but 1 percentage point behind the 5-year average. By May 13, sixty-two percent of the barley crop was seeded, 12 percentage points behind both the previous year and the 5-year average. By May 27, seventy-seven percent of the Nation's soybean crop was planted, 12 percentage points ahead of the previous year and 15 percentage points ahead of the 5-year average. Ninety-one percent of the Nation's spring wheat crop was seeded by May 27, four percentage points behind the previous year but 2 percentage points ahead of the 5-year average.

June: Temperatures were warmer than average for much of the Nation, especially in the Great Plains and Rocky Mountains, where average temperatures for the month were 4°F or more above normal. Temperatures were also warmer

than normal in the Southeast for nearly all of the month. Despite the heat in many areas of the Nation, New England was cooler than average during the beginning of June but began to normalize as the month continued. Precipitation fell heaviest in the eastern half of the Country, where the ground was still damp from Subtropical Storm Alberto which moved through in late May. Rains in northern Texas and the Oklahoma Panhandle alleviated some of the drought conditions in those regions, though the Lower Rockies remain in an exceptional drought. The planting of the 2018 corn crop was mostly complete across the United States by June 3 with 97 percent planted, 2 percentage points ahead of both the previous year and the 5-year average. Over 96 percent of the corn crop was emerged in all estimating States except Michigan and Pennsylvania by June 17. Eighty-seven percent of the Nation's soybean crop was planted by June 3, six percentage points ahead of the previous year and 12 percentage points ahead of the 5-year average. Nationally, 95 percent of the soybean crop had emerged by June 24, two percentage points ahead of last year and 6 percentage points ahead of the 5-year average. By June 3, ninety-seven percent of the barley crop was seeded, one percentage point behind the previous year but 2 percentage points ahead of the 5-year average. Nationwide, 96 percent of the barley crop had emerged by June 17, equal to last year but one percentage point ahead of the 5-year average. Peanut planting advanced to 83 percent complete by June 3, six percentage points behind the previous year and 4 percentage points behind the 5-year average. The Nation's spring wheat was 81 percent emerged by June 3, seven percentage points behind the previous year but 1 percentage point ahead of the 5-year average. Ninety-five percent of the rice crop had emerged by June 3, five percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. Nationally, 96 percent of the cotton crop was planted by June 17, two percentage points ahead of both the previous year and the 5-year average. By June 24, ninety-five percent of the Nation's sorghum was planted, 1 percentage point ahead of the previous year and 4 percentage points ahead of the 5-year average.

July: Temperatures were cooler than average for parts of the Nation, especially in the Great Plains, where average temperatures for the month were 2°F or more below normal. Temperatures were also cooler than normal in the Midwest and Southeast for nearly all of the month. However, parts of the Southwest and New England were warmer than average for the month with temperatures 4°F or more above normal. Precipitation fell heaviest in the eastern half of the Nation, with some areas receiving 2 inches of rain or more. Heavy rainfall resulted in flash flooding in many areas along the Atlantic Coast. Rains in the Southwest alleviated some of the drought conditions in the region, though the southern Rockies remain in an exceptional drought. Nationally, 27 percent of the United States soybean acreage was at or beyond the blooming stage by July 1, ten percentage points ahead of the previous year and 14 percentage points ahead of the 5-year average. By July 29, sixty percent of the 2018 soybean crop was at or beyond the pod-setting stage, 15 percentage points ahead of the previous year and 19 percentage points ahead of the 5-year average. By July 1, fifty-eight percent of the spring wheat crop was at or beyond the heading stage, 2 percentage points ahead of the previous year and 10 percentage points ahead of the 5-year average. Heading of this year's oat crop advanced to 82 percent complete by July 1, one percentage point behind the previous year but 2 percentage points ahead of the 5-year average. Heading of the Nation's barley crop advanced to 50 percent complete by July 1, two percentage points ahead of the previous year but 1 percentage point behind the 5-year average. Thirty-two percent of the 2018 rice crop was at or beyond the heading stage by July 15, one percentage point ahead of the previous year and 3 percentage points ahead of the 5-year average. Nationally, 88 percent of the cotton was at or beyond the squaring stage by July 29, two percentage points ahead of the previous year but 1 percentage point behind the 5-year average. By July 29, bolls were setting on 49 percent of the Nation's cotton acreage, 4 percentage points ahead of the previous year and 1 percentage point ahead of the 5-vear average. Ninety-one percent of the corn acreage was at or beyond the silking stage by July 29, nine percentage points ahead of both the previous year and the 5-year average. By July 29, fifty-four percent of the Nation's sorghum was at or beyond the heading stage, 7 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. Eighty-six percent of the Nation's peanut acreage was pegging by July 29, equal to the previous year but 1 percentage point ahead of the 5-year average

August: Temperatures were cooler than average for parts of the Nation, especially in the Great Plains, where average temperatures for the month were 2°F or more below normal. Temperatures were also cooler than normal in the northern Rocky Mountains and Southeast for nearly all of the month. However, parts of the Southwest and New England were warmer than average for the month with temperatures 4°F or more above normal. Precipitation fell heaviest in the eastern half of the Nation, with some areas receiving 4 inches of rain or more. In contrast, much of the Pacific Coast and Southwest remained moderately to extremely dry, receiving less than 2 inches of rain. By August 5, ninety-six percent of the corn was at or beyond the silking stage, 4 percentage points ahead of both the previous year and the 5-year average. Nationally, 57 percent of the corn crop was at or beyond the dough stage by August 5, eighteen percentage points ahead of

the previous year and 20 percentage points ahead of the 5-year average. By August 12, barley producers had harvested 41 percent of the 2018 crop, 7 percentage points behind the previous year but 3 percentage points ahead of the 5-year average. Overall, 81 percent of the barley was reported in good to excellent condition on August 12, compared with 79 percent on August 5, and 49 percent at the same time in 2017. By August 19, spring wheat producers had harvested 60 percent of the Nation's crop, 5 percentage points ahead of the previous year and 16 percentage points ahead of the 5-year average. Overall, 74 percent of the spring wheat was reported in good to excellent condition on August 19, down 4 percentage points from July 29 but 40 percentage points higher than at the same time in 2017. Heading of the 2018 sorghum crop was 87 percent complete by August 19, four percentage points ahead of both the previous year and the 5-year average. The Nation's rice crop was 95 percent headed by August 19, equal to the previous year but 4 percentage points ahead of the 5-year average. Eighty percent of the oat crop was harvested by August 19, four percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. By August 12, ninety-six percent of the soybean crop was at or beyond the blooming stage, 3 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. Ninety-five percent of the Nation's soybeans were at or beyond the pod setting stage by August 26, three percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. Ninety-one percent of the Nation's cotton crop was at or beyond the boll setting stage by August 26, one percentage point behind the previous year but equal to the 5-year average.

September: Average monthly temperatures were generally above normal across the eastern United States with areas in the Southeast recording average temperatures 4°F above normal in September. Temperatures were cooler than normal in the northern Rocky Mountains, Pacific Northwest, northern California, and in parts of Texas and Nevada for nearly the entire month. Precipitation levels were normal across the United States, except in the Corn Belt, Gulf Coast, and along the Atlantic Coast where Hurricane Florence brought significant amounts of rainfall and wind. In mid-September, portions of North Carolina and South Carolina received significant precipitation from Hurricane Florence with some areas recording 10 to 30 inches during the month. Nationally, 75 percent of the corn crop was at or beyond the dent stage by September 2, seventeen percentage points ahead of the previous year and 15 percentage points ahead of the 5-year average. Seventy-two percent of the corn crop was mature by September 23, twenty-three percentage points ahead of the previous year and 19 percentage points ahead of the 5-year average. By September 9, ninety-two percent of the barley crop was harvested, 3 percentage points behind the previous year but equal to the 5-year average. Spring wheat producers had harvested 93 percent of the 2018 crop by September 9, one percentage point below the previous year but 8 percentage points ahead of the 5-year average. Oat producers had harvested 96 percent of the 2018 crop by September 9, one percentage point ahead of the previous year but equal to the 5-year average. Nationally, producers had harvested 49 percent of the 2018 rice crop by September 16, four percentage points behind the previous year but 2 percentage points ahead of the 5-year average. Overall, 74 percent of the rice crop was rated in good to excellent condition on September 16, compared with 75 percent on September 2, and 69 percent at the same time in 2017. Fifty-three percent of the 2018 soybean crop was at or beyond the leaf dropping stage by September 16, fifteen percentage points ahead of the previous year and seventeen percentage points ahead of the 5-year average. By September 16, eighty-eight percent of the sorghum crop was at or beyond the coloring stage, 5 percentage points ahead of both the previous year and the 5-year average. By September 23, producers had sown 28 percent of the Nation's 2019 winter wheat acreage, 6 percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. By September 23, fifty-eight percent of the 2018 cotton crop was at or beyond the boll opening stage. 3 percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average.

October: In early October, Hurricane Michael brought significant amounts of rainfall and wind resulting in significant precipitation totals in the Southeast with many areas recording more than 2 inches of rainfall. At the end of the month, remnants of tropical storm Willa transitioned to a Nor'easter in Texas, recording more than 8 inches of rainfall. As the storm continued moving east, it brought precipitation and cooler weather toward the East Coast. For the month of October precipitation levels were above normal along the Atlantic Coast, much of the Corn Belt, parts of the Delta, Great Plains, Rocky Mountains, and Southwest. Average monthly temperatures were generally below normal across the western half of the United States with areas in the northern Great Plains recording average temperatures 6°F below normal in October. Temperatures were warmer than normal in the Delta and Southeast for nearly the entire month. Soybean producers had harvested 38 percent of the Nation's crop by October 14, nine percentage points behind the previous year and 15 percentage points behind the 5-year average. Overall, 66 percent of the soybean crop was reported in good to excellent condition on October 14, five percentage points higher than at the same time in 2017. By October 14, forty-five percent of the Nation's peanut crop was harvested, four percentage points behind the previous year but 1 percentage point ahead of

the 5-year average. Overall, 58 percent of the peanut crop was reported in good to excellent condition on October 14, twelve percentage points lower than at the same time in 2017. By October 21, ninety percent of the rice crop was harvested, 7 percentage points behind the previous year and 4 percentage points behind the 5-year average. Sixty-three percent of the 2018 corn crop was harvested by October 28, 11 percentage points ahead of the previous year but equal to the 5-year average. Sorghum producers had harvested 53 percent of the crop by October 28, four percentage points behind the previous year and 13 percentage points behind the 5-year average. Producers had sown 78 percent of the 2019 winter wheat crop by October 28, five percentage points behind the previous year and 7 percentage points behind the 5-year average. Nationally, producers had harvested 44 percent of the cotton crop by October 28, one percentage point behind the previous year but 1 percentage point ahead of the 5-year average. Overall, 35 percent of the cotton crop was reported in good to excellent condition as of October 28, twenty percentage points below the same time in 2017. Producers had harvested 82 percent of the sugarbeet crop by October 28, three percentage points behind both the previous year and the 5-year average.

November: Average monthly temperatures were generally below normal across much of the Great Lakes, Great Plains, Midwest, Mississippi Valley, and New England, which recorded weekly average temperatures more than 4°F below normal, Conversely, warmer conditions prevailed in parts of the Pacific Northwest, California, and Florida with temperatures reaching more than 2°F above normal in some areas. Precipitation levels were above normal across the eastern United States with areas in the Mid-Atlantic, New England, and Southeast receiving more than 6 inches of rain. In contrast, much of the Great Plains, Pacific Northwest, Rocky Mountains, and the Southwest remained moderately to extremely dry, receiving less than an inch of rain. Eighty-nine percent of the 2019 winter wheat crop was sown by November 11, five percentage points behind both the previous year and the 5-year average. Nationally, winter wheat emergence had advanced to 77 percent complete by November 11, six percentage points behind both the previous year and the 5-year average. Fifty-five percent of the 2019 winter wheat crop was reported in good to excellent condition for the week ending November 25, compared with 50 percent rated in these two categories during the same week in 2017. By November 11, ninety-six percent of the Nation's sugarbeet crop was harvested, equal to both the previous year and the 5-year average. Producers had harvested 91 percent of the soybean acreage by November 18, five percentage points behind both the previous year and the 5-year average. Producers had harvested 86 percent of the 2018 peanut acreage by November 18, nine percentage points behind the previous year and 7 percentage points behind the 5-year average. Ninety-four percent of the 2018 corn crop was harvested by November 25, equal to the previous year but 2 percentage points behind the 5-year average. By November 25, eighty-nine percent of the 2018 sorghum crop was harvested, 5 percentage points behind both the previous year and the 5-year average. Producers had harvested 70 percent of the cotton crop by November 25, eight percentage points behind the previous year and 7 percentage points behind the 5-year average. By November 25, seventy-seven percent of the 2018 sunflower crop was harvested, 15 percentage points behind the previous year and 14 percentage points behind the 5-year average.

Crop Comments

Corn: Corn for grain production in the United States is estimated at 14.4 billion bushels, down 1 percent from the 2017 estimate. The average yield in the United States is estimated at 176.4 bushels per acre, 0.2 bushel below the 2017 record yield of 176.6 bushels per acre.

Estimated yields in 2018 are up from the previous year across most of the Northern Plains and Eastern Corn Belt. Record yields are estimated in Arizona, Idaho, Illinois, Indiana, Nebraska, Ohio, Utah, West Virginia, and Wyoming.

Corn planted area, at 89.1 million acres, was down 1 percent from 2017. Area harvested for grain was estimated at 81.7 million acres, down 1 percent from the 2017 estimate.

The 2018 corn objective yield data indicated the highest number of ears per acre on record for the combined 10 objective yield States (Iowa, Illinois, Indiana, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin). Record high ear counts were recorded in Illinois, Nebraska, Ohio, South Dakota, and Wisconsin.

Corn silage production was estimated at 121 million tons for 2018, down 5 percent from 2017. The United States silage yield was estimated at 19.9 tons per acre, down 0.1 ton from 2017. Area harvested for silage was estimated at 6.11 million acres, down 4 percent from a year ago.

By April 22, producers had planted 5 percent of the Nation's corn acreage, 10 percentage points behind last year and 9 percentage points behind the 5-year average. By April 29, producers had planted 17 percent of the Nation's corn acreage, 15 percentage points behind last year and 10 percentage points behind the 5-year average.

By May 13, producers had planted 62 percent of the Nation's corn, 6 percentage points behind last year and 1 percentage point behind the 5-year average. Twenty-eight percent of the Nation's corn acreage had emerged by May 13, one percentage point behind last year but 1 percentage point ahead of the 5-year average. Seventy-two percent of the Nation's corn acreage had emerged by May 27, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. As of May 27, seventy-nine percent of the Nation's corn acreage was rated in good to excellent condition, compared with 65 percent rated in these two categories at the same time last year.

By June 3, producers had planted 97 percent of the Nation's corn acreage, 2 percentage points ahead of both last year and the 5-year average. Five percent of the Nation's corn acreage had reached the silking stage by June 24, one percentage point ahead of last year and 2 percentage points ahead of the 5-year average. Seventy-seven percent of the Nation's corn was rated in good to excellent condition on June 24, ten percentage points above the same time last year.

Thirty-seven percent of the Nation's corn had reached the silking stage by July 8, nineteen percentage points ahead of both last year and the 5-year average. Eighty-one percent of the corn acreage was at or beyond the silking stage by July 22, eighteen percentage points ahead of last year and 19 percentage points ahead of the 5-year average. Eighteen percent of the Nation's corn acreage was at or beyond the dough stage by July 22, ten percentage points ahead of both last year and the 5-year average. By July 29, thirty-eight percent of the corn was at or beyond the dough stage, 17 percentage points ahead of last year and 18 percentage points ahead of average. Overall, 72 percent of the corn was reported in good to excellent condition on July 29, eleven percentage points above last year.

By August 5, ninety-six percent of the corn acreage was at or beyond the silking stage, 4 percentage points ahead of both last year and the 5-year average. By August 5, denting was evident in 12 percent of this year's acreage, 6 percentage points ahead of both last year and the 5-year average. Eighty-five percent of the Nation's corn acreage was at or beyond the dough stage by August 19, eleven percentage points ahead of last year and 13 percentage points ahead of the 5-year average. By August 26, sixty-one percent of this year's acreage was at or beyond the denting stage, 19 percentage points ahead of both last year and the 5-year average. Ten percent of the Nation's corn crop was mature by August 26, five percentage points ahead of both last year and the 5-year average.

Ninety-six percent of the Nation's corn acreage was at or beyond the dough stage by September 2, five percentage points ahead of both last year and the 5-year average. Thirty-five percent of the Nation's corn was mature by September 9, fifteen percentage points ahead of last year and 14 percentage points ahead of the five-year average. By September 23, ninety-seven percent of this year's acreage was at or beyond the denting stage, 5 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Corn harvested across the Nation was 16 percent complete by September 23, six percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Eighty-six percent of the Nation's corn acreage was mature by September 30, twenty percentage points ahead of last year and 15 percentage points ahead of the 5-year average. Overall, 69 percent of the corn acreage was reported in good to excellent condition, 6 percentage points higher than at the same time last year.

The U.S. corn harvest was 34 percent complete by October 7, thirteen percentage points ahead of last year and 8 percentage points ahead of average. Ninety-six percent of the Nation's corn acreage was mature by October 14, seven percentage points ahead of last year and 5 percentage points ahead of the 5-year average. The Nation's corn harvest was 49 percent complete by October 21, twelve percentage points ahead of last year and 2 percentage points ahead of the 5-year average.

The Nation's corn harvest was 84 percent complete by November 11, three percentage points ahead of last year but 3 percentage points behind the 5-year average. By November 18, the Nation's corn harvest was 90 percent complete, 1 percentage point ahead of last year but 3 percentage points behind the 5-year average. By November 25, the Nation's corn harvest was 94 percent complete, unchanged from last year but 2 percentage points behind the 5-year average.

Sorghum: Grain production in 2018 was estimated at 365 million bushels, up 1 percent from the 2017 total. Planted area for 2018 was estimated at 5.69 million acres, up 1 percent from the previous year. Area harvested for grain, at 5.06 million acres, was up less than 1 percent from 2017. Grain yield was estimated at 72.1 bushels per acre, up 0.4 bushel from 2017. A record high yield was estimated in Illinois.

Silage production was estimated at 3.33 million tons, down 12 percent from 2017. Area harvested for silage was estimated at 264,000 acres, down 6 percent from the previous year. Silage yield averaged 12.6 tons per acre, down 0.8 ton per acre from 2017.

Oats: Production in 2018 was estimated at 56.1 million bushels, up 13 percent from 2017. Yield was estimated at 64.9 bushels per acre, up 3.2 bushels from the previous year. Harvested area, at 865,000 acres, was 8 percent above the previous year. Record low acres were harvested in Arkansas, California, Georgia, Idaho, Iowa, Maine, Oregon, Pennsylvania, and South Carolina.

The largest increases in production from 2017 occurred in the Dakotas where yields were up from the previous year, as a result of last year's drought. A record high yield was estimated in North Dakota.

Nationally, oat producers had seeded 26 percent of this year's acreage by April 1, two percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Producers had seeded 56 percent of the 2018 acreage by May 6, twenty-one percentage points behind the previous year and 18 percentage points behind the 5-year average. Eighty-two percent of the oat acreage was emerged by May 27, eight percentage points behind the previous year and 4 percentage points behind the 5-year average. Heading of the oat acreage advanced to 82 percent complete by July 1, one percentage point behind the previous year but 2 percentage points ahead of the 5-year average. Oat producers had harvested 38 percent of the acreage by July 29, five percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average in 6 of the 9 weekly *Crop Progress* estimating States. Eighty-nine percent of the Nation's oat acreage was harvested by August 26, four percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average.

Barley: Production was estimated at 153 million bushels, up 8 percent from the 2017 total of 142 million bushels. Average yield, at 77.4 bushels per acre, was up 4.4 bushels from the previous year. Producers seeded 2.54 million acres in 2018, up 2 percent from 2017. Harvested area, at 1.98 million acres, was up 1 percent from 2017.

Four percent of the Nation's barley was planted by April 8, four percentage points behind the previous year and 8 percentage points behind the 5-year average. Planting progress was behind the historical pace in all estimating States. Nationwide, barley producers had seeded 26 percent of the Nation's acreage by April 29, five percentage points behind the previous year and 18 percentage points behind the 5-year average. All estimating States remained behind their 5-year average planting pace at the end of April. By April 29, emergence was evident in 7 percent of the Nation's barley acreage, 6 percentage points behind the previous year and 10 percentage points behind the 5-year average. Nationally, 97 percent of the barley acreage was sown by June 3, slightly behind the previous year but 2 percentage points ahead of the 5-year average. Eighty-two percent of the barley acreage had emerged by June 3, one percentage point behind both the previous year and the 5-year average. Heading of the Nation's barley acreage advanced to 50 percent complete by July 1, two percentage points ahead of the previous year but 1 percentage point behind the 5-year average. By July 29, barley producers had harvested 2 percent of the Nation's acreage, 3 percentage points behind the previous year and 4 percentage points behind the 5-year average. Overall, 81 percent of the barley acreage was reported in good to excellent condition on August 12, compared with 49 percent at the same time the previous year. At that time, barley condition ratings in the good and excellent categories were 54 percentage points above the previous year in Washington and 45 percentage points above in Montana. By September 9, ninety-two percent of the barley acreage was harvested, 3 percentage points behind the previous year but equal to the 5-year average.

All wheat: Production totaled 1.88 billion bushels in 2018, up 8 percent from the 2017 total of 1.74 billion bushels. Area harvested for grain totaled 39.6 million acres, up 5 percent from the previous year. The United States yield was estimated at 47.6 bushels per acre, up 1.3 bushels from the previous year. The levels of production and changes from 2017 by type were: winter wheat, 1.18 billion bushels, down 7 percent; other spring wheat, 623 million bushels, up 50 percent; and Durum wheat, 77.3 million bushels, up 41 percent.

Winter wheat: Winter wheat production for 2018 totaled 1.18 billion bushels, down 7 percent from the 2017 total of 1.27 billion bushels. The United States yield, at 47.9 bushels per acre, was down 2.3 bushels from 2017. Area harvested for grain was estimated at a record low 24.7 million acres, down 2 percent from the previous year. Record high yields were estimated in Louisiana, Montana, and Nevada for 2018.

Harvested acreage was down from 2017 in most of the major Hard Red Winter (HRW) growing States, the primary winter wheat producing area. As a result of the decreased harvested acreage and lower yields in 2018, HRW production totaled 662 million bushels, down 12 percent from 2017.

In the Soft Red Winter (SRW) growing area, planted and harvested acreage decreased from 2017 across the region. SRW production totaled 286 million bushels, down 3 percent from 2017.

White winter production totaled 236 million bushels, up 4 percent from the previous year. Harvested acreage in the Pacific Northwest (Idaho, Oregon, and Washington) was up less than 1 percent from 2017. Yields were up from last year throughout the region.

Planting of the 2018 winter wheat acreage began the first week of September, 2017 with progress limited to Colorado, Kansas, Montana, Nebraska, and Washington. By October 1, producers had sown 36 percent of the Nation's 2018 winter wheat acreage, 5 percentage points behind the previous year and 7 percentage points behind the 5-year average. Nationwide, 12 percent of the winter wheat acreage was emerged by October 1, six percentage points behind the previous year and 4 percentage points behind the 5-year average. Emergence was at or behind the 5-year average in 14 of the 18 *Crop Progress* estimating States as of October 1.

Sixty percent of the 2018 winter wheat acreage was sown by October 15, ten percentage points behind the previous year and 11 percentage points behind the 5-year average. Nationally, emergence had advanced to 37 percent complete by October 15, eight percentage points behind the previous year and 6 percentage points behind the 5-year average. Producers had sown 84 percent of the 2018 winter wheat acreage by October 29, slightly behind the previous year and 3 percentage points behind the 5-year average. Idaho was the first State to complete planting. Fifty-two percent of the acreage was reported to be in good to excellent condition on October 29, six percentage points below the same time the previous year.

Ninety-five percent of the 2018 winter wheat acreage was sown by November 12, slightly ahead of the previous year, but equal to the 5-year average. Nationally, emergence had advanced to 84 percent complete by November 12, slightly ahead of both the previous year and the 5-year average. By November 26, emergence was 92 percent complete, equal to both the previous year and the 5-year average. Fifty percent of the 2018 winter wheat acreage was reported in good to excellent condition for the week ending November 26, compared with 58 percent rated in these two categories during the same week the previous year.

On December 31, the majority of the winter wheat acreage in estimating States was estimated to be in fair to good condition. In Kansas, cold, dry conditions caused 75 percent of the acreage to be reported in fair to good condition, 4 percentage points below the same time the previous year.

During the last week of January, the majority of the winter wheat acreage in estimating States was estimated to be in fair to good condition. Drought conditions in Kansas persisted, leading to 55 percent of the State's winter wheat acreage to be rated in fair to good condition, a decrease of 30 percentage points from December. Only 1 percent of Kansas' winter wheat acreage was rated in excellent condition at that time, down from 3 percent in December. Oklahoma's winter wheat acreage appeared to be in the worst condition, with 79 percent of the 2018 acreage rated in poor to very poor condition.

Throughout February, conditions remained similar to the previous month for most of the United States. Winter wheat conditions in Kansas, as of the last week of February, declined as drought conditions persisted; 50 percent of the Kansas' winter wheat acreage was rated in fair to good condition, a decrease of 5 percentage points from the end of January. Only 1 percent of Kansas' winter wheat acreage was rated in excellent condition, unchanged from the previous month.

Oklahoma's winter wheat acreage remained in the worst condition, with 78 percent of the 2018 acreage rated in very poor to poor condition, down 1 percentage point from January.

On April 1, thirty-two percent of the 2018 winter wheat acreage was reported in good to excellent condition, compared with 51 percent at the same time last year. By April 15, nine percent of the Nation's winter wheat acreage had reached the headed stage, 9 percentage points behind the previous year and 1 percentage point behind the 5-year average. At that same time, 31 percent of the 2018 winter wheat acreage was reported in good to excellent condition, 23 percentage points below the same time last year. In Kansas, the largest winter wheat-producing State, 12 percent of the winter wheat acreage was rated in good to excellent condition. By April 29, nineteen percent of the Nation's winter wheat acreage had reached the headed stage, 22 percentage points behind the previous year and 11 percentage points behind the 5-year average. On April 29, thirty-three percent of the 2018 winter wheat acreage was reported in good to excellent condition, 21 percentage points below the previous year.

Sixty-one percent of the Nation's winter wheat acreage had reached the headed stage by May 20, ten percentage points behind the previous year and 3 percentage points behind the 5-year average. By June 3, eighty-three percent of the Nation's winter wheat acreage had reached the heading stage, 3 percentage points behind the previous year but equal to the 5-year average. Five percent of the 2018 winter wheat acreage was harvested by June 3, four percentage points behind the previous year but 1 percentage point ahead of the 5-year average. By June 17, ninety-five percent of the winter wheat acreage had reached the heading stage, 1 percentage point behind the previous year but equal to the 5-year average. Twenty-seven percent of the winter wheat acreage was harvested by June 17, one percentage point ahead of last year and 8 percentage points ahead of the 5-year average.

Fifty-one percent of the winter wheat acreage was harvested by July 1, equal to the previous year but 2 percentage points ahead of the 5-year average. In Kansas, 71 percent of the State's winter wheat acreage was harvested by July 1, two percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. On July 1, thirty-seven percent of the winter wheat acreage was reported in good to excellent condition, 11 percentage points below the same time last year. Sixty-three percent of the 2018 winter wheat acreage was harvested by July 8, two percentage points behind last year but 2 percentage points ahead of the 5-year average. In Kansas, 92 percent of the State's winter wheat acreage was harvested by July 8, two percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Seventy-four percent of the 2018 winter wheat acreage was harvested by July 15, equal to last year but 3 percentage points ahead of the 5-year average. With drier conditions across the Nation during the week ending July 15, winter wheat harvest advanced 20 percentage points or more in California, Colorado, Michigan, and Nebraska. By July 29, producers had harvested 85 percent of the 2018 winter wheat acreage, 2 percentage points behind last year and 1 percentage point behind the 5-year average. Winter wheat harvest was complete or nearing completion in 11 of the 18 *Crop Progress* estimating States by the end of July.

Ninety percent of the 2018 winter wheat acreage was harvested by August 5, three percentage points behind last year and 2 percentage points behind the 5-year average. Winter wheat harvest progressed quickly in Idaho, Montana, Oregon, and Washington, advancing 21 percentage points or more during the week ending August 5. Only 4 of the 18 *Crop Progress* estimating States had harvested less than 90 percent of the winter wheat acreage by August 5. Ninety-four percent of the 2018 winter wheat acreage was harvested by August 12, three percentage points behind last year and 2 percentage points behind the 5-year average. Winter wheat harvest was complete or nearing completion in all estimating States, except Idaho, Montana, and Washington. Ninety-seven percent of the 2018 winter wheat acreage was harvested by August 19, one percentage point behind both last year and the 5-year average. Winter wheat harvest was nearing completion in all States, except Montana and Washington. These two States were behind their 5-year average pace by 6 and 5 percentage points, respectively.

Other spring wheat: Production for 2018 was estimated at 623 million bushels, up 50 percent from the 2017 total of 416 million bushels. Harvested area totaled 12.9 million acres, up 27 percent from 2017. The United States yield was estimated at a record high 48.3 bushels per acre, 7.3 bushels above 2017. Record high yields were estimated in Idaho and North Dakota for 2018. Of the total production, 587 million bushels were Hard Red Spring wheat, up 53 percent from the revised 2017 total.

Seeding of the 2018 spring wheat acreage began in early April. By April 29, ten percent of the spring wheat acreage was seeded, 20 percentage points behind the previous year and 26 percentage points behind the 5-year average. Spring wheat planting progress was behind the 5-year average pace in all estimating States, except Washington, which had planted 78 percent of the intended acreage by April 29, thirty-one percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average.

Four percent of the Nation's spring wheat acreage had emerged by May 6, fifteen percentage points behind the previous year and 18 percentage points behind the 5-year average. By June 3, ninety-seven percent of the spring wheat acreage was seeded, 2 percentage points behind the previous year but 3 percentage points ahead of the 5-year average. Eighty-one percent of the Nation's spring wheat had emerged by June 3, seven percentage points behind the previous year and 1 percentage point behind the 5-year average. Seventy percent of the Nation's spring wheat acreage was rated in good to excellent condition on June 3, fifteen percentage points above the same time last year.

By June 17, nine percent of the spring wheat acreage was headed, 5 percentage points behind the previous year and 3 percentage points behind the 5-year average. By July 1, fifty-eight percent of the spring wheat acreage had reached the heading stage, 2 percentage points ahead of the previous year and 10 percentage points ahead of the 5-year average. Seventy-seven percent of the Nation's spring wheat was rated in good to excellent condition on July 1, forty percentage points above the same time last year.

By July 22, ninety-six percent of the Nation's spring wheat acreage was at or beyond the heading stage, 1 percentage point ahead of the previous year and 3 percentage points ahead of the 5-year average. Four percent of the spring wheat acreage was harvested by July 29, four percentage points behind last year but equal to the 5-year average. In South Dakota, 35 percent of the 2018 spring wheat was harvested, 8 percentage points behind last year but 14 percentage points ahead of the 5-year average. Seventy-eight percent of the spring wheat acreage was reported in good to excellent condition on July 29, forty-seven percentage points above the same time last year.

By August 19, sixty percent of the Nation's spring wheat acreage was harvested, 5 percentage points ahead of last year and 16 percentage points ahead of the 5-year average. Seventy-four percent of the spring wheat acreage was reported in good to excellent condition as of August 19, forty percentage points above the same time last year. As of September 2, eighty-seven percent of the Nation's spring wheat acreage was harvested, equal to last year but 12 percentage points ahead of the 5-year average.

Durum wheat: Production for 2018 was estimated at 77.3 million bushels, up 41 percent from the 2017 total of 54.8 million bushels. Area harvested for grain totaled 1.97 million acres, down 7 percent from the previous year. The United States yield was estimated at 39.3 bushels per acre, up 13.3 bushels from the 2017 yield. Production in North Dakota, the largest Durum-producing State, was up 48 percent from 2017. By late July, harvest in Montana was underway. Producers in North Dakota had harvested 9 percent of the State's acreage by August 12.

Rice: Production in 2018 totaled 224 million cwt, up 26 percent from the 2017 total. Planted area for 2018 was estimated at 2.95 million acres, up 20 percent from 2017. Area harvested, at 2.92 million acres, was up 23 percent from the previous crop year. The average yield for all United States rice was estimated at 7,692 pounds per acre, up 185 pounds from the 2017 average yield of 7,507 pounds per acre.

In all States, higher prices contributed to the increase in rice acres compared with the previous crop year.

Yields increased from the previous year in all States except Mississippi. A record high yield and production was estimated in Missouri.

Rye: Production for 2018 was estimated at 8.43 million bushels, down 18 percent from the 2017 total of 10.3 million bushels. Harvested area totaled 273,000 acres, down 27,000 acres from 2017. The United States yield, at 30.9 bushels per acre, was down 3.3 bushels from the previous year.

Proso millet: Production of proso millet in 2018 totaled 12.0 million bushels, compared with the 14.9 million bushels produced in 2017. Area planted to proso millet in the United States was estimated at 443,000 acres, down 35,000 acres

from 2017. Area harvested in the United States, at 403,000 acres, was unchanged from 2017. The average yield for 2017 was estimated at 29.8 bushels per acre, down 7.1 bushels from 2017.

All hay: Production of all dry hay for 2018 was estimated at 124 million tons, down 4 percent from the revised 2017 total. Area harvested was estimated at 52.8 million acres, up less than one percent from 2017. The average yield, at 2.34 tons per acre, was down 0.09 ton from the previous year.

Alfalfa and alfalfa mixtures: Production in 2018 was estimated at 52.6 million tons, down 6 percent from the revised 2017 total. Harvested area, at 16.6 million acres, was 2 percent below the previous year. Average yield was estimated at 3.17 tons per acre, down 0.11 ton from 2017.

The top three States for alfalfa acreage (Montana, North Dakota, and South Dakota) did produce more alfalfa hay than last year due to improved moisture over the drought conditions of 2017. However, many other regions of the country had lower production. The Four Corners States dealt with dry conditions throughout much of 2018, while the Ohio River Valley struggled to find periods of dry weather to make hay.

Record high yields were estimated in Nebraska and North Carolina.

All other hay: Production in 2018 totaled 71.0 million tons, down 2 percent from the revised 2017 total. Harvested area, at 36.2 million acres, was up 1 percent from the previous year. Average yield was estimated at 1.96 tons per acre, down 0.06 ton from 2017.

The top three States for other hay acreage (Texas, Oklahoma, and Missouri) all reported lower yields than last year due to patches of dry conditions that persisted throughout much of the growing season.

Record high yields were estimated in Alabama, California, Connecticut, Florida, Kentucky, Nebraska, New York, and North Carolina.

Forage: In 2018, 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 2018 all haylage and greenchop production for the 17 States in the forage program was 29.6 million tons, of which 19.1 million tons were from alfalfa and alfalfa mixtures. The 17 State total for all forage production was 79.8 million tons. Of this total, 41.9 million tons were produced from alfalfa and alfalfa mixtures.

New seedings of alfalfa and alfalfa mixtures: Growers seeded 2.22 million acres of alfalfa and alfalfa mixtures during 2018, up less than 1 percent from 2017. The new seedings of alfalfa and alfalfa mixtures will normally be harvested for the first time in the year following planting.

Peanuts: Production was estimated at 5.46 billion pounds, down 23 percent from 2017. Planted area was estimated at 1.43 million acres, down 24 percent from 2017. Harvested area was estimated at 1.37 million acres, down 23 percent from 2017. The average yield was estimated at 3,991 pounds per acre, down 16 pounds from 2017.

Planted area for peanuts was estimated at its lowest level since 2014. Harvested area decreased in all States from last year. Production in 2018 was down from the previous year in all estimating States. In Georgia, growers realized the lowest production since 2016.

Canola: Production in 2018 was estimated at a record 3.62 billion pounds, up 18 percent from 2017. The average yield, at a record high 1,861 pounds per acre, up 335 pounds from the 2017 average yield. Planted area was estimated at 1.99 million acres, 4 percent below the previous year's acreage. Harvested area, at 1.94 million acres, was down 3 percent from 2017.

Production in North Dakota, the leading canola-producing State, was estimated at 3.10 billion pounds. This was up 24 percent from the previous year and a record high production for North Dakota. Planted and harvested area in North

Dakota were both record highs.

The average yield in North Dakota was the highest on record at 1,960 pounds per acre.

Sunflower: The 2018 sunflower production totaled 2.12 billion pounds, down 1 percent from 2017. The United States average yield per acre of 1,731 pounds increased 128 pounds from 2017. The average yield was a record high for the United States. Planted area, at 1.30 million acres, was 7 percent below the previous year. Area harvested decreased 8 percent from 2017 to 1.22 million acres.

South Dakota, the leading sunflower-producing State during 2018, produced 975 million pounds, a decrease of 4 percent from 2017. Compared with 2017, planted area in South Dakota decreased 8 percent but yield increased 105 pounds to 1,840 pounds per acre. Meanwhile, production in North Dakota increased 5 percent primarily due to average yield, which increased 6 percent from the previous year. The average yield in North Dakota increased 95 pounds from 2017 to 1,760 pounds per acre.

United States production of oil-type sunflower varieties, at 1.90 billion pounds, increased 3 percent from 2017. Compared with the previous year, harvested acres were down 6 percent but the average yield increased by 144 pounds to 1,726 pounds per acre.

Production of non-oil sunflower varieties was estimated at 220 million pounds, a decrease of 24 percent from 2017. Area harvested, at 123,500 acres, was down 25 percent from 2017, and was the lowest on record since 1975. The average yield increased by 31 pounds from 2017 to 1,781 pounds per acre and represented the second highest yield on record for non-oil varieties.

Harvest of sunflowers began in early October and progressed mostly behind normal throughout October in the four major States. As of October 28, thirty-three percent of the crop was harvested, 17 percentage points behind the previous year and 12 percentage points behind the 5-year average. By November 25, harvest progress had reached 77 percent complete Nationally, 15 percentage points behind the previous year and 14 percentage points behind the 5-year average to the 5-year average.

Soybeans: Production in 2018 totaled a record 4.54 billion bushels, up 3 percent from 2017. The average yield was estimated at 51.6 bushels per acre, 2.3 bushels above 2017, but 0.3 bushel below the record yield in 2016. Planted area for the Nation, 89.2 million acres, was down 1 percent from the 2017 planted acreage. Soybean growers harvested 88.1 million acres, down 2 percent from last year.

Record high yields occurred in Arkansas, Illinois, Indiana, Mississippi, New York, and Ohio.

The 2018 soybean objective yield survey data indicated that final average pod counts were higher than last year in the combined eleven objective yield States. Compared with final counts for 2017, pod counts were up in 8 of the 11 published States. An increase of more than 200 pods per 18 square feet from 2017's final pod count occurred in Illinois, Indiana, Iowa, Nebraska, Ohio, and South Dakota.

Nationwide, 2 percent of the soybean acreage was planted by April 22, three percentage points behind last year but equal to the 5-year average. Planting was most advanced in the Delta at that time, with Mississippi at 30 percent, Louisiana at 26 percent, and Arkansas at 21 percent planted, respectively. On May 6, fifteen percent of the soybeans were planted, 2 percentage points ahead of both last year and the 5-year average. By May 13, ten percent of the Nation's soybean acreage had emerged, 3 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Nationally, 47 percent of the soybean acreage was emerged by May 27, thirteen percentage points ahead of last year and 15 percentage points ahead of the 5-year average. By June 17, ninety-seven percent of the soybean acreage was planted with 90 percent emerged.

As of August 5, seventy-five percent of the soybean acreage was setting pods, 12 percentage points ahead of last year and 17 percentage points ahead of the 5-year average. Ninety-one percent of the acreage was at or beyond the pod setting stage on August 19, five percentage points ahead of last year and 8 percentage points ahead of the 5-year average. By

September 2, sixteen percent of the soybean acreage was at or beyond the leaf dropping stage, 6 percentage points ahead of last year and 7 percentage points ahead of the 5-year average.

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

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

Flaxseed: Production of flaxseed in 2018 totaled 4.47 million bushels, up 16 percent from the previous year. Harvested area totaled 198,000 acres in 2018, down 27 percent from the previous year. Harvested acreage in North Dakota, the largest flaxseed-producing State, was estimated at 158,000 acres, down 31 percent from 2017. The average United States yield for 2018, at 22.6 bushels per acre, was up 8.5 bushels from 2017. North Dakota's estimated yield at 24 bushels per acre was a record high in 2018.

Safflower: Production of safflower in 2018, at 236 million pounds, was up 34 percent from 2017. Growers planted 167,500 acres in 2018, an increase of 2 percent from 2017. Harvested area, at 156,400 acres, was up 8 percent from the previous year. Average yield, at 1,511 pounds per acre, increased 299 pounds from 2017.

Other Oilseeds: Mustard seed production for 2018 increased 24 percent from the previous year to 73.1 million pounds. This represents the fifth largest production for the Nation. Planted area, at 102,500 acres, was down just 500 acres from 2017. Harvested area, at 97,500 acres, was up 2 percent, or 2,100 acres, from last year. Planted and harvested acreage represented the fifth and forth highest area for the Nation, respectively, since records began in 1991. The average yield, at 750 pounds per acre, was 133 pounds above the 2017 average yield.

Rapeseed production was estimated at 8.2 million pounds, down 55 percent from last year's production level. Growers planted 5,700 acres of rapeseed in 2018, a decline of 4,600 acres from 2017. Harvested area, at 5,400 acres, was down 4,500 acres from last year. The average yield in 2018 was 1,524 pounds per acre, a decrease of 319 pounds from 2017.

Cotton: Upland cotton production was estimated at 17.6 million 480-pound bales, down 13 percent from the previous year. The United States yield for Upland cotton is estimated at 821 pounds per acre, down 74 pounds from 2017. Upland planted area, estimated at 13.9 million acres, was up 11 percent from last year. Harvested area, at 10.3 million acres, was down 5 percent from the previous year.

In the Southeast States (Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia), planting was completed by the end of June with some re-planting necessary due to rainy weather at the end of May. High temperatures helped the crop progress and the yields were looking very promising until Hurricane Florence hit the Carolinas in September. In October, Hurricane Michael hit Florida and Georgia, which were forecasting promising yields before the storm. The crop was in mostly good to excellent condition throughout the growing season where the hurricanes did not hit.

In the Delta region, planting was complete by mid-June. Some areas within the region struggled with excessive moisture throughout the season. Continued wet soils slowed harvest near the end of November into early December.

In Texas, a significant portion of the region's dryland crop did not make it to harvest. A string of days well above the 100-degree mark, coupled with the continued lack of measurable rainfall caused conditions to worsen in already suffering dryland fields. Kansas planted a record amount of acres and Oklahoma planted the most since 1956.

American Pima producers planted 249,000 acres in 2018, down 1 percent from 2017. Harvested area, at 247,500 acres, was down 1 percent from the previous year. Production was estimated at 794 thousand 480-pound bales, up 14 percent from 2017. The United States yield is estimated at 1,540 pounds per acre, up 199 pounds from the previous year.

Ginnings totaled 16,662,700 running bales prior to February 1, compared with 18,653,900 running bales ginned prior to the same date last year.

Cottonseed: Production for 2018, based on a 3-year average lint-seed ratio, is expected to total 5.79 million tons, down 10 percent from last year.

Tobacco: United States all tobacco production for 2018 was estimated at 533 million pounds, down 25 percent from the previous year. Growers harvested 291,430 acres, down 9 percent from a year earlier. Yield per acre averaged 1,830 pounds, down 379 pounds per acre from 2017.

Flue-cured tobacco production was estimated at 339 million pounds, down 26 percent from the previous year. Harvested acres totaled 197,800 in 2018, six percent below a year earlier. Average yield, at 1,712 pounds per acre, was down 487 pounds from 2017. North Carolina growers reported widespread damage from hurricane Florence, resulting in a large number of failed acres and reduced yield.

Burley production totaled 100 million pounds, down 38 percent from the previous year. Growers harvested 61,050 acres, down 25 percent from 2017. Reported yields averaged 1,645 pounds per acre, down 332 pounds from a year earlier. Kentucky growers reported wet conditions in September, which led to bacterial leaf drop, putting downward pressure on yields.

Sugarbeets: Production for 2018 was estimated at 33.1 million tons, down 6 percent from the previous year's revised production. Growers in the 11 major sugarbeet-producing States planted 1.11 million acres, down 2 percent from the 2017 revised area. Harvested area, at 1.10 million acres, was down 2 percent from the previous year. Estimated yield, at 30.3 tons per acre, was down 1.4 tons from last year.

Sugarcane: Production of sugarcane for sugar and seed in 2018 was estimated at 34.8 million tons, of which 32.8 million tons were utilized for sugar and 1.93 million tons for seed. Total production for sugar and seed was up 5 percent from 2017. Sugarcane producers harvested 908,200 acres for sugar and seed in 2018, up slightly from the previous year. Yield for sugar and seed was estimated at 38.3 tons per acre, up 1.5 tons from 2017.

Dry beans: United States dry edible bean production was estimated at 37.5 million cwt for 2018, up 4 percent from the previous year. Planted area was estimated at 2.08 million acres, down 1 percent from 2017. Harvested area was estimated at 2.02 million acres, down fractionally from the previous year. The average United States yield was 1,860 pounds per acre, an increase of 82 pounds from 2017 and the third highest on record.

In North Dakota, planting was virtually complete by June 17, ahead of the 5-year average. As of September 30, harvest was 91 complete, well ahead of a normal pace. In Michigan, dry bean planting ended up being slightly behind schedule, not finishing until mid-July. Many growers reported an excellent crop and State yield is a record high.

Lentils: Production of lentils was estimated at 8.41 million cwt, up 12 percent from the previous year. Planted area, at 780,000 acres, was down 29 percent from a year earlier, while harvested acreage, at 718,000 acres, was down 30 percent from 2017. Despite these declining acres in 2018, both planted and harvested acreage were at the third highest level on record. Average yield was 1,171 pounds per acre, up 439 pounds from last season's record low. Yield was up from a year earlier in all four Program States: Idaho, Montana, North Dakota, and Washington.

In Montana, plantings began late as spring precipitation persisted and many fields had standing water until the final week of May. The crop was 91 percent planted by the week ending May 27. By the week ending September 16, the crop was 96 percent harvested. In North Dakota, by September 23, ninety-seven percent of the crop was harvested, ahead of the 5-year average of 87 percent.

Wrinkled seed peas: Production was estimated at 389,000 cwt in 2018, up 9 percent from 2017. Washington and Idaho production increased by 10 and 7 percent, respectively from the previous year.

Dry edible peas: Production of dry edible peas was estimated at 15.9 million cwt, up 12 percent from the previous year. Planted area, at 856,500 acres, and harvested area, at 807,900 acres, decreased by 24 percent and 23 percent, respectively. Average United States yield, at 1,972 pounds per acre, was up 622 pounds from the previous year's drought-reduced crop.

In Montana, plantings began late as spring precipitation persisted and many fields had standing water until late May. The crop was 96 percent planted by the week ending June 3. Harvest began in mid-July and by the week ending September 9, the crop was 95 percent harvested. In North Dakota, by September 2, ninety-seven percent was harvested.

Austrian winter peas: United States production was estimated at 124,000 cwt, up 24 percent from the previous year. Planted area was estimated at 16,400 acres, down 36 percent from a year earlier. This is the lowest planted area since 2001. Area harvested totaled 10,900 acres, up 36 percent from 2017. United States yield, at 1,138 pounds per acre, was down 112 pounds from a year earlier.

All potatoes: Total 2018 United States potato production was estimated at 454 million cwt, up 1 percent from the 2017 crop. Harvested area, at 1.02 million acres, was down 2 percent from the previous year. The average yield, at a record high 444 cwt per acre, was up 12 cwt from the previous year.

Spring potatoes: Production for 2018 was estimated at 17.8 million cwt, down 18 percent from the 2017 crop. Harvested area totaled 51,800 acres, down 17 percent from a year earlier. The average yield of 343 cwt per acre was down 7 cwt from last year's record high.

Summer potatoes: Production of summer potatoes was estimated at 16.3 million cwt, down 27 percent from 2017. Harvested area was estimated at 52,900 acres, 22 percent below the previous year. Average yield was estimated at 308 cwt per acre, down 23 cwt from 2017.

Fall potatoes: Production of fall potatoes for 2018 was estimated at 420 million cwt, up 3 percent from the previous year. Area harvested, at 918,600 acres, was up slightly from 2017. The average yield was estimated at a record high 458 cwt per acre, up 13 cwt from the previous year.

Idaho had good weather for growing potatoes in 2018. Even though the summer became hot and dry, earlier weather conditions combined with irrigation created nearly ideal potato growing conditions, which produced record high yields. Washington had hot, dry weather from May to August and pushed the state to abnormally dry conditions. Some late blight problems were also reported in Northern Washington which negatively impacted yields.

Sweet potatoes: Production of sweet potatoes in 2018 totaled 27.4 million cwt, down 23 percent from 2017. Growers harvested 144,400 acres, down 9 percent from the previous year. Yield per acre, at 190 cwt, was down 34 cwt from the record high in 2017.

Growers in North Carolina, the largest sweet potato-producing State, endured two hurricanes last year. Hurricane Florence hit in the beginning of September which brought flooding to the fields, and then in early October hurricane Michael brought additional flooding. Abandoned acreage was up from previous years and the yield was lower as a result of the late season flooding. Spring rainfall and snowmelt runoff during the drought like conditions of the summer enabled California growers to achieve a record yield and production. Arkansas producers had record setting yields as well.

Peppermint oil: Production in 2018 totaled 5.38 million pounds, down 6 percent from the previous year. Harvested area was estimated at 58,500 acres, down 4 percent from 2017. Average yield was estimated at 92 pounds of oil per acre, down 3 pounds from a year earlier.

Spearmint oil: Production totaled 2.57 million pounds in 2018, down 8 percent from the previous year. Harvested area was estimated at 20,800 acres, down 1,500 acres from a year earlier. Average yield was estimated at 124 pounds of oil per

acre, down 1 pound from 2017.

Hops: Production for Idaho, Oregon, and Washington in 2018 totaled a record high 107 million pounds, up 1 percent from the 2017 crop of 106 million pounds. Combined area harvested for Idaho, Oregon, and Washington in 2018 totaled a record high 55,035 acres, up 2 percent from the 2017 level of 53,989 acres. Harvested acreage increased in Idaho and Washington, but declined in Oregon. The United States hop yield, at 1,943 pounds per acre, declined 13 pounds from a year ago.

Washington produced 73 percent of the United States hop crop for 2018; while Idaho accounted for 15 percent and Oregon accounted for 12 percent. Cascade, Citra^R, Zeus, Centennial, Simcoe^R, and C/T/Z^R were the six leading varieties in Washington, accounting for 49 percent of the State's hop production. In Idaho, Zeus, Chinook, Amarillo^R, Cascade, Citra^R, and Mosaic^R were the major varieties, accounting for 70 percent of the State's hop production. In Oregon, Nugget, Cascade, Willamette, and Citra^R were the major varieties, accounting for 52 percent of the State's hop production.

Maple syrup: The 2018 United States maple syrup production totaled 4.16 million gallons, down 5 percent from the previous year. The number of taps was estimated at 13.7 million, down 4 percent from the 2017 total. Yield per tap was estimated to be 0.304 gallon, down 2 percent from the previous season.

Taro: Hawaii taro production for the 2018 crop year totaled 2.99 million pounds, down 19 percent from the previous year. Harvested area, at 310 acres, was down 40 acres from 2017. Yield for 2018 was 9,630 pounds per acre, down 900 pounds per acre the previous year. Area harvested decreased and yield declined due to reported crop damage from flooding rains on Kauai. Also during the 2018 crop season, Hawaii had 8 different disaster declarations. This resulted in both the lowest harvested acres and production in the data series history, which began in 1946.

Statistical Methodology

Survey procedures: The estimates in this report are based primarily on surveys conducted the first two weeks of December. The December Agricultural Survey (DAS) is a probability survey that includes a sample of approximately 82,000 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 2018 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 1.5 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 3.0 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@nass.usda.gov

Lance Honig, Chief, Crops Branch	(202) 720-2127
Travis Thorson, Head, Field Crops Section	(202) 720-2127
David Colwell – Current Agricultural Industrial Reports	
Chris Hawthorn – Corn, Flaxseed, Proso Millet	
James Johanson – County Estimates, Hay	
Jeff Lemmons – Oats, Soybeans	
Sammy Neal – Peanuts, Rice	
Jannety Mosley – Crop Weather, Barley	
Jean Porter – Rye, Wheat	
Chris Singh – Cotton, Cotton Ginnings, Sorghum	
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369
Jorge Garcia-Pratts, Head, Fruits, Vegetables and Special Crops Section	(202) 720-2127
Pears, Strawberries, Tomatoes	(202) 720 2157
Fleming Gibson – Avocados, Cauliflower, Celery, Citrus, Coffee, Dates,	(202) 720-2137
Figs, Kiwifruit, Nectarines, Olives, Green Peas, Taro, Watermelons	(202) 720-5412
Cucumbers, Potatoes, Pumpkins, Raspberries, Squash, Sugarbeets,	
Sugarcane, Sweet Potatoes	(202) 720-4285
Dan Norris - Artichokes, Austrian Winter Peas, Cantaloupes, Dry Beans,	
Dry Edible Peas, Honeydews, Lentils, Mushrooms, Peaches, Snap Beans	(202) 720-3250
Daphne Schauber – Bell Peppers, Broccoli, Cabbage, Chile Peppers,	
Floriculture, Grapes, Hops, Maple Syrup, Tree Nuts, Spinach	(202) 720-4215
Joshua Bates - Apples, Asparagus, Carrots, Lima Beans, Onions,	
Plums, Prunes, Sweet Corn, Tobacco	(202) 720-4288

Access to NASS Reports

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

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

The U.S. Department of Agriculture (USDA) prohibits discrimination against its customers, employees, and applicants for employment on the basis of race, color, national origin, age, disability, sex, gender identity, religion, reprisal, and where applicable, political beliefs, marital status, familial or parental status, sexual orientation, or all or part of an individual's income is derived from any public assistance program, or protected genetic information in employment or in any program or activity conducted or funded by the Department. (Not all prohibited bases will apply to all programs and/or employment activities.)

If you wish to file a Civil Rights program complaint of discrimination, complete the <u>USDA Program Discrimination</u> <u>Complaint Form</u> (PDF), found online at <u>www.ascr.usda.gov/filing-program-discrimination-complaint-usda-customer</u>, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.



USDA's 95th Annual

Agricultural Outlook Forum

Growing Locally, Selling Globally



February 21-22, 2019

Crystal Gateway Marriott Hotel, Arlington, Virginia www.usda.gov/oce/forum

Follow us on Social Media (#AgOutlook)





@USDA | 📵 @usdagov | 🚺 @USDA

