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National Agricultural Statistics Service

Crop Production
2021 Summary

January 2022

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Special Note

To assist users with interpreting the harvested acreage estimates for corn and soybeans, the following table provides estimates of the portion of the total harvested acreage that was left to be harvested when the survey was conducted. These estimates are based on data provided by respondents who were contacted between November 29 and December 19.

Corn and Soybean Area Planted, Harvested, and Left to be Harvested, – United States 2020 and 2021

Crop	Planted		Harvested[1]		Left to be Harvested
	2020	2021	2020	2021	2021
	(1,000 acres)	*(1,000 acres)*	*(1,000 acres)*	*(1,000 acres)*	*(1,000 acres)*
Corn[2]	90,652	93,357	81,313	85,388	683
Soybeans	83,354	87,195	82,603	86,332	518

[1] Includes acres left to be harvested.
[2] Planted for all purposes; harvested for grain.

Corn for grain production in 2021 was estimated at 15.1 billion bushels, up 7 percent from the 2020 estimate. The average yield in the United States was estimated at a record high 177.0 bushels per acre, 5.6 bushels above the 2020 yield of 171.4 bushels per acre. Area harvested for grain was estimated at 85.4 million acres, up 4 percent from the 2020 estimate.

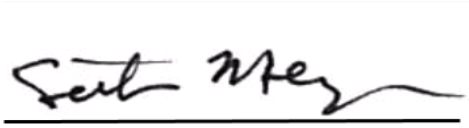
Sorghum: Grain production in 2021 was estimated at 448 million bushels, up 20 percent from the 2020 total. Planted area for 2021 was estimated at 7.31 million acres, up 24 percent from the previous year. Area harvested for grain, at 6.49 million acres, was up 27 percent from 2020. Grain yield was estimated at 69.0 bushels per acre, down 4.2 bushels from 2020.

Rice: Production in 2021 totaled 192 million cwt, down 16 percent from the 2020 total. Planted area for 2021 was estimated at 2.53 million acres, down 17 percent from 2020. Area harvested, at 2.49 million acres, was down 17 percent from the previous crop year. The average yield for all United States rice was estimated at a record high 7,709 pounds per acre, up 90 pounds from the 2020 average yield of 7,619 pounds per acre.

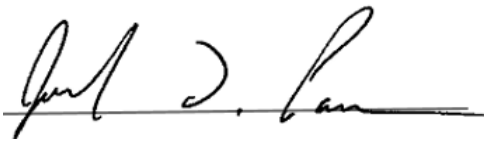
Soybean production in 2021 totaled a record 4.44 billion bushels, up 5 percent from 2020. The average yield per acre was estimated at 51.4 bushels, up 0.4 bushel from 2020. Harvested area was up 5 percent from 2020 to 86.3 million acres.

All cotton production is estimated at 17.6 million 480-pound bales, up 21 percent from 2020. The United States yield is estimated at 849 pounds per acre, up 2 pounds from last year. Harvested area, at 9.97 million acres, is up 20 percent from last year.

This report was approved on January 12, 2022.



Secretary of Agriculture
Designate
Seth Meyer



Agricultural Statistics Board
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Principal Crops Area Planted and Harvested – States and United States: 2019-2021

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

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	2,115	2,130	2,130	2,045	2,049	2,048
Alaska	28	28	25	27	27	24
Arizona	637	579	598	628	571	593
Arkansas	6,603	6,891	7,020	6,427	6,763	6,883
California	2,983	2,660	2,393	2,567	2,223	1,996
Colorado	6,091	5,746	6,235	5,799	5,029	5,754
Connecticut	70	70	70	68	68	68
Delaware	435	440	422	415	412	388
Florida	1,079	1,097	1,084	1,060	1,079	1,068
Georgia	3,359	3,368	3,393	3,135	3,178	3,193
Idaho	4,111	4,112	4,041	3,956	3,961	3,875
Illinois	21,590	22,720	22,830	21,210	22,485	22,565
Indiana	11,250	11,950	11,930	11,070	11,860	11,830
Iowa	23,935	24,380	24,390	23,619	23,763	24,132
Kansas	23,313	23,519	24,421	22,467	22,699	23,780
Kentucky	5,712	6,074	6,080	5,552	5,879	5,890
Louisiana	3,024	3,088	3,055	2,949	3,034	3,012
Maine	228	226	238	221	218	228
Maryland	1,556	1,554	1,537	1,346	1,306	1,322
Massachusetts	65	74	69	62	72	66
Michigan	5,552	6,359	6,377	5,347	6,250	6,245
Minnesota	18,350	19,354	19,471	17,834	18,978	19,031
Mississippi	3,822	4,009	4,238	3,720	3,939	4,130
Missouri	12,827	13,408	13,644	12,367	13,141	13,299
Montana	9,981	9,920	9,334	9,381	9,584	7,948
Nebraska	19,177	19,780	19,810	18,778	19,471	19,453
Nevada	450	333	355	447	333	354
New Hampshire	61	55	55	60	54	53
New Jersey	282	305	299	272	296	290
New Mexico	833	745	775	550	498	468
New York	2,591	2,616	2,754	2,504	2,549	2,674
North Carolina	4,400	4,322	4,399	4,273	4,119	4,228
North Dakota	23,223	20,905	24,085	21,243	20,315	22,794
Ohio	8,595	9,945	9,945	8,340	9,785	9,785
Oklahoma	9,390	9,196	9,553	7,386	7,035	7,674
Oregon	1,913	1,920	1,813	1,881	1,875	1,769
Pennsylvania	3,686	4,042	3,740	3,495	3,787	3,384
Rhode Island	7	7	9	7	7	9
South Carolina	1,428	1,400	1,477	1,358	1,344	1,426
South Dakota	13,816	15,531	16,693	13,214	15,134	15,956
Tennessee	4,836	4,851	4,963	4,716	4,736	4,833
Texas	21,516	21,876	22,796	16,597	14,598	17,540
Utah	908	946	867	888	921	843
Vermont	241	252	245	237	247	237
Virginia	2,609	2,636	2,505	2,474	2,490	2,356
Washington	3,560	3,681	3,720	3,487	3,603	3,600
West Virginia	567	591	569	565	590	567
Wisconsin	7,625	8,110	8,149	7,068	7,608	7,632
Wyoming	1,504	1,433	1,280	1,456	1,370	1,242
United States [1]	303,073	310,407	317,163	284,712	291,487	298,695

[1] States do not add to United States due to rye unallocated acreage.

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Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2019-2021

State	Area planted for all purposes			Area harvested for grain		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	320	330	355	305	320	345
Arizona	90	75	95	37	29	18
Arkansas	770	620	850	735	605	830
California	480	440	420	60	60	50
Colorado	1,550	1,420	1,380	1,300	1,060	1,150
Connecticut [1]	23	24	24	(NA)	(NA)	(NA)
Delaware	185	180	175	180	176	172
Florida	95	100	95	54	61	66
Georgia	395	420	480	350	390	445
Idaho	390	390	380	150	130	120
Illinois	10,500	11,300	11,000	10,200	11,100	10,850
Indiana	5,000	5,400	5,400	4,820	5,250	5,270
Iowa	13,500	13,600	12,900	13,050	12,900	12,450
Kansas	6,400	6,100	5,700	6,020	5,720	5,400
Kentucky	1,550	1,470	1,550	1,450	1,360	1,440
Louisiana	570	500	580	545	485	565
Maine [1]	29	30	30	(NA)	(NA)	(NA)
Maryland	510	480	470	460	430	425
Massachusetts [1]	14	14	14	(NA)	(NA)	(NA)
Michigan	2,000	2,350	2,350	1,610	1,990	1,990
Minnesota	7,800	8,000	8,400	7,250	7,510	7,840
Mississippi	660	510	730	620	490	700
Missouri	3,200	3,450	3,600	2,990	3,280	3,430
Montana	115	115	120	60	61	60
Nebraska	10,100	10,200	9,900	9,810	9,890	9,560
Nevada [1]	15	13	15	(NA)	(NA)	(NA)
New Hampshire [1]	12	13	13	(NA)	(NA)	(NA)
New Jersey	77	80	78	68	73	72
New Mexico	150	125	120	48	37	39
New York	1,020	1,030	1,050	545	500	585
North Carolina	990	990	960	930	940	905
North Dakota	3,500	1,950	4,100	3,130	1,780	3,630
Ohio	2,800	3,550	3,550	2,570	3,300	3,340
Oklahoma	370	360	340	330	320	295
Oregon	85	100	95	49	65	55
Pennsylvania	1,450	1,500	1,330	1,060	1,000	990
Rhode Island [1]	2	2	2	(NA)	(NA)	(NA)
South Carolina	380	390	400	350	370	380
South Dakota	4,350	4,900	6,150	3,870	4,450	5,480
Tennessee	970	860	1,020	910	815	960
Texas	2,500	2,250	2,150	2,150	1,810	1,850
Utah	85	85	70	26	29	19
Vermont [1]	81	85	85	(NA)	(NA)	(NA)
Virginia	540	560	520	380	420	370
Washington	175	195	165	90	85	85
West Virginia	52	51	51	38	38	38
Wisconsin	3,800	3,950	4,000	2,670	2,930	3,040
Wyoming	95	95	95	67	54	79
United States	89,745	90,652	93,357	81,337	82,313	85,388

See footnote(s) at end of table.

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Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2019-2021 (continued)

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	147.0	158.0	163.0	44,835	50,560	56,235
Arizona	231.0	202.0	181.0	8,547	5,858	3,258
Arkansas	175.0	184.0	184.0	128,625	111,320	152,720
California	168.0	187.0	188.0	10,080	11,220	9,400
Colorado	123.0	116.0	129.0	159,900	122,960	148,350
Connecticut [1]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Delaware	161.0	160.0	184.0	28,980	28,160	31,648
Florida	161.0	138.0	176.0	8,694	8,418	11,616
Georgia	160.0	180.0	182.0	56,000	70,200	80,990
Idaho	205.0	199.0	210.0	30,750	25,870	25,200
Illinois	181.0	191.0	202.0	1,846,200	2,120,100	2,191,700
Indiana	169.0	187.0	195.0	814,580	981,750	1,027,650
Iowa	198.0	177.0	205.0	2,583,900	2,283,300	2,552,250
Kansas	133.0	134.0	139.0	800,660	766,480	750,600
Kentucky	169.0	184.0	192.0	245,050	250,240	276,480
Louisiana	165.0	181.0	183.0	89,925	87,785	103,395
Maine [1]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Maryland	161.0	155.0	175.0	74,060	66,650	74,375
Massachusetts [1]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Michigan	147.0	153.0	174.0	236,670	304,470	346,260
Minnesota	173.0	191.0	178.0	1,254,250	1,434,410	1,395,520
Mississippi	174.0	180.0	181.0	107,880	88,200	126,700
Missouri	155.0	171.0	160.0	463,450	560,880	548,800
Montana	95.0	109.0	100.0	5,700	6,649	6,000
Nebraska	182.0	180.0	194.0	1,785,420	1,780,200	1,854,640
Nevada [1]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Hampshire [1]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Jersey	155.0	156.0	163.0	10,540	11,388	11,736
New Mexico	135.0	195.0	184.0	6,480	7,215	7,176
New York	158.0	157.0	167.0	86,110	78,500	97,695
North Carolina	111.0	113.0	149.0	103,230	106,220	134,845
North Dakota	131.0	139.0	105.0	410,030	247,420	381,150
Ohio	164.0	171.0	193.0	421,480	564,300	644,620
Oklahoma	137.0	135.0	150.0	45,210	43,200	44,250
Oregon	237.0	241.0	240.0	11,613	15,665	13,200
Pennsylvania	153.0	138.0	169.0	162,180	138,000	167,310
Rhode Island [1]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
South Carolina	106.0	132.0	139.0	37,100	48,840	52,820
South Dakota	144.0	162.0	135.0	557,280	720,900	739,800
Tennessee	177.0	170.0	170.0	161,070	138,550	163,200
Texas	133.0	128.0	128.0	285,950	231,680	236,800
Utah	143.0	149.0	179.0	3,718	4,321	3,401
Vermont [1]	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Virginia	144.0	122.0	160.0	54,720	51,240	59,200
Washington	237.0	228.0	248.0	21,330	19,380	21,080
West Virginia	165.0	144.0	144.0	6,270	5,472	5,472
Wisconsin	166.0	173.0	180.0	443,220	506,890	547,200
Wyoming	123.0	122.0	132.0	8,241	6,588	10,428
United States	167.5	171.4	177.0	13,619,928	14,111,449	15,115,170

(NA) Not available.

[1] Area harvested for grain not estimated.

Corn for Silage Area Harvested, Yield, and Production – States and United States: 2019-2021

State	Area harvested			Yield per acre			Production		
	2019	2020	2021	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	7	5	5	13.0	16.0	18.0	91	80	90
Arizona	50	45	76	29.0	29.0	28.0	1,450	1,305	2,128
Arkansas	7	6	5	16.0	15.0	20.0	112	90	100
California	415	375	365	27.0	27.0	28.0	11,205	10,125	10,220
Colorado	175	230	180	24.0	23.0	24.5	4,200	5,290	4,410
Connecticut	21	22	22	21.0	16.0	17.0	441	352	374
Delaware	4	4	3	23.0	19.0	21.0	92	76	63
Florida	35	35	25	20.0	19.0	24.0	700	665	600
Georgia	25	25	25	22.0	18.0	22.0	550	450	550
Idaho	235	260	260	28.0	29.0	29.0	6,580	7,540	7,540
Illinois	170	110	80	20.0	20.0	20.0	3,400	2,200	1,600
Indiana	110	130	110	20.0	21.0	22.0	2,200	2,730	2,420
Iowa	360	260	340	22.0	20.5	21.0	7,920	5,330	7,140
Kansas	250	250	240	17.5	19.5	18.0	4,375	4,875	4,320
Kentucky	80	95	90	21.0	20.0	19.0	1,680	1,900	1,710
Louisiana	3	3	3	19.0	17.0	16.0	57	51	48
Maine	26	27	25	19.0	19.0	21.0	494	513	525
Maryland	40	40	35	22.0	17.0	20.0	880	680	700
Massachusetts	11	12	11	20.0	16.0	17.0	220	192	187
Michigan	340	350	340	18.5	17.5	20.5	6,290	6,125	6,970
Minnesota	460	420	450	19.0	23.0	19.0	8,740	9,660	8,550
Mississippi	7	7	8	15.0	14.0	17.0	105	98	136
Missouri	70	100	70	16.0	17.0	15.0	1,120	1,700	1,050
Montana	50	51	48	23.0	21.0	18.0	1,150	1,071	864
Nebraska	200	260	260	23.0	19.0	19.5	4,600	4,940	5,070
Nevada	12	13	14	25.0	26.0	26.0	300	338	364
New Hampshire	11	12	11	20.0	20.0	21.0	220	240	231
New Jersey	7	6	5	22.0	20.0	20.0	154	120	100
New Mexico	93	79	80	20.0	21.0	26.0	1,860	1,659	2,080
New York	445	520	450	18.0	18.0	19.0	8,010	9,360	8,550
North Carolina	50	40	35	18.0	14.0	18.0	900	560	630
North Dakota	140	145	250	19.5	15.5	7.5	2,730	2,248	1,875
Ohio	170	200	160	19.0	21.0	20.0	3,230	4,200	3,200
Oklahoma	20	20	25	13.0	14.0	12.0	260	280	300
Oregon	35	34	39	24.0	23.0	23.0	840	782	897
Pennsylvania	380	485	300	20.0	19.0	21.0	7,600	9,215	6,300
Rhode Island	2	2	2	20.0	13.0	21.0	40	26	42
South Carolina	13	9	12	14.0	15.0	19.0	182	135	228
South Dakota	340	360	500	17.5	18.0	12.0	5,950	6,480	6,000
Tennessee	40	35	35	20.0	18.0	19.0	800	630	665
Texas	280	270	250	20.0	18.0	21.0	5,600	4,860	5,250
Utah	55	52	47	24.0	23.0	24.0	1,320	1,196	1,128
Vermont	77	80	77	18.0	19.0	19.0	1,386	1,520	1,463
Virginia	135	120	120	19.0	17.0	17.0	2,565	2,040	2,040
Washington	85	110	80	23.0	26.0	25.0	1,955	2,860	2,000
West Virginia	12	12	11	20.0	19.0	18.0	240	228	198
Wisconsin	1,040	960	890	17.5	21.0	21.5	18,200	20,160	19,135
Wyoming	22	25	12	24.0	20.0	23.0	528	500	276
United States	6,615	6,711	6,481	20.2	20.5	20.1	133,522	137,675	130,317

Corn for Grain Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in 10 corn producing States during 2021. Randomly selected plots in corn for grain fields were visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are rounded actual field counts from this survey.

Corn for Grain Plant Population per Acre – Selected States: 2017-2021

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Illinois					
September	30,800	32,000	31,100	30,600	31,550
October	30,900	32,000	30,950	30,400	31,550
November	30,950	32,000	30,900	30,400	31,500
Final	30,950	32,000	30,900	30,400	31,500
Indiana					
September	29,550	30,450	29,300	29,850	29,700
October	29,350	30,400	29,050	29,800	29,650
November	29,200	30,400	29,000	29,850	29,750
Final	29,200	30,400	28,950	29,850	29,750
Iowa					
September	31,300	31,350	30,850	31,050	31,850
October	31,150	31,150	30,800	31,000	31,850
November	31,150	31,100	30,750	31,050	31,800
Final	31,150	31,100	30,750	31,050	31,800
Kansas					
September	22,050	22,600	21,350	21,700	22,050
October	22,100	22,450	21,200	21,650	21,550
November	22,300	22,450	21,200	21,650	21,800
Final	22,300	22,450	21,200	21,650	21,800
Minnesota					
September	30,750	30,950	30,700	31,750	30,750
October	30,550	30,900	30,650	31,800	30,700
November	30,600	30,900	30,550	31,800	30,700
Final	30,600	30,900	30,650	31,800	30,700
Missouri					
September	27,850	28,500	28,200	28,200	27,250
October	27,850	28,400	27,500	28,150	27,400
November	27,950	28,400	27,600	28,200	27,350
Final	27,950	28,400	27,600	28,200	27,350

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Nebraska					
All corn					
September	25,950	27,100	25,850	27,450	26,750
October	25,800	26,750	25,850	27,450	26,650
November	25,700	26,750	25,700	27,400	26,650
Final	25,700	26,750	25,700	27,400	26,650
Irrigated					
September	29,050	30,300	28,300	29,950	29,350
October	29,000	29,900	28,350	30,100	29,300
November	28,750	29,900	28,300	30,100	29,300
Final	28,750	29,900	28,300	30,100	29,300
Non-irrigated					
September	22,500	23,350	23,300	24,950	24,050
October	22,200	23,100	23,250	24,750	24,000
November	22,250	23,150	23,000	24,700	23,950
Final	22,250	23,150	23,000	24,700	23,950
Ohio					
September	29,250	30,550	30,050	29,800	30,400
October	29,150	30,400	30,100	29,900	30,050
November	29,100	30,400	30,000	29,900	30,050
Final	29,100	30,400	30,000	29,850	30,050
South Dakota					
September	26,250	27,000	26,400	25,450	26,150
October	26,200	26,750	26,100	25,400	26,100
November	26,200	27,000	26,000	25,550	25,750
Final	26,200	27,000	25,900	25,550	25,750
Wisconsin					
September	29,450	31,000	30,250	30,300	29,900
October	29,100	30,600	30,150	30,400	29,550
November	29,150	30,650	29,750	30,300	29,400
Final	29,100	30,650	29,850	30,300	29,400
10 State					
September	28,800	29,500	28,650	29,000	29,100
October	28,700	29,350	28,500	28,950	29,000
November	28,700	29,400	28,450	28,950	29,000
Final	28,700	29,350	28,450	28,950	29,000

Corn for Grain Number of Ears per Acre – Selected States: 2017-2021

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Illinois					
September	30,200	31,550	30,300	29,900	31,100
October	30,300	31,500	30,300	29,800	31,050
November	30,250	31,500	30,150	29,800	31,050
Final	30,250	31,500	30,150	29,800	31,050
Indiana					
September	28,900	30,000	28,900	29,600	29,700
October	29,100	29,800	28,700	29,600	29,750
November	28,850	29,750	28,650	29,600	29,900
Final	28,850	29,750	28,600	29,600	29,900
Iowa					
September	30,600	31,150	30,250	30,600	31,750
October	30,600	30,900	30,200	30,450	31,800
November	30,600	30,800	30,100	30,550	31,800
Final	30,600	30,800	30,100	30,550	31,800
Kansas					
September	22,800	22,350	21,550	22,050	22,250
October	22,600	21,650	22,250	21,250	21,450
November	22,650	21,700	22,200	21,250	21,700
Final	22,650	21,700	22,200	21,250	21,700
Minnesota					
September	30,750	30,850	30,050	31,750	30,800
October	30,850	30,850	29,800	31,850	30,650
November	30,850	30,800	29,650	31,850	30,600
Final	30,600	30,800	29,700	31,850	30,600
Missouri					
September	27,750	27,400	26,950	27,650	26,900
October	27,800	27,300	26,950	27,600	26,950
November	27,850	27,300	27,100	27,650	26,950
Final	27,850	27,300	27,100	27,650	26,950

State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)
Nebraska					
All corn					
September	25,800	27,100	25,850	26,800	26,650
October	26,050	26,750	25,950	26,850	26,950
November	25,950	26,800	25,700	26,750	26,800
Final	25,950	26,800	25,700	26,750	26,800
Irrigated					
September	28,650	29,950	28,200	28,900	29,000
October	28,950	29,350	28,150	28,850	29,600
November	28,750	29,300	28,000	28,800	29,500
Final	28,750	29,300	28,000	28,800	29,500
Non-irrigated					
September	22,600	23,850	23,500	24,650	24,250
October	22,800	23,650	23,700	24,800	24,200
November	22,900	23,850	23,400	24,700	24,050
Final	22,900	23,850	23,400	24,700	24,050
Ohio					
September	29,500	30,750	29,850	29,350	30,650
October	29,250	30,300	29,750	29,700	30,350
November	29,150	30,300	29,550	29,700	30,350
Final	29,150	30,300	29,550	29,650	30,350
South Dakota					
September	26,250	28,100	26,450	25,550	26,250
October	26,150	27,750	25,300	25,550	26,150
November	26,200	27,950	25,000	25,700	25,400
Final	25,850	28,050	24,900	25,700	25,400
Wisconsin					
September	28,950	30,700	29,850	30,050	30,100
October	28,800	30,450	30,250	30,400	29,500
November	28,600	30,450	29,850	30,350	29,400
Final	28,550	30,450	29,950	30,350	29,400
10-State					
September	28,550	29,350	28,200	28,650	29,050
October	28,550	29,100	28,200	28,600	28,950
November	28,500	29,100	28,050	28,600	28,850
Final	28,450	29,100	28,050	28,600	28,850

Corn for Grain Percentage Distribution by Plant Population per Acre – Selected States: 2017-2021

State and year	Plant populations					
	Less than 20,000	20,000-22,500	22,501-25,000	25,001-27,500	27,501-30,000	More than 30,000
	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)	(Percent)
Illinois 2017	0.5	1.4	3.8	11.5	20.6	62.2
2018	-	0.9	1.4	6.6	15.6	75.5
2019	0.9	2.8	3.7	9.3	18.7	64.6
2020	0.6	1.9	5.8	13.5	16.0	62.2
2021	1.6	0.8	1.6	7.1	19.0	69.9
Indiana 2017	5.7	4.9	6.5	13.0	21.1	48.8
2018	1.5	0.8	2.3	10.7	27.5	57.2
2019	5.6	5.6	5.6	11.1	24.1	48.0
2020	1.3	3.8	5.1	12.8	19.2	57.8
2021	1.6	1.6	6.3	14.3	25.4	50.8
Iowa 2017	1.3	3.4	2.1	5.9	13.5	73.8
2018	0.4	1.7	3.3	6.3	19.2	69.1
2019	0.8	0.8	3.8	9.0	21.1	64.5
2020	-	-	4.3	9.4	21.7	64.6
2021	-	1.6	2.4	5.5	12.6	77.9
Kansas 2017	24.3	21.2	17.2	21.2	12.1	4.0
2018	33.0	12.4	12.4	14.4	7.2	20.6
2019	39.9	8.0	12.0	14.7	14.7	10.7
2020	30.1	14.5	12.7	13.6	16.4	12.7
2021	26.3	13.1	24.2	15.2	9.1	12.1
Minnesota 2017	2.8	4.7	5.6	7.5	12.1	67.3
2018	-	1.7	8.7	6.1	13.9	69.6
2019	1.4	4.2	8.3	2.8	25.0	58.3
2020	-	0.8	2.3	3.8	19.5	73.6
2021	1.1	4.3	2.2	4.3	28.3	59.8
Missouri 2017	1.9	1.0	15.5	26.2	26.2	29.2
2018	2.2	6.5	8.6	20.4	28.0	34.3
2019	2.8	8.3	16.7	22.2	16.7	33.3
2020	2.7	0.9	10.9	22.7	32.8	30.0
2021	2.6	5.3	14.5	18.4	44.7	14.5
Nebraska 2017	16.8	6.3	12.6	19.4	17.8	27.1
2018	12.0	4.9	7.1	16.4	25.1	34.5
2019	15.1	12.3	12.3	17.9	19.8	22.6
2020	10.8	8.8	8.8	8.8	23.0	39.8
2021	15.8	2.5	14.2	14.2	20.0	33.3
Ohio 2017	2.7	4.4	7.1	15.0	25.7	45.1
2018	1.0	3.9	3.9	7.8	23.5	59.9
2019	-	4.3	4.3	12.8	19.1	59.5
2020	-	-	14.4	13.6	26.3	45.7
2021	2.3	1.1	4.6	9.2	32.2	50.6
South Dakota 2017	8.1	13.5	16.2	16.2	25.7	20.3
2018	7.4	12.6	11.6	18.9	21.1	28.4
2019	9.3	7.0	23.3	23.3	30.1	7.0
2020	13.7	9.6	21.9	21.9	13.7	19.2
2021	14.5	1.8	21.8	25.5	20.0	16.4
Wisconsin 2017	4.0	2.7	6.7	20.0	21.3	45.3
2018	2.0	2.0	-	7.9	19.8	68.3
2019	-	-	9.4	15.6	25.0	50.0
2020	1.4	1.4	8.1	6.8	23.0	59.3
2021	1.5	4.5	4.5	10.6	28.8	50.1

- Represents zero.

Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2017-2021

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois 2017	6	210	4	1	-
2018	9	211	-	-	-
2019	2	110	1	-	-
2020	8	148	2	-	-
2021	3	127	-	-	-
Indiana 2017	7	117	-	-	-
2018	9	126	1	1	-
2019	4	53	1	-	-
2020	2	79	1	-	-
2021	1	63	-	-	-
Iowa 2017	2	236	3	3	-
2018	12	234	2	1	-
2019	3	136	-	1	-
2020	9	140	5	3	-
2021	4	126	2	-	-
Kansas 2017	2	106	2	-	-
2018	10	91	-	-	-
2019	9	70	-	-	-
2020	2	110	-	-	-
2021	14	91	-	-	-
Minnesota 2017	27	89	2	-	-
2018	21	97	3	2	-
2019	15	63	3	1	-
2020	25	109	-	1	-
2021	22	73	-	1	-
Missouri 2017	3	101	5	2	-
2018	5	90	1	2	1
2019	5	30	1	2	-
2020	7	99	-	5	-
2021	2	72	1	5	-
Nebraska 2017	2	169	23	2	-
2018	6	160	25	-	-
2019	3	98	15	-	-
2020	2	138	15	-	-
2021	-	108	20	-	-
Ohio 2017	2	109	1	1	-
2018	3	100	-	-	-
2019	2	45	1	-	-
2020	5	113	-	-	-
2021	3	83	1	-	-
South Dakota 2017	6	75	1	1	-
2018	8	92	2	2	-
2019	5	45	-	1	-
2020	11	62	2	2	-
2021	3	55	2	-	-
Wisconsin 2017	4	83	5	1	-
2018	4	108	4	2	-
2019	1	39	-	-	-
2020	3	78	1	2	-
2021	2	71	2	2	-

- Represents zero.

Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2017-2021

State and year	Samples	Row width (inches)						Average row width
		20.5 or less	20.6-30.5	30.6-34.5	34.6-36.5	36.6-38.5	38.6 or greater	
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)
Illinois 2017	209	1.4	85.1	12.0	0.5	0.5	0.5	30.1
2018	212	1.9	87.7	10.4	-	-	-	29.9
2019	107	-	83.2	15.9	0.9	-	-	30.2
2020	156	2.6	85.2	10.9	-	1.3	-	29.8
2021	126	1.6	80.1	18.3	-	-	-	30.0
Indiana 2017	123	2.4	78.9	17.9	0.8	-	-	29.8
2018	131	6.1	71.7	19.8	0.8	0.8	0.8	29.8
2019	54	1.9	77.7	18.5	-	1.9	-	30.2
2020	78	1.3	80.7	16.7	-	1.3	-	30.2
2021	63	1.6	79.4	19.0	-	-	-	30.1
Iowa 2017	237	0.8	76.4	19.0	0.4	3.0	0.4	30.4
2018	239	3.8	77.4	17.2	0.8	0.8	-	29.9
2019	133	1.5	78.1	18.8	0.8	0.8	-	30.0
2020	138	2.9	79.7	11.6	2.9	2.9	-	30.1
2021	127	3.9	82.7	12.6	0.8	-	-	29.7
Kansas 2017	99	2.0	75.8	21.2	-	-	1.0	30.1
2018	97	3.1	76.3	20.6	-	-	-	29.7
2019	75	4.0	81.3	14.7	-	-	-	29.9
2020	110	1.8	78.2	20.0	-	-	-	29.7
2021	99	3.0	83.9	13.1	-	-	-	29.9
Minnesota 2017	107	4.7	81.4	8.4	0.9	3.7	0.9	28.9
2018	115	1.7	82.6	11.3	2.6	0.9	0.9	29.3
2019	72	5.6	72.1	18.1	4.2	-	-	29.0
2020	133	-	84.9	14.3	-	-	0.8	28.9
2021	92	3.3	88.0	7.6	-	1.1	-	28.5
Missouri 2017	103	1.9	66.1	25.2	3.9	1.0	1.9	30.4
2018	93	1.1	76.2	18.3	2.2	1.1	1.1	30.1
2019	36	2.8	74.9	13.9	2.8	5.6	-	30.2
2020	110	5.5	80.9	10.9	-	2.7	-	29.6
2021	76	2.6	76.3	13.2	1.3	6.6	-	30.5
Nebraska 2017	191	-	70.7	15.7	9.4	4.2	-	31.0
2018	183	1.6	65.6	15.3	12.6	4.9	-	31.2
2019	106	1.9	71.7	14.2	11.3	0.9	-	30.8
2020	148	-	67.6	23.0	7.4	2.0	-	30.8
2021	120	-	69.2	15.8	14.2	0.8	-	30.9
Ohio 2017	113	0.9	83.2	15.0	0.9	-	-	30.0
2018	102	2.9	79.5	17.6	-	-	-	29.9
2019	47	4.3	87.2	6.4	2.1	-	-	29.8
2020	118	1.7	88.1	10.2	-	-	-	29.9
2021	87	3.4	82.9	12.6	1.1	-	-	29.9
South Dakota 2017	74	8.1	62.1	28.4	-	1.4	-	29.6
2018	95	5.3	69.4	20.0	2.1	2.1	1.1	30.0
2019	43	4.7	67.4	25.6	-	2.3	-	30.0
2020	73	5.5	72.6	15.1	2.7	1.4	2.7	29.8
2021	55	1.8	76.4	14.5	1.8	5.5	-	30.2
Wisconsin 2017	75	1.3	61.5	29.3	5.3	1.3	1.3	30.6
2018	101	-	75.2	21.8	-	3.0	-	30.2
2019	32	3.1	84.4	12.5	-	-	-	29.6
2020	74	-	75.6	18.9	2.7	1.4	1.4	30.4
2021	66	-	71.3	22.7	1.5	4.5	-	30.5

- Represents zero.

Sorghum Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2019-2021

State	Area planted for all purposes			Area harvested for grain		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado	365	370	495	310	255	400
Kansas	2,600	3,000	3,600	2,400	2,800	3,400
Nebraska	200	195	320	130	150	230
Oklahoma	300	305	430	260	230	380
South Dakota	250	210	310	175	160	210
Texas	1,550	1,800	2,150	1,400	1,500	1,870
United States	5,265	5,880	7,305	4,675	5,095	6,490

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	41.0	20.0	37.0	12,710	5,100	14,800
Kansas	85.0	85.0	78.0	204,000	238,000	265,200
Nebraska	93.0	91.0	86.0	12,090	13,650	19,780
Oklahoma	51.0	45.0	54.0	13,260	10,350	20,520
South Dakota	80.0	71.0	64.0	14,000	11,360	13,440
Texas	61.0	63.0	61.0	85,400	94,500	114,070
United States	73.0	73.2	69.0	341,460	372,960	447,810

Sorghum for Silage Area Harvested, Yield, and Production – States and United States: 2019-2021

State	Area harvested			Yield per acre			Production		
	2019	2020	2021	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Colorado	18	23	39	17.0	11.0	14.0	306	253	546
Kansas	95	60	85	11.0	15.0	13.5	1,045	900	1,148
Nebraska	60	15	31	10.0	12.0	14.5	600	180	450
Oklahoma	16	16	23	10.0	12.0	13.0	160	192	299
South Dakota	65	25	13	13.0	14.0	9.2	845	350	120
Texas	85	100	140	12.5	12.5	18.0	1,063	1,250	2,520
United States	339	239	331	11.9	13.1	15.4	4,019	3,125	5,083

Oat Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted [1]			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas	5	8	10	3	5	6
California	90	95	100	2	4	5
Georgia	70	80	80	15	20	20
Idaho	60	55	50	12	16	13
Illinois	70	60	60	10	15	15
Iowa	215	170	130	69	73	52
Kansas	120	140	115	18	16	20
Maine	22	26	22	19	22	19
Michigan	70	70	55	25	30	20
Minnesota	240	255	180	100	160	77
Missouri	50	35	50	6	10	15
Montana	75	75	60	26	41	16
Nebraska	120	135	120	18	29	26
New York	56	52	55	39	32	29
North Carolina	22	37	33	7	12	14
North Dakota	355	365	355	115	105	83
Ohio	75	55	45	25	15	20
Oklahoma	100	110	80	25	11	6
Oregon	20	20	15	9	7	6
Pennsylvania	85	86	85	50	55	36
South Dakota	245	310	215	75	140	56
Texas	400	470	460	40	60	35
Wisconsin	265	300	175	120	131	61
United States	2,830	3,009	2,550	828	1,009	650

See footnote(s) at end of table.

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Oat Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas	70.0	64.0	90.0	210	320	540
California	60.0	75.0	65.0	120	300	325
Georgia	55.0	54.0	70.0	825	1,080	1,400
Idaho	92.0	102.0	72.0	1,104	1,632	936
Illinois	65.0	58.0	83.0	650	870	1,245
Iowa	58.0	78.0	77.0	4,002	5,694	4,004
Kansas	64.0	52.0	50.0	1,152	832	1,000
Maine	76.0	63.0	78.0	1,444	1,386	1,482
Michigan	57.0	55.0	63.0	1,425	1,650	1,260
Minnesota	62.0	66.0	57.0	6,200	10,560	4,389
Missouri	47.0	43.0	60.0	282	430	900
Montana	55.0	45.0	35.0	1,430	1,845	560
Nebraska	63.0	63.0	56.0	1,134	1,827	1,456
New York	60.0	53.0	68.0	2,340	1,696	1,972
North Carolina	71.0	67.0	68.0	497	804	952
North Dakota	86.0	78.0	48.0	9,890	8,190	3,984
Ohio	46.0	60.0	67.0	1,150	900	1,340
Oklahoma	50.0	45.0	45.0	1,250	495	270
Oregon	97.0	100.0	62.0	873	700	372
Pennsylvania	53.0	50.0	65.0	2,650	2,750	2,340
South Dakota	82.0	77.0	67.0	6,150	10,780	3,752
Texas	50.0	45.0	45.0	2,000	2,700	1,575
Wisconsin	54.0	63.0	62.0	6,480	8,253	3,782
United States	64.3	65.1	61.3	53,258	65,694	39,836

[1] Includes area planted in preceding fall.

Barley Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted [1]			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alaska	6	6	6	5	5	5
Arizona	18	12	16	15	8	14
California	65	60	40	47	33	13
Colorado	54	56	52	52	47	47
Delaware	21	21	21	14	15	14
Idaho	550	530	520	530	500	490
Kansas	14	16	14	4	6	4
Maine	15	15	12	14	14	10
Maryland	32	34	33	17	21	18
Michigan	11	11	10	8	8	8
Minnesota	70	70	55	55	50	34
Montana	950	970	940	760	790	625
New York	10	9	9	4	5	5
North Carolina	11	14	13	6	8	7
North Dakota	580	530	580	445	460	430
Oregon	45	45	37	35	30	19
Pennsylvania	35	45	45	25	30	28
South Dakota	37	35	30	9	14	14
Utah	18	21	17	11	12	9
Virginia	30	31	30	7	7	7
Washington	95	90	83	84	71	70
Wisconsin	24	26	15	8	13	7
Wyoming	81	79	82	66	67	70
United States	2,772	2,726	2,660	2,221	2,214	1,948

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Barley Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alaska	38.0	43.0	51.0	190	215	255
Arizona	126.0	122.0	125.0	1,890	976	1,750
California	66.0	47.0	63.0	3,102	1,551	819
Colorado	138.0	145.0	111.0	7,176	6,815	5,217
Delaware	80.0	84.0	75.0	1,120	1,260	1,050
Idaho	104.0	110.0	89.0	55,120	55,000	43,610
Kansas	33.0	51.0	66.0	132	306	264
Maine	82.0	54.0	82.0	1,148	756	820
Maryland	85.0	73.0	75.0	1,445	1,533	1,350
Michigan	44.0	56.0	50.0	352	448	400
Minnesota	67.0	47.0	55.0	3,685	2,350	1,870
Montana	59.0	63.0	38.0	44,840	49,770	23,750
New York	52.0	60.0	63.0	208	300	315
North Carolina	66.0	77.0	70.0	396	616	490
North Dakota	72.0	63.0	51.0	32,040	28,980	21,930
Oregon	78.0	72.0	32.0	2,730	2,160	608
Pennsylvania	70.0	76.0	80.0	1,750	2,280	2,240
South Dakota	43.0	44.0	20.0	387	616	280
Utah	93.0	85.0	81.0	1,023	1,020	729
Virginia	65.0	63.0	75.0	455	441	525
Washington	70.0	90.0	38.0	5,880	6,390	2,660
Wisconsin	46.0	46.0	53.0	368	598	371
Wyoming	107.0	96.0	91.0	7,062	6,432	6,370
United States	77.7	77.2	60.4	172,499	170,813	117,673

[1] Includes area planted in preceding fall.

All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted [1]			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	130	135	175	85	70	110
Arizona	36	50	53	35	49	52
Arkansas	110	145	210	50	75	145
California	420	410	365	122	102	100
Colorado	2,150	1,900	2,200	2,000	1,520	1,880
Delaware	60	75	60	50	55	35
Georgia	150	190	220	50	85	110
Idaho	1,195	1,240	1,227	1,125	1,164	1,132
Illinois	650	570	670	550	520	610
Indiana	330	300	340	260	250	270
Kansas	7,100	6,600	7,300	6,700	6,250	7,000
Kentucky	460	510	510	330	340	350
Maryland	345	355	345	165	150	160
Michigan	550	490	610	490	450	560
Minnesota	1,450	1,430	1,210	1,400	1,360	1,160
Mississippi	45	40	95	21	20	70
Missouri	550	480	640	390	370	490
Montana	5,450	5,595	5,520	5,135	5,490	4,545
Nebraska	1,070	900	920	970	830	840
New Jersey	19	25	23	14	18	16
New Mexico	365	335	370	110	115	75
New York	90	150	155	66	120	125
North Carolina	290	450	450	225	350	345
North Dakota	7,505	6,650	6,470	6,630	6,563	6,090
Ohio	500	530	580	385	490	515
Oklahoma	4,200	4,250	4,400	2,750	2,600	2,950
Oregon	740	740	720	730	725	705
Pennsylvania	180	235	270	140	190	195
South Carolina	70	110	125	45	95	100
South Dakota	1,500	1,400	1,520	1,360	1,355	1,310
Tennessee	280	300	400	215	230	330
Texas	4,600	4,900	5,500	2,100	2,050	2,000
Utah	125	110	110	116	98	98
Virginia	180	220	205	105	130	120
Washington	2,270	2,350	2,330	2,215	2,295	2,230
Wisconsin	195	160	290	150	125	245
Wyoming	125	120	115	110	90	95
United States	45,485	44,450	46,703	37,394	36,789	37,163

See footnote(s) at end of table.

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All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	72.0	72.0	83.0	6,120	5,040	9,130
Arizona	104.0	99.0	90.0	3,640	4,851	4,680
Arkansas	52.0	55.0	58.0	2,600	4,125	8,410
California	59.4	77.0	87.6	7,244	7,854	8,760
Colorado	49.0	27.0	37.0	98,000	41,040	69,560
Delaware	72.0	73.0	70.0	3,600	4,015	2,450
Georgia	56.0	55.0	56.0	2,800	4,675	6,160
Idaho	87.8	96.7	67.6	98,755	112,506	76,534
Illinois	67.0	68.0	79.0	36,850	35,360	48,190
Indiana	62.0	70.0	85.0	16,120	17,500	22,950
Kansas	52.0	45.0	52.0	348,400	281,250	364,000
Kentucky	76.0	63.0	87.0	25,080	21,420	30,450
Maryland	75.0	73.0	79.0	12,375	10,950	12,640
Michigan	71.0	75.0	81.0	34,790	33,750	45,360
Minnesota	57.0	53.0	48.0	79,800	72,080	55,680
Mississippi	47.0	48.0	59.0	987	960	4,130
Missouri	63.0	62.0	65.0	24,570	22,940	31,850
Montana	42.4	41.7	22.2	217,725	228,680	100,850
Nebraska	57.0	41.0	49.0	55,290	34,030	41,160
New Jersey	66.0	67.0	67.0	924	1,206	1,072
New Mexico	30.0	28.0	36.0	3,300	3,220	2,700
New York	63.0	66.0	77.0	4,158	7,920	9,625
North Carolina	56.0	60.0	56.0	12,600	21,000	19,320
North Dakota	48.4	47.6	32.2	321,185	312,587	196,195
Ohio	56.0	71.0	85.0	21,560	34,790	43,775
Oklahoma	40.0	40.0	39.0	110,000	104,000	115,050
Oregon	68.0	64.0	45.0	49,640	46,400	31,725
Pennsylvania	73.0	71.0	77.0	10,220	13,490	15,015
South Carolina	48.0	51.0	53.0	2,160	4,845	5,300
South Dakota	48.1	51.9	33.9	65,410	70,285	44,470
Tennessee	67.0	59.0	71.0	14,405	13,570	23,430
Texas	34.0	30.0	37.0	71,400	61,500	74,000
Utah	54.0	53.0	46.0	6,264	5,194	4,508
Virginia	62.0	60.0	67.0	6,510	7,800	8,040
Washington	64.7	72.4	39.1	143,205	166,245	87,180
Wisconsin	64.0	69.0	75.0	9,600	8,625	18,375
Wyoming	43.0	26.0	32.0	4,730	2,340	3,040
United States	51.7	49.7	44.3	1,932,017	1,828,043	1,645,764

[1] Includes area planted in preceding fall.

Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted [1]			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	130	135	175	85	70	110
Arkansas	110	145	210	50	75	145
California	390	385	340	100	85	80
Colorado	2,150	1,900	2,200	2,000	1,520	1,880
Delaware	60	75	60	50	55	35
Georgia	150	190	220	50	85	110
Idaho	730	720	710	680	660	640
Illinois	650	570	670	550	520	610
Indiana	330	300	340	260	250	270
Kansas	7,100	6,600	7,300	6,700	6,250	7,000
Kentucky	460	510	510	330	340	350
Maryland	345	355	345	165	150	160
Michigan	550	490	610	490	450	560
Mississippi	45	40	95	21	20	70
Missouri	550	480	640	390	370	490
Montana	2,000	1,550	1,950	1,900	1,490	1,730
Nebraska	1,070	900	920	970	830	840
New Jersey	19	25	23	14	18	16
New Mexico	365	335	370	110	115	75
New York	90	150	155	66	120	125
North Carolina	290	450	450	225	350	345
North Dakota	85	40	90	70	33	60
Ohio	500	530	580	385	490	515
Oklahoma	4,200	4,250	4,400	2,750	2,600	2,950
Oregon	740	740	720	730	725	705
Pennsylvania	180	235	270	140	190	195
South Carolina	70	110	125	45	95	100
South Dakota	860	630	800	770	600	720
Tennessee	280	300	400	215	230	330
Texas	4,600	4,900	5,500	2,100	2,050	2,000
Utah	125	110	110	116	98	98
Virginia	180	220	205	105	130	120
Washington	1,750	1,800	1,750	1,700	1,750	1,690
Wisconsin	195	160	290	150	125	245
Wyoming	125	120	115	110	90	95
United States	31,474	30,450	33,648	24,592	23,029	25,464

See footnote(s) at end of table.

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Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	72.0	72.0	83.0	6,120	5,040	9,130
Arkansas	52.0	55.0	58.0	2,600	4,125	8,410
California	50.0	75.0	82.0	5,000	6,375	6,560
Colorado	49.0	27.0	37.0	98,000	41,040	69,560
Delaware	72.0	73.0	70.0	3,600	4,015	2,450
Georgia	56.0	55.0	56.0	2,800	4,675	6,160
Idaho	87.0	101.0	71.0	59,160	66,660	45,440
Illinois	67.0	68.0	79.0	36,850	35,360	48,190
Indiana	62.0	70.0	85.0	16,120	17,500	22,950
Kansas	52.0	45.0	52.0	348,400	281,250	364,000
Kentucky	76.0	63.0	87.0	25,080	21,420	30,450
Maryland	75.0	73.0	79.0	12,375	10,950	12,640
Michigan	71.0	75.0	81.0	34,790	33,750	45,360
Mississippi	47.0	48.0	59.0	987	960	4,130
Missouri	63.0	62.0	65.0	24,570	22,940	31,850
Montana	50.0	51.0	31.0	95,000	75,990	53,630
Nebraska	57.0	41.0	49.0	55,290	34,030	41,160
New Jersey	66.0	67.0	67.0	924	1,206	1,072
New Mexico	30.0	28.0	36.0	3,300	3,220	2,700
New York	63.0	66.0	77.0	4,158	7,920	9,625
North Carolina	56.0	60.0	56.0	12,600	21,000	19,320
North Dakota	53.0	49.0	33.0	3,710	1,617	1,980
Ohio	56.0	71.0	85.0	21,560	34,790	43,775
Oklahoma	40.0	40.0	39.0	110,000	104,000	115,050
Oregon	68.0	64.0	45.0	49,640	46,400	31,725
Pennsylvania	73.0	71.0	77.0	10,220	13,490	15,015
South Carolina	48.0	51.0	53.0	2,160	4,845	5,300
South Dakota	52.0	58.0	38.0	40,040	34,800	27,360
Tennessee	67.0	59.0	71.0	14,405	13,570	23,430
Texas	34.0	30.0	37.0	71,400	61,500	74,000
Utah	54.0	53.0	46.0	6,264	5,194	4,508
Virginia	62.0	60.0	67.0	6,510	7,800	8,040
Washington	70.0	76.0	42.0	119,000	133,000	70,980
Wisconsin	64.0	69.0	75.0	9,600	8,625	18,375
Wyoming	43.0	26.0	32.0	4,730	2,340	3,040
United States	53.6	50.9	50.2	1,316,963	1,171,397	1,277,365

[1] Includes area planted in preceding fall.

Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	460	510	510	440	495	485
Minnesota	1,450	1,430	1,210	1,400	1,360	1,160
Montana	2,900	3,350	2,900	2,730	3,310	2,180
North Dakota	6,700	5,700	5,500	5,950	5,630	5,210
South Dakota	640	770	720	590	755	590
Washington	520	550	580	515	545	540
United States	12,670	12,310	11,420	11,625	12,095	10,165

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Idaho	89.0	91.0	63.0	39,160	45,045	30,555
Minnesota	57.0	53.0	48.0	79,800	72,080	55,680
Montana	37.0	38.0	17.0	101,010	125,780	37,060
North Dakota	49.0	49.0	33.5	291,550	275,870	174,535
South Dakota	43.0	47.0	29.0	25,370	35,485	17,110
Washington	47.0	61.0	30.0	24,205	33,245	16,200
United States	48.3	48.6	32.6	561,095	587,505	331,140

Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona	36	50	53	35	49	52
California	30	25	25	22	17	20
Idaho	5	10	7	5	9	7
Montana	550	695	670	505	690	635
North Dakota	720	910	880	610	900	820
United States	1,341	1,690	1,635	1,177	1,665	1,534

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arizona	104.0	99.0	90.0	3,640	4,851	4,680
California	102.0	87.0	110.0	2,244	1,479	2,200
Idaho	87.0	89.0	77.0	435	801	539
Montana	43.0	39.0	16.0	21,715	26,910	10,160
North Dakota	42.5	39.0	24.0	25,925	35,100	19,680
United States	45.8	41.5	24.3	53,959	69,141	37,259

Wheat Production by Class – United States: 2019-2021

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

Crop	2019	2020	2021
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Winter			
Hard red	844,947	658,977	749,489
Soft red	239,771	266,239	360,689
Hard white	20,266	12,194	20,283
Soft white	211,979	233,987	146,904
Spring			
Hard red	519,929	531,179	297,366
Hard white	11,841	10,693	5,662
Soft white	29,325	45,633	28,112
Durum	53,959	69,141	37,259
Total	1,932,017	1,828,043	1,645,764

Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2019-2021

Class and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Long grain						
Arkansas	955	1,325	1,095	935	1,315	1,085
California	10	12	7	10	12	7
Louisiana	370	430	380	361	424	375
Mississippi	115	165	105	111	164	100
Missouri	180	220	195	166	210	190
Texas	153	180	188	147	176	179
United States	1,783	2,332	1,970	1,730	2,301	1,936
Medium grain						
Arkansas	205	135	115	190	125	108
California	460	465	365	458	462	363
Louisiana	55	50	40	53	49	39
Mississippi	2	1	-	2	1	-
Missouri	7	8	4	7	4	4
Texas	4	4	2	3	3	2
United States	733	663	526	713	644	516
Short grain [1]						
Arkansas	1	1	1	1	1	1
California	33	40	35	33	40	35
United States	34	41	36	34	41	36
All rice						
Arkansas	1,161	1,461	1,211	1,126	1,441	1,194
California	503	517	407	501	514	405
Louisiana	425	480	420	414	473	414
Mississippi	117	166	105	113	165	100
Missouri	187	228	199	173	214	194
Texas	157	184	190	150	179	181
United States	2,550	3,036	2,532	2,477	2,986	2,488

See footnote(s) at end of table.

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Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2019-2021 (continued)

Class and State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Long grain						
Arkansas	7,550	7,530	7,660	70,593	99,020	83,111
California	7,300	7,100	7,200	730	852	504
Louisiana	6,380	6,860	6,890	23,032	29,086	25,838
Mississippi	7,350	7,420	7,540	8,159	12,169	7,540
Missouri	7,360	7,250	8,050	12,218	15,225	15,295
Texas	7,400	8,200	6,900	10,878	14,432	12,351
United States	7,261	7,422	7,471	125,610	170,784	144,639
Medium grain						
Arkansas	7,160	7,220	7,380	13,604	9,025	7,970
California	8,580	8,920	9,240	39,296	41,210	33,541
Louisiana	6,370	6,430	6,690	3,376	3,151	2,609
Mississippi	7,150	7,200	(X)	143	72	-
Missouri	7,550	7,430	7,600	529	297	304
Texas	5,000	5,500	3,500	150	165	70
United States	8,008	8,373	8,623	57,098	53,920	44,494
Short grain [1]						
Arkansas	6,000	6,200	5,500	60	62	55
California	7,080	6,870	7,450	2,336	2,748	2,608
United States	7,047	6,854	7,397	2,396	2,810	2,663
All						
Arkansas	7,480	7,500	7,630	84,257	108,107	91,136
California	8,460	8,720	9,050	42,362	44,810	36,653
Louisiana	6,380	6,820	6,870	26,408	32,237	28,447
Mississippi	7,350	7,420	7,540	8,302	12,241	7,540
Missouri	7,370	7,250	8,040	12,747	15,522	15,599
Texas	7,350	8,150	6,860	11,028	14,597	12,421
United States	7,473	7,619	7,709	185,104	227,514	191,796

- Represents zero.
(X) Not applicable.
[1] Sweet rice acreage, yield, and production included with short grain.

Rye Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted [1]			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Minnesota	50	45	57	18	15	11
North Dakota	85	75	88	57	50	36
Oklahoma	260	270	250	55	52	50
Pennsylvania	100	175	185	14	36	15
Wisconsin	220	215	270	20	20	20
Other States [2]	1,140	1,175	1,283	146	157	162
United States	1,855	1,955	2,133	310	330	294

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Minnesota	39.0	38.0	44.0	702	570	484
North Dakota	45.0	44.0	32.0	2,565	2,200	1,152
Oklahoma	27.0	14.0	25.0	1,485	728	1,250
Pennsylvania	26.0	52.0	40.0	364	1,872	600
Wisconsin	34.0	40.0	41.0	680	800	820
Other States [2]	33.1	34.2	34.0	4,826	5,362	5,502
United States	34.3	34.9	33.4	10,622	11,532	9,808

[1] Includes area planted in preceding fall.
[2] Other States include Georgia, Illinois, Kansas, Michigan, Nebraska, New York, North Carolina, South Dakota, and Texas.

Proso Millet Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado	340	425	465	320	335	420
Nebraska	115	130	165	106	125	160
South Dakota	51	54	95	39	49	82
United States	506	609	725	465	509	662

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	37.0	14.5	22.0	11,840	4,858	9,240
Nebraska	31.0	24.0	24.0	3,286	3,000	3,840
South Dakota	38.0	35.0	28.0	1,482	1,715	2,296
United States	35.7	18.8	23.2	16,608	9,573	15,376

All Hay Area Harvested, Yield, and Production – States and United States: 2019-2021

State	Area harvested			Yield per acre		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama	700	750	700	2.50	3.10	3.10
Alaska	22	22	19	1.30	1.10	1.20
Arizona	325	310	305	7.72	7.94	7.94
Arkansas	1,253	1,273	1,183	2.20	2.10	2.20
California	1,010	825	830	5.74	5.59	6.21
Colorado	1,460	1,380	1,480	2.78	2.39	3.03
Connecticut	47	46	46	1.72	1.80	1.93
Delaware	14	14	11	2.21	2.43	2.45
Florida	270	280	300	2.90	3.00	2.50
Georgia	560	570	540	2.75	3.00	3.20
Idaho	1,300	1,300	1,240	3.93	4.05	3.67
Illinois	420	490	500	2.71	3.02	3.14
Indiana	520	500	540	2.48	2.56	2.89
Iowa	1,020	1,160	1,260	3.05	3.19	3.28
Kansas	2,280	2,590	2,690	2.77	2.28	2.15
Kentucky	1,945	2,195	2,120	2.27	2.47	2.63
Louisiana	390	400	370	2.50	2.40	2.60
Maine	110	104	120	2.15	1.76	1.91
Maryland	189	200	199	2.68	2.16	2.14
Massachusetts	51	60	55	2.25	1.77	1.45
Michigan	780	780	790	2.38	2.56	2.75
Minnesota	1,100	1,230	1,090	2.70	2.88	2.14
Mississippi	610	650	620	2.30	2.50	2.20
Missouri	3,360	3,070	3,140	2.19	2.10	2.08
Montana	3,000	2,860	2,290	2.08	2.07	1.57
Nebraska	2,450	2,740	2,560	2.48	2.32	2.46
Nevada	435	320	340	3.60	3.58	3.99
New Hampshire	49	42	42	1.69	1.83	1.48
New Jersey	91	106	98	2.05	1.85	2.18
New Mexico	245	225	225	3.89	3.65	3.62
New York	1,180	1,060	1,160	1.90	1.61	2.28
North Carolina	816	665	683	2.30	2.40	2.11
North Dakota	2,420	2,220	2,020	1.70	1.62	1.04
Ohio	920	860	870	2.32	2.44	2.71
Oklahoma	3,005	2,790	2,950	1.98	1.92	1.69
Oregon	970	960	890	3.47	3.10	2.74
Pennsylvania	1,210	1,355	1,220	2.47	2.43	2.57
Rhode Island	5	5	7	1.40	1.60	1.71
South Carolina	270	310	270	2.10	2.40	2.40
South Dakota	3,350	3,050	2,400	2.09	1.76	1.29
Tennessee	1,763	1,749	1,705	2.31	2.37	2.36
Texas	4,920	5,010	5,600	1.87	1.92	1.91
Utah	680	730	670	3.85	3.48	3.30
Vermont	160	167	160	1.86	1.88	1.83
Virginia	1,145	1,135	1,030	2.23	2.39	2.03
Washington	640	690	710	3.83	3.79	3.61
West Virginia	515	540	518	1.74	1.92	1.73
Wisconsin	1,300	1,370	1,230	2.14	2.54	2.86
Wyoming	1,150	1,080	940	2.17	2.49	2.10
United States	52,425	52,238	50,736	2.46	2.43	2.37

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All Hay Area Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	1,750	2,325	2,170
Alaska	29	24	23
Arizona	2,509	2,460	2,421
Arkansas	2,760	2,677	2,606
California	5,795	4,610	5,152
Colorado	4,052	3,298	4,485
Connecticut	81	83	89
Delaware	31	34	27
Florida	783	840	750
Georgia	1,540	1,710	1,728
Idaho	5,111	5,270	4,552
Illinois	1,140	1,479	1,571
Indiana	1,290	1,282	1,558
Iowa	3,116	3,697	4,130
Kansas	6,315	5,893	5,784
Kentucky	4,424	5,428	5,582
Louisiana	975	960	962
Maine	236	183	229
Maryland	507	432	426
Massachusetts	115	106	80
Michigan	1,858	2,000	2,173
Minnesota	2,966	3,546	2,330
Mississippi	1,403	1,625	1,364
Missouri	7,367	6,437	6,532
Montana	6,225	5,908	3,597
Nebraska	6,085	6,370	6,289
Nevada	1,565	1,147	1,357
New Hampshire	83	77	62
New Jersey	187	196	214
New Mexico	954	822	815
New York	2,240	1,710	2,641
North Carolina	1,877	1,598	1,440
North Dakota	4,116	3,596	2,093
Ohio	2,137	2,102	2,355
Oklahoma	5,935	5,364	4,990
Oregon	3,362	2,976	2,438
Pennsylvania	2,986	3,297	3,133
Rhode Island	7	8	12
South Carolina	567	744	648
South Dakota	7,003	5,365	3,105
Tennessee	4,073	4,140	4,029
Texas	9,216	9,604	10,715
Utah	2,618	2,540	2,209
Vermont	298	314	293
Virginia	2,555	2,711	2,087
Washington	2,448	2,616	2,562
West Virginia	894	1,035	894
Wisconsin	2,784	3,483	3,520
Wyoming	2,496	2,690	1,974
United States	128,864	126,812	120,196

Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2019-2021

State	Area harvested			Yield per acre		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Arizona	280	260	275	8.30	8.50	8.30
Arkansas	3	3	3	3.20	3.30	3.30
California	580	475	500	7.10	7.20	7.40
Colorado	730	700	780	3.70	3.40	4.00
Connecticut	7	6	6	1.90	1.90	2.10
Delaware	3	4	3	3.00	2.50	2.20
Idaho	1,010	1,010	960	4.40	4.50	4.10
Illinois	200	220	290	3.50	3.90	3.75
Indiana	220	220	260	3.00	2.90	3.30
Iowa	700	830	910	3.40	3.50	3.50
Kansas	630	540	690	4.00	3.70	3.60
Kentucky	145	145	100	3.20	3.50	3.30
Maine	10	9	10	2.10	2.30	2.00
Maryland	34	35	34	3.50	2.90	3.30
Massachusetts	6	5	5	2.70	1.30	1.90
Michigan	550	550	560	2.50	2.80	3.10
Minnesota	730	740	670	3.10	3.60	2.60
Missouri	260	220	240	2.70	2.70	3.05
Montana	2,100	1,900	1,550	2.15	2.20	1.70
Nebraska	950	860	910	3.80	3.80	4.10
Nevada	225	175	210	4.90	4.40	5.10
New Hampshire	4	5	5	1.50	2.00	1.20
New Jersey	11	16	13	3.20	2.70	3.40
New Mexico	160	130	125	4.90	5.30	5.00
New York	290	300	270	2.20	1.90	2.20
North Carolina	6	5	8	2.30	2.70	2.75
North Dakota	1,220	1,220	920	1.80	1.80	0.90
Ohio	330	300	300	2.90	2.90	3.10
Oklahoma	205	190	180	3.00	3.60	3.10
Oregon	400	360	400	4.70	4.60	3.40
Pennsylvania	290	395	320	3.00	3.00	2.90
Rhode Island	1	1	1	2.20	2.00	2.00
South Dakota	1,900	1,800	1,300	2.35	1.80	1.50
Tennessee	13	19	15	3.70	3.90	3.80
Texas	120	110	100	4.80	4.90	5.40
Utah	510	550	490	4.30	3.80	3.70
Vermont	20	17	15	2.30	1.70	2.15
Virginia	45	35	30	3.00	3.60	2.90
Washington	330	410	390	4.60	4.40	4.60
West Virginia	15	10	18	2.90	2.80	2.45
Wisconsin	880	840	910	2.40	3.20	3.20
Wyoming	620	610	470	2.70	3.10	2.80
United States	16,743	16,230	15,246	3.28	3.27	3.23

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Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
Arizona	2,324	2,210	2,283
Arkansas	10	10	10
California	4,118	3,420	3,700
Colorado	2,701	2,380	3,120
Connecticut	13	11	13
Delaware	9	10	7
Idaho	4,444	4,545	3,936
Illinois	700	858	1,088
Indiana	660	638	858
Iowa	2,380	2,905	3,185
Kansas	2,520	1,998	2,484
Kentucky	464	508	330
Maine	21	21	20
Maryland	119	102	112
Massachusetts	16	7	10
Michigan	1,375	1,540	1,736
Minnesota	2,263	2,664	1,742
Missouri	702	594	732
Montana	4,515	4,180	2,635
Nebraska	3,610	3,268	3,731
Nevada	1,103	770	1,071
New Hampshire	6	10	6
New Jersey	35	43	44
New Mexico	784	689	625
New York	638	570	594
North Carolina	14	14	22
North Dakota	2,196	2,196	828
Ohio	957	870	930
Oklahoma	615	684	558
Oregon	1,880	1,656	1,360
Pennsylvania	870	1,185	928
Rhode Island	2	2	2
South Dakota	4,465	3,240	1,950
Tennessee	48	74	57
Texas	576	539	540
Utah	2,193	2,090	1,813
Vermont	46	29	32
Virginia	135	126	87
Washington	1,518	1,804	1,794
West Virginia	44	28	44
Wisconsin	2,112	2,688	2,912
Wyoming	1,674	1,891	1,316
United States	54,875	53,067	49,245

All Other Hay Area Harvested, Yield, and Production – States and United States: 2019-2021

State	Area harvested			Yield per acre		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama [1]	700	750	700	2.50	3.10	3.10
Alaska [1]	22	22	19	1.30	1.10	1.20
Arizona	45	50	30	4.10	5.00	4.60
Arkansas	1,250	1,270	1,180	2.20	2.10	2.20
California	430	350	330	3.90	3.40	4.40
Colorado	730	680	700	1.85	1.35	1.95
Connecticut	40	40	40	1.70	1.80	1.90
Delaware	11	10	8	2.00	2.40	2.50
Florida [1]	270	280	300	2.90	3.00	2.50
Georgia [1]	560	570	540	2.75	3.00	3.20
Idaho	290	290	280	2.30	2.50	2.20
Illinois	220	270	210	2.00	2.30	2.30
Indiana	300	280	280	2.10	2.30	2.50
Iowa	320	330	350	2.30	2.40	2.70
Kansas	1,650	2,050	2,000	2.30	1.90	1.65
Kentucky	1,800	2,050	2,020	2.20	2.40	2.60
Louisiana [1]	390	400	370	2.50	2.40	2.60
Maine	100	95	110	2.15	1.70	1.90
Maryland	155	165	165	2.50	2.00	1.90
Massachusetts	45	55	50	2.20	1.80	1.40
Michigan	230	230	230	2.10	2.00	1.90
Minnesota	370	490	420	1.90	1.80	1.40
Mississippi [1]	610	650	620	2.30	2.50	2.20
Missouri	3,100	2,850	2,900	2.15	2.05	2.00
Montana	900	960	740	1.90	1.80	1.30
Nebraska	1,500	1,880	1,650	1.65	1.65	1.55
Nevada	210	145	130	2.20	2.60	2.20
New Hampshire	45	37	37	1.70	1.80	1.50
New Jersey	80	90	85	1.90	1.70	2.00
New Mexico	85	95	100	2.00	1.40	1.90
New York	890	760	890	1.80	1.50	2.30
North Carolina	810	660	675	2.30	2.40	2.10
North Dakota	1,200	1,000	1,100	1.60	1.40	1.15
Ohio	590	560	570	2.00	2.20	2.50
Oklahoma	2,800	2,600	2,770	1.90	1.80	1.60
Oregon	570	600	490	2.60	2.20	2.20
Pennsylvania	920	960	900	2.30	2.20	2.45
Rhode Island	4	4	6	1.30	1.60	1.60
South Carolina [1]	270	310	270	2.10	2.40	2.40
South Dakota	1,450	1,250	1,100	1.75	1.70	1.05
Tennessee	1,750	1,730	1,690	2.30	2.35	2.35
Texas	4,800	4,900	5,500	1.80	1.85	1.85
Utah	170	180	180	2.50	2.50	2.20
Vermont	140	150	145	1.80	1.90	1.80
Virginia	1,100	1,100	1,000	2.20	2.35	2.00
Washington	310	280	320	3.00	2.90	2.40
West Virginia	500	530	500	1.70	1.90	1.70
Wisconsin	420	530	320	1.60	1.50	1.90
Wyoming	530	470	470	1.55	1.70	1.40
United States	35,682	36,008	35,490	2.07	2.05	2.00

See footnote(s) at end of table.

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All Other Hay Area Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama [1]	1,750	2,325	2,170
Alaska [1]	29	24	23
Arizona	185	250	138
Arkansas	2,750	2,667	2,596
California	1,677	1,190	1,452
Colorado	1,351	918	1,365
Connecticut	68	72	76
Delaware	22	24	20
Florida [1]	783	840	750
Georgia [1]	1,540	1,710	1,728
Idaho	667	725	616
Illinois	440	621	483
Indiana	630	644	700
Iowa	736	792	945
Kansas	3,795	3,895	3,300
Kentucky	3,960	4,920	5,252
Louisiana [1]	975	960	962
Maine	215	162	209
Maryland	388	330	314
Massachusetts	99	99	70
Michigan	483	460	437
Minnesota	703	882	588
Mississippi [1]	1,403	1,625	1,364
Missouri	6,665	5,843	5,800
Montana	1,710	1,728	962
Nebraska	2,475	3,102	2,558
Nevada	462	377	286
New Hampshire	77	67	56
New Jersey	152	153	170
New Mexico	170	133	190
New York	1,602	1,140	2,047
North Carolina	1,863	1,584	1,418
North Dakota	1,920	1,400	1,265
Ohio	1,180	1,232	1,425
Oklahoma	5,320	4,680	4,432
Oregon	1,482	1,320	1,078
Pennsylvania	2,116	2,112	2,205
Rhode Island	5	6	10
South Carolina [1]	567	744	648
South Dakota	2,538	2,125	1,155
Tennessee	4,025	4,066	3,972
Texas	8,640	9,065	10,175
Utah	425	450	396
Vermont	252	285	261
Virginia	2,420	2,585	2,000
Washington	930	812	768
West Virginia	850	1,007	850
Wisconsin	672	795	608
Wyoming	822	799	658
United States	73,989	73,745	70,951

[1] Alfalfa and alfalfa mixtures included in all other hay.

Forage Production

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

All Forage Area Harvested, Yield, and Production – States and 17 State Total: 2019-2021

[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		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	1,190	960	1,015	5.93	6.02	6.20
Idaho	1,380	1,390	1,320	4.35	4.35	4.11
Illinois	450	515	520	2.86	3.19	3.27
Iowa	1,115	1,225	1,350	3.15	3.27	3.50
Kansas	2,345	2,665	2,770	2.85	2.33	2.26
Michigan	990	985	985	2.99	3.16	3.33
Minnesota	1,330	1,505	1,295	2.82	3.05	2.36
Missouri	3,490	3,145	3,225	2.20	2.11	2.13
Nebraska	2,505	2,770	2,585	2.50	2.36	2.50
New York	1,640	1,550	1,665	2.52	2.35	2.74
Ohio	970	900	910	2.62	2.69	2.98
Pennsylvania	1,430	1,625	1,385	2.98	2.73	2.99
South Dakota	3,505	3,105	2,425	2.10	1.79	1.34
Texas	5,045	5,190	5,735	1.98	2.03	1.96
Vermont	265	275	275	3.54	3.14	3.49
Washington	670	725	755	4.02	4.18	3.82
Wisconsin	2,330	2,360	2,250	2.63	3.07	3.47
17 State total	30,650	30,890	30,465	2.71	2.66	2.68

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	7,060	5,780	6,297
Idaho	6,000	6,045	5,431
Illinois	1,285	1,641	1,702
Iowa	3,517	4,006	4,727
Kansas	6,690	6,222	6,266
Michigan	2,959	3,113	3,276
Minnesota	3,745	4,588	3,062
Missouri	7,661	6,644	6,858
Nebraska	6,258	6,544	6,450
New York	4,130	3,635	4,555
Ohio	2,546	2,421	2,708
Pennsylvania	4,265	4,439	4,144
South Dakota	7,365	5,562	3,245
Texas	9,965	10,519	11,244
Vermont	939	864	959
Washington	2,694	3,029	2,883
Wisconsin	6,135	7,242	7,817
17 State total	83,214	82,294	81,624

All Alfalfa Forage Area Harvested, Yield, and Production – States and 17 State Total: 2019-2021

[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		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	610	515	580	7.06	7.09	6.89
Idaho	1,060	1,060	1,010	4.86	4.75	4.55
Illinois	220	235	310	3.68	4.15	3.85
Iowa	765	865	995	3.52	3.56	3.76
Kansas	645	545	710	4.05	3.74	3.62
Michigan	750	745	745	3.20	3.44	3.73
Minnesota	930	980	850	3.20	3.68	2.84
Missouri	290	225	245	2.69	2.84	3.05
Nebraska	990	880	925	3.75	3.84	4.09
New York	530	570	555	3.47	3.25	3.42
Ohio	370	330	330	3.44	3.37	3.49
Pennsylvania	380	535	425	4.37	3.48	3.57
South Dakota	2,000	1,845	1,320	2.34	1.83	1.53
Texas	125	115	105	4.90	4.85	5.52
Vermont	35	45	55	4.94	4.16	3.64
Washington	350	430	410	4.63	4.61	4.64
Wisconsin	1,680	1,660	1,810	3.00	3.65	3.82
17 State total	11,730	11,580	11,380	3.61	3.62	3.69

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	4,308	3,651	3,998
Idaho	5,155	5,038	4,598
Illinois	810	976	1,193
Iowa	2,690	3,083	3,743
Kansas	2,613	2,038	2,567
Michigan	2,403	2,566	2,780
Minnesota	2,975	3,607	2,417
Missouri	781	638	747
Nebraska	3,711	3,382	3,783
New York	1,840	1,851	1,900
Ohio	1,273	1,112	1,152
Pennsylvania	1,661	1,860	1,518
South Dakota	4,682	3,373	2,024
Texas	613	558	580
Vermont	173	187	200
Washington	1,619	1,982	1,903
Wisconsin	5,036	6,053	6,908
17 State total	42,343	41,955	42,011

All Other Forage Area Harvested, Yield, and Production – States and 17 State Total: 2019-2021

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

State	Area harvested			Yield per acre		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	580	445	435	4.74	4.78	5.29
Idaho	320	330	310	2.64	3.05	2.69
Illinois	230	280	210	2.07	2.38	2.42
Iowa	350	360	355	2.36	2.56	2.77
Kansas	1,700	2,120	2,060	2.40	1.97	1.80
Michigan	240	240	240	2.32	2.28	2.07
Minnesota	400	525	445	1.93	1.87	1.45
Missouri	3,200	2,920	2,980	2.15	2.06	2.05
Nebraska	1,515	1,890	1,660	1.68	1.67	1.61
New York	1,110	980	1,110	2.06	1.82	2.39
Ohio	600	570	580	2.12	2.30	2.68
Pennsylvania	1,050	1,090	960	2.48	2.37	2.74
South Dakota	1,505	1,260	1,105	1.78	1.74	1.10
Texas	4,920	5,075	5,630	1.90	1.96	1.89
Vermont	230	230	220	3.33	2.94	3.45
Washington	320	295	345	3.36	3.55	2.84
Wisconsin	650	700	440	1.69	1.70	2.07
17 State total	18,920	19,310	19,085	2.16	2.09	2.08

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	2,752	2,129	2,299
Idaho	845	1,007	833
Illinois	475	665	509
Iowa	827	923	984
Kansas	4,077	4,184	3,699
Michigan	556	547	496
Minnesota	770	981	645
Missouri	6,880	6,006	6,111
Nebraska	2,547	3,162	2,667
New York	2,290	1,784	2,655
Ohio	1,273	1,309	1,556
Pennsylvania	2,604	2,579	2,626
South Dakota	2,683	2,189	1,221
Texas	9,352	9,961	10,664
Vermont	766	677	759
Washington	1,075	1,047	980
Wisconsin	1,099	1,189	909
17 State total	40,871	40,339	39,613

All Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2019-2021

[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		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	210	185	215	12.19	12.80	10.77
Idaho	155	165	140	11.60	9.50	12.71
Illinois	49	54	40	5.96	6.06	6.60
Iowa	140	95	135	5.80	6.59	8.93
Kansas	85	105	125	8.92	6.33	7.81
Michigan	290	280	270	7.68	8.04	8.27
Minnesota	265	315	245	5.95	6.69	6.04
Missouri	190	125	155	3.13	3.36	4.26
Nebraska	75	55	50	4.67	6.42	6.50
New York	610	670	650	6.27	5.81	5.96
Ohio	125	110	105	6.62	5.87	6.82
Pennsylvania	390	370	275	6.64	6.24	7.44
South Dakota	190	80	50	3.85	5.00	5.68
Texas	190	250	190	7.97	7.40	5.63
Vermont	165	175	190	7.85	6.36	7.09
Washington	85	90	95	5.85	9.28	6.83
Wisconsin	1,290	1,130	1,210	5.26	6.73	7.18
17 State total	4,504	4,254	4,140	6.44	6.90	7.23

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	2,559	2,368	2,316
Idaho	1,798	1,568	1,780
Illinois	292	327	264
Iowa	812	626	1,206
Kansas	758	665	976
Michigan	2,227	2,252	2,232
Minnesota	1,576	2,108	1,481
Missouri	595	420	660
Nebraska	350	353	325
New York	3,824	3,894	3,873
Ohio	828	646	716
Pennsylvania	2,588	2,310	2,046
South Dakota	731	400	284
Texas	1,515	1,851	1,070
Vermont	1,296	1,113	1,348
Washington	497	835	649
Wisconsin	6,780	7,606	8,693
17 State total	29,026	29,342	29,919

Alfalfa Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2019-2021

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

State	Area harvested			Yield per acre		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	60	60	90	6.40	7.80	6.70
Idaho	115	105	100	12.50	9.50	13.40
Illinois	30	35	30	7.40	6.80	7.05
Iowa	95	50	120	6.60	7.20	9.40
Kansas	25	15	30	7.50	5.30	5.60
Michigan	260	250	240	8.00	8.30	8.80
Minnesota	225	265	210	6.40	7.20	6.50
Missouri	40	15	15	4.00	6.00	2.00
Nebraska	50	35	25	4.10	6.60	4.20
New York	320	360	350	7.60	7.20	7.55
Ohio	90	70	60	7.10	7.00	7.50
Pennsylvania	200	195	155	8.00	7.00	7.70
South Dakota	125	60	30	3.50	4.50	5.00
Texas	10	5	10	7.50	7.50	8.00
Vermont	35	45	50	7.30	7.10	6.80
Washington	40	40	40	5.10	9.00	5.50
Wisconsin	1,020	920	1,050	5.80	7.40	7.70
17 State total	2,740	2,525	2,605	6.68	7.40	7.76

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	384	468	603
Idaho	1,438	998	1,340
Illinois	222	238	212
Iowa	627	360	1,128
Kansas	188	80	168
Michigan	2,080	2,075	2,112
Minnesota	1,440	1,908	1,365
Missouri	160	90	30
Nebraska	205	231	105
New York	2,432	2,592	2,643
Ohio	639	490	450
Pennsylvania	1,600	1,365	1,194
South Dakota	438	270	150
Texas	75	38	80
Vermont	256	320	340
Washington	204	360	220
Wisconsin	5,916	6,808	8,085
17 State total	18,304	18,691	20,225

All Other Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2019-2021

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

State	Area harvested			Yield per acre		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California	150	125	125	14.50	15.20	13.70
Idaho	40	60	40	9.00	9.50	11.00
Illinois	19	19	10	3.70	4.70	5.20
Iowa	45	45	15	4.10	5.90	5.20
Kansas	60	90	95	9.50	6.50	8.50
Michigan	30	30	30	4.90	5.90	4.00
Minnesota	40	50	35	3.40	4.00	3.30
Missouri	150	110	140	2.90	3.00	4.50
Nebraska	25	20	25	5.80	6.10	8.80
New York	290	310	300	4.80	4.20	4.10
Ohio	35	40	45	5.40	3.90	5.90
Pennsylvania	190	175	120	5.20	5.40	7.10
South Dakota	65	20	20	4.50	6.50	6.70
Texas	180	245	180	8.00	7.40	5.50
Vermont	130	130	140	8.00	6.10	7.20
Washington	45	50	55	6.50	9.50	7.80
Wisconsin	270	210	160	3.20	3.80	3.80
17 State total	1,764	1,729	1,535	6.08	6.16	6.32

State	Production		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California	2,175	1,900	1,713
Idaho	360	570	440
Illinois	70	89	52
Iowa	185	266	78
Kansas	570	585	808
Michigan	147	177	120
Minnesota	136	200	116
Missouri	435	330	630
Nebraska	145	122	220
New York	1,392	1,302	1,230
Ohio	189	156	266
Pennsylvania	988	945	852
South Dakota	293	130	134
Texas	1,440	1,813	990
Vermont	1,040	793	1,008
Washington	293	475	429
Wisconsin	864	798	608
17 State total	10,722	10,651	9,694

New Seedings of Alfalfa and Alfalfa Mixtures – States and United States: 2019-2021

State	Area seeded		
	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona	55	40	40
Arkansas	1	-	1
California	80	65	60
Colorado	80	75	50
Connecticut	1	1	1
Delaware	1	1	1
Idaho	135	115	115
Illinois	35	30	40
Indiana	40	40	30
Iowa	140	125	65
Kansas	75	85	90
Kentucky	17	14	8
Maine	2	1	2
Maryland	3	3	5
Massachusetts	1	1	1
Michigan	100	100	60
Minnesota	160	170	100
Missouri	35	25	20
Montana	130	125	80
Nebraska	140	100	90
Nevada	30	20	11
New Hampshire	1	1	1
New Jersey	2	2	2
New Mexico	15	10	5
New York	70	70	90
North Carolina	2	2	2
North Dakota	70	75	30
Ohio	60	50	30
Oklahoma	55	20	35
Oregon	70	50	20
Pennsylvania	80	65	45
South Dakota	135	130	65
Tennessee	1	1	3
Texas	10	15	20
Utah	65	60	45
Vermont	4	5	4
Virginia	7	6	6
Washington	50	60	40
West Virginia	1	1	3
Wisconsin	480	400	300
Wyoming	30	25	30
United States	2,469	2,184	1,646

- Represents zero.

Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	160.0	185.0	185.0	156.0	183.0	183.0
Arkansas	34.0	39.0	36.0	33.0	38.0	35.0
Florida	165.0	175.0	170.0	155.0	166.0	162.0
Georgia	675.0	810.0	755.0	660.0	805.0	750.0
Mississippi	20.0	23.0	18.0	19.0	22.0	17.0
New Mexico	4.7	6.5	11.2	4.7	5.2	11.0
North Carolina	104.0	107.0	115.0	102.0	105.0	114.0
Oklahoma	15.0	15.0	16.0	14.0	14.0	15.0
South Carolina	65.0	84.0	69.0	62.0	80.0	66.0
Texas	165.0	190.0	180.0	160.0	170.0	162.0
Virginia	25.0	28.0	30.0	24.0	27.0	30.0
United States	1,432.7	1,662.5	1,585.2	1,389.7	1,615.2	1,545.0

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Alabama	3,350	3,400	3,400	522,600	622,200	622,200
Arkansas	5,200	4,800	5,000	171,600	182,400	175,000
Florida	3,800	3,400	3,650	589,000	564,400	591,300
Georgia	4,170	4,120	4,450	2,752,200	3,316,600	3,337,500
Mississippi	4,000	4,400	4,200	76,000	96,800	71,400
New Mexico	3,210	2,850	2,600	15,087	14,820	28,600
North Carolina	4,400	3,900	4,350	448,800	409,500	495,900
Oklahoma	4,000	4,220	4,400	56,000	59,080	66,000
South Carolina	3,800	3,700	4,200	235,600	296,000	277,200
Texas	3,050	2,850	3,600	488,000	484,500	583,200
Virginia	4,650	4,150	4,700	111,600	112,050	141,000
United States	3,934	3,813	4,135	5,466,487	6,158,350	6,389,300

Canola Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Kansas	29.0	5.0	7.0	19.0	2.8	6.5
Minnesota	51.0	50.0	63.0	48.5	48.0	61.5
Montana	150.0	155.0	185.0	138.0	149.0	161.0
North Dakota	1,700.0	1,510.0	1,750.0	1,610.0	1,490.0	1,720.0
Oklahoma	35.0	11.0	12.0	21.0	7.0	10.0
Washington	75.0	93.0	135.0	73.0	91.0	130.0
United States	2,040.0	1,824.0	2,152.0	1,909.5	1,787.8	2,089.0

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Kansas	1,090	1,790	1,200	20,710	5,012	7,800
Minnesota	2,270	1,570	1,700	110,095	75,360	104,550
Montana	1,450	1,620	900	200,100	241,380	144,900
North Dakota	1,800	1,960	1,340	2,898,000	2,920,400	2,304,800
Oklahoma	1,410	1,530	1,550	29,610	10,710	15,500
Washington	1,950	2,200	1,100	142,350	200,200	143,000
United States	1,781	1,931	1,302	3,400,865	3,453,062	2,720,550

Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2019-2021

Varietal type and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Oil						
California	49.0	43.0	45.0	49.0	42.5	44.5
Colorado	47.0	42.0	41.0	44.0	32.0	39.0
Kansas	37.0	54.0	25.0	35.0	52.0	24.0
Minnesota	53.0	68.0	54.0	51.0	67.0	53.0
Nebraska	28.0	40.0	35.0	26.0	39.0	33.0
North Dakota	470.0	640.0	460.0	440.0	630.0	450.0
South Dakota	485.0	570.0	485.0	460.0	560.0	465.0
Texas	28.0	33.0	33.0	26.0	30.0	31.0
United States	1,197.0	1,490.0	1,178.0	1,131.0	1,452.5	1,139.5
Non-oil						
California	1.6	1.6	1.0	1.6	1.6	1.0
Colorado	12.0	18.0	12.0	11.0	17.0	11.5
Kansas	8.0	19.0	10.0	7.3	18.0	9.0
Minnesota	5.0	5.5	3.0	4.6	5.0	2.8
Nebraska	9.0	10.0	6.5	8.5	9.0	6.5
North Dakota	65.0	93.0	34.0	54.0	85.0	32.0
South Dakota	48.0	52.0	38.0	31.0	51.0	36.0
Texas	5.0	30.0	6.0	4.5	27.0	5.5
United States	153.6	229.1	110.5	122.5	213.6	104.3
All						
California	50.6	44.6	46.0	50.6	44.1	45.5
Colorado	59.0	60.0	53.0	55.0	49.0	50.5
Kansas	45.0	73.0	35.0	42.3	70.0	33.0
Minnesota	58.0	73.5	57.0	55.6	72.0	55.8
Nebraska	37.0	50.0	41.5	34.5	48.0	39.5
North Dakota	535.0	733.0	494.0	494.0	715.0	482.0
South Dakota	533.0	622.0	523.0	491.0	611.0	501.0
Texas	33.0	63.0	39.0	30.5	57.0	36.5
United States	1,350.6	1,719.1	1,288.5	1,253.5	1,666.1	1,243.8

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Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2019-2021 (continued)

Varietal type and State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Oil						
California	1,400	1,300	1,100	68,600	55,250	48,950
Colorado	1,000	830	930	44,000	26,560	36,270
Kansas	1,400	1,470	1,600	49,000	76,440	38,400
Minnesota	1,850	1,920	1,680	94,350	128,640	89,040
Nebraska	1,300	1,050	850	33,800	40,950	28,050
North Dakota	1,500	1,880	1,590	660,000	1,184,400	715,500
South Dakota	1,700	1,900	1,600	782,000	1,064,000	744,000
Texas	1,300	1,370	1,150	33,800	41,100	35,650
United States	1,561	1,802	1,523	1,765,550	2,617,340	1,735,860
Non-oil						
California	1,300	1,200	900	2,080	1,920	900
Colorado	1,400	1,150	950	15,400	19,550	10,925
Kansas	1,250	1,450	1,600	9,125	26,100	14,400
Minnesota	1,800	1,800	1,850	8,280	9,000	5,180
Nebraska	1,300	1,470	1,000	11,050	13,230	6,500
North Dakota	1,650	1,810	1,450	89,100	153,850	46,400
South Dakota	1,600	2,020	2,050	49,600	103,020	73,800
Texas	1,300	1,440	1,640	5,850	38,880	9,020
United States	1,555	1,711	1,602	190,485	365,550	167,125
All						
California	1,397	1,296	1,096	70,680	57,170	49,850
Colorado	1,080	941	935	59,400	46,110	47,195
Kansas	1,374	1,465	1,600	58,125	102,540	52,800
Minnesota	1,846	1,912	1,689	102,630	137,640	94,220
Nebraska	1,300	1,129	875	44,850	54,180	34,550
North Dakota	1,516	1,872	1,581	749,100	1,338,250	761,900
South Dakota	1,694	1,910	1,632	831,600	1,167,020	817,800
Texas	1,300	1,403	1,224	39,650	79,980	44,670
United States	1,560	1,790	1,530	1,956,035	2,982,890	1,902,985

Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	265	280	310	260	275	305
Arkansas	2,650	2,820	3,040	2,610	2,800	3,010
Delaware	155	150	155	153	148	153
Georgia	100	100	140	86	95	135
Illinois	9,950	10,300	10,600	9,860	10,250	10,510
Indiana	5,400	5,750	5,650	5,360	5,730	5,640
Iowa	9,200	9,450	10,100	9,120	9,370	10,030
Kansas	4,550	4,800	4,850	4,490	4,750	4,800
Kentucky	1,700	1,850	1,850	1,690	1,840	1,840
Louisiana	890	1,050	1,080	860	1,020	1,060
Maryland	480	485	490	475	465	485
Michigan	1,760	2,200	2,150	1,720	2,190	2,140
Minnesota	6,850	7,450	7,650	6,770	7,380	7,580
Mississippi	1,660	2,090	2,220	1,630	2,060	2,180
Missouri	5,100	5,850	5,700	5,010	5,810	5,650
Nebraska	4,900	5,200	5,600	4,840	5,160	5,570
New Jersey	95	94	100	92	93	99
New York	235	315	325	225	312	320
North Carolina	1,540	1,600	1,650	1,520	1,570	1,640
North Dakota	5,600	5,750	7,250	5,400	5,700	7,120
Ohio	4,300	4,950	4,900	4,270	4,920	4,880
Oklahoma	465	560	580	440	540	535
Pennsylvania	620	640	600	610	630	595
South Carolina	335	310	395	315	295	385
South Dakota	3,500	4,950	5,450	3,440	4,920	5,390
Tennessee	1,400	1,650	1,550	1,370	1,620	1,520
Texas	80	120	110	73	110	100
Virginia	570	570	600	560	560	590
Wisconsin	1,750	2,020	2,100	1,690	1,990	2,070
United States	76,100	83,354	87,195	74,939	82,603	86,332

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Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	36.0	41.0	46.0	9,360	11,275	14,030
Arkansas	49.0	51.5	51.0	127,890	144,200	153,510
Delaware	47.0	49.0	51.0	7,191	7,252	7,803
Georgia	29.0	41.0	46.0	2,494	3,895	6,210
Illinois	54.0	60.0	64.0	532,440	615,000	672,640
Indiana	51.0	59.0	59.5	273,360	338,070	335,580
Iowa	55.0	54.0	62.0	501,600	505,980	621,860
Kansas	41.5	41.0	39.5	186,335	194,750	189,600
Kentucky	46.0	55.0	56.0	77,740	101,200	103,040
Louisiana	48.0	53.0	52.0	41,280	54,060	55,120
Maryland	44.0	47.0	53.0	20,900	21,855	25,705
Michigan	40.5	48.0	51.0	69,660	105,120	109,140
Minnesota	44.0	50.0	47.0	297,880	369,000	356,260
Mississippi	50.0	54.0	54.0	81,500	111,240	117,720
Missouri	46.0	51.0	49.0	230,460	296,310	276,850
Nebraska	58.5	58.0	63.0	283,140	299,280	350,910
New Jersey	37.0	46.0	46.0	3,404	4,278	4,554
New York	48.0	51.0	53.0	10,800	15,912	16,960
North Carolina	35.0	38.0	40.0	53,200	59,660	65,600
North Dakota	31.5	34.0	25.5	170,100	193,800	181,560
Ohio	49.0	55.0	56.5	209,230	270,600	275,720
Oklahoma	29.0	30.0	23.0	12,760	16,200	12,305
Pennsylvania	49.0	46.0	53.0	29,890	28,980	31,535
South Carolina	26.0	35.0	38.0	8,190	10,325	14,630
South Dakota	42.5	46.0	40.0	146,200	226,320	215,600
Tennessee	47.0	50.0	50.0	64,390	81,000	76,000
Texas	28.0	34.0	38.0	2,044	3,740	3,800
Virginia	34.0	42.0	46.0	19,040	23,520	27,140
Wisconsin	47.0	52.0	55.0	79,430	103,480	113,850
United States	47.4	51.0	51.4	3,551,908	4,216,302	4,435,232

Soybean Objective Yield Data

The National Agricultural Statistics Service conducted an objective yield survey in 11 soybean producing States during 2021. Randomly selected plots in soybean fields were visited monthly from September through harvest to obtain specific counts and measurements. Data in these tables are actual field counts from this survey.

Soybean Pods with Beans per 18 Square Feet – Selected States: 2017-2021

State and month	2017	2018	2019	2020	2021	State and month	2017	2018	2019	2020	2021
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
Arkansas						**Missouri**					
September	1,992	1,841	1,759	1,630	1,449	September	2,041	1,777	1,719	1,977	1,925
October	1,898	1,795	1,731	1,527	1,501	October	2,172	1,899	1,754	2,093	1,886
November	2,039	1,943	1,717	1,459	1,583	November	2,253	1,948	1,898	2,036	2,047
Final	2,075	1,973	1,828	1,418	1,623	Final	2,239	1,961	1,921	2,041	2,121
Illinois						**Nebraska**					
September	1,917	2,132	1,696	2,019	2,080	September	1,653	1,736	1,669	1,943	1,887
October	1,886	2,225	1,683	2,127	2,120	October	1,795	2,071	1,777	2,002	2,069
November	1,947	2,249	1,601	2,170	2,222	November	1,853	2,174	1,722	1,980	2,148
Final	1,947	2,264	1,603	2,170	2,227	Final	1,853	2,174	1,722	1,980	2,148
Indiana						**North Dakota**					
September	1,795	1,880	1,496	2,056	1,846	September	1,406	1,418	1,147	1,242	1,055
October	1,772	2,001	1,501	1,994	1,811	October	1,430	1,485	1,246	1,439	1,014
November	1,774	2,054	1,569	1,963	1,822	November	1,465	1,515	1,253	1,442	1,009
Final	1,774	2,052	1,561	1,959	1,836	Final	1,451	1,514	1,195	1,442	1,009
Iowa						**Ohio**					
September	1,644	1,823	1,601	1,675	1,732	September	1,765	2,019	1,563	1,811	2,060
October	1,670	1,984	1,642	1,933	1,800	October	1,714	2,180	1,760	1,972	1,989
November	1,717	2,082	1,660	1,927	1,894	November	1,828	2,210	1,587	1,983	2,074
Final	1,735	2,097	1,682	1,927	1,890	Final	1,823	2,210	1,587	1,981	2,116
Kansas						**South Dakota**					
September	1,487	1,552	1,561	1,650	1,404	September	1,511	1,649	1,504	1,688	1,626
October	1,472	1,456	1,604	1,699	1,480	October	1,472	1,867	1,316	1,720	1,526
November	1,561	1,548	1,596	1,629	1,551	November	1,457	1,822	1,331	1,696	1,512
Final	1,561	1,558	1,583	1,629	1,514	Final	1,457	1,724	1,353	1,696	1,522
Minnesota						**11-State**					
September	1,359	1,605	1,465	1,607	1,603	September	1,678	1,786	1,561	1,780	1,717
October	1,407	1,616	1,474	1,782	1,545	October	1,692	1,895	1,593	1,882	1,725
November	1,480	1,569	1,458	1,751	1,557	November	1,751	1,938	1,582	1,866	1,788
Final	1,480	1,569	1,458	1,751	1,557	Final	1,752	1,938	1,586	1,865	1,798

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2017-2021

State and year		Row width (inches)				
		Less than 7.5 [1]	7.5	15	30	More than 30
		(number)	(number)	(number)	(number)	(number)
Arkansas	2017	9	25	42	39	79
	2018	9	36	47	36	83
	2019	-	14	13	21	25
	2020	5	14	14	36	49
	2021	2	13	16	29	42
Illinois	2017	2	10	109	59	2
	2018	3	11	118	58	-
	2019	2	5	82	33	1
	2020	-	11	91	44	-
	2021	2	7	80	38	-
Indiana	2017	3	28	101	12	-
	2018	1	19	110	14	-
	2019	-	5	57	9	1
	2020	1	11	87	8	-
	2021	1	14	60	8	-
Iowa	2017	1	3	80	94	1
	2018	1	11	77	88	3
	2019	1	9	51	66	-
	2020	1	8	63	85	3
	2021	2	3	61	69	1
Kansas	2017	10	14	32	43	2
	2018	2	17	35	54	1
	2019	-	10	23	16	-
	2020	1	9	19	27	-
	2021	1	12	15	16	1
Minnesota	2017	1	9	38	42	-
	2018	3	8	34	45	2
	2019	3	5	26	28	1
	2020	3	5	35	51	1
	2021	1	2	22	38	-
Missouri	2017	1	10	70	21	4
	2018	1	15	65	31	4
	2019	1	5	38	10	1
	2020	-	13	63	20	11
	2021	1	6	48	21	5
Nebraska	2017	1	4	38	51	8
	2018	3	7	35	49	8
	2019	-	6	37	49	5
	2020	-	8	39	58	1
	2021	1	9	31	50	4

See footnote(s) at end of table.

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Soybean Frequency of Farmer Reported Row Widths – Selected States: 2017-2021 (continued)

State and year	Row width (inches)				
	Less than 7.5 [1]	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
North Dakota 2017	5	16	56	7	1
2018	4	31	49	12	-
2019	3	11	28	6	-
2020	7	27	48	11	-
2021	-	16	55	13	-
Ohio 2017	2	38	83	8	-
2018	4	31	98	1	-
2019	2	11	42	1	-
2020	3	30	82	5	-
2021	2	21	64	3	1
South Dakota 2017	1	4	27	63	1
2018	2	4	27	61	1
2019	4	-	18	30	-
2020	-	-	43	44	-
2021	-	3	26	38	-

- Represents zero.
[1] Includes broadcast soybeans.

Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2017-2021

State and year	Samples	Row width (inches)					
		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 2017	197	16.3	24.2	2.3	19.8	37.4	26.4
2018	208	18.3	18.3	6.7	14.7	42.0	26.5
2019	73	19.2	15.1	5.5	23.3	36.9	26.6
2020	121	12.8	11.2	3.3	25.6	47.1	29.9
2021	105	11.9	15.2	6.2	30.5	36.2	27.9
Illinois 2017	181	6.1	50.6	5.0	37.7	0.6	20.8
2018	185	5.7	57.6	5.9	30.8	-	19.9
2019	119	4.6	58.0	10.9	26.5	-	19.4
2020	147	7.2	49.4	10.6	32.1	0.7	20.3
2021	128	5.5	56.9	5.5	31.3	0.8	19.9
Indiana 2017	141	14.6	68.3	9.3	7.8	-	15.8
2018	150	10.1	74.8	5.7	9.4	-	16.2
2019	74	4.1	74.7	11.6	9.6	-	17.3
2020	108	8.3	77.3	6.5	7.9	-	16.2
2021	84	12.5	64.3	12.5	10.7	-	16.4
Iowa 2017	180	1.1	34.4	12.8	50.6	1.1	23.7
2018	177	4.8	36.5	10.1	45.8	2.8	22.8
2019	124	4.9	36.0	9.7	48.6	0.8	23.1
2020	162	3.4	32.4	10.8	52.2	1.2	23.8
2021	136	1.5	37.5	11.0	49.3	0.7	23.6
Kansas 2017	105	9.0	38.1	5.7	47.2	-	21.8
2018	106	8.1	39.3	6.6	45.1	0.9	22.0
2019	49	9.2	47.0	7.1	36.7	-	20.4
2020	57	5.3	50.9	2.6	37.7	3.5	21.1
2021	49	12.2	46.0	7.1	34.7	-	19.8
Minnesota 2017	88	7.4	23.3	18.8	50.5	-	23.5
2018	85	10.0	28.8	14.7	46.5	-	22.6
2019	59	11.9	18.6	26.3	41.5	1.7	23.0
2020	93	7.5	19.9	15.6	54.8	2.2	24.5
2021	61	4.1	14.8	23.8	57.3	-	25.2
Missouri 2017	106	9.4	63.7	5.7	19.3	1.9	18.3
2018	113	12.8	52.7	8.0	23.0	3.5	19.2
2019	51	7.8	68.7	7.8	15.7	-	17.8
2020	110	13.6	50.5	10.0	19.5	6.4	19.3
2021	80	10.0	58.7	6.3	22.5	2.5	19.1
Nebraska 2017	100	4.0	31.0	10.5	47.0	7.5	24.2
2018	101	5.9	27.2	10.9	48.1	7.9	24.3
2019	98	4.6	32.1	11.2	47.0	5.1	23.9
2020	107	5.2	32.4	10.8	50.7	0.9	22.9
2021	96	7.3	30.7	8.3	48.5	5.2	23.2

See footnote(s) at end of table.

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Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2017-2021 (continued)

State and year	Samples	Row width (inches)					
		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 Dakota 2017	84	17.3	55.3	17.9	8.3	1.2	16.2
2018	96	21.9	45.3	22.9	7.3	2.6	16.4
2019	48	17.7	49.0	22.9	10.4	-	17.1
2020	92	21.7	48.9	17.4	12.0	-	16.1
2021	85	18.2	44.1	27.1	10.6	-	17.2
Ohio 2017	134	25.4	66.4	2.6	5.6	-	14.1
2018	134	20.9	76.5	2.6	-	-	13.7
2019	57	22.8	77.2	-	-	-	13.6
2020	121	25.6	67.0	3.3	4.1	-	14.1
2021	92	25.0	67.3	3.3	3.3	1.1	14.1
South Dakota 2017	93	2.7	17.8	16.2	61.7	1.6	25.9
2018	94	4.3	15.4	17.6	62.2	0.5	25.7
2019	43	2.3	10.5	27.9	59.3	-	26.6
2020	88	-	24.6	27.4	46.3	1.7	24.2
2021	64	3.1	14.8	33.6	46.2	2.3	24.4

- 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: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Montana	99	105	135	89	102	97
North Dakota	275	200	190	195	194	171
United States	374	305	325	284	296	268

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Montana	15.0	16.0	5.0	1,335	1,632	485
North Dakota	22.0	21.0	13.0	4,290	4,074	2,223
United States	19.8	19.3	10.1	5,625	5,706	2,708

Safflower Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	57.0	23.0	40.0	56.5	22.7	39.5
Idaho	29.0	27.5	34.0	28.5	26.5	31.5
Montana	53.0	49.0	40.0	43.0	44.0	33.0
South Dakota	13.8	15.5	16.0	10.8	13.2	15.0
Utah	13.0	23.0	22.0	12.7	22.0	16.0
United States	165.8	138.0	152.0	151.5	128.4	135.0

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California	1,950	2,350	2,100	110,175	53,345	82,950
Idaho	940	880	470	26,790	23,320	14,805
Montana	840	930	570	36,120	40,920	18,810
South Dakota	600	1,250	750	6,480	16,500	11,250
Utah	1,050	820	460	13,335	18,040	7,360
United States	1,273	1,185	1,001	192,900	152,125	135,175

Other Oilseed Area Planted and Harvested, Yield, and Production by Crop – United States: 2019-2021

Crop	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Rapeseed [1]	11.3	11.2	14.3	10.4	10.1	12.5
Mustard seed [2]	98.0	97.0	103.0	90.0	91.4	89.3
State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Rapeseed [1]	2,160	1,971	1,809	22,464	19,910	22,616
Mustard seed [2]	706	895	491	63,580	81,770	43,834

[1] Other States include Delaware, Idaho, Kentucky, North Carolina, Pennsylvania, South Carolina, Tennessee, and Virginia.
[2] Other States include Idaho, Montana, and North Dakota.

Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2019-2021

Type and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Upland						
Alabama	540.0	450.0	405.0	532.0	446.0	400.0
Arizona	160.0	125.0	120.0	158.0	123.0	119.0
Arkansas	620.0	525.0	480.0	610.0	520.0	475.0
California	54.0	34.0	26.0	53.0	33.5	25.5
Florida	112.0	98.0	91.0	110.0	93.0	89.0
Georgia	1,400.0	1,190.0	1,170.0	1,380.0	1,180.0	1,160.0
Kansas	175.0	195.0	110.0	149.0	184.0	101.0
Louisiana	280.0	170.0	110.0	268.0	165.0	105.0
Mississippi	710.0	530.0	450.0	700.0	525.0	435.0
Missouri	380.0	295.0	315.0	368.0	287.0	310.0
New Mexico	63.0	43.0	36.0	44.0	26.0	26.0
North Carolina	510.0	360.0	375.0	500.0	330.0	365.0
Oklahoma	640.0	525.0	495.0	450.0	435.0	435.0
South Carolina	300.0	190.0	210.0	295.0	179.0	205.0
Tennessee	410.0	280.0	275.0	405.0	275.0	270.0
Texas	7,050.0	6,800.0	6,350.0	5,150.0	3,200.0	5,250.0
Virginia	103.0	80.0	75.0	102.0	79.0	74.0
United States	13,507.0	11,890.0	11,093.0	11,274.0	8,080.5	9,844.5
American Pima						
Arizona	7.5	6.5	9.0	7.5	6.5	8.8
California	204.0	147.0	88.0	201.0	146.0	87.0
New Mexico	5.2	10.5	12.5	4.9	10.5	12.0
Texas	12.0	38.0	17.0	10.0	31.0	16.0
United States	228.7	202.0	126.5	223.4	194.0	123.8
All						
Alabama	540.0	450.0	405.0	532.0	446.0	400.0
Arizona	167.5	131.5	129.0	165.5	129.5	127.8
Arkansas	620.0	525.0	480.0	610.0	520.0	475.0
California	258.0	181.0	114.0	254.0	179.5	112.5
Florida	112.0	98.0	91.0	110.0	93.0	89.0
Georgia	1,400.0	1,190.0	1,170.0	1,380.0	1,180.0	1,160.0
Kansas	175.0	195.0	110.0	149.0	184.0	101.0
Louisiana	280.0	170.0	110.0	268.0	165.0	105.0
Mississippi	710.0	530.0	450.0	700.0	525.0	435.0
Missouri	380.0	295.0	315.0	368.0	287.0	310.0
New Mexico	68.2	53.5	48.5	48.9	36.5	38.0
North Carolina	510.0	360.0	375.0	500.0	330.0	365.0
Oklahoma	640.0	525.0	495.0	450.0	435.0	435.0
South Carolina	300.0	190.0	210.0	295.0	179.0	205.0
Tennessee	410.0	280.0	275.0	405.0	275.0	270.0
Texas	7,062.0	6,838.0	6,367.0	5,160.0	3,231.0	5,266.0
Virginia	103.0	80.0	75.0	102.0	79.0	74.0
United States	13,735.7	12,092.0	11,219.5	11,497.4	8,274.5	9,968.3

See footnote(s) at end of table.

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Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2019-2021 (continued)

Type and State	Yield per acre			Production [1]		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 bales) [2]	(1,000 bales) [2]	(1,000 bales) [2]
Upland						
Alabama	928	790	846	1,028.0	734.0	705.0
Arizona	1,154	1,179	1,291	380.0	302.0	320.0
Arkansas	1,185	1,179	1,263	1,506.0	1,277.0	1,250.0
California	1,576	2,006	2,071	174.0	140.0	110.0
Florida	895	532	674	205.0	103.0	125.0
Georgia	953	887	931	2,740.0	2,180.0	2,250.0
Kansas	902	783	950	280.0	300.0	200.0
Louisiana	1,042	986	960	582.0	339.0	210.0
Mississippi	1,112	1,079	1,015	1,621.0	1,180.0	920.0
Missouri	1,193	1,144	1,293	915.0	684.0	835.0
New Mexico	840	1,052	868	77.0	57.0	47.0
North Carolina	998	759	999	1,040.0	522.0	760.0
Oklahoma	703	702	783	659.0	636.0	710.0
South Carolina	809	802	995	497.0	299.0	425.0
Tennessee	1,138	1,066	1,067	960.0	611.0	600.0
Texas	589	686	695	6,320.0	4,570.0	7,600.0
Virginia	1,144	772	1,232	243.0	127.0	190.0
United States	819	835	841	19,227.0	14,061.0	17,257.0
American Pima						
Arizona	800	1,034	1,091	12.5	14.0	20.0
California	1,545	1,562	1,694	647.0	475.0	307.0
New Mexico	882	663	600	9.0	14.5	15.0
Texas	816	666	750	17.0	43.0	25.0
United States	1,473	1,352	1,423	685.5	546.5	367.0
All						
Alabama	928	790	846	1,028.0	734.0	705.0
Arizona	1,138	1,171	1,277	392.5	316.0	340.0
Arkansas	1,185	1,179	1,263	1,506.0	1,277.0	1,250.0
California	1,551	1,645	1,779	821.0	615.0	417.0
Florida	895	532	674	205.0	103.0	125.0
Georgia	953	887	931	2,740.0	2,180.0	2,250.0
Kansas	902	783	950	280.0	300.0	200.0
Louisiana	1,042	986	960	582.0	339.0	210.0
Mississippi	1,112	1,079	1,015	1,621.0	1,180.0	920.0
Missouri	1,193	1,144	1,293	915.0	684.0	835.0
New Mexico	844	940	783	86.0	71.5	62.0
North Carolina	998	759	999	1,040.0	522.0	760.0
Oklahoma	703	702	783	659.0	636.0	710.0
South Carolina	809	802	995	497.0	299.0	425.0
Tennessee	1,138	1,066	1,067	960.0	611.0	600.0
Texas	589	685	695	6,337.0	4,613.0	7,625.0
Virginia	1,144	772	1,232	243.0	127.0	190.0
United States	831	847	849	19,912.5	14,607.5	17,624.0

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

Cottonseed Production – States and United States: 2019-2021

State	Production		
	2019	2020	2021 [1]
	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama	267.0	205.0	201.0
Arizona	136.0	107.0	116.0
Arkansas	472.0	402.0	397.0
California	290.0	214.0	150.0
Florida	57.0	28.0	34.0
Georgia	778.0	613.0	634.0
Kansas	85.0	99.0	64.0
Louisiana	192.0	109.0	68.0
Mississippi	503.0	373.0	287.0
Missouri	253.0	210.0	282.0
New Mexico	26.0	14.0	20.0
North Carolina	308.0	121.0	232.0
Oklahoma	191.0	189.0	209.0
South Carolina	116.0	84.0	121.0
Tennessee	301.0	186.0	175.0
Texas	1,902.0	1,448.0	2,335.0
Virginia	68.0	33.0	52.0
United States	5,945.0	4,435.0	5,377.0

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

Tobacco Area Harvested, Yield, and Production – States and United States: 2019-2021

State	Area harvested			Yield per acre		
	2019	2020	2021	2019	2020	2021
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)
Georgia	9,000	7,900	8,000	2,100	2,450	1,800
Kentucky	57,400	49,000	49,800	2,150	2,090	2,351
North Carolina	117,400	99,310	120,250	1,999	1,800	2,099
Pennsylvania	5,700	5,500	5,350	2,509	2,444	2,621
South Carolina	8,300	5,500	7,600	1,900	1,200	1,800
Tennessee	13,300	11,600	12,900	2,292	2,409	2,477
Virginia	16,020	12,300	15,030	1,898	1,985	2,293
United States	227,120	191,110	218,930	2,060	1,951	2,183

State	Production		
	2019	2020	2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Georgia	18,900	19,355	14,400
Kentucky	123,390	102,395	117,060
North Carolina	234,700	178,727	252,400
Pennsylvania	14,300	13,440	14,020
South Carolina	15,770	6,600	13,680
Tennessee	30,490	27,940	31,950
Virginia	30,406	24,420	34,463
United States	467,956	372,877	477,973

Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2019-2021

Class, type, and State	Area harvested		
	2019	2020	2021
	(acres)	(acres)	(acres)
Class 1, Flue-cured (11-14)			
Georgia	9,000	7,900	8,000
North Carolina	117,000	99,000	120,000
South Carolina	8,300	5,500	7,600
Virginia	15,000	11,700	14,500
United States	149,300	124,100	150,100
Class 2, Fire-cured (21-23)			
Kentucky	9,500	8,300	8,700
Tennessee	6,300	5,700	6,000
Virginia	320	200	170
United States	16,120	14,200	14,870
Class 3A, Light air-cured			
Type 31, Burley			
Kentucky	41,000	35,000	35,000
North Carolina	400	310	250
Pennsylvania	2,500	2,800	2,500
Tennessee	4,000	2,500	2,900
Virginia	700	400	360
United States	48,600	41,010	41,010
Type 32, Southern Maryland			
Pennsylvania	1,000	400	350
United States	1,000	400	350
Total light air-cured (31-32)	49,600	41,410	41,360
Class 3B, Dark air-cured (35-37)			
Kentucky	6,900	5,700	6,100
Tennessee	3,000	3,400	4,000
United States	9,900	9,100	10,100
Class 4, Cigar filler			
Type 41, Pennsylvania Seedleaf			
Pennsylvania	2,200	2,300	2,500
United States	2,200	2,300	2,500
All Tobacco			
United States	227,120	191,110	218,930

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Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2019-2021 (continued)

Class, type, and State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Class 1, Flue-cured (11-14)						
Georgia	2,100	2,450	1,800	18,900	19,355	14,400
North Carolina	2,000	1,800	2,100	234,000	178,200	252,000
South Carolina	1,900	1,200	1,800	15,770	6,600	13,680
Virginia	1,900	2,000	2,300	28,500	23,400	33,350
United States	1,990	1,834	2,088	297,170	227,555	313,430
Class 2, Fire-cured (21-23)						
Kentucky	2,900	2,500	3,350	27,550	20,750	29,145
Tennessee	2,800	2,850	3,100	17,640	16,245	18,600
Virginia	1,800	1,700	2,100	576	340	357
United States	2,839	2,629	3,235	45,766	37,335	48,102
Class 3A, Light air-cured						
Type 31, Burley						
Kentucky	1,900	1,950	2,050	77,900	68,250	71,750
North Carolina	1,750	1,700	1,600	700	527	400
Pennsylvania	2,600	2,500	2,800	6,500	7,000	7,000
Tennessee	1,600	1,550	1,500	6,400	3,875	4,350
Virginia	1,900	1,700	2,100	1,330	680	756
United States	1,910	1,959	2,055	92,830	80,332	84,256
Type 32, Southern Maryland Belt						
Pennsylvania	2,300	2,300	2,200	2,300	920	770
United States	2,300	2,300	2,200	2,300	920	770
Total light air-cured (31-32)	1,918	1,962	2,056	95,130	81,252	85,026
Class 3B, Dark air-cured (35-37)						
Kentucky	2,600	2,350	2,650	17,940	13,395	16,165
Tennessee	2,150	2,300	2,250	6,450	7,820	9,000
United States	2,464	2,331	2,492	24,390	21,215	25,165
Class 4, Cigar filler						
Type 41, Pennsylvania Seedleaf						
Pennsylvania	2,500	2,400	2,500	5,500	5,520	6,250
United States	2,500	2,400	2,500	5,500	5,520	6,250
All tobacco						
United States	2,060	1,951	2,183	467,956	372,877	477,973

Sugarbeet Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

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

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California [1]	24.5	24.1	24.0	24.4	23.4	23.8
Colorado	25.1	24.2	24.3	24.3	23.7	23.6
Idaho	171.0	171.0	172.0	165.0	168.0	170.0
Michigan	146.0	157.0	155.0	145.0	154.0	142.0
Minnesota	425.0	433.0	427.0	337.0	429.0	396.0
Montana	41.8	43.6	43.7	36.5	38.1	43.5
Nebraska	44.0	46.2	44.4	42.1	45.7	43.8
North Dakota	212.0	221.0	226.0	170.0	218.0	222.0
Oregon	10.0	9.5	10.5	9.8	9.4	10.4
Washington	2.0	1.9	1.9	2.0	1.9	1.9
Wyoming	31.6	30.7	31.2	24.0	30.6	30.6
United States	1,133.0	1,162.2	1,160.0	980.1	1,141.8	1,107.6

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
California [1]	45.4	46.6	46.0	1,108	1,090	1,095
Colorado	30.7	31.3	33.7	746	742	795
Idaho	39.0	40.5	39.5	6,435	6,804	6,715
Michigan	28.6	28.3	37.4	4,147	4,358	5,311
Minnesota	25.0	26.1	31.0	8,425	11,197	12,276
Montana	31.6	31.3	29.8	1,153	1,193	1,296
Nebraska	25.4	31.0	31.9	1,069	1,417	1,397
North Dakota	26.0	24.9	29.2	4,420	5,428	6,482
Oregon	38.5	40.9	37.9	377	384	394
Washington	45.4	47.8	45.9	91	91	87
Wyoming	28.3	29.6	29.5	679	906	903
United States	29.2	29.4	33.2	28,650	33,610	36,751

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

Sugarcane Area Harvested, Yield, and Production – States and United States: 2019-2021

State	Area harvested			Yield per acre [1]		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
For sugar						
Florida	397.0	409.0	392.0	42.8	44.3	42.0
Louisiana	442.0	461.0	464.0	27.7	32.9	29.5
Texas	31.3	33.4	34.2	33.6	31.5	31.6
United States	870.3	903.4	890.2	34.8	38.0	35.1
For seed						
Florida	13.7	14.3	14.5	47.6	47.3	46.6
Louisiana	27.0	27.4	30.6	34.0	36.5	34.2
Texas	2.2	2.5	2.2	36.5	34.3	33.7
United States	42.9	44.2	47.3	38.5	39.9	38.0
For sugar and seed						
Florida	410.7	423.3	406.5	43.0	44.4	42.2
Louisiana	469.0	488.4	494.6	28.1	33.1	29.8
Texas	33.5	35.9	36.4	33.8	31.7	31.7
United States	913.2	947.6	937.5	35.0	38.1	35.2

State	Production [1]		
	2019	2020	2021
	(1,000 tons)	(1,000 tons)	(1,000 tons)
For sugar			
Florida	16,992	18,119	16,464
Louisiana	12,243	15,167	13,688
Texas	1,052	1,052	1,081
United States	30,287	34,338	31,233
For seed			
Florida	652	676	676
Louisiana	918	1,000	1,047
Texas	80	86	74
United States	1,650	1,762	1,797
For sugar and seed			
Florida	17,644	18,795	17,140
Louisiana	13,161	16,167	14,735
Texas	1,132	1,138	1,155
United States	31,937	36,100	33,030

[1] Net tons.

Potato Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	40.5	29.0	28.0	40.1	28.9	27.7
Colorado	51.3	54.0	53.0	51.0	53.8	52.2
San Luis Valley [1]	48.6	(NA)	(NA)	48.4	(NA)	(NA)
All other areas [1]	2.7	(NA)	(NA)	2.6	(NA)	(NA)
Florida	26.0	21.0	21.0	25.3	20.4	19.9
Idaho	310.0	300.0	315.0	308.0	299.5	314.5
Maine	52.0	51.0	54.0	51.5	50.8	53.5
Michigan	50.0	46.0	47.0	48.5	45.0	46.5
Minnesota	46.0	42.0	42.0	43.0	41.2	41.7
Nebraska	20.5	19.0	19.0	20.2	18.8	18.9
North Dakota	73.0	72.0	76.0	58.0	70.0	75.0
Oregon	43.0	45.0	45.0	42.9	45.0	44.8
Texas	15.0	15.5	14.0	14.8	15.3	13.0
Washington	165.0	155.0	160.0	164.0	154.5	159.5
Wisconsin	71.0	69.0	69.0	70.0	68.5	68.5
United States	963.3	918.5	943.0	937.3	911.7	935.7

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(cwt)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
California	420	445	430	16,842	12,861	11,911
Colorado	386	420	400	19,666	22,596	20,880
San Luis Valley [1]	380	(NA)	(NA)	18,392	(NA)	(NA)
All other areas [1]	490	(NA)	(NA)	1,274	(NA)	(NA)
Florida	275	260	270	6,958	5,304	5,373
Idaho	425	450	410	130,900	134,775	128,945
Maine	325	265	350	16,738	13,462	18,725
Michigan	420	390	420	20,370	17,550	19,530
Minnesota	415	435	445	17,845	17,922	18,557
Nebraska	475	490	485	9,595	9,212	9,167
North Dakota	335	340	290	19,430	23,800	21,750
Oregon	590	600	590	25,311	27,000	26,432
Texas	480	465	460	7,104	7,115	5,980
Washington	640	645	585	104,960	99,653	93,308
Wisconsin	410	420	425	28,700	28,770	29,113
United States	453	461	438	424,419	420,020	409,671

(NA) Not available.
[1] Estimates discontinued in 2020.

Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

[Excludes chickpeas]

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California	27.9	25.0	16.0	27.9	25.0	15.4
Colorado	37.0	57.0	33.0	33.2	52.0	32.0
Idaho	47.0	68.0	58.0	45.0	66.0	57.0
Michigan	185.0	255.0	210.0	180.0	253.0	208.0
Minnesota	210.3	275.0	240.0	196.7	263.0	234.0
Nebraska	120.1	165.0	120.0	96.8	159.0	114.0
North Dakota	616.5	815.0	660.0	551.5	785.0	620.0
Washington	26.0	39.0	40.0	25.9	38.0	39.5
Wyoming	21.0	28.0	17.0	17.3	23.5	15.7
United States	1,290.8	1,727.0	1,394.0	1,174.3	1,664.5	1,335.6

State	Yield per acre [1]			Production [1]		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
California	2,610	2,390	2,450	729	598	377
Colorado	1,840	2,070	1,880	610	1,074	602
Idaho	2,370	2,410	2,610	1,067	1,592	1,486
Michigan	2,040	2,340	2,410	3,663	5,914	5,011
Minnesota	2,040	2,100	1,960	4,017	5,523	4,596
Nebraska	1,940	2,260	2,440	1,879	3,597	2,780
North Dakota	1,400	1,630	1,030	7,713	12,794	6,397
Washington	2,660	2,800	2,770	688	1,064	1,094
Wyoming	2,250	2,170	2,410	390	509	378
United States	1,768	1,962	1,701	20,756	32,665	22,721

[1] Clean basis.

Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021

Class and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Large lima						
California	7.3	7.8	5.8	7.3	7.8	5.6
Colorado	-	-	-	-	-	-
Idaho	(D)	(D)	(D)	(D)	(D)	(D)
Michigan	-	-	(D)	-	-	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	-	-	-	-	-	-
Other States [1]	1.7	1.4	1.6	1.7	1.4	1.6
United States	9.0	9.2	7.4	9.0	9.2	7.2
Baby lima						
California	8.4	5.2	3.5	8.4	5.2	3.2
Colorado	-	-	-	-	-	-
Idaho	(D)	(D)	0.7	(D)	(D)	0.6
Michigan	-	-	(D)	-	-	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	-	-	-	-	-
North Dakota	-	-	-	-	-	-
Washington	(D)	2.9	(D)	(D)	2.9	(D)
Wyoming	-	-	-	-	-	-
Other States [1]	1.9	0.7	3.3	1.9	0.7	3.3
United States	10.3	8.8	7.5	10.3	8.8	7.1
Navy						
California	-	(D)	-	-	(D)	-
Colorado	-	(D)	(D)	-	(D)	(D)
Idaho	1.3	1.0	1.0	1.2	0.9	0.9
Michigan	55.0	85.0	68.0	54.4	84.4	67.6
Minnesota	39.3	54.0	50.5	35.9	51.8	49.7
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	75.0	92.5	76.0	71.0	85.7	70.7
Washington	(D)	0.8	(D)	(D)	0.8	(D)
Wyoming	(D)	(D)	-	(D)	(D)	-
Other States [1]	1.9	2.6	1.2	1.6	2.1	1.2
United States	172.5	235.9	196.7	164.1	225.7	190.1

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Yield per acre [2]			Production [2]		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Large lima						
California	2,350	2,470	2,500	172	193	140
Colorado	(X)	(X)	(X)	-	-	-
Idaho	(D)	(D)	(D)	(D)	(D)	(D)
Michigan	(X)	(X)	(D)	-	-	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(X)	(X)	(X)	-	-	-
North Dakota	(X)	(X)	(X)	-	-	-
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	(X)	(X)	(X)	-	-	-
Other States [1]	1,647	2,357	2,188	28	33	35
United States	2,222	2,457	2,431	200	226	175
Baby lima						
California	2,930	2,490	2,400	246	129	77
Colorado	(X)	(X)	(X)	-	-	-
Idaho	(D)	(D)	2,150	(D)	(D)	13
Michigan	(X)	(X)	(D)	-	-	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(X)	(X)	(X)	-	-	-
North Dakota	(X)	(X)	(X)	-	-	-
Washington	(D)	2,090	(D)	(D)	61	(D)
Wyoming	(X)	(X)	(X)	-	-	-
Other States [1]	2,263	2,714	2,394	43	19	79
United States	2,806	2,375	2,380	289	209	169
Navy						
California	(X)	(D)	(X)	-	(D)	-
Colorado	(X)	(D)	(D)	-	(D)	(D)
Idaho	2,730	2,670	3,000	33	24	27
Michigan	2,150	2,390	2,700	1,170	2,017	1,825
Minnesota	1,950	2,050	1,700	700	1,062	845
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	1,460	1,610	1,150	1,037	1,380	813
Washington	(D)	3,150	(D)	(D)	25	(D)
Wyoming	(D)	(D)	(X)	(D)	(D)	-
Other States [1]	2,625	2,048	2,167	42	43	26
United States	1,817	2,016	1,860	2,982	4,551	3,536

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Great northern						
California	-	-	-	-	-	-
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	3.7	4.5	3.7	3.5	4.4	3.6
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	48.0	57.3	36.5	38.1	56.0	34.4
North Dakota	4.4	(D)	9.4	3.9	(D)	8.7
Washington	0.7	0.9	1.2	0.7	0.9	1.2
Wyoming	1.3	(D)	0.6	1.2	(D)	0.6
Other States [1]	4.4	16.6	3.7	4.1	15.8	3.7
United States	62.5	79.3	55.1	51.5	77.1	52.2
Small white						
California	-	(D)	-	-	(D)	-
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	1.2	1.8	2.3	1.1	1.7	2.2
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	-	-	-	-	-	-
Washington	(D)	(D)	1.2	(D)	(D)	1.2
Wyoming	-	-	-	-	-	-
Other States [1]	4.3	3.1	2.4	4.3	3.1	2.4
Unites States	5.5	4.9	5.9	5.4	4.8	5.8

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Yield per acre [2]			Production [2]		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Great northern						
California	(X)	(X)	(X)	-	-	-
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	2,230	2,380	2,660	78	105	96
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	1,950	2,350	2,540	743	1,316	874
North Dakota	1,840	(D)	1,220	72	(D)	106
Washington	2,860	2,620	2,350	20	24	28
Wyoming	2,180	(D)	2,170	26	(D)	13
Other States [1]	2,146	2,013	1,784	88	318	66
United States	1,994	2,287	2,266	1,027	1,763	1,183
Small white						
California	(X)	(D)	(X)	-	(D)	-
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	1,890	2,440	2,580	21	41	57
Michigan	(D)	(D)	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	(X)	(X)	(X)	-	-	-
Washington	(D)	(D)	2,800	(D)	(D)	34
Wyoming	(X)	(X)	(X)	-	-	-
Other States [1]	2,140	2,774	2,125	92	86	51
United States	2,093	2,646	2,448	113	127	142

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Pinto						
California	-	(D)	-	-	(D)	-
Colorado	25.5	39.0	20.0	23.5	35.5	19.4
Idaho	14.0	25.4	20.0	13.5	25.1	19.9
Michigan	3.5	(D)	2.5	3.3	(D)	2.5
Minnesota	11.4	22.0	18.2	10.8	21.0	17.4
Nebraska	51.0	77.8	58.0	43.1	74.4	55.4
North Dakota	368.0	560.0	456.0	328.0	544.0	425.0
Washington	7.4	13.2	11.2	7.3	13.0	11.0
Wyoming	15.0	20.0	13.5	12.5	17.5	12.5
Other States [1]	-	2.9	-	-	2.9	-
United States	495.8	760.3	599.4	442.0	733.4	563.1
Light red kidney						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	5.6	8.3	5.8	4.5	7.7	5.7
Idaho	2.0	2.4	1.9	1.9	2.3	1.9
Michigan	7.0	7.5	7.5	5.9	7.4	7.4
Minnesota	20.1	24.9	25.6	18.9	23.8	24.9
Nebraska	11.0	13.3	10.3	6.6	12.0	9.6
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	(D)	2.8	3.7	(D)	2.8	3.7
Wyoming	-	(D)	-	-	(D)	-
Other States [1]	3.6	1.2	3.2	2.7	1.2	3.2
United States	49.3	60.4	58.0	40.5	57.2	56.4
Dark red kidney						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	-	(D)	-	-	(D)	-
Idaho	3.4	4.4	4.2	3.3	4.3	4.1
Michigan	3.0	3.0	2.5	2.7	2.9	2.4
Minnesota	65.8	84.5	67.4	60.8	80.7	66.2
Nebraska	(D)	(D)	-	(D)	(D)	-
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	(D)	1.9	1.1	(D)	1.9	1.1
Wyoming	-	-	(D)	-	-	(D)
Other States [1]	6.5	8.9	7.7	4.3	8.3	7.1
United States	78.7	102.7	82.9	71.1	98.1	80.9

See footnote(s) at end of table.

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Dry Edible Bean Area Planted, Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Yield per acre [2]			Production [2]		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Pinto						
California	(X)	(D)	(X)	-	(D)	-
Colorado	1,590	2,040	1,840	374	724	357
Idaho	2,490	2,560	2,720	336	643	541
Michigan	1,640	(D)	1,700	54	(D)	43
Minnesota	1,920	1,490	1,130	207	313	197
Nebraska	1,960	2,360	2,610	845	1,756	1,446
North Dakota	1,370	1,670	990	4,494	9,085	4,208
Washington	2,800	3,060	3,000	204	398	330
Wyoming	2,310	2,130	2,460	289	373	308
Other States [1]	(X)	2,276	(X)	-	66	-
United States	1,539	1,821	1,319	6,803	13,358	7,430
Light red kidney						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	2,830	2,410	2,550	127	186	145
Idaho	2,250	2,220	2,400	43	51	46
Michigan	1,650	1,960	1,410	97	145	104
Minnesota	2,300	2,560	2,550	435	609	635
Nebraska	2,090	1,800	1,900	138	216	182
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	(D)	2,780	2,420	(D)	78	90
Wyoming	(X)	(D)	(X)	-	(D)	-
Other States [1]	2,593	1,417	1,844	70	17	59
United States	2,247	2,276	2,236	910	1,302	1,261
Dark red kidney						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	(X)	(D)	(X)	-	(D)	-
Idaho	2,170	2,420	2,290	72	104	94
Michigan	1,050	1,160	1,200	28	34	29
Minnesota	2,100	2,200	2,400	1,277	1,775	1,589
Nebraska	(D)	(D)	(X)	(D)	(D)	-
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	(D)	2,830	2,560	(D)	54	28
Wyoming	(X)	(X)	(D)	-	-	(D)
Other States [1]	1,558	1,241	1,141	67	103	81
United States	2,031	2,110	2,251	1,444	2,070	1,821

See footnote(s) at end of table.

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Dry Edible Bean Area Planted, Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Pink						
California	(D)	-	(D)	(D)	-	(D)
Colorado	-	(D)	-	-	(D)	-
Idaho	5.1	6.0	6.7	4.9	5.9	6.6
Michigan	-	-	-	-	-	-
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	-	(D)	-	-	(D)
North Dakota	8.2	5.4	5.8	7.8	5.4	5.8
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	-	-	(D)	-	-	(D)
Other States [1]	5.3	5.2	5.5	5.1	5.0	5.3
United States	18.6	16.6	18.0	17.8	16.3	17.7
Small red						
California	-	(D)	-	-	(D)	-
Colorado	-	(D)	(D)	-	(D)	(D)
Idaho	3.5	5.5	4.8	3.3	5.3	4.7
Michigan	11.0	21.0	20.0	10.8	20.8	19.7
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	(D)	(D)	-	(D)	(D)
North Dakota	11.8	13.8	16.8	8.7	13.5	15.8
Washington	2.7	4.2	2.2	2.7	4.2	2.2
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States [1]	2.2	3.1	4.6	2.0	3.0	4.3
United States	31.2	47.6	48.4	27.5	46.8	46.7
Cranberry						
California	0.3	(D)	(D)	0.3	(D)	(D)
Colorado	(D)	-	-	(D)	-	-
Idaho	1.3	(D)	(D)	1.2	(D)	(D)
Michigan	2.7	2.4	2.5	2.5	2.4	2.4
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	-	(D)	-	-	(D)	-
North Dakota	(D)	1.0	(D)	(D)	0.9	(D)
Washington	1.5	1.8	(D)	1.5	1.7	(D)
Wyoming	-	-	-	-	-	-
Other States [1]	4.8	2.3	10.7	3.2	2.2	10.7
United States	10.6	7.5	13.2	8.7	7.2	13.1

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Yield per acre [2]			Production [2]		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Pink						
California	(D)	(X)	(D)	(D)	-	(D)
Colorado	(X)	(D)	(X)	-	(D)	-
Idaho	2,380	2,650	2,680	117	156	177
Michigan	(X)	(X)	(X)	-	-	-
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(X)	(X)	(D)	-	-	(D)
North Dakota	1,150	1,210	1,020	90	65	59
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	(X)	(X)	(D)	-	-	(D)
Other States [1]	1,588	1,900	1,868	81	95	99
United States	1,618	1,939	1,893	288	316	335
Small red						
California	(X)	(D)	(X)	-	(D)	-
Colorado	(X)	(D)	(D)	-	(D)	(D)
Idaho	2,190	1,970	2,420	72	104	114
Michigan	2,160	2,350	2,260	233	489	445
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(X)	(D)	(D)	-	(D)	(D)
North Dakota	1,760	1,630	1,630	153	220	258
Washington	2,520	2,720	2,800	68	114	62
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States [1]	2,400	1,300	1,605	48	39	69
United States	2,087	2,064	2,030	574	966	948
Cranberry						
California	2,300	(D)	(D)	7	(D)	(D)
Colorado	(D)	(X)	(X)	(D)	-	-
Idaho	2,260	(D)	(D)	27	(D)	(D)
Michigan	1,640	1,840	1,290	41	44	31
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(X)	(D)	(X)	-	(D)	-
North Dakota	(D)	1,170	(D)	(D)	11	(D)
Washington	2,600	2,140	(D)	39	36	(D)
Wyoming	(X)	(X)	(X)	-	-	-
Other States [1]	1,375	1,773	2,159	44	39	231
United States	1,816	1,806	2,000	158	130	262

See footnote(s) at end of table.

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Dry Edible Bean Area Planted, Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Black						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	5.4	5.3	3.9	5.2	4.8	3.8
Michigan	95.0	125.0	98.0	93.0	124.0	97.0
Minnesota	55.1	69.7	61.1	53.2	66.6	59.1
Nebraska	(D)	4.6	(D)	(D)	4.6	(D)
North Dakota	130.0	125.0	82.0	121.0	119.0	80.5
Washington	4.9	(D)	5.6	4.9	(D)	5.5
Wyoming	(D)	1.5	0.8	(D)	1.1	0.8
Other States [1]	6.2	5.8	5.9	4.6	5.5	5.4
United States	296.6	336.9	257.3	281.9	325.6	252.1
Blackeye						
California	6.2	8.1	3.5	6.2	8.1	3.5
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	(D)	(D)	(D)	(D)	(D)	(D)
Michigan	-	-	(D)	-	-	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	-	(D)	-	-	(D)	-
Other States [1]	7.6	11.4	9.6	7.3	11.0	9.5
United States	13.8	19.5	13.1	13.5	19.1	13.0
Other						
California	4.3	1.6	1.1	4.3	1.6	1.1
Colorado	2.2	4.0	4.5	2.2	3.8	4.3
Idaho	5.0	10.0	7.5	4.8	9.7	7.4
Michigan	5.8	5.3	(D)	5.5	5.3	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	9.6	(D)	(D)	5.5	(D)	(D)
Washington	1.6	3.6	3.8	1.6	2.9	3.6
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States [1]	7.9	12.9	14.2	7.1	11.9	13.8
United States	36.4	37.4	31.1	31.0	35.2	30.2

See footnote(s) at end of table.

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Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2019-2021 (continued)

Class and State	Yield per acre [2]			Production [2]		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Black						
California	(D)	(D)	(D)	(D)	(D)	(D)
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	2,810	2,370	2,520	146	114	96
Michigan	2,080	2,390	2,480	1,934	2,964	2,406
Minnesota	1,970	2,100	1,770	1,048	1,399	1,046
Nebraska	(D)	2,280	(D)	(D)	105	(D)
North Dakota	1,410	1,510	980	1,706	1,797	789
Washington	2,890	(D)	3,000	142	(D)	165
Wyoming	(D)	2,360	2,570	(D)	26	21
Other States [1]	1,891	2,727	2,241	87	150	121
United States	1,796	2,013	1,842	5,063	6,555	4,644
Blackeye						
California	2,630	2,340	2,650	163	190	93
Colorado	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	(D)	(D)	(D)	(D)	(D)	(D)
Michigan	(X)	(X)	(D)	-	-	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming	(X)	(D)	(X)	-	(D)	-
Other States [1]	1,438	1,536	1,463	105	169	139
United States	1,985	1,880	1,785	268	359	232
Other						
California	2,570	2,410	2,400	111	39	26
Colorado	2,620	2,280	1,590	58	87	68
Idaho	1,990	2,150	2,630	96	209	195
Michigan	1,340	1,870	(D)	74	99	(D)
Minnesota	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota	1,570	(D)	(D)	86	(D)	(D)
Washington	2,690	2,670	2,800	43	77	101
Wyoming	(D)	(D)	(D)	(D)	(D)	(D)
Other States [1]	2,380	1,866	1,399	169	222	193
United States	2,055	2,082	1,930	637	733	583

- Represents zero.
(D) Withheld to avoid disclosing data for individual operations.
(X) Not applicable.
[1] Includes data withheld above.
[2] Clean basis.

Lentil Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	34.0	27.0	20.0	33.0	26.0	18.0
Montana	295.0	370.0	530.0	260.0	360.0	380.0
North Dakota	95.0	80.0	120.0	71.0	79.0	114.0
Washington	62.0	46.0	38.0	61.0	45.0	37.0
United States	486.0	523.0	708.0	425.0	510.0	549.0

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	1,100	1,310	480	363	341	86
Montana	1,290	1,480	530	3,354	5,328	2,014
North Dakota	1,300	1,430	830	923	1,130	946
Washington	1,100	1,330	760	671	599	281
United States	1,250	1,451	606	5,311	7,398	3,327

Chickpea Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

Size and State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Small [1]						
California	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	20.0	5.5	9.0	18.8	5.5	9.0
Montana	51.0	23.0	31.0	46.0	22.5	25.5
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	25.0	6.0	14.0	22.5	6.0	14.0
Other States [2]	9.0	7.2	5.3	4.0	7.0	5.0
United States	105.0	41.7	59.3	91.3	41.0	53.5
Large [3]						
California	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	68.0	52.5	70.0	67.5	51.9	69.6
Montana	148.0	83.0	144.0	129.0	81.5	134.0
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	87.0	61.0	81.0	85.5	61.0	80.0
Other States [2]	45.4	15.9	14.2	31.2	15.4	13.9
United States	348.4	212.4	309.2	313.2	209.8	297.5
All						
California	13.4	8.9	3.2	13.2	8.7	3.2
Idaho	88.0	58.0	79.0	86.3	57.4	78.6
Montana	199.0	106.0	175.0	175.0	104.0	159.5
North Dakota	41.0	14.2	16.3	22.0	13.7	15.7
Washington	112.0	67.0	95.0	108.0	67.0	94.0
United States	453.4	254.1	368.5	404.5	250.8	351.0

See footnote(s) at end of table.

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Chickpea Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021 (continued)

Size and State	Yield per acre [4]			Production [4]		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Small [1]						
California	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	1,360	1,870	950	256	103	86
Montana	1,370	1,430	410	630	322	105
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	1,850	1,880	830	416	113	116
Other States [2]	2,225	2,186	1,940	89	153	97
United States	1,524	1,685	755	1,391	691	404
Large [3]						
California	(D)	(D)	(D)	(D)	(D)	(D)
Idaho	1,460	1,470	890	986	763	619
Montana	1,410	1,480	750	1,819	1,206	1,005
North Dakota	(D)	(D)	(D)	(D)	(D)	(D)
Washington	1,660	1,750	820	1,419	1,068	656
Other States [2]	2,054	2,331	1,273	641	359	177
United States	1,553	1,619	826	4,865	3,396	2,457
All						
California	2,690	2,700	2,220	355	235	71
Idaho	1,440	1,510	900	1,242	866	705
Montana	1,400	1,470	700	2,449	1,528	1,110
North Dakota	1,700	2,020	1,290	375	277	203
Washington	1,700	1,760	820	1,835	1,181	772
United States	1,547	1,630	815	6,256	4,087	2,861

(D) Withheld to avoid disclosing data for individual operations.
[1] Chickpeas 20/64 inches or smaller.
[2] Includes data withheld above.
[3] Chickpeas larger than 20/64 inches.
[4] Clean basis.

Dry Edible Pea Area Planted and Harvested, Yield, and Production – States and United States: 2019-2021

[Includes Austrian winter peas and wrinkled seed peas]

State	Area planted			Area harvested		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	28.0	35.0	29.0	27.0	34.0	28.0
Montana	530.0	495.0	570.0	500.0	478.0	448.0
Nebraska	31.0	36.0	29.0	28.0	32.0	27.0
North Dakota	425.0	325.0	255.0	405.0	321.0	242.0
South Dakota	16.0	29.0	26.0	15.0	28.0	23.0
Washington	72.0	78.0	68.0	71.0	77.0	66.0
United States	1,102.0	998.0	977.0	1,046.0	970.0	834.0

State	Yield per acre			Production		
	2019	2020	2021	2019	2020	2021
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho	1,900	2,530	1,080	513	860	302
Montana	2,030	2,070	740	10,150	9,895	3,315
Nebraska	2,300	1,130	1,310	644	362	354
North Dakota	2,260	2,410	1,480	9,153	7,736	3,582
South Dakota	2,200	1,470	570	330	412	131
Washington	2,000	3,070	1,310	1,420	2,364	865
United States	2,123	2,230	1,025	22,210	21,629	8,549

Hop Area Harvested, Yield, and Production by Variety – States and United States: 2019-2021

State and variety	Area harvested		
	2019	2020	2021
	(acres)	(acres)	(acres)
Idaho			
Amarillo [R], VGXP01	561	538	380
Calypso [TM]	81	(D)	(D)
Cascade	710	407	479
Cashmere	(D)	125	124
Chinook	786	624	521
Citra [R], HBC 394	973	1,527	1,743
Columbus/Tomahawk [R]/Zeus [1]	991	1,457	1,046
Comet	112	93	146
Crystal	131	(D)	(D)
El Dorado [R]	352	526	621
Eureka! [TM]	185	(D)	332
Galena	113	(D)	(D)
Hallertauer Mittelfruher	25	159	159
Idaho 7 [TM]	388	564	592
Mosaic [R], HBC 369	801	1,186	1,380
Mt. Rainier	(NA)	(D)	84
Northern Brewer	57	58	58
Saaz	140	(D)	330
Simcoe [R], YCR 14	469	425	388
Triumph	(NA)	39	72
Willamette	170	(D)	389
Zeus [1]	611	(NA)	(NA)
Other varieties [2]	702	1,540	850
Total	8,358	9,268	9,694
Oregon			
Amarillo [R], VGXP01	212	216	193
Cascade	1,039	754	666
Centennial	614	489	364
Chinook	114	86	79
Citra [R], HBC 394	998	1,327	1,472
Crystal	247	(D)	159
Fuggle	63	(D)	(D)
Golding	92	(D)	78
Liberty	(D)	56	54
Mosaic [R], HBC 369	478	595	844
Mt. Hood	295	159	123
Mt. Rainier	(D)	(D)	126
Nugget	1,059	826	572
Sabro [TM], HBC 438	(D)	74	225
Simcoe [R], YCR 14	440	474	499
Sterling	147	58	58
Strata [TM], OR 91331	253	484	833
Super Galena [TM]	78	87	(D)
Willamette	619	605	446
Other varieties [2]	558	814	604
Total	7,306	7,104	7,395

See footnote(s) at end of table.

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Hop Area Harvested, Yield, and Production by Variety – States and United States: 2019-2021 (continued)

State and variety	Yield per acre		
	2019	2020	2021
	(pounds)	(pounds)	(pounds)
Idaho			
Amarillo [R], VGXP01	1,560	1,576	1,813
Calypso [TM]	1,901	(D)	(D)
Cascade	1,823	1,213	1,559
Cashmere	(D)	1,578	1,828
Chinook	2,215	1,614	2,104
Citra [R], HBC 394	1,532	1,686	1,413
Columbus/Tomahawk [R]/Zeus [1]	3,002	2,673	3,169
Comet	1,970	1,740	1,663
Crystal	1,971	(D)	(D)
El Dorado [R]	1,352	1,590	1,778
Eureka! [TM]	2,243	(D)	2,552
Galena	1,773	(D)	(D)
Hallertauer Mittelfruher	1,253	614	1,272
Idaho 7 [TM]	2,562	2,442	2,837
Mosaic [R], HBC 369	2,296	2,335	2,141
Mt. Rainier	(NA)	(D)	985
Northern Brewer	1,407	1,432	1,266
Saaz	771	(D)	620
Simcoe [R], YCR 14	1,164	992	1,121
Triumph	(NA)	365	1,063
Willamette	1,695	(D)	1,311
Zeus [1]	2,672	(NA)	(NA)
Other varieties [2]	1,971	1,567	1,725
Total	2,034	1,855	1,900
Oregon			
Amarillo [R], VGXP01	2,312	2,360	2,186
Cascade	1,620	1,639	1,595
Centennial	1,661	1,675	1,384
Chinook	1,733	1,481	1,794
Citra [R], HBC 394	1,476	1,506	1,414
Crystal	1,943	(D)	1,816
Fuggle	1,243	(D)	(D)
Golding	1,351	(D)	927
Liberty	(D)	2,289	1,506
Mosaic [R], HBC 369	2,113	2,155	2,077
Mt. Hood	1,538	1,551	1,624
Mt. Rainier	(D)	(D)	1,389
Nugget	2,130	1,841	2,162
Sabro [TM] HBC 438	(D)	870	1,749
Simcoe [R], YCR 14	1,845	1,823	1,643
Sterling	1,643	1,728	1,321
Strata [TM], OR 91331	2,066	2,068	1,889
Super Galena [TM]	2,580	2,801	(D)
Willamette	1,717	1,857	1,461
Other varieties [2]	1,644	1,479	1,780
Total	1,783	1,755	1,705

See footnote(s) at end of table.

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Hop Area Harvested, Yield, and Production by Variety – States and United States: 2019-2021 (continued)

State and variety	Production		
	2019	2020	2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Idaho			
Amarillo [R], VGXP01	875.2	847.9	688.9
Calypso [TM]	154.0	(D)	(D)
Cascade	1,294.3	493.7	746.8
Cashmere	(D)	197.3	226.7
Chinook	1,741.0	1,007.1	1,096.2
Citra [R], HBC 394	1,490.6	2,574.5	2,462.9
Columbus/Tomahawk [R]/Zeus [1]	2,975.0	3,894.6	3,314.8
Comet	220.6	161.8	242.8
Crystal	258.2	(D)	(D)
El Dorado [R]	475.9	836.3	1,104.1
Eureka! [TM]	415.0	(D)	847.3
Galena	200.3	(D)	(D)
Hallertauer Mittelfruher	31.3	97.6	202.2
Idaho 7 [TM]	994.1	1,377.3	1,679.5
Mosaic [R], HBC 369	1,839.1	2,769.3	2,954.6
Mt. Rainier	(NA)	(D)	82.7
Northern Brewer	80.2	83.1	73.4
Saaz	107.9	(D)	204.6
Simcoe [R], YCR 14	545.9	421.6	434.9
Triumph	(NA)	14.2	76.5
Willamette	288.2	(D)	510.0
Zeus [1]	1,632.6	(NA)	(NA)
Other varieties [2]	1,383.7	2,413.8	1,465.9
Total	17,003.1	17,190.1	18,414.8
Oregon			
Amarillo [R], VGXP01	490.1	509.8	421.9
Cascade	1,683.2	1,235.8	1,062.3
Centennial	1,019.9	819.1	503.8
Chinook	197.6	127.4	141.7
Citra [R], HBC 394	1,473.0	1,998.5	2,081.4
Crystal	479.9	(D)	288.7
Fuggle	78.3	(D)	(D)
Golding	124.3	(D)	72.3
Liberty	(D)	128.2	81.3
Mosaic [R], HBC 369	1,010.0	1,282.2	1,753.0
Mt. Hood	453.7	246.6	199.8
Mt. Rainier	(D)	(D)	175.0
Nugget	2,255.7	1,520.7	1,236.7
Sabro [TM] HBC 438	(D)	64.4	393.5
Simcoe [R], YCR 14	811.8	864.1	819.9
Sterling	241.5	100.2	76.6
Strata [TM], OR 91331	522.7	1,000.9	1,573.5
Super Galena [TM]	201.2	243.7	(D)
Willamette	1,062.8	1,123.5	651.6
Other varieties [2]	917.5	1,203.6	1,074.9
Total	13,023.2	12,468.7	12,607.9

See footnote(s) at end of table.

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Hop Area Harvested, Yield, and Production by Variety – States and United States: 2019-2021 (continued)

State and variety	Area harvested		
	2019	2020	2021
	(acres)	(acres)	(acres)
Washington			
Ahtanum [TM], YCR 1	261	230	166
Amarillo [R], VGXP01	1,597	1,395	1,334
Apollo [TM]	851	750	(D)
Azacca [TM], ADHA-483	589	722	730
Bravo [TM]	236	201	238
Cascade	3,718	2,877	3,183
Cashmere	310	448	690
Centennial	3,031	2,444	1,978
Chinook	1,437	1,183	1,174
Citra [R], HBC 394	6,720	8,143	8,766
Cluster	470	413	390
Columbus/Tomahawk [R]/Zeus [1]	2,323	4,829	4,523
Comet	210	330	386
Crystal	66	(D)	(D)
Ekuanot [R], HBC 366	632	641	381
El Dorado [R]	641	1,058	1,113
Eureka! [TM]	425	465	466
Galena	297	241	(D)
Idaho 7 [TM]	85	341	388
Jarrylo [R], ADHA-881	(D)	17	(D)
Loral [R], HBC 291	125	164	197
Mosaic [R], HBC 369	2,829	3,715	4,193
Mt. Hood	53	48	(D)
Mt. Rainier	239	223	209
Nugget	104	(D)	(D)
Pahto [TM], HBC 682	2,109	2,208	2,114
Palisade [R], YCR 4	477	246	333
Pekko [R], ADHA-871	(D)	801	1,070
Sabro [TM], HBC 438	724	1,145	1,120
Simcoe [R], YCR 14	3,367	3,214	3,172
Summit [TM]	1,072	640	437
Super Galena [TM]	473	475	480
Tahoma	230	177	388
Warrior [R], YCR 5	(D)	283	128
Willamette	270	203	132
Zeus [1]	2,612	(NA)	(NA)
Experimental	360	453	575
Other varieties [2]	1,937	1,546	3,329
Total	40,880	42,269	43,783
United States [3]	56,544	58,641	60,872

See footnote(s) at end of table.

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Hop Area Harvested, Yield, and Production by Variety – States and United States: 2019-2021 (continued)

State and variety	Yield per acre		
	2019	2020	2021
	(pounds)	(pounds)	(pounds)
Washington			
Ahtanum ™, YCR 1	2,820	2,134	2,211
Amarillo ®, VGXP01	1,946	1,649	1,659
Apollo ™	2,735	2,248	(D)
Azacca ™, ADHA-483	2,441	1,527	1,909
Bravo ™	3,216	2,308	2,759
Cascade	1,920	1,551	1,585
Cashmere	1,699	1,514	1,395
Centennial	1,820	1,640	1,585
Chinook	1,942	1,665	1,851
Citra ®, HBC 394	1,424	1,526	1,580
Cluster	1,815	2,065	2,016
Columbus/Tomahawk ®/Zeus [1]	2,584	2,176	2,656
Comet	1,311	872	1,632
Crystal	1,989	(D)	(D)
Ekuanot ®, HBC 366	2,483	2,158	2,608
El Dorado ®	2,032	1,516	1,876
Eureka! ™	3,188	2,332	3,022
Galena	2,045	1,838	(D)
Idaho 7 ™	1,544	1,736	3,197
Jarrylo ®, ADHA-881	(D)	1,428	(D)
Loral ®, HBC 291	2,515	1,874	2,088
Mosaic ®, HBC 369	2,054	1,998	2,129
Mt. Hood	1,037	1,139	(D)
Mt. Rainier	2,149	1,586	1,635
Nugget	2,313	(D)	(D)
Pahto ™, HBC 682	2,398	2,019	2,463
Palisade ®, YCR 4	2,520	2,114	1,866
Pekko ®, ADHA-871	(D)	1,239	2,072
Sabro ™ , HBC 438	1,612	1,886	2,207
Simcoe ®, YCR 14	1,788	1,643	1,646
Summit ™	1,816	1,096	1,351
Super Galena ™	2,871	2,636	2,849
Tahoma	1,958	1,588	1,055
Warrior ®, YCR 5	(D)	1,669	2,240
Willamette	1,596	1,458	1,200
Zeus [1]	2,620	(NA)	(NA)
Experimental	2,251	1,207	1,713
Other varieties [2]	1,888	1,737	1,934
Total	2,006	1,754	1,932
United States [3]	1,981	1,770	1,900

See footnote(s) at end of table.

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Hop Area Harvested, Yield, and Production by Variety – States and United States: 2019-2021 (continued)

State and variety	Production		
	2019	2020	2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Washington			
Ahtanum ™, YCR 1	736.0	490.8	367.0
Amarillo ®, VGXP01	3,107.8	2,300.4	2,213.1
Apollo ™	2,327.5	1,686.0	(D)
Azacca ™, ADHA-483	1,437.7	1,102.5	1,393.6
Bravo ™	759.0	463.9	656.6
Cascade	7,138.6	4,462.2	5,045.1
Cashmere	526.7	678.3	962.6
Centennial	5,516.4	4,008.2	3,135.1
Chinook	2,790.7	1,969.7	2,173.1
Citra ®, HBC 394	9,569.3	12,426.2	13,850.3
Cluster	853.1	852.8	786.2
Columbus/Tomahawk ®/Zeus [1]	6,002.6	10,507.9	12,013.1
Comet	275.3	287.8	630.0
Crystal	131.3	(D)	(D)
Ekuanot ®, HBC 366	1,569.3	1,383.3	993.6
El Dorado ®	1,302.5	1,603.9	2,088.0
Eureka! ™	1,354.9	1,084.4	1,408.3
Galena	607.4	443.0	(D)
Idaho 7 ™	131.2	592.0	1,240.4
Jarrylo ®, ADHA-881	(D)	24.3	(D)
Loral ®, HBC 291	314.4	307.3	411.3
Mosaic ®, HBC 369	5,810.8	7,422.6	8,926.9
Mt. Hood	55.0	54.7	(D)
Mt. Rainier	513.6	353.7	341.7
Nugget	240.6	(D)	(D)
Pahto ™, HBC 682	5,057.4	4,458.0	5,206.8
Palisade ®, YCR 4	1,202.0	520.0	621.4
Pekko ®, ADHA-871	(D)	992.4	2,217.0
Sabro ™ , HBC 438	1,167.1	2,159.5	2,471.8
Simcoe ®, YCR 14	6,020.2	5,280.6	5,221.1
Summit ™	1,946.8	701.4	590.4
Super Galena ™	1,358.0	1,252.1	1,367.5
Tahoma	450.3	281.1	409.3
Warrior ®, YCR 5	(D)	472.3	286.7
Willamette	430.9	296.0	158.4
Zeus [1]	6,843.4	(NA)	(NA)
Experimental	810.4	546.8	985.0
Other varieties [2]	3,656.7	2,685.4	6,436.8
Total	82,014.9	74,151.5	84,608.2
United States [3]	112,041.2	103,810.3	115,630.9

(D) Withheld to avoid disclosing data for individual operations.
(NA) Not available.
® Registered
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[1] Beginning in 2020, Zeus is included in Columbus/Tomahawk ®/Zeus (C/T/Z).
[2] Includes data withheld to avoid disclosure of individual operations and varieties not listed.
[3] Includes 772 acres of organic hops for 2021 with yield equal to 1488 pounds per acre and production at 1,148,869 pounds.

Mint for Oil Area Harvested, Yield, and Production by Crop – States and United States: 2019-2021

Crop, State, and variety	Area harvested			Yield per acre		
	2019	2020	2021	2019	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)
Peppermint						
Idaho	17.0	16.5	15.5	120	120	120
Indiana	6.4	5.5	5.5	48	44	52
Oregon	19.0	17.0	14.0	95	96	97
Washington	10.0	10.0	9.0	130	103	118
United States	52.4	49.0	44.0	104	100	104
Spearmint						
Idaho	1.1	1.0	0.9	145	131	147
Indiana	3.9	4.0	3.1	72	69	72
Oregon	2.3	2.2	3.0	125	103	105
Washington	11.0	10.6	7.9	152	148	140
Native	(D)	7.2	5.5	(D)	160	155
Scotch	(D)	3.4	2.4	(D)	122	105
United States	18.3	17.8	14.9	131	124	119

Crop, State, and variety	Production		
	2019	2020	2021
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Peppermint			
Idaho	2,040	1,980	1,860
Indiana	307	242	286
Oregon	1,805	1,632	1,358
Washington	1,300	1,030	1,062
United States	5,452	4,884	4,566
Spearmint			
Idaho	160	131	132
Indiana	281	276	223
Oregon	288	227	315
Washington	1,671	1,567	1,105
Native	(D)	1,152	853
Scotch	(D)	415	252
United States	2,400	2,201	1,775

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

Maple Syrup Taps, Yield, and Production – States and United States: 2019-2021

[Estimates for 2021 are carried forward from the June 2021 *Crop Production*. Any revisions will appear in the June 2022 *Crop Production*]

State	Number of taps			Yield per tap			Production		
	2019	2020	2021	2019	2020	2021	2019	2020	2021
	(1,000 taps)	(1,000 taps)	(1,000 taps)	(gallons)	(gallons)	(gallons)	(1,000 gallons)	(1,000 gallons)	(1,000 gallons)
Maine	1,950	1,970	1,890	0.267	0.299	0.262	520	590	495
Michigan	620	570	550	0.315	0.298	0.273	195	170	150
New Hampshire	540	530	530	0.274	0.291	0.240	148	154	127
New York	2,800	2,800	2,900	0.293	0.287	0.223	820	804	647
Pennsylvania	680	740	715	0.231	0.241	0.231	157	178	165
Vermont	6,000	5,700	5,900	0.345	0.342	0.261	2,070	1,950	1,540
Wisconsin	800	780	850	0.338	0.340	0.353	270	265	300
United States	13,390	13,090	13,335	0.312	0.314	0.257	4,180	4,111	3,424

Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2020 and 2021

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year]

Crop	Area planted		Area harvested	
	2020	2021	2020	2021
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Grains and hay				
Barley	2,726	2,660	2,214	1,948
Corn for grain [1]	90,652	93,357	82,313	85,388
Corn for silage	(NA)	(NA)	6,711	6,481
Hay, all	(NA)	(NA)	52,238	50,736
Alfalfa	(NA)	(NA)	16,230	15,246
All other	(NA)	(NA)	36,008	35,490
Oats	3,009	2,550	1,009	650
Proso millet	609	725	509	662
Rice	3,036	2,532	2,986	2,488
Rye	1,955	2,133	330	294
Sorghum for grain [1]	5,880	7,305	5,095	6,490
Sorghum for silage	(NA)	(NA)	239	331
Wheat, all	44,450	46,703	36,789	37,163
Winter	30,450	33,648	23,029	25,464
Durum	1,690	1,635	1,665	1,534
Other spring	12,310	11,420	12,095	10,165
Oilseeds				
Canola	1,824.0	2,152.0	1,787.8	2,089.0
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	305	325	296	268
Mustard seed	97.0	103.0	91.4	89.3
Peanuts	1,662.5	1,585.2	1,615.2	1,545.0
Rapeseed	11.2	14.3	10.1	12.5
Safflower	138.0	152.0	128.4	135.0
Soybeans for beans	83,354	87,195	82,603	86,332
Sunflower	1,719.1	1,288.5	1,666.1	1,243.8
Cotton, tobacco, and sugar crops				
Cotton, all	12,092.0	11,219.5	8,274.5	9,968.3
Upland	11,890.0	11,093.0	8,080.5	9,844.5
American Pima	202.0	126.5	194.0	123.8
Sugarbeets	1,162.2	1,160.0	1,141.8	1,107.6
Sugarcane	(NA)	(NA)	947.6	937.5
Tobacco	(NA)	(NA)	191.1	218.9
Dry beans, peas, and lentils				
Chickpeas	254.1	368.5	250.8	351.0
Dry edible beans	1,727.0	1,394.0	1,664.5	1,335.6
Dry edible peas	998.0	977.0	970.0	834.0
Lentils	523.0	708.0	510.0	549.0
Potatoes and miscellaneous				
Hops	(NA)	(NA)	58.6	60.9
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)	(NA)	49.0	44.0
Potatoes	918.5	943.0	911.7	935.7
Spearmint oil	(NA)	(NA)	17.8	14.9

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2020 and 2021 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year]

Crop	Yield per acre		Production	
	2020	2021	2020	2021
			(1,000)	(1,000)
Grains and hay				
Barley ..... bushels	77.2	60.4	170,813	117,673
Corn for grain ..... bushels	171.4	177.0	14,111,449	15,115,170
Corn for silage ..... tons	20.5	20.1	137,675	130,317
Hay, all ..... tons	2.43	2.37	126,812	120,196
Alfalfa ..... tons	3.27	3.23	53,067	49,245
All other ..... tons	2.05	2.00	73,745	70,951
Oats ..... bushels	65.1	61.3	65,694	39,836
Proso millet ..... bushels	18.8	23.2	9,573	15,376
Rice [2] ..... cwt	7,619	7,709	227,514	191,796
Rye ..... bushels	34.9	33.4	11,532	9,808
Sorghum for grain ..... bushels	73.2	69.0	372,960	447,810
Sorghum for silage ..... tons	13.1	15.4	3,125	5,083
Wheat, all ..... bushels	49.7	44.3	1,828,043	1,645,764
Winter ..... bushels	50.9	50.2	1,171,397	1,277,365
Durum ..... bushels	41.5	24.3	69,141	37,259
Other spring ..... bushels	48.6	32.6	587,505	331,140
Oilseeds				
Canola ..... pounds	1,931	1,302	3,453,062	2,720,550
Cottonseed ..... tons	(X)	(X)	4,435.0	5,377.0
Flaxseed ..... bushels	19.3	10.1	5,706	2,708
Mustard seed ..... pounds	895	491	81,770	43,834
Peanuts ..... pounds	3,813	4,135	6,158,350	6,389,300
Rapeseed ..... pounds	1,971	1,809	19,910	22,616
Safflower ..... pounds	1,185	1,001	152,125	135,175
Soybeans for beans ..... bushels	51.0	51.4	4,216,302	4,435,232
Sunflower ..... pounds	1,790	1,530	2,982,890	1,902,985
Cotton, tobacco, and sugar crops				
Cotton, all [2] ..... bales	847	849	14,607.5	17,624.0
Upland [2] ..... bales	835	841	14,061.0	17,257.0
American Pima [2] ..... bales	1,352	1,423	546.5	367.0
Sugarbeets ..... tons	29.4	33.2	33,610	36,751
Sugarcane ..... tons	38.1	35.2	36,100	33,030
Tobacco ..... pounds	1,951	2,183	372,877	477,973
Dry beans, peas, and lentils				
Chickpeas [2] ..... cwt	1,630	815	4,087	2,861
Dry edible beans [2] ..... cwt	1,962	1,701	32,665	22,721
Dry edible peas [2] ..... cwt	2,230	1,025	21,629	8,549
Lentils [2] ..... cwt	1,451	606	7,398	3,327
Potatoes and miscellaneous				
Hops ..... pounds	1,770	1,900	103,810.3	115,630.9
Maple syrup ..... gallons	(NA)	(NA)	4,111	3,424
Mushrooms ..... pounds	(NA)	(NA)	816,367	757,987
Peppermint oil ..... pounds	100	104	4,884	4,566
Potatoes ..... cwt	461	438	420,020	409,671
Spearmint oil ..... pounds	124	119	2,201	1,775

(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: 2020 and 2021

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year]

Crop	Area planted		Area harvested	
	2020	2021	2020	2021
	(hectares)	(hectares)	(hectares)	(hectares)
Grains and hay				
Barley	1,103,180	1,076,480	895,980	788,340
Corn for grain [1]	36,685,960	37,780,640	33,311,250	34,555,670
Corn for silage	(NA)	(NA)	2,715,870	2,622,800
Hay, all [2]	(NA)	(NA)	21,140,200	20,532,350
Alfalfa	(NA)	(NA)	6,568,120	6,169,900
All other	(NA)	(NA)	14,572,080	14,362,450
Oats	1,217,710	1,031,960	408,330	263,050
Proso millet	246,460	293,400	205,990	267,900
Rice	1,228,640	1,024,680	1,208,400	1,006,870
Rye	791,170	863,200	133,550	118,980
Sorghum for grain [1]	2,379,580	2,956,260	2,061,900	2,626,440
Sorghum for silage	(NA)	(NA)	96,720	133,950
Wheat, all [2]	17,988,470	18,900,240	14,888,140	15,039,490
Winter	12,322,810	13,617,010	9,319,610	10,305,030
Durum	683,930	661,670	673,810	620,790
Other spring	4,981,730	4,621,560	4,894,730	4,113,670
Oilseeds				
Canola	738,150	870,890	723,500	845,400
Cottonseed	(X)	(X)	(X)	(X)
Flaxseed	123,430	131,520	119,790	108,460
Mustard seed	39,250	41,680	36,990	36,140
Peanuts	672,800	641,510	653,660	625,250
Rapeseed	4,530	5,790	4,090	5,060
Safflower	55,850	61,510	51,960	54,630
Soybeans for beans	33,732,530	35,286,940	33,428,610	34,937,700
Sunflower	695,700	521,440	674,250	503,350
Cotton, tobacco, and sugar crops				
Cotton, all [2]	4,893,510	4,540,420	3,348,610	4,034,070
Upland	4,811,760	4,489,230	3,270,100	3,983,970
American Pima	81,750	51,190	78,510	50,100
Sugarbeets	470,330	469,440	462,080	448,230
Sugarcane	(NA)	(NA)	383,480	379,400
Tobacco	(NA)	(NA)	77,340	88,600
Dry beans, peas, and lentils				
Chickpeas	102,830	149,130	101,500	142,050
Dry edible beans	698,900	564,140	673,610	540,500
Dry edible peas	403,880	395,380	392,550	337,510
Lentils	211,650	286,520	206,390	222,170
Potatoes and miscellaneous				
Hops	(NA)	(NA)	23,730	24,630
Maple syrup	(NA)	(NA)	(NA)	(NA)
Mushrooms	(NA)	(NA)	(NA)	(NA)
Peppermint oil	(NA)	(NA)	19,830	17,810
Potatoes	371,710	381,620	368,960	378,670
Spearmint oil	(NA)	(NA)	7,200	6,030

See footnote(s) at end of table.

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Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2020 and 2021 (continued)

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2021 crop year]

Crop	Yield per hectare		Production	
	2020	2021	2020	2021
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Grains and hay				
Barley	4.15	3.25	3,719,010	2,562,030
Corn for grain	10.76	11.11	358,447,310	383,943,000
Corn for silage	45.99	45.07	124,896,660	118,221,590
Hay, all [2]	5.44	5.31	115,041,910	109,039,980
Alfalfa	7.33	7.24	48,141,570	44,674,310
All other	4.59	4.48	66,900,340	64,365,660
Oats	2.34	2.20	953,550	578,220
Proso millet	1.05	1.30	217,110	348,720
Rice	8.54	8.64	10,319,860	8,699,720
Rye	2.19	2.09	292,930	249,130
Sorghum for grain	4.59	4.33	9,473,620	11,374,900
Sorghum for silage	29.31	34.42	2,834,950	4,611,220
Wheat, all [2]	3.34	2.98	49,751,180	44,790,360
Winter	3.42	3.37	31,880,200	34,764,180
Durum	2.79	1.63	1,881,710	1,014,020
Other spring	3.27	2.19	15,989,270	9,012,150
Oilseeds				
Canola	2.16	1.46	1,566,280	1,234,020
Cottonseed	(X)	(X)	4,023,360	4,877,930
Flaxseed	1.21	0.63	144,940	68,790
Mustard seed	1.00	0.55	37,090	19,880
Peanuts	4.27	4.64	2,793,380	2,898,140
Rapeseed	2.21	2.03	9,030	10,260
Safflower	1.33	1.12	69,000	61,310
Soybeans for beans	3.43	3.45	114,748,940	120,707,230
Sunflower	2.01	1.71	1,353,020	863,180
Cotton, tobacco, and sugar crops				
Cotton, all [2]	0.95	0.95	3,180,410	3,837,170
Upland	0.94	0.94	3,061,420	3,757,270
American Pima	1.52	1.59	118,990	79,900
Sugarbeets	65.99	74.38	30,490,480	33,339,950
Sugarcane	85.40	78.98	32,749,370	29,964,310
Tobacco	2.19	2.45	169,130	216,800
Dry beans, peas, and lentils				
Chickpeas	1.83	0.91	185,380	129,770
Dry edible beans	2.20	1.91	1,481,660	1,030,610
Dry edible peas	2.50	1.15	981,080	387,780
Lentils	1.63	0.68	335,570	150,910
Potatoes and miscellaneous				
Hops	1.98	2.13	47,090	52,450
Maple syrup	(NA)	(NA)	20,560	17,120
Mushrooms	(NA)	(NA)	370,300	343,820
Peppermint oil	0.11	0.12	2,220	2,070
Potatoes	51.64	49.07	19,051,790	18,582,370
Spearmint oil	0.14	0.13	1,000	810

(NA) Not available.
(X) Not applicable.
[1] Area planted for all purposes.
[2] Total may not add due to rounding.

2021 Annual Weather Summary

Highlights: One of the year's early highlights was an historic, late-winter cold snap, which drove southward across the Plains to Texas and other parts of the South, delivering the coldest weather in more than three decades. Back-to-back Southern snowstorms accompanied the blast of frigid air, further delaying a return to normalcy. In Texas and portions of neighboring states, widespread power outages struck as the cold wave peaked, leading to frozen and burst pipes. Agriculturally, the bitterly cold weather caused significant harm to citrus and other sensitive crops in Deep South Texas and severely affected ornamentals and nursery stock, especially in areas where electrical outages limited freeze-mitigation strategies. Where insulating snow cover was lacking, sub-zero temperatures damaged some crops, including oats and winter wheat. Ironically, the February cold blast was embedded in an otherwise relatively mild winter.

Meanwhile, the entire year was spent with more than 40 percent of the contiguous United States in drought, according to the *Drought Monitor*. By January 4, 2022, the country had endured 67 consecutive weeks with drought coverage greater than 40 percent, second only to a 68-week such streak from June 19, 2012 – October 1, 2013. Starting in late-November and continuing through year's end, national drought coverage topped 50 percent for the first time since September 2013. During the 2021 growing season, the most consequential drought stretched from the Pacific Coast into the upper Midwest, resulting in a variety of adverse impacts on rangeland, pastures, winter wheat and spring-sown crops, including barley, oats, durum wheat, and spring wheat.

In the West, water shortages were a growing concern, as drought carried through a second consecutive year. During the 2-year period ending June 30, 2021, storage in California's 154 major intrastate reservoirs decreased by nearly half, from 34.1 to 17.5 million acre-feet (from 120 to 62 percent of average). Even a robust Southwestern monsoon failed to significantly improve water-supply prospects, despite short-term benefit in the form of a boost in topsoil moisture and improved rangeland and pasture conditions. However, the monsoon-related downpours also sparked Southwestern flash flooding and debris flows, especially in burn-scarred areas.

While wildfire activity was not as expansive as the previous year, when the national burned acreage totaled more than 10.1 million acres, mid- to late-summer blazes were still prominent on the Western landscape. With a preliminary 2021 burned acreage of nearly 2.6 million acres, California accounted for roughly one-third of the national total of fewer than 8.0 million acres. In addition, the Dixie Fire (963,309 acres) became California's second-largest wildfire in modern history, behind only 2020's August Complex (1,032,648 acres). Improbably, one of the year's most destructive fires occurred near Broomfield, Colorado, on December 30. Driven by hurricane-force winds, the Marshall Fire tore across more than 6,219 acres of parched vegetation and destroyed nearly 1,000 structures, including more than 550 homes and other buildings in the community of Louisville, Colorado.

Periods of extreme heat accompanied the Northern and Western drought, aggravating the effects of persistently below-normal precipitation. In late June, a truly historic Northwestern hot spell sent readings to 110°F or higher in typically temperate areas along the northern Pacific Coast. Farther inland, the stunning Northwestern heat—with temperatures approaching 120°F—damaged small grains and fruit crops. Frequent rounds of triple-digit heat (100°F or higher) extended eastward across the northern Plains and far upper Midwest—but did not reach the heart of the Corn Belt. As a result, Midwestern corn and soybeans fared reasonably well, with major heat- and drought-related impacts largely limited to Minnesota and the Dakotas.

By the end of October 2021, at least 39 percent of the rangeland and pastures were rated in very poor to poor condition in eleven states along and northwest of a line from California to Minnesota—led by Montana (95 percent very poor to poor). Around the same time, dryness shifted southward, in part due to the return of La Niña for a second consecutive winter. The sudden Southern dryness, which occurred during the winter wheat establishment season, left a portion of the crop poorly established and potentially vulnerable to winter weather extremes. By November 28, nearly one-half (45 percent) of the winter wheat in Texas was rated in very poor to poor condition, along with 33 percent in Colorado. Farther north, lingering drought effects left roughly one-half of the wheat rated very poor to poor on that date in Montana (56 percent) and Oregon (48 percent). Nationally, 23 percent of the Nation's winter wheat was rated in very poor to poor condition on November 28—the greatest amount in those two categories at the end of the autumn establishment season since 2012.

Farther east, eight named Atlantic tropical cyclones made landfall in 2021 along the Gulf or Atlantic Coast. On August 29, Category 4 Hurricane Ida—with sustained winds near 150 mph—became the strongest hurricane on record to cross the Louisiana coast, tied with Laura (2020) and the Last Island Hurricane (1856). Catastrophic infrastructural damage occurred where Ida moved ashore in southeastern Louisiana, near Port Fourchon. In early September, Ida's remnants contributed to historic flooding in portions of the middle Atlantic States. The only other 2021 hurricane to strike the mainland United States was Nicholas, which made landfall on the middle Texas coast on September 14. Six tropical storms made landfall in the United States: Claudette, Danny, Elsa, Fred, Henri, and Mindy. Despite the large number of 2021 Atlantic tropical cyclones, only one system (Tropical Storm Wanda) formed during the last 2 months of the official hurricane season, which ended on November 30.

The last 3 months of the year featured several notable weather and climate events, starting with a powerful, late-October Western storm and continuing through an extended November period of warmth and dryness across much of the western and central United States. In December, a barrage of extreme events battered various parts of the country, while record-setting winter warmth stretched from the southern Plains into the Southeast. Tornado outbreaks across the interior Southeast and lower Midwest on December 5-6 and 10-11 were followed by additional severe weather late in the month. On the 15th, high winds raised dust across the central Plains, while an exceedingly rare winter derecho swept across hundreds of miles from the east-central Plains into the upper Midwest, spawning unprecedented December tornadoes as far north as Minnesota. On December 30, another round of high winds fanned damaging wildfires across thousands of acres southeast of Boulder, Colorado.

Winter 2020-21: Historically cold weather struck the Nation's mid-section for 2 weeks in February, resulting in the lowest temperatures in many communities since at least December 1989—and in a few cases, tying or breaking all-time records. The sudden Arctic outbreak, which followed a generally mild November-January period, damaged some winter wheat on the Plains that did not have an adequate protective snow cover. Deep South Texas was disproportionately affected, as citrus and winter vegetables suffered extensive damage. Producers monitored sugarcane in Texas and Louisiana for potential impacts on the next harvest. Cold-related impacts extended far beyond crops, dairies, livestock, greenhouses, and nurseries, as extended power outages led to cascading effects that included potable water shortages and frozen or broken water lines.

Across portions of the Great Plains, autumn and winter drought--along with potential impacts from February's extreme cold—left one-fifth to one-third of the winter wheat rated in very poor to poor condition by late February in several states, including Texas, Colorado, Kansas, and Nebraska. Some of the most significant exposure of wheat to sub-zero temperatures occurred across the central Plains, along with minor production areas in northeastern Montana and parts of the western Dakotas.

During the first 2 months of 2021, drought coverage remained nearly steady at 45 to 47 percent of the Lower 48 States, according to the *Drought Monitor*, down slightly from a December 2020 peak of 49.6 percent. Significant, late-winter improvement in the drought situation was mostly limited to a swath stretching from the Northwest to the central Rockies, while portions of the northern Plains and Southwest noted worsening drought. As winter ended, excessive rainfall in the Kentucky River basin and environs contributed to moderate to major flooding, while a much broader region stretching from northeastern Texas into the central Appalachians and Ohio Valley experienced minor flooding.

Despite the country experiencing its coldest February in 32 years, winter overall was relatively mild. In fact, above-normal December-February temperatures were common across the North and West, while pockets of below-normal temperatures were mostly limited to the south-central United States. Winter warmth was especially prominent in northern New England, including Maine, where December-February temperatures averaged nearly 7°F above normal.

Spring: Producers across the northern and western United States faced several weather challenges, including ongoing drought and episodic cold snaps. Even into late May, frost and freezes across portions of the northern Plains and upper Midwest necessitated replanting of some spring-sown crops, including soybeans. Due to punishing drought and temperature extremes, a variety of commodities—including rangeland/pastures, spring wheat, and barley—started the growing season with the lowest spring crop conditions, per USDA/NASS, of the 21st century. By May 30, more than one-third (39 percent) of the Nation's rangeland and pastures; 20 percent of the spring wheat; and 13 percent of the barley were rated in very poor to poor condition.

Crops in other parts of the country fared better. Midwestern planting quickly advanced, with 95 percent of the Nation's corn and 84 percent of the soybeans sown by May 30; five-year averages for that date were 87 and 67 percent, respectively. Meanwhile, winter wheat across the central and southern Plains benefited from frequent spring precipitation, although early-season harvest efforts were slowed by delayed maturation and wet conditions. Farther north, winter wheat conditions faded amid drought; by May 30, nearly two-thirds (63 percent) of Oregon's crop was rated in very poor to poor condition. In contrast, spring wetness from the southern Plains to the Mississippi Delta hampered fieldwork, including hay cutting and late-season planting.

During the first 5 months of 2021, drought coverage remained nearly steady at 43 to 48 percent of the Lower 48 States, according to the *Drought Monitor*. Large-scale improvement in the drought situation was mostly limited to the central and southern Plains and the eastern slopes of the central Rockies. Meanwhile, the drought picture worsened in the West, particularly in the Pacific Coast States, as well as portions of the northern Plains and northern Corn Belt. Short-term dryness developed in portions of the Atlantic Coast States. In contrast, excessive wetness plagued the Mississippi Delta and portions of neighboring regions.

Following frigid February weather, a sudden end to widespread wintry conditions helped propel the country to a relatively warm spring. All states except Arkansas ended up on the "warm side" of the historical distribution. However, widespread spring temperatures averaging at least 2°F above normal were confined to the North—an area stretching from parts of the Dakotas to New England.

Summer: The drought situation took a turn for the worse across the Pacific Coast States and the Northwest, as a hot, dry summer led to another active wildfire season and severe stress on rangeland, pastures, and rain-fed summer crops. In the hardest-hit drought areas, surface water storage continued to dwindle; California's 154 primary intrastate reservoirs held less than 60 percent of their normal volume by August 31, compared with 93 percent a year earlier—a loss of 7.8 million acre-feet of water reserves, statewide, in 12 months. By summer's end, statewide storage was also less than one-half of average in Nevada and Oregon. Farther south, however, a robust North American monsoon circulation delivered drought relief, starting in July. Arizona, New Mexico, southern Utah, and southwestern Colorado experienced some of the heaviest, monsoon-related rainfall, which vanquished short-term drought but caused local flooding and landslides. Even with the summer downpours, New Mexico's statewide reservoir storage stood at just 41 percent of average on August 31, reflecting lingering long-term drought impacts.

Regarding Western wildfires, four of northern California's blazes made the statewide top-20 list for acreage burned. Those wildfires were the Dixie Fire (more than 963,000 acres), second only to last year's 1.03 million-acre August Complex; the 224,000-acre Monument Fire; the 222,000-acre Caldor Fire; and the 199,000-acre River Complex. Among them, the Dixie Fire (1,329 structures burned) and the Caldor Fire (1,003 structures) made California's all-time, top-20 list for property destruction. Rampant Western fires, which shifted northward as monsoon-related rainfall aided Southwestern containment efforts, also resulted in widespread air-quality degradation, with hazy conditions occasionally extending into the central and eastern United States.

The delineation between favorable growing conditions (to the southeast) and major drought impacts (to the northwest) extended from the Pacific Coast into the upper Midwest. On August 29, rangeland and pastures were rated more than one-half very poor to poor in every state along and northwest of a line from California to Minnesota, led by Washington (92 percent very poor to poor) and Montana (90 percent). Northwestern small grains, including winter wheat, spring wheat, and barley, were severely affected by drought. Significant crop stress reached into the upper Midwest, where corn and soybeans in Minnesota and the Dakotas were adversely affected by heat and drought.

In contrast, abundant summer rainfall and relatively cool conditions across the South led to mostly favorable growing conditions, albeit at a slower-than-normal pace, for crops such as cotton, peanuts, and rice. Tropical rainfall contributed to the cloudy, damp pattern; storms making landfall in the United States included Category 4 Hurricane Ida (southeastern Louisiana on August 29) and Tropical Storms Claudette (June 19), Danny (June 28), Elsa (July 7), Fred (August 15), and Henri (August 22). Ida's storm surge and winds were tremendously destructive to infrastructure across southeastern Louisiana; the remnant circulation later sparked catastrophic flooding in the mid-Atlantic. However, the five tropical storms mainly delivered rain. Claudette moved ashore in Louisiana, while two tropical storms (Elsa and Fred) made

landfall on Florida's Gulf Coast. Danny crossed the coast in South Carolina; Henri came ashore in Rhode Island. Abundant summer rainfall extended into much of the Midwest, particularly the central and eastern Corn Belt. However, high humidity levels and unusually warm nights contributed to an increase in disease pressure in some Midwestern fields.

During the summer of 2021, drought coverage remained nearly steady at 44 to 48 percent of the Lower 48 States, according to the *Drought Monitor*. Large-scale improvement in the drought situation was mostly limited to the Southwest and an area stretching from the lower Great Lakes region into the Northeast. Early signs of drought development were generally vanquished in the middle and southern Atlantic States. Late in the summer, however, hotter, drier weather led to pockets of drought development across the southern half of the Plains.

Autumn: The active Atlantic tropical season remained in full swing through September, with the year's 20th named storm (Tropical Storm Victor) forming over the open ocean late in the month. Category 1 Hurricane Nicholas became the season's eighth and final named storm to make landfall in the United States, moving ashore in Texas on September 14. Subsequently, tropical activity waned, with only one system (Tropical Storm Wanda) forming during the last one-third of the 6-month hurricane season.

Meanwhile, an active and stormy spell across much of the country during October contrasted with a mostly warm, dry November. Multiple October storms followed a favored path into northern California or the Northwest, eastward across the northern Plains, easing drought but leaving some long-term impacts—such as low reservoir levels and poor rangeland and pasture conditions—nearly untouched. Despite an October bump in California's reservoir levels, storage in the state's 154 primary intrastate reservoirs stood at 13.2 million acre-feet on November 30, just 66 percent of the long-term average.

Periodic wildfires continued to plague drier areas of the West, especially in the southern Sierra Nevada. In California, two lightning-sparked September wildfires—the Windy Fire and the KNP Complex—scorched nearly 100,000 acres apiece, with the latter incident smoldering for weeks. With the return of warm, dry, windy weather in November, additional fires flared in unexpected places such as Colorado and Montana. Near Denton, Montana, the wind-whipped West Wind Fire—sparked on November 30 by a downed powerline—tore across 10,644 acres and later raced into town, destroying more than two dozen homes. Nationally, wildfires burned nearly 7.7 million acres of vegetation by mid-December, about 105 percent of the 10-year average.

Despite a wet October in parts of the Midwest, corn and soybean harvest activities generally remained ahead of the average pace, in part due to earlier-than-normal crop maturation. However, as the harvest season progressed, parts of the eastern Corn Belt began to experience some wetness-related harvest delays. In contrast, harvest wrapped up early in much of the upper Midwest, especially where drought had accelerated maturation and favored a rapid pace of fieldwork.

Meanwhile, fieldwork delays were apparent early in the harvest season across much of the South, as earlier developmental delays—related to a cool, cloudy, damp summer—led to late maturation for crops such as cotton and peanuts. During November, however, a sudden dry spell resulted in an acceleration of harvest activities, allowing autumn fieldwork to reach completion roughly on schedule.

Elsewhere, winter wheat seeding proceeded mostly on schedule during the autumn, although planting was delayed in a few drier spots. Similarly, wheat emergence was locally slowed by late planting or topsoil moisture shortages. By the end of November, areas of greatest concern with respect to drought-affected winter wheat establishment included Oregon, Montana, and the High Plains from Colorado to Texas.

For much of autumn 2021, drought coverage remained nearly steady between 44 to 48 percent of the Lower 48 States, according to the *Drought Monitor*. By November 23, however, national drought coverage crept above the 50-percent mark for the first time since September 10, 2013. Indeed, drought coverage has been significantly elevated for more than a year—and was last below 40 percent in September 2020. Since the beginning of the 21st century, the only other periods when national drought coverage continuously exceeded 40 percent for more than a year were March 12, 2002 – June 3, 2003, and June 19, 2012 – October 1, 2013.

December: The last month of 2021 featured some notable weather extremes. In fact, monthly temperatures averaged at least 10°F above normal at numerous locations from the southern Plains to the Mississippi Delta, setting records for the

warmest-ever December. That warmth, along with frigid conditions (locally more than 5°F below normal) near the Canadian border from the Pacific Northwest to the northern Plains, fueled an active storm track and periods of severe thunderstorms and heavy precipitation. The month's first significant severe-weather outbreak occurred across the mid-South and lower Midwest on December 5-6. Less than a week later, on the 10th, the deadliest December tornado in the Nation's history—an EF-4 with winds estimated near 190 mph—traveled nearly 166 miles, starting in Obion County, Tennessee, and devastating the Kentucky communities of Mayfield and Dawson Springs. Nearly five dozen deaths occurred during that tornado's rampage, according to preliminary reports, while dozens of additional tornadoes—some with fatalities—swarmed other parts of the mid-South and lower Midwest.

A mid-December wind and dust storm, which raked the central and southern Plains with wind gusts of 75 to 100 mph or higher, further increased concerns regarding the overwintering wheat crop. By the end of December, only 33 percent of Kansas' winter wheat was rated in good to excellent condition, down from 62 percent in late-November 2021. Similarly, the portion of Nebraska's wheat rated good to excellent dropped from 64 to 39 percent between November 28 and December 31. Across the southern High Plains, Texas communities such as Amarillo and Borger ended the year on an 80-day streak (October 13 – December 31) without any precipitation—not even a trace. Lingering drought across the northern High Plains also maintained stress on winter wheat; in Montana, 71 percent of the crop was rated very poor to poor at year's end. The Plains' drought was also reflected in moisture shortages; at the end of December, among reporting states, topsoil moisture was rated at least one-half very short to short in Colorado (84 percent), New Mexico (80 percent), Montana (77 percent), Kansas (72 percent), and Nebraska (68 percent), and North Dakota (50 percent). Toward month's end, wind-driven wildfires near Boulder, Colorado—including the 6,219-acre Marshall Fire—swept through thousands of acres of drought-cured brush, timber, and grass, as well as portions of the communities of Louisville and Superior, destroying as many as 1,000 structures.

In contrast, consistent and widespread storminess delivered December drought relief—in the form of improvements in soil moisture and mountain snowpack—west of the Rockies. Although drought coverage in the 11-state Western region decreased only 5 percentage points (from 94 to 89 percent) between November 30, 2021, and January 4, 2022, there was a substantial decrease in the higher drought categories. For example, Western coverage of extreme to exceptional drought (D3 to D4) during that 5-week period decreased from 44 to 24 percent, according to the *Drought Monitor*. Despite the promising start to the Western winter wet season, additional storminess will be needed in early 2022 to sustain the recovery from a multi-year drought. By December 31, the average water equivalency of the high-elevation Sierra Nevada snowpack stood at just over 15 inches, more than 150 percent of average for the date, but only 55 percent of the typical end-of-season accumulation. In addition, many large reservoirs—including Lake Mead on the Colorado River—remain at historically low levels and will be unlikely to significantly recover, even with ongoing wetness.

2021 Annual Crop Summary

April: April was cooler than normal for most of the Great Plains, Mississippi Valley, Rockies, Southeast, and Texas. Large parts of these areas recorded temperatures 2°F or more below normal. In contrast, temperatures were warmer than normal for most of California, the Great Lakes, Northeast, Pacific Northwest, and Southwest. Large parts of these areas recorded temperatures 2°F or more above normal for the month. While most of the Nation remained drier than normal for the month, higher than normal precipitation was recorded in parts of Florida, New Mexico, the Great Lakes, Southern Plains, Deep South, and Texas. The most significant amounts of rain fell along the Gulf Coast, where parts of Alabama, Louisiana, and Mississippi received 10 inches or more of rain for the month. By April 11, producers had planted 4 percent of the Nation's corn crop, 1 percentage point ahead of both last year and the 5-year average. By April 25, producers had planted 17 percent of the Nation's corn crop, 7 percentage points behind last year and 3 percentage points behind the 5-year average. By April 25, twelve percent of the cotton acreage was planted, 1 percentage point behind the previous year but 1 percentage point ahead of the 5-year average.

May: May was cooler than average for most of the eastern and central thirds of the Nation. Large parts of the Mississippi Valley, Ohio Valley, and southern Plains recorded temperatures 2°F or more below normal. While much of the northern Rockies also recorded below normal temperatures for the month, most of the western third of the Nation was warmer than average. Large parts of California recorded temperatures 2°F or more above normal. While most of the eastern and western thirds of the Nation remained drier than normal, twice the normal amount of rainfall was recorded in parts of Colorado, Kansas, Louisiana, and Texas. Large parts of the western Gulf Coast received 12 inches or more of rain

for the month. By May 16, producers had planted 80 percent of the Nation's corn crop, 2 percentage points ahead of last year and 12 percentage points ahead of the 5-year average. Forty-one percent of the Nation's corn acreage had emerged by May 16, one percentage point ahead of the previous year and 6 percentage points ahead of the 5-year average. Nationwide, 38 percent of the cotton crop was planted by May 16, four percentage points behind the previous year and 2 percentage points behind the 5-year average. Twenty-seven percent of the Nation's sorghum acreage was planted by May 16, four percentage points behind the previous year and 5 percentage points behind the 5-year average. Eighty-three percent of the Nation's barley crop was planted by May 16, thirteen percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Eighty-four percent of the Nation's soybean acreage was planted by May 30, ten percentage points ahead of last year and 17 percentage points ahead of the 5-year average. By May 30, ninety-seven percent of the Nation's spring wheat crop had been seeded, 7 percentage points ahead of last year and 4 percentage points ahead of the 5-year average.

June: June was warmer than average for most of the Nation. Large parts of California, Nevada, the Pacific Northwest, Northern Plains, and Northern Rockies recorded temperatures 6°F or more above normal for the month. In contrast, moderately cooler than normal temperatures were felt in much of the Lower Mississippi Valley, Southeast, and Southern Plains. Most of California, Nevada, New England, the Pacific Northwest, Central and Northern Plains, and Northern Rockies were drier than normal for the month of June. In contrast, parts of the Great Lakes, Mississippi Valley, Southern Plains, Southeast, and Southwest received twice the normal amount of precipitation. By May 30, producers had planted 95 percent of the Nation's corn crop, 3 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Ninety-five percent of the Nation's barley crop was planted by May 30, three percentage points ahead of last year and 1 percentage point ahead of the 5-year average Nationally, producers had planted 92 percent of the 2021 peanut acreage by June 13, two percentage points behind the previous year and 3 percentage points behind the 5-year average. By June 13, ninety-six percent of the Nation's spring wheat crop had emerged, 3 percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. By June 13, ninety-six percent of the Nation's rice acreage had emerged, 4 percentage points ahead of last year but equal to the 5-year average. Ninety-six percent of the Nation's corn acreage had emerged by June 13, two percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. Ninety-six percent of the Nation's barley crop had emerged by June 13, three percentage points ahead of both the previous year and the 5-year average. Nationwide, 90 percent of the cotton crop was planted by June 13, three percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. Ninety-four percent of the Nation's soybean acreage was planted by June 13, two percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Ninety-five percent of the Nation's soybean acreage had emerged by June 28, fifteen percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. Ninety-five percent of the Nation's sorghum acreage was planted by June 27, equal to both the previous year and the 5-year average.

July: July was warmer than average for most of the northern and western sections of the Nation. Parts of California, Nevada, the Pacific Northwest, Northern Plains, and Rockies recorded temperatures 6°F or more above normal for the month. In contrast, most of the East and South were cooler than normal. Large parts of the Southern Great Plains and New England recorded temperatures 2°F or more below normal. Most of the Central and Northern Plains, Pacific Northwest, and Northern Rockies remained drier than normal for the month of July. In contrast, most of the eastern and southern sections of the Nation received higher than normal amounts of rainfall. More than twice the normal amount of precipitation was recorded in large parts of the Northeast, Southwest, and Texas. Eighty-eight percent of the Nation's oat acreage had headed by July 4, five percentage points ahead of both last year and the 5-year average. Fifty-nine percent of the Nation's barley acreage had reached the headed stage by July 4, two percentage points ahead of last year but equal to the 5-year average. By July 4, sixty-nine percent of the Nation's spring wheat crop had reached the headed stage, 10 percentage points ahead of the previous year and 7 percentage points ahead of the 5-year average. By July 18, sixty-three percent of the Nation's soybean acreage had reached the blooming stage, 1 percentage point ahead of last year and 6 percentage points ahead of the 5-year average. By July 18, thirty percent of the Nation's rice acreage had reached the headed stage, 1 percentage point behind the previous year and 6 percentage points behind the 5-year average. Nationally, 23 percent of the Nation's soybean acreage had begun setting pods by July 18, equal to last year but 2 percentage points ahead of the 5-year average. Eighty-two percent of the Nation's cotton acreage had reached the squaring stage by August 1, eight percentage points behind both last year and the 5-year average. By August 1, fifty percent of the Nation's cotton acreage had begun setting bolls, 2 percentage points behind last year and 3 percentage points behind the 5-year average. By August 1, ninety-one percent of the Nation's corn acreage had reached the silking

stage, equal to last year but 5 percentage points ahead of the 5-year average. By August 1, fifty-seven percent of the Nation's sorghum acreage had reached the headed stage, 4 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. By August 1, eighty-eight percent of the Nation's peanut crop had reached the pegging stage, 1 percentage point behind both the previous year and the 5-year average.

August: August was warmer than average for much of the Nation. Large areas of the Great Lakes, Mid-Atlantic, Northeast, Pacific Northwest, and the Plains recorded temperatures 2°F or more above normal for the month. In contrast, large parts of the Rockies, Southwest, and Texas were cooler than normal. While most of California, Nevada, and the Pacific Northwest remained drier than normal, twice the average amounts of precipitation or more were recorded in large areas of the Rockies. Parts of the Great Lakes, Mid-Atlantic, Midwest, South, and Southwest also recorded higher than normal amounts of precipitation for the month. By August 1, ninety-one percent of the Nation's corn acreage had reached the silking stage, equal to last year but 5 percentage points ahead of the 5-year average. By August 1, thirty-eight percent of the corn acreage was at or beyond the dough stage, 1 percentage point ahead of last year and 5 percentage points ahead of the 5-year average. By August 15, barley producers had harvested 54 percent of the Nation's barley crop, 23 percentage points ahead of last year and 10 percentage points ahead of the 5-year average. On August 15, twenty-three percent of the Nation's barley acreage was rated in good to excellent condition, 54 percentage points below the same time in 2020. By August 15, fifty-eight percent of the Nation's spring wheat had been harvested, 30 percentage points ahead of the previous year and 22 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average in all 6 estimating States. On August 15, eleven percent of the Nation's spring wheat was rated in good to excellent condition, 59 percentage points below the same time in 2020. By August 15, eighty-two percent of the Nation's sorghum acreage had reached the headed stage, 1 percentage point ahead of last year and 3 percentage points ahead of the 5-year average. By August 15, eighty-six percent of the Nation's rice acreage had reached the headed stage, 2 percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Seventy-five percent of the Nation's oat acreage had been harvested by August 15, two percentage points ahead of last year and 5 percentage points ahead of the 5-year average. By August 15, ninety-four percent of the Nation's soybean acreage had reached the blooming stage, 1 percentage point behind last year but equal to the 5-year average. By August 29, ninety-three percent of the Nation's soybean acreage had begun setting pods, 2 percentage points behind last year but 1 percentage point ahead of the 5-year average. By August 29, eighty-six percent of the Nation's cotton acreage had begun setting bolls, 6 percentage points behind last year and 8 percentage points behind the 5-year average.

September: September was warmer than normal for most of the Nation. Large parts of the Great Plains recorded temperatures 4°F or more above normal for the month. In contrast, most of the Gulf Coast, Lower Mississippi Valley, and Southeast were moderately cooler than normal, as were parts of the Northwest. Much of the eastern third of the Nation received higher than normal amounts of precipitation for the month. Due to Hurricanes Ida and Nicholas, parts of the Gulf Coast, Mid-Atlantic, and Northeast recorded 10 inches or more of rain for the month. While the Nation's midsection was mostly drier than normal, locations in Kansas, Nebraska, and South Dakota recorded twice the normal amount of precipitation. In the West, locations in Arizona and large parts of the Pacific Northwest also recorded twice the normal amounts of precipitation for the month. By September 6, seventy-nine percent of this year's crop acreage was denting, 28 percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. Fifty-seven percent of the Nation's corn acreage was mature by September 19, one percentage point ahead of last year and 10 percentage points ahead of the 5-year average. By September 5, barley producers had harvested 92 percent of the Nation's barley crop, 9 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. By September 5, ninety-five percent of the Nation's spring wheat had been harvested, 15 percentage points ahead of the previous year and 12 percentage points ahead of the 5-year average. Ninety-seven percent of the Nation's oat acreage had been harvested by September 5, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Nationally, 51 percent of the rice acreage was harvested by September 19, six percentage points ahead of last year but 5 percentage points behind the 5-year average. On September 19, seventy-six percent of the Nation's rice acreage was rated in good to excellent condition, 2 percentage points above the same time in 2020. Soybeans leaves dropping advanced to 58 percent complete Nationally by September 19, two percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Ninety-two percent of the Nation's sorghum acreage was at or beyond the coloring stage by September 19, one percentage point ahead of last year and 4 percentage points ahead of the 5-year average. Nationwide, producers had sown 34 percent of the intended 2022 winter wheat acreage by September 26, one percentage point ahead of last year and 2 percentage points ahead of the 5-year average. By September 26, sixty percent of the Nation's cotton had open bolls, 5 percentage points behind last year and 4 percentage points behind the 5-year average.

October: October was warmer than normal for most of the Nation. Large parts of the Great Lakes, Mid-Atlantic, Northeast, and Northern Plains recorded temperatures 6°F or more above normal for the month. In contrast, much of the Pacific Northwest, Southern Rockies, and Southwest were cooler than normal. Much of the Nation received higher than normal amounts of precipitation for the month. Large parts of California, the Midwest, Nevada, Northern Plains, Rockies, and Southeast recorded at least twice the normal amount of precipitation. Parts of Northern California and Washington recorded 12 inches or more of precipitation for the month. Soybean harvest across the Nation was 60 percent complete by October 17, thirteen percentage points behind the previous year but 5 percentage points ahead of the 5-year average. Thirty-eight percent of the Nation's peanut acreage was harvested as of October 17, one percentage point behind last year and 14 percentage points behind the 5-year average. As of October 24, seventy-three percent of the Nation's peanut acreage was rated in good to excellent condition, 9 percentage points above the same time in 2020. Nationally, 92 percent of the rice acreage was harvested by October 17, two percentage points ahead of last year and 1 percentage point ahead of the 5-year average. Fifty-two percent of the 2021 corn acreage had been harvested by October 17, five percentage points behind last year but 11 percentage points ahead of the 5-year average harvest pace. As of October 17, sixty percent of the Nation's corn acreage was rated in good to excellent condition, 1 percentage point below the same time in 2020. Fifty-nine percent of the 2021 sorghum acreage had been harvested by October 17, two percentage points behind the previous year but 9 percentage points ahead of the 5-year average. Nationwide, producers had sown 70 percent of the intended 2022 winter wheat acreage by October 17, six percentage points behind the previous year and 1 percentage point behind the 5-year average. By October 31, forty-five percent of the Nation's cotton acreage had been harvested, 6 percentage points behind last year and 3 percentage points behind the 5-year average. As of October 31, sixty-two percent of the 2021 cotton acreage was rated in good to excellent condition, 25 percentage points above the same time in 2020. By October 17, sugarbeet producers had harvested 40 percent of the Nation's crop, 41 percentage points behind last year and 21 percentage points behind the 5-year average.

November: Most of the western half of the Nation recorded warmer than normal temperatures during the month of November. Parts of the Great Plains, Rockies, and Southwest recorded temperature 6°F or more above normal for the month. In contrast, most of the eastern half of the Nation was cooler than normal. Locations in the Delta and Southeast recorded temperatures 4°F or more below normal. While most of the Nation remained drier than normal for the month of November, twice the normal amount of precipitation was recorded in much of Florida, Coastal Georgia, the Upper Midwest, South Texas, and Washington. Parts of Coastal Washington recorded 30 inches or more of precipitation during the month. Nationwide, producers had sown 94 percent of the intended 2022 winter wheat acreage by November 14, two percentage points behind last year but equal to the 5-year average. Nationwide, 81 percent of the winter wheat acreage had emerged by November 14, three percentage points behind last year and 2 percentage points behind the 5-year average. As of November 29, forty-six percent of the 2021 winter wheat acreage was reported in good to excellent condition, 2 percentage points below the same time in 2020. By November 7, sugarbeet producers had harvested 96 percent of the Nation's crop, 2 percentage points behind last year but 4 percentage points ahead of the 5-year average. Soybean harvest across the Nation was 92 percent complete by November 14, three percentage points behind last year and 1 percentage point behind the 5-year average. Eighty-six percent of the Nation's peanut acreage was harvested as of November 14, two percentage points ahead of last year but 3 percentage points behind the 5-year average. Ninety-one percent of the 2021 corn acreage had been harvested by November 14, 3 percentage points behind last year but 5 percentage points ahead of the 5-year average harvest pace. Ninety-seven percent of the 2021 sorghum acreage had been harvested by November 28, two percentage points behind the previous year but 1 percentage point ahead of the 5-year average. By November 29, eighty-four percent of the Nation's cotton acreage had been harvested, 2 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. By November 28, ninety-four percent of the Nation's sunflower crop had been harvested, 2 percentage points behind the previous year but 8 percentage points ahead of the 5-year average.

Crop Comments

Corn: Corn for grain production in the United States was estimated at 15.1 billion bushels, up 7 percent from the 2020 estimate. The average yield in the United States was estimated at a record high 177.0 bushels per acre, 5.6 bushels above the 2020 yield of 171.4 bushels per acre.

Estimated yields in 2021 were up from the previous year across most of the Eastern Corn Belt, Northeast, and most of the

Southeast. Record yields were estimated in Florida, Georgia, Indiana, Iowa, Kentucky, Maryland, Michigan, Nebraska, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, Washington, and Wisconsin.

Corn planted area, at 93.4 million acres, was up 3 percent from the 2020 estimate. Area harvested for grain was estimated at 85.4 million acres, up 4 percent from the 2020 estimate.

The 2021 corn objective yield data indicated the third highest number of ears per acre, since 2012, for the combined 10 objective yield States (Iowa, Illinois, Indiana, Kansas, Minnesota, Missouri, Nebraska, Ohio, South Dakota, and Wisconsin).

Corn silage production was estimated at 130 million tons for 2021, down 5 percent from the 2020 estimate. The United States silage yield was estimated at 20.1 tons per acre, down 0.4 ton from 2020. Area harvested for silage was estimated at 6.48 million acres, down 3 percent from the 2020 estimate.

By April 11, producers had planted 4 percent of the Nation's corn crop, 1 percentage point ahead of both last year and the 5-year average. By April 25, producers had planted 17 percent of the Nation's corn crop, 7 percentage points behind last year and 3 percentage points behind the 5-year average. Three percent of the Nation's corn acreage had emerged by April 25, equal to the previous year but 1 percentage point behind the 5-year average.

By May 2, producers had planted 46 percent of the Nation's corn crop, 2 percentage points behind last year but 10 percentage points ahead of the 5-year average. Eight percent of the Nation's corn had emerged by May 2, one percentage point ahead of the previous year but 1 percentage point behind the 5-year average. By May 16, producers had planted 80 percent of the Nation's corn, 2 percentage points ahead of last year and 12 percentage points ahead of the 5-year average. Forty-one percent of the Nation's corn acreage had emerged by May 16, one percentage point ahead of the previous year and 6 percentage points ahead of the 5-year average. By May 30, producers had planted 95 percent of the Nation's corn, 3 percentage points ahead of last year and 8 percentage points ahead of the 5-year average. Eighty-one percent of the Nation's corn acreage had emerged by May 30, five percentage points ahead of the previous year and 11 percentage points ahead of the 5-year average. On May 30, seventy-six percent of the Nation's corn was rated in good to excellent condition, 2 percentage points above the previous year.

Ninety percent of the Nation's corn acreage had emerged by June 6, three percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. Ninety-six percent of the Nation's corn acreage had emerged by June 13, two percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. By June 27, four percent of the Nation's corn had reached the silking stage, equal to last year but 2 percentage points behind the 5-year average. On June 27, sixty-four percent of the Nation's corn was rated in good to excellent condition, 9 percentage points below the same time last year.

By July 11, twenty-six percent of the Nation's corn had reached the silking stage, equal to last year but 4 percentage points behind the 5-year average. By July 11, three percent of the corn was at or beyond the dough stage, equal to both last year and the 5-year average. By July 25, seventy-nine percent of the Nation's corn had reached the silking stage, equal to last year but 6 percentage points ahead of the 5-year average. By July 25, eighteen percent of the corn was at or beyond the dough stage, 2 percentage points behind last year but 1 percentage point ahead of the 5-year average. On July 25, sixty-four percent of the corn acreage was rated in good to excellent condition, 8 percentage points below the same time last year.

By August 1, ninety-one percent of the Nation's corn acreage had reached the silking stage, equal to last year but 5 percentage points ahead of the 5-year average. By August 1, thirty-eight percent of the corn was at or beyond the dough stage, 1 percentage point ahead of last year and 5 percentage points ahead of average. By August 15, seventy-three percent of the corn acreage was at or beyond the dough stage, 1 percentage point behind last year but 5 percentage points ahead of the 5-year average. By August 15, twenty-two percent of this year's corn acreage was denting, 1 percentage point ahead of last year but equal to the average. By August 29, ninety-one percent of the corn was at or beyond the dough stage, 2 percentage points behind last year but 2 percentage points ahead of the 5-year average. By August 29, fifty-nine percent of this year's corn acreage was denting, 1 percentage point behind last year but 4 percentage points ahead of the 5-year average. Nine percent of the Nation's corn was mature by August 29, two percentage points behind last year and

1 percentage point behind the 5-year average. On August 29, sixty percent of the corn was rated in good to excellent condition, 2 percentage points below the same time last year.

By September 5, ninety-five percent of the corn acreage was at or beyond the dough stage, 2 percentage points behind last year but 1 percentage point ahead of the 5-year average. By September 5, seventy-four percent of this year's corn acreage was denting, 3 percentage points behind last year but 5 percentage points ahead of the 5-year average. Twenty-one percent of the Nation's corn was mature by September 5, two percentage points behind last year but 2 percentage points ahead of the 5-year average. By September 19, ninety-three percent of this year's corn acreage was denting, 1 percentage point behind last year but 4 percentage points ahead of the 5-year average. Fifty-seven percent of the corn acreage was mature by September 19, one percentage point ahead of last year and 10 percentage points ahead of the 5-year average. Ten percent of the 2021 corn acreage was harvested by September 19, two percentage points ahead of last year and 1 percentage point ahead of the 5-year average harvest pace. By September 26, ninety-seven percent of this year's corn acreage was denting, 1 percentage point behind last year but 3 percentage points ahead of the 5-year average. Seventy-four percent of the Nation's corn was mature by September 26, one percentage point ahead of last year and 10 percentage points ahead of the 5-year average. Eighteen percent of the 2021 corn acreage was harvested by September 26, four percentage points ahead of last year and 3 percentage points ahead of the 5-year average harvest pace.

Eighty-eight percent of the Nation's corn acreage was mature by October 3, three percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Twenty-nine percent of the 2021 corn acreage was harvested by October 3, five percentage points ahead of last year and 7 percentage points ahead of the 5-year average harvest pace. Ninety-seven percent of the Nation's corn acreage was mature by October 17, equal to last year but 4 percentage points ahead of the 5-year average. Fifty-two percent of the 2021 corn acreage was harvested by October 17, five percentage points behind last year but 11 percentage points ahead of the 5-year average harvest pace. On October 17, sixty percent of the Nation's corn acreage was rated in good to excellent condition, 1 percentage point below the same time last year. Seventy-four percent of the 2021 corn acreage was harvested by October 31, seven percentage points behind last year but 8 percentage points ahead of the 5-year average harvest pace.

Eighty-four percent of the 2021 corn acreage was harvested by November 7, six percentage points behind last year but 6 percentage points ahead of the 5-year average pace. Ninety-five percent of the 2021 corn acreage was harvested by November 21, two percentage points behind last year but 3 percentage points ahead of the 5-year average pace.

Sorghum: Grain production in 2021 was estimated at 448 million bushels, up 20 percent from the 2020 total. Planted area for 2021 was estimated at 7.31 million acres, up 24 percent from 2020. Area harvested for grain, at 6.49 million acres, was up 27 percent from 2020. Grain yield was estimated at 69.0 bushels per acre, down 4.2 bushels from 2020.

Silage production was estimated at 5.08 million tons, up 63 percent from 2020. Area harvested for silage was estimated at 331,000 acres, up 39 percent from the previous year. Silage yield averaged 15.4 tons per acre, up 2.3 tons per acre from 2020.

Oats: Production in 2021 was estimated at record low 39.8 million bushels, down 39 percent from 2020. Yield was estimated at 61.3 bushels per acre, down 3.8 bushels from the previous year. Harvested area, at a record low 650 thousand acres, was 36 percent below 2020. Record low acres were planted in Oregon and Wisconsin. Record low acres were harvested in Maine, Michigan, Minnesota, Montana, and New York. Record low production was estimated in Michigan, Montana, Oregon, and Wisconsin.

Nationally, oat producers seeded 72 percent of the 2021 acreage by May 2, seven percentage points ahead of the previous year and 10 percentage points ahead of the 5-year average. Seventy-three percent of the oat acreage was emerged by May 16, six percentage points ahead of the previous year and 7 percentage point ahead of the 5-year average. Heading of the oat acreage advanced to 77 percent complete by June 27, five percentage points ahead of the previous year and 6 percentage point ahead of the 5-year average. Oat producers harvested 48 percent of the acreage by August 1, one percentage point ahead of the previous year and 6 percentage points ahead of the 5-year average. At that time, harvest progress was at or ahead of the 5-year average in 7 of the 9 weekly *Crop Progress* estimating States. Ninety-two percent of the Nation's oat acreage was harvested by August 29, two percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average.

Barley: Production was estimated at 118 million bushels, down 31 percent from the 2020 total of 171 million bushels. The average yield, at 60.4 bushels per acre, was down 16.8 bushels from the previous year. Producers seeded 2.66 million acres in 2021, down 2 percent from 2020. Harvested area, at 1.95 million acres, was down 12 percent from 2020.

Record low planted acres were estimated in California, Oregon, Minnesota, New York, Utah, and Wisconsin, and record low harvested acres were estimated in California and Wisconsin. Record high yields were estimated in Alaska, Kansas, and New York, while record low production was estimated in California and South Dakota.

Thirteen percent of the Nation's barley acreage was planted by April 11, two percentage points ahead of the previous year and 2 percentage points ahead of the 5-year average. Nationwide, barley producers seeded 35 percent of the Nation's acreage by April 25, twelve percentage points ahead the previous year and 7 percentage points ahead of the 5-year average. By April 25, emergence was evident in 10 percent of the Nation's barley acreage, 3 percentage points ahead of the previous year and 2 percentage points ahead the 5-year average. Nationally, 95 percent of the barley acreage was sown by May 30, three percentage points ahead of the previous year, and 1 percentage point ahead the 5-year average. Seventy-nine percent of the barley acreage emerged by May 30, seven percentage points ahead of the previous year, and 3 percentage points ahead of the 5-year average. Heading of the Nation's barley acreage advanced to 59 percent complete by July 4, two percentage points ahead of the previous year matching the 5-year average. By August 1, barley producers harvested 13 percent of the Nation's acreage, 9 percentage points ahead of the previous year and 5 percentage points ahead the 5-year average. Overall, 24 percent of the barley acreage was reported in good to excellent condition on August 8, compared with 79 percent at the same time last year. By September 12, ninety-seven percent of the barley acreage was harvested, 3 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average.

All wheat: Production totaled 1.65 billion bushels in 2021, down 10 percent from the 2020 total of 1.83 billion bushels. Area harvested for grain totaled 37.2 million acres, up 1 percent from the previous year. The United States yield was estimated at 44.3 bushels per acre, down 5.4 bushels from the previous year. The levels of production and changes from 2020 by type were: winter wheat, 1.28 billion bushels, up 9 percent; other spring wheat, 331 million bushels, down 44 percent; and Durum wheat, 37.3 million bushels, down 46 percent.

Winter wheat: Winter wheat production for 2021 totaled 1.28 billion bushels, up 9 percent from the 2020 total of 1.17 billion bushels. The United States yield, at 50.2 bushels per acre, was down 0.7 bushel from 2020. Area harvested for grain was estimated at 25.5 million acres, up 11 percent from the previous year. Record low acres were estimated in Utah in 2021. Record high yields were estimated in Alabama, Illinois, Indiana, New Jersey, New York, Ohio, Pennsylvania, and Texas for 2021.

Compared with 2020, harvested acreage was up 10 percent in the major Hard Red Winter (HRW) growing States, the primary winter wheat-producing area. HRW production totaled 749 million bushels, up 14 percent from 2020.

In the Soft Red Winter (SRW) growing area, planted and harvested acreage increased from 2020. SRW production totaled 361 million bushels, up 35 percent from 2020.

White winter wheat production totaled 167 million bushels, down 32 percent from the previous year. Harvested acreage in the Pacific Northwest (Idaho, Oregon, and Washington) was up slightly from 2020.

Seeding of the 2021 winter wheat acreage began in mid-September 2020 with 10 percent sown by September 13. By October 4, producers had sown 52 percent of the intended 2021 winter wheat acreage, 4 percentage points ahead of the previous year and 5 percentage point ahead of the 5-year average. Nationwide, 24 percent of the winter wheat acreage was emerged by October 4, two percentage points ahead of the previous year and three percentage points ahead of the 5-year average. Emergence was at or behind the 5-year average in 11 of the 18 estimating States. Producers had sown 85 percent of the intended 2021 winter wheat acreage by October 25, two percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. Winter wheat planting had double-digit advances in 6 of the 18 estimating States during the week. Nationwide, 62 percent of the winter wheat acreage had emerged by October 25,

two percentage points ahead of both the previous year and the 5-year average. Emergence was at or ahead of the 5-year average in 11 of the 18 estimating States. Overall, 41 percent of the 2021 winter wheat acreage was reported in good to excellent condition based on conditions as of October 25, compared with 56 percent at the same time the previous year.

Seeding of the 2021 acreage was nearing completion (96 percent) by November 15, two percentage points ahead of the previous year and the 5-year average. Winter wheat planting was complete or nearing completion in 13 of the 18 estimating States. Nationwide, 85 percent of the winter wheat acreage had emerged by November 15, three percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. Winter wheat emergence advanced by 10 percentage points or more from the previous week in 6 of the 18 estimating States. Overall, 43 percent of the 2021 winter wheat acreage was reported in good to excellent condition for the week ending November 22, 3 percentage points below the previous week and 9 percentage points below the same time the previous year as the acreage was entering dormancy.

As the acreage was emerging from dormancy, fifty-three percent of the 2021 winter wheat acreage was reported in good to excellent condition, 9 percentage points below the previous year as of April 5. In Kansas, the largest winter wheat-producing State, 54 percent of the winter wheat acreage was rated in good to excellent condition. By April 18, ten percent of the Nation's winter wheat acreage was headed, 3 percentage points behind the previous year and 4 percentage points behind the 5-year average. On April 18, fifty-three percent of the 2021 winter wheat acreage was reported in good to excellent condition, equal to the previous week but four percentage points below the previous year. In Kansas, the largest winter wheat-producing State, 55 percent of the winter wheat acreage was rated in good to excellent condition.

By May 2, twenty-seven percent of the Nation's winter wheat acreage was headed, 3 percentage points behind the previous year and 7 percentage points behind the 5-year average. On May 2, forty-eight percent of the 2021 winter wheat acreage was reported in good to excellent condition, 1 percentage point below the previous week and 7 percentage points below the same time the previous year. In Kansas, the largest winter wheat-producing State, 55 percent of the winter wheat acreage was rated in good to excellent condition. By June 6, eighty-five percent of the Nation's winter wheat acreage was headed, 1 percentage points ahead of the previous year but 1 percentage point behind the 5-year average. Two percent of the 2021 winter wheat acreage was harvested by June 6, four percentage points behind the previous year and 5 percentage point behind of the 5-year average. As of June 6, fifty percent of the 2021 winter wheat acreage was reported in good to excellent condition, 2 percentage points above the previous week but 1 percentage points below the same time the previous year. In Kansas, the largest winter wheat-producing State, 65 percent of the winter wheat acreage was rated in good to excellent condition. Thirty-three percent of the 2021 winter wheat acreage was harvested by June 27, six percentage points behind the previous year and seven percentage points behind the 5-year average. As of June 27, forty-eight percent of the 2021 winter wheat acreage was reported in good to excellent condition, 1 percentage points below the previous week and 4 percentage points below the same time the previous year.

In Kansas, the largest winter wheat-producing State, 85 percent of the State's winter wheat acreage was harvested by July 11, 8 percentage points behind the previous year and 4 percentage points behind the 5-year average. Fifty-nine percent of the 2021 winter wheat acreage had been harvested by July 11, seven percentage points behind the previous year and 6 percentage points behind the 5-year average. In Kansas, 98 percent of the State's winter wheat acreage was harvested by July 25, one percentage point behind the previous year and the 5-year average. Eighty-four percent of the 2021 winter wheat acreage had been harvested by July 25, four percentage points ahead of the previous year and 3 percentage points ahead the 5-year average. Winter wheat harvest progress continued with advances of 20 percentage points or more from the previous week reported in Colorado, Michigan, Nebraska, Oregon, South Dakota, and Washington.

Ninety-one percent of the 2021 winter wheat acreage had been harvested by August 1, seven percentage points ahead of the previous year and 5 percentage points ahead the 5-year average. Winter wheat harvest progress was complete or nearing completion in all estimating States except Idaho, Michigan, Montana, Oregon, and Washington.

Ninety-five percent of the 2021 winter wheat acreage had been harvested by August 8, six percentage point ahead of the previous year and 4 percentage points behind the 5-year average. Winter wheat harvest progress was complete or nearing completion in all estimating States except Idaho, Montana, Oregon, and Washington.

Other spring wheat: Production for 2021 was estimated at 331 million bushels, down 44 percent from the 2020 total of 588 million bushels. Harvested area totaled 10.2 million acres, down 16 percent from 2020. The United States yield was estimated at 32.6 bushels per acre, down 16.0 bushel from the record high of 48.6 bushels per acre in 2020. Of the total production, 297 million bushels were Hard Red Spring wheat, down 44 percent from the 2020 total.

Seeding of the 2021 spring wheat acreage began in early April. Twenty-eight percent of the spring wheat acreage was seeded by April 25, fifteen percentage points ahead of the previous year and 9 percentage points ahead of the 5-year average. As of April 25, Washington and Idaho led the Nation in planting progress with 80 percent and 64 percent planted, respectively. By April 25, seven percent of the Nation's spring wheat acreage had emerged, 3 percentage points ahead of last year and 2 percentage points ahead the 5-year average.

As of May 9, seventy percent of the spring wheat acreage was seeded, 30 percentage points ahead of the previous year and 19 percentage points ahead of the 5-year average. Minnesota and Idaho had the largest percentages of acres planted, with 97 percent and 93 percent planted, respectively. As of May 9, twenty-nine percent of the Nation's spring wheat acreage had emerged, 14 percentage points ahead of the previous year and 9 percentage points ahead of the 5-year average. As of May 23, ninety-four percent of the spring wheat acreage was seeded, 16 percentage point ahead of the previous year and 9 percentage points ahead of the 5-year average. As of May 23, sixty-six percent of the Nation's spring wheat acreage had emerged, 18 percentage points ahead of the previous year and 10 percentage points ahead of the 5-year average.

As of May 30, ninety-seven percent of the spring wheat acreage had been seeded, 7 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. As of May 30, eighty percent of the Nation's spring wheat acreage had emerged, 15 percentage point ahead of the previous year and 7 percentage points ahead of the 5-year average. Forty-three percent of the Nation's spring wheat was rated in good to excellent condition, two percentage points below the previous week and thirty-seven percentage point below the same time the previous year. By June 20, twenty-seven percent of the Nation's spring wheat acreage had reached the headed stage, 16 percentage points ahead of the previous year and 9 percentage points ahead the 5-year average. Twenty-seven percent of the Nation's spring wheat was rated in good to excellent condition, 10 percentage points below the previous week and 48 percent below the same time the previous year.

By July 5, sixty-nine percent of the Nation's spring wheat acreage had reached the headed stage, 10 percentage points ahead of the previous year and 7 percentage points ahead of the 5-year average. Sixteen percent of the Nation's spring wheat was rated in good to excellent condition, 4 percentage point below the previous week and 54 percentage points below the same time the previous year. By July 25, ninety-seven percent of the Nation's spring wheat acreage had reached the headed stage, 1 percentage point ahead of the previous year and equal to the 5-year average. By July 25, three percent of the spring wheat had been harvested, 2 percentage points ahead of the previous year and 1 percentage points ahead of the 5-year average. Nine percent of the Nation's spring wheat was rated in good to excellent condition, 2 percentage points below the previous week and 61 percentage points below the same time the previous year.

By August 1, seventeen percent of the spring wheat had been harvested, 13 percentage points ahead of the previous year and 9 percentage points ahead of the 5-year average. Harvest progress was ahead of the 5-year average in all of the 6 estimating States. Ten percent of the Nation's spring wheat was rated in good to excellent condition, 1 percentage point above the previous week but 63 percent below the same time the previous year. By August 29, eighty-eight percent of the spring wheat had been harvested, 22 percentage points ahead of the previous year and 17 percentage points ahead of the 5-year average. Harvest progress was 20 percentage points or more, ahead of last year, in North Dakota and Washington.

By September 5, ninety-five percent of the spring wheat was harvested, 15 percentage points ahead of the previous year and 12 percentage points ahead the 5-year average. Harvest progress advanced 10 percentage points or more in 2 of the 6 estimating States during the week.

Durum wheat: Production for 2021 was estimated at 37.3 million bushels, down 46 percent from the 2020 total of 69.1 million bushels. Area harvested for grain totaled 1.53 million acres, down 8 percent from the previous year. The United States yield was estimated at 24.3 bushels per acre, down 17.2 bushels from the 2020 yield. Production in North Dakota, the largest Durum wheat-producing State, was down 44 percent from 2020. The decrease in production is a

result of dry conditions in the major Durum wheat growing States. Harvest began in the two major Durum-wheat producing States of Montana and North Dakota in early August. Harvest was 96 percent complete in both Montana and North Dakota by September 12.

Rice: Production in 2021 totaled 192 million cwt, down 16 percent from the 2020 total. Planted area for 2021 was estimated at 2.53 million acres, down 17 percent from 2020. Area harvested, at 2.49 million acres, was down 17 percent from the previous crop year. The average yield for all United States rice was estimated at a record high 7,709 pounds per acre, up 90 pounds from the 2020 average yield of 7,619 pounds per acre.

Yield estimates increased from the previous year in all States except Texas. Record high yields were estimated for Arkansas, California, Missouri, and Mississippi.

Rye: Production for 2021 was estimated at 9.8 million bushels, down 15 percent from the 2020 total. Harvested area totaled 294,000 acres, down 36,000 acres from 2020. The United States yield, at 33.4 bushels per acre, was down 1.5 bushels from the previous year. Planted area totaled 2.13 million acres, up 9 percent from 2020, and the highest since 1988. Much of those acres were used as cover crop.

Record high planted area was estimated in Pennsylvania. Record high yields were estimated in Minnesota and Wisconsin.

Proso millet: Production of proso millet in 2021 totaled 15.4 million bushels, up 61 percent from the revised 2020 production of 9.57 million bushels. Area planted to proso millet in the United States was estimated at 725,000 acres, up 116,000 acres (or 19 percent) from 2020. Area harvested in the United States, at 662,000 acres, was up 153,000 acres (or 30 percent) from the revised 2020 harvested estimate. The average yield for 2021 was estimated at 23.2 bushels per acre, up 4.4 bushels from the revised 2020 yield of 18.8 bushels per acre.

All hay: Production of all dry hay for 2021 was estimated at 120.2 million tons, down 5 percent from the 2020 total. Area harvested was estimated at 50.7 million acres, down 3 percent from 2020. The average yield, at 2.37 tons per acre, was down 0.06 ton from 2020.

Record low harvested acres were estimated in Connecticut, Delaware, Minnesota, North Dakota, Oregon, Vermont, and Wisconsin. Record high yields were seen in Alabama, California, Georgia, and Nevada. Record low production was estimated in Delaware, Massachusetts, Minnesota, New Hampshire, and Vermont.

Alfalfa and alfalfa mixtures: Production in 2021 was estimated at 49.2 million tons, down 7 percent from the 2020 total. Harvested area, at 15.2 million acres, was 6 percent below 2020. Average yield was estimated at 3.23 tons per acre, down 0.04 ton from 2020.

Record low harvested acres were estimated in Arkansas and Rhode Island. Record high yields were estimated in California and Nevada, while a record low yield was estimated in New Hampshire.

All other hay: Production in 2021 totaled 71.0 million tons, down 4 percent from the 2020 total. Harvested area, at 35.5 million acres, was down 1 percent from 2020. Average yield was estimated at 2.00 tons per acre, down 0.05 ton from 2020.

Record low harvested acres were estimated in California, Connecticut, Illinois, and Oregon, while record high harvested acres were estimates in Texas and Utah. Record high yields were estimated in Alabama, California, Georgia, Iowa, and New York. Record low production was estimated in Massachusetts, Minnesota, and New Hampshire.

Forage: In 2021, 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 2021 all haylage and greenchop production was 29.9 million tons, of which 20.2 million tons were from alfalfa and alfalfa mixtures. The 17 State total for all forage production was 81.6 million tons. Of this total, 42.0 million tons were produced from alfalfa and alfalfa mixtures.

Record low alfalfa haylage production was estimated in Missouri and Pennsylvania, while record high production was estimated in Iowa. Record low alfalfa forage was estimated in Minnesota, Pennsylvania, and South Dakota. Record high other haylage production was estimated in Kansas, Missouri, and Nebraska, while a record low was estimated in California. Record low other hay forage was estimated in Minnesota, South Dakota, and Washington.

New seedings of alfalfa and alfalfa mixtures: Growers seeded 1.65 million acres of alfalfa and alfalfa mixtures during 2021, down 25 percent from 2020. This is a record low for the Nation. New seedings of alfalfa and alfalfa mixtures are normally harvested for the first time in the year following planting.

Record low alfalfa dry hay seedings were estimated in California, Colorado, Connecticut, Delaware, Idaho, Iowa, Kentucky, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Mexico, North Dakota, Ohio, Oregon, Pennsylvania, South Dakota, Vermont, Virginia, Washington, and Wisconsin, while record high seedings were estimated in Maine and North Carolina.

Peanuts: Production was estimated at 6.39 billion pounds, up 4 percent from 2020. Planted area was estimated at 1.59 million acres, down 5 percent from 2020. Harvested area was estimated at 1.55 million acres, down 4 percent from 2020. The average yield was estimated at 4,135 pounds per acre, up 322 pounds from 2020.

Record high yields were estimated in Oklahoma, South Carolina, and Virginia.

Canola: Production in 2021 was estimated at 2.72 billion pounds, down 21 percent from 2020 but still represents the seventh largest total on record for the Nation. The average yield, at 1,302 pounds per acre, is down 629 pounds from last year's average and is the lowest since 2007. Planted area was estimated at 2.15 million acres, 18 percent above the previous year's acreage. Harvested area, at 2.09 million acres, was up 17 percent from 2020. Both the planted and harvested area are the highest on record for the Nation.

Production in North Dakota, the leading canola-producing State, was estimated at 2.30 billion pounds. This was a decline of 21 percent from 2020 but still represents the seventh largest production for North Dakota on record. Planted and harvested area in North Dakota were up 16 percent and 15 percent, respectively, from 2020 and both were record highs.

Planted area in Montana and Washington for 2021 were both record highs. A record high yield was estimated in Oklahoma, while a record low yield was estimated in Washington.

Sunflower: The 2021 sunflower production totaled 1.90 billion pounds, down 36 percent from 2020 and was the lowest production since 1989. The United States average yield of 1,530 pounds per acre decreased 260 pounds from 2020. Planted area, at 1.29 million acres, was 25 percent below the previous year and was the lowest since 1976. Area harvested decreased 25 percent from 2020 to 1.24 million acres.

South Dakota, the leading sunflower-producing State during 2020, produced 818 million pounds, a decrease of 30 percent from 2020. Compared with 2020, planted area in South Dakota decreased 16 percent and yield decreased 278 pounds to 1,632 pounds per acre. Meanwhile, production in North Dakota decreased 43 percent from 2020 to 762 million pounds. Planted acreage in North Dakota, at 494 thousand acres, decreased 33 percent from the previous year. The average yield in North Dakota decreased 291 pounds from 2020 to 1,581 pounds per acre.

United States production of oil-type sunflower varieties, at 1.74 billion pounds, decreased 34 percent from 2020. Compared with the previous year, harvested acres were down 22 percent and the average yield decreased by 279 pounds to 1,523 pounds per acre.

Production of non-oil sunflower varieties was estimated at 167 million pounds, a decrease of 54 percent from 2020 and represents the lowest production on record for the Nation. Area harvested, at 104,300 acres, was down 51 percent from 2020. The average yield decreased by 109 pounds from 2020 to 1,602 pounds per acre.

Harvest of sunflowers began the last week of September and progressed near or ahead of the 5-year average pace throughout most of October in the 4 *Crop Progress* estimating States. As of October 31, fifty-three percent of the Nation's

crop was harvested, 6 percentage points behind the previous year but 3 percentage points ahead of the 5-year average. By November 28, harvest progress Nationally had reached 94 percent complete, 2 percentage points behind the previous year but 8 percentage points ahead of the 5-year average.

Soybeans: Production in 2021 totaled a record 4.44 billion bushels, up 5 percent from 2020. The average yield was estimated at 51.4 bushels per acre, 0.4 bushel above 2020. Planted area for the Nation, at 87.2 million acres, was up 5 percent from the 2020 planted acreage. Soybean growers harvested 86.3 million acres, up 5 percent from 2020.

Record high yields occurred in Alabama, Delaware, Georgia, Illinois, Indiana, Iowa, Kentucky, Maryland, Michigan, Mississippi, Nebraska, New Jersey, New York, North Carolina, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia, and Wisconsin.

The 2021 soybean objective yield survey data indicated that final average pod counts were lower than 2020 in the combined eleven objective yield States. Compared with final counts for 2020, pod counts were down in 6 of the 11 published States. A decrease of more than 100 pods per 18 square feet from 2020's final pod count occurred in Indiana, Kansas, Minnesota, and South Dakota, and a decrease of more than 400 pods per 18 square feet occurred in North Dakota.

Planting was underway by the start of May in all 18 major soybean-producing States. Twenty-four percent of the acreage was planted by May 2, three percentage points ahead of the previous year and 13 percentage points ahead of the 5-year average. Eighty-four percent of soybean acreage was planted by May 30, seventeen percentage points ahead of the 5-year average. Nationally, 86 percent of soybean acreage was emerged by June 13, seven percentage points ahead of the previous year and 12 percentage points ahead of the 5-year average. Soybean emergence was ahead of the 5-year average in 17 of the 18 major soybean-producing States, with Illinois, Indiana, Michigan, Minnesota, Ohio, South Dakota, and Wisconsin more than 10 percentage points ahead of the 5-year average. By contrast, Louisiana was 9 percentage points behind the 5-year average as of June 13. By July 4, twenty-nine percent of soybean acreage was blooming, equal to the previous year and 5 percentage points ahead of the 5-year average. Forty-six percent of soybean acreage was blooming by July 11, equal to the previous season and 6 percentage points ahead of the 5-year average. By July 11, ten percent of the soybean acreage was setting pods, equal to the previous year and the 5-year average. The week ending July 11 was the first week this year that soybeans were setting pods in all 18 major soybean-producing States. Twenty-three percent of soybean acres were setting pods by July 18, equal to the previous year and 2 percentage points ahead of the 5-year average. By July 25, seventy-six percent of soybean acreage was blooming, 2 percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average.

As of August 1, fifty-eight percent of the soybean acreage was setting pods, 1 percentage point ahead of the previous year and 6 percentage points ahead of the 5-year average. Eighty-one percent of the acreage was setting pods on August 15, two percentage points behind the previous year but 2 percentage points ahead of the 5-year average. By August 29, ninety-three percent of the soybean acreage was setting pods, 2 percentage points behind the previous year but 1 percentage point ahead of the 5-year average.

As of October 3, eighty-six percent of the United States soybean acreage was at or beyond the leaf dropping stage, 3 percentage points ahead of the previous year and 6 percentage points ahead of the 5-year average. Soybean harvest was 34 percent complete as of October 3, one percentage point behind the previous year but 8 percentage points ahead of the 5-year average. At that time, harvest progress was at or ahead of the respective State 5-year average pace in 13 of the 18 States estimated in the *Crop Progress* report. As of October 3, fifty-eight percent of the Nation's soybean acreage was rated in good to excellent condition, 6 percentage points behind the same time the previous year.

Flaxseed: Production of flaxseed in 2021 totaled 2.71 million bushels, down 53 percent from the 2020 production. Harvested area totaled 268,000 acres in 2021, down 9 percent from 2020. Harvested acreage in North Dakota, the largest flaxseed-producing State, was estimated at 171,000 acres, down 12 percent from 2020. The average United States yield for 2021, at 10.1 bushels per acre, was down 9.2 bushels from 2020.

Safflower: Production of safflower in 2021, at a record low of 135 million pounds, was down 11 percent from 2020. Growers planted 152,000 acres in 2021, an increase of 10 percent from the previous year but represented the third lowest planted area for the Nation since records began in 1991. Growers in California, the leading safflower-producing State,

planted 40,000 acres in 2021, an increase of 17,000 acres from the previous year. Despite the increase from 2020, planted area was the second lowest on record for California. Planted area in Idaho, at 34,000 acres, was the largest since data began to be published for Idaho in 2016. Harvested area for the Nation, at 135,000 acres, was up 5 percent from 2020 but is the third lowest harvested area on record. The average yield for the Nation, at 1,001 pounds per acre, declined 184 pounds from the 2020 average yield per acre and represented the lowest yield on record for the Nation.

A record low yield was estimated in Idaho and Montana.

Other Oilseeds: Mustard seed production for 2021 decreased 46 percent from the previous year to 43.8 million pounds and was the lowest production for the Nation since 2015. Planted area, at 103,000 acres, was up 6,000 acres from 2020. Planted acreage represented the fourth highest area for the Nation since records began in 1991. Harvested area, at 89,300 acres, was down 2 percent, or 2,100 acres, from last year. The average yield, at 491 pounds per acre, was 404 pounds below the 2020 average yield and represents the lowest yield on record for the Nation.

Rapeseed production was estimated at 22.6 million pounds, up 14 percent from last year's production level and represented the largest production for the Nation since records began in 1991. Growers planted 14,300 acres of rapeseed in 2021, an increase of 3,100 acres from 2020. Harvested area, at 12,500 acres, was up 2,400 acres from last year. Planted and harvested area both represented the second largest area for the Nation on record. The average yield in 2021 was 1,809 pounds per acre, a decline of 162 pounds from 2020.

Cotton: Upland cotton production was estimated at 17.3 million 480-pound bales, up 23 percent from the previous year. The United States yield for Upland cotton is estimated at 841 pounds per acre, up 6 pounds from 2020. Upland planted area, estimated at 11.1 million acres, was down 7 percent from the previous year. Harvested area, at 9.84 million acres, was up 22 percent from the previous year. In Louisiana and California, Upland planted and harvested area were at record lows. New Mexico Upland cotton also recorded a record low for harvested acres and production. If realized, the forecasted yield for all cotton in Arkansas, California, and South Carolina will be a record high.

In the Southeast States (Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia), planting was completed by late June. Excess moisture in the South slowed crop progress. The crop was rated in mostly fair to good condition throughout the growing season.

In the Delta region, a rainy planting season was complete by the end of June. Some areas within the region struggled with excessive moisture from hurricanes and tropical storms throughout the season. A few Arkansas cotton gins were impacted by the tornados in December.

In Texas, dry conditions followed by rains and cooler temperatures slowed planting and crop progress. Good weather helped advance the harvest and, subsequently, ginning activity. Overall, many growers reported both good yields and quality on the crop gathered to date.

American Pima producers planted 126,500 acres in 2021, down 37 percent from 2020. Harvested area, at 123,800 acres, was down 36 percent from the previous year. Production was estimated at 367 thousand 480-pound bales, down 33 percent from 2020. The United States yield was estimated at 1,423 pounds per acre, up 71 pounds from the previous year.

Ginnings totaled 14,650,800 running bales prior to January 1.

Cottonseed: Production for 2021, based on a 3-year average lint-seed ratio, is expected to total 5.38 million tons, up 21 percent from 2020.

Tobacco: United States all tobacco production for 2021 was estimated at 478 million pounds, up 28 percent from the previous year. Growers harvested 218,930 acres, up 15 percent from a year earlier. Yield per acre averaged 2,183 pounds, up 232 pounds per acre from 2020.

Flue-cured tobacco production was estimated at 313 million pounds, up 38 percent from the previous year. Harvested area totaled 150,100 acres in 2021, up 21 percent from 2020. Average yield, at 2,088 pounds per acre, was up 254 pounds from 2020.

Sugarbeets: Production for 2021 was estimated at 36.8 million tons, up 9 percent from the previous year's revised production. Growers in the 11 major sugarbeet-producing States planted 1.16 million acres, down slightly from the 2020 revised area. Harvested area, at 1.11 million acres, was down 3 percent from the previous year. Estimated yield, at 33.2 tons per acre, was up 3.8 tons from last year.

Sugarcane: Production of sugarcane for sugar and seed in 2021 was estimated at 33.0 million tons, of which 31.2 million tons were utilized for sugar and 1.80 million tons for seed. Total production for sugar and seed was down 9 percent from 2020. Sugarcane producers harvested 937,500 acres for sugar and seed in 2021, down 1 percent from the previous year. Yield for sugar and seed was estimated at 35.2 tons per acre, up 2.9 tons from 2020.

Dry edible beans: United States dry edible bean production was estimated at 22.7 million cwt for 2021, down 30 percent from the previous year. Planted area was estimated at 1.39 million acres, down 19 percent from 2020. Harvested area was estimated at 1.34 million acres, down 20 percent from the previous year. The average United States yield for dry edible beans for the 2021 season is 1,701 pounds per acre, down 261 pounds from 2020.

In North Dakota, 95 percent of the dry bean harvest was complete by the week ending October 31, compared to 100 percent for the previous year. In addition to drought conditions reducing yield, it caused some dry beans to crack. There were reports that some farmers used those beans as livestock feed. Further, the bean quality in some areas was good, but due to the drought the size of the beans were smaller. For Michigan, the 2021 growing season was very good for the largest classes of dry beans (navy and black). These classes are mostly grown in Michigan's "Thumb" and yields were the highest ever reported.

Lentils: Production in 2021 of lentils was estimated at 3.33 million cwt, down 55 percent from 2020. Planted area, at 708,000 acres, was up 35 percent from last year, while harvested acreage, at 549,000 acres, was up 8 percent from 2020. The average yield was expected to be 606 pounds per acre, down 845 pounds from last year.

Chickpeas: Production in 2021 of all chickpeas was estimated at 2.86 million cwt, down 30 percent from 2020. Area planted for all chickpeas for the 2021 crop year was estimated at 368,500 acres, up 45 percent from the previous year. Area harvested was estimated at 351,000 acres, 40 percent above 2020. The average yield at 815 pounds per acre is down 815 pounds from the 2020 season.

Dry edible peas: Production in 2021 of dry edible peas was estimated at 8.55 million cwt, down 60 percent from last year. Planted area, at 977,000 acres, down 2 percent from 2020. Harvested area at 834,000 acres, was down 14 percent from the previous year. The average United States yield for dry edible peas for the 2021 season is 1,025 pounds per acre, down 1,205 pounds from 2020.

P**otatoes:** Production in 2021 was estimated at 410 million cwt, down 2 percent from the 2020 crop. Planted area, at 943,000 acres, was up 3 percent from last year. Harvested area, at 935,700 acres, was up 3 percent from the previous year. The average yield, at 438 cwt per acre, down 23 cwt from the previous year.

In Idaho, the growing season dealt with extreme heat and the Idaho potato crop suffered because of it. Harvest was a little slower than a normal year. In North Dakota, planting began in mid-April and progressed ahead of 2020. Planting was virtually complete by the beginning of June. Dry conditions during the growing season resulted in mostly short and very short topsoil and subsoil moisture conditions. Harvest this season was later compared with the 2020 season, as digging began in early September and slowed in mid-October but was virtually complete by the end of October.

Peppermint oil: Production in 2021 totaled 4.57 million pounds, down 7 percent from the previous year. Harvested area was estimated at 44,000 acres, down 10 percent from 2020. Average yield was estimated at 104 pounds of oil per acre, up 4 pounds from a year earlier.

Spearmint oil: Production totaled 1.78 million pounds in 2021, down 19 percent from the previous year. Harvested area was estimated at 14,900 acres, down 16 percent from a year earlier. The average yield was estimated at 119 pounds of oil per acre, down 5 pounds from 2020.

Hops: Production for Idaho, Oregon, and Washington in 2021 totaled 116 million pounds, up 11 percent from the 2020 crop of 104 million pounds. Combined area harvested for Idaho, Oregon, and Washington in 2021 totaled a record high 60,872 acres, up 4 percent from the 2020 level of 58,641 acres. Harvested acreage increased in Idaho, Oregon, and Washington. The United States hop yield, at 1,900 pounds per acre, is up 130 pounds from a year ago.

Washington produced 73 percent of the United States hop crop for 2021; while Idaho accounted for 16 percent and Oregon accounted for 11 percent. In Washington, Citra^{R}, Columbus/Tomahawk^{R}/Zeus, Mosaic^{R}, Simcoe^{R}, and Pahto ™ were the five leading varieties, accounting for 53 percent of the State's hop production. In Idaho, Columbus/Tomahawk^{R}/Zeus, Mosaic^{R}, Citra^{R}, Idaho 7^{TM}, and El Dorado^{R} were the major varieties, accounting for 63 percent of the State's hop production. In Oregon, Citra^{R}, Mosaic^{R}, Strata^{TM}, Nugget, and Cascade were the major varieties, accounting for 61 percent of the State's hop production.

Maple syrup: The 2021 United States maple syrup production totaled 3.42 million gallons, down 17 percent from the previous season. The number of taps totaled 13.3 million, up 2 percent from the 2020 total. Yield per tap was 0.257 gallon, down 0.057 gallon from the previous season.

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 77,100 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, or telephone to obtain information on crop acreage, yield, and production for the 2021 crop year.

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

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

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

The farm operator survey indications are also subject to sampling variability because not all operations with commodities of interest are included in the sample. This variability, as measured by the relative standard error at the National level, is approximately 1.3 for corn, 3.3 for Upland cotton and 1.3 for soybeans. This means that chances are approximately 95 out of 100 that survey estimates for production will be within plus or minus 2.6 percent for corn, 6.6 percent for Upland cotton, and 2.6 percent for soybeans.

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

USDA, National Agricultural Statistics Service Information Contacts

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- Joshua Bates – Oats, Soybeans ..... (202) 690-3234
- David Colwell – Current Agricultural Industrial Reports ..... (202) 720-8800
- Michelle Harder – Barley, County Estimates, Hay ..... (202) 690-8533
- James Johanson – Rye, Wheat ..... (202) 720-8068
- Greg Lemmons – Corn, Flaxseed, Proso Millet ..... (202) 720-9526
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- Deonne Holiday – Almonds, Apples, Asparagus, Carrots, Coffee, Onions, Plums, Prunes, Sweet Corn, Tobacco ..... (202) 720-4288
- Krishna Rizal – Artichokes, Cauliflower, Celery, Grapefruit, Garlic, Hazelnuts, Kiwifruit, Lemons, Mandarins and tangerines, Mint, Mushrooms, Olives, Oranges ..... (202) 720-5412
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- Chris Wallace – Avocados, Bell Peppers, Broccoli, Cabbage, Chickpeas, Chile Peppers, Dates, Floriculture, Grapes, Hops, Pecans ..... (202) 720-4215

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