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Service



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# Crop Production 2023 Summary

## January 2024

# USDA





**Corn** for grain production in 2023 was estimated at a record high 15.3 billion bushels, up 12 percent from the 2022 estimate. The average yield in the United States was estimated at a record high 177.3 bushels per acre, 3.9 bushels above the 2022 yield of 173.4 bushels per acre. Area harvested for grain was estimated at 86.5 million acres, up 10 percent from the 2022 estimate.

**Sorghum:** Grain production in 2023 was estimated at 318 million bushels, up 69 percent from the 2022 total. Planted area for 2023 was estimated at 7.20 million acres, up 14 percent from the previous year. Area harvested for grain, at 6.12 million acres, up 34 percent from 2022. Grain yield was estimated at 52.0 bushels per acre, up 10.9 bushels from 2022.

**Rice:** Production in 2023 totaled 218 million cwt, up 36 percent from the 2022 total. Planted area for 2022 was estimated at 2.89 million acres, up 30 percent from 2022. Area harvested, at 2.85 million acres, was up 32 percent from the previous crop year. The average yield for all United States rice was estimated at 7,649 pounds per acre, up 264 pounds from the 2022 average yield of 7,385 pounds per acre.

**Soybean** production in 2023 totaled 4.16 billion bushels, down 2 percent from 2022. The average yield per acre was estimated at 50.6 bushels, up 1.0 bushel from 2022. Harvested area, at 82.4 million acres, was down 4 percent from last year.

**All cotton** production is estimated at 12.4 million 480-pound bales, down 14 percent from 2022. The United States yield is estimated at 845 pounds per acre, down 108 pounds from last year. Harvested area, at 7.06 million acres, is down 3 percent from last year.

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This report was approved on January 12, 2024.



Secretary of Agriculture  
Designate  
Robert Bonnie



Agricultural Statistics Board  
Acting Chairperson  
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## Principal Crops Area Planted and Harvested – States and United States: 2021-2023

[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		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama .....	2,085	2,120	2,120	2,003	2,042	2,041
Alaska .....	25	26	27	24	25	26
Arizona .....	622	629	597	617	624	592
Arkansas .....	7,020	6,990	7,211	6,867	6,826	7,073
California .....	2,390	2,230	2,407	1,983	1,814	2,043
Colorado .....	6,223	5,651	5,949	5,748	4,697	5,331
Connecticut .....	70	76	77	68	75	73
Delaware .....	417	432	438	383	398	415
Florida .....	1,078	1,075	1,084	1,064	1,060	1,071
Georgia .....	3,363	3,366	3,296	3,163	3,164	3,116
Idaho .....	4,044	4,034	4,057	3,873	3,894	3,849
Illinois .....	22,820	22,800	22,855	22,555	22,530	22,647
Indiana .....	11,920	11,910	11,885	11,820	11,820	11,775
Iowa .....	24,370	24,300	24,250	24,112	23,980	23,915
Kansas .....	24,370	24,047	25,024	23,730	21,753	21,561
Kentucky .....	6,006	5,853	6,147	5,816	5,668	5,967
Louisiana .....	3,045	3,204	3,217	3,000	3,127	3,139
Maine .....	238	253	242	227	245	234
Maryland .....	1,527	1,538	1,526	1,312	1,311	1,343
Massachusetts .....	69	74	68	66	71	65
Michigan .....	6,370	6,240	6,270	6,236	6,125	6,171
Minnesota .....	19,418	19,067	19,457	18,980	18,785	19,130
Mississippi .....	4,222	4,202	4,209	4,103	4,140	4,112
Missouri .....	13,654	13,852	14,657	13,299	13,417	14,294
Montana .....	9,364	9,394	9,708	7,956	8,564	9,240
Nebraska .....	19,830	19,268	19,473	19,471	18,378	18,750
Nevada .....	353	412	393	353	411	391
New Hampshire .....	55	55	54	53	53	53
New Jersey .....	296	313	305	287	303	298
New Mexico .....	796	787	854	484	469	514
New York .....	2,743	2,755	2,730	2,663	2,648	2,659
North Carolina .....	4,382	4,404	4,397	4,201	4,219	4,247
North Dakota .....	24,055	21,596	24,078	22,759	21,108	23,545
Ohio .....	9,955	9,870	9,850	9,795	9,720	9,705
Oklahoma .....	9,493	9,616	10,724	7,619	6,647	7,934
Oregon .....	1,816	1,739	1,852	1,771	1,693	1,811
Pennsylvania .....	3,589	3,523	3,395	3,253	3,206	3,111
Rhode Island .....	9	9	8	9	8	7
South Carolina .....	1,466	1,462	1,423	1,417	1,413	1,386
South Dakota .....	16,693	16,617	17,222	15,934	15,974	16,445
Tennessee .....	4,892	4,910	5,000	4,762	4,780	4,865
Texas .....	22,696	21,728	22,138	17,739	10,721	14,181
Utah .....	883	860	856	855	832	834
Vermont .....	245	255	254	237	247	245
Virginia .....	2,475	2,441	2,583	2,336	2,322	2,463
Washington .....	3,701	3,609	3,854	3,583	3,539	3,780
West Virginia .....	563	605	654	561	604	651
Wisconsin .....	8,108	7,909	7,875	7,590	7,499	7,400
Wyoming .....	1,292	1,442	1,416	1,254	1,395	1,360
United States <sup>1</sup> .....	316,398	310,857	319,602	298,151	284,510	296,014

- Represents zero.

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

(NA) Not available.

<sup>1</sup> States do not add to United States due to rye unallocated acreage.

**Corn and Soybean Area Left to be Harvested – States and United States: 2022 and 2023**

Crop	Planted		Harvested <sup>1</sup>		Acres Left to be Harvested	
	2022	2023	2022	2023	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Corn <sup>2</sup> .....	88,162	94,641	78,705	86,513	255	831
Soybeans .....	87,450	83,600	86,174	82,356	338	314

- Represents zero.

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

(NA) Not available.

<sup>1</sup> Includes area left to be harvested

<sup>2</sup> Planted for all purposes; harvested for grain

**Corn Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2021-2023**

State	Area planted for all purposes			Area harvested for grain		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama .....	330	300	330	320	290	320
Arizona .....	95	90	105	18	45	38
Arkansas .....	850	710	850	830	695	830
California .....	400	360	400	50	20	40
Colorado .....	1,370	1,340	1,330	1,140	970	1,015
Connecticut <sup>1</sup> .....	24	24	24	(NA)	(NA)	(NA)
Delaware .....	170	160	175	167	156	172
Florida .....	95	85	90	66	56	62
Georgia .....	470	415	485	435	375	440
Idaho .....	380	310	360	115	105	115
Illinois .....	11,000	10,800	11,200	10,850	10,600	11,050
Indiana .....	5,400	5,250	5,450	5,270	5,130	5,310
Iowa .....	12,900	12,900	13,100	12,450	12,350	12,550
Kansas .....	5,700	5,500	5,750	5,400	4,440	5,150
Kentucky .....	1,530	1,420	1,600	1,420	1,330	1,500
Louisiana .....	580	450	700	565	435	680
Maine <sup>1</sup> .....	30	29	28	(NA)	(NA)	(NA)
Maryland .....	460	420	480	415	360	440
Massachusetts <sup>1</sup> .....	14	14	14	(NA)	(NA)	(NA)
Michigan .....	2,350	2,300	2,400	1,990	1,940	2,060
Minnesota .....	8,350	8,000	8,600	7,790	7,490	8,180
Mississippi .....	730	580	790	700	565	770
Missouri .....	3,600	3,350	3,850	3,430	3,110	3,670
Montana .....	120	130	135	60	69	68
Nebraska .....	9,900	9,600	9,950	9,560	8,820	9,500
Nevada <sup>1</sup> .....	13	12	13	(NA)	(NA)	(NA)
New Hampshire <sup>1</sup> .....	13	13	13	(NA)	(NA)	(NA)
New Jersey .....	75	68	74	69	58	65
New Mexico .....	120	100	125	39	36	47
New York .....	1,030	1,010	1,040	575	565	600
North Carolina .....	960	820	950	905	775	900
North Dakota .....	4,100	2,950	4,050	3,630	2,650	3,800
Ohio .....	3,550	3,400	3,600	3,340	3,180	3,400
Oklahoma .....	340	350	390	295	200	340
Oregon .....	95	80	95	55	45	55
Pennsylvania .....	1,180	1,020	1,040	850	645	680
Rhode Island <sup>1</sup> .....	2	2	2	(NA)	(NA)	(NA)
South Carolina .....	390	320	365	370	300	350
South Dakota .....	6,150	5,750	6,300	5,480	5,010	5,620
Tennessee .....	990	830	940	930	785	890
Texas .....	2,150	2,150	2,500	1,850	1,610	2,100
Utah .....	65	60	75	17	14	27
Vermont <sup>1</sup> .....	85	90	89	(NA)	(NA)	(NA)
Virginia .....	490	430	495	345	325	375
Washington .....	165	135	160	85	80	75
West Virginia .....	45	40	44	33	30	32
Wisconsin .....	3,950	3,900	4,000	3,000	2,990	3,140
Wyoming .....	95	95	85	79	56	57
United States .....	92,901	88,162	94,641	84,988	78,705	86,513

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: 2021-2023 (continued)**

State	Yield per acre			Production		
	2021 (bushels)	2022 (bushels)	2023 (bushels)	2021 (1,000 bushels)	2022 (1,000 bushels)	2023 (1,000 bushels)
Alabama .....	163.0	118.0	164.0	52,160	34,220	52,480
Arizona .....	181.0	220.0	206.0	3,258	9,900	7,828
Arkansas .....	184.0	173.0	183.0	152,720	120,235	151,890
California .....	188.0	177.0	178.0	9,400	3,540	7,120
Colorado .....	129.0	121.0	122.0	147,060	117,370	123,830
Connecticut <sup>1</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Delaware .....	184.0	170.0	189.0	30,728	26,520	32,508
Florida .....	176.0	164.0	158.0	11,616	9,184	9,796
Georgia .....	182.0	175.0	174.0	79,170	65,625	76,560
Idaho .....	210.0	216.0	203.0	24,150	22,680	23,345
Illinois .....	202.0	214.0	206.0	2,191,700	2,268,400	2,276,300
Indiana .....	195.0	190.0	203.0	1,027,650	974,700	1,077,930
Iowa .....	204.0	200.0	201.0	2,539,800	2,470,000	2,522,550
Kansas .....	139.0	115.0	119.0	750,600	510,600	612,850
Kentucky .....	192.0	156.0	187.0	272,640	207,480	280,500
Louisiana .....	183.0	170.0	175.0	103,395	73,950	119,000
Maine <sup>1</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Maryland .....	175.0	165.0	165.0	72,625	59,400	72,600
Massachusetts <sup>1</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Michigan .....	174.0	168.0	168.0	346,260	325,920	346,080
Minnesota .....	177.0	195.0	185.0	1,378,830	1,460,550	1,513,300
Mississippi .....	181.0	165.0	181.0	126,700	93,225	139,370
Missouri .....	159.0	161.0	153.0	545,370	500,710	561,510
Montana .....	100.0	112.0	129.0	6,000	7,728	8,772
Nebraska .....	194.0	165.0	182.0	1,854,640	1,455,300	1,729,000
Nevada <sup>1</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Hampshire <sup>1</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
New Jersey .....	163.0	114.0	168.0	11,247	6,612	10,920
New Mexico .....	184.0	149.0	155.0	7,176	5,364	7,285
New York .....	167.0	142.0	159.0	96,025	80,230	95,400
North Carolina .....	149.0	126.0	147.0	134,845	97,650	132,300
North Dakota .....	105.0	130.0	143.0	381,150	344,500	543,400
Ohio .....	193.0	187.0	198.0	644,620	594,660	673,200
Oklahoma .....	150.0	122.0	149.0	44,250	24,400	50,660
Oregon .....	240.0	237.0	214.0	13,200	10,665	11,770
Pennsylvania .....	169.0	140.0	157.0	143,650	90,300	106,760
Rhode Island <sup>1</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
South Carolina .....	139.0	122.0	150.0	51,430	36,600	52,500
South Dakota .....	134.0	132.0	152.0	734,320	661,320	854,240
Tennessee .....	170.0	130.0	173.0	158,100	102,050	153,970
Texas .....	128.0	95.0	122.0	236,800	152,950	256,200
Utah .....	179.0	165.0	185.0	3,043	2,310	4,995
Vermont <sup>1</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Virginia .....	160.0	167.0	157.0	55,200	54,275	58,875
Washington .....	248.0	220.0	240.0	21,080	17,600	18,000
West Virginia .....	144.0	168.0	145.0	4,752	5,040	4,640
Wisconsin .....	180.0	180.0	176.0	540,000	538,200	552,640
Wyoming .....	132.0	153.0	153.0	10,428	8,568	8,721
United States .....	176.7	173.4	177.3	15,017,788	13,650,531	15,341,595

(NA) Not available.

<sup>1</sup> Area harvested for grain not estimated.

## Corn for Silage Area Harvested, Yield, and Production – States and United States: 2021-2023

State	Area harvested			Yield per acre			Production		
	2021	2022	2023	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Alabama .....	5	4	4	18.0	15.0	16.0	90	60	64
Arizona .....	76	44	66	28.0	28.0	27.0	2,128	1,232	1,782
Arkansas .....	5	5	5	20.0	16.0	16.0	100	80	80
California .....	345	335	350	28.0	26.0	26.0	9,660	8,710	9,100
Colorado .....	180	190	235	24.5	19.5	24.5	4,410	3,705	5,758
Connecticut .....	22	23	20	17.0	20.0	17.0	374	460	340
Delaware .....	3	3	2	21.0	19.0	25.0	63	57	50
Florida .....	25	25	25	24.0	17.0	19.0	600	425	475
Georgia .....	25	30	35	22.0	22.0	23.0	550	660	805
Idaho .....	260	205	240	29.0	29.0	28.0	7,540	5,945	6,720
Illinois .....	80	120	90	20.0	23.0	20.0	1,600	2,760	1,800
Indiana .....	110	100	120	22.0	22.0	22.0	2,420	2,200	2,640
Iowa .....	340	390	380	21.0	21.0	20.0	7,140	8,190	7,600
Kansas .....	240	420	330	18.0	11.0	15.0	4,320	4,620	4,950
Kentucky .....	90	70	80	19.0	18.0	22.0	1,710	1,260	1,760
Louisiana .....	3	3	3	16.0	15.0	15.0	48	45	45
Maine .....	25	24	23	21.0	17.0	15.0	525	408	345
Maryland .....	35	40	30	20.0	19.0	17.0	700	760	510
Massachusetts .....	11	11	11	17.0	15.0	16.0	187	165	176
Michigan .....	340	330	320	20.5	20.0	20.0	6,970	6,600	6,400
Minnesota .....	450	450	350	19.0	21.5	18.5	8,550	9,675	6,475
Mississippi .....	8	5	6	17.0	15.0	15.0	136	75	90
Missouri .....	70	150	110	15.0	11.0	14.0	1,050	1,650	1,540
Montana .....	47	54	62	18.0	21.0	23.0	846	1,134	1,426
Nebraska .....	260	430	280	19.5	12.5	17.0	5,070	5,375	4,760
Nevada .....	13	11	11	26.0	22.0	21.0	338	242	231
New Hampshire .....	11	11	12	21.0	19.0	18.0	231	209	216
New Jersey .....	5	6	6	20.0	16.0	18.0	100	96	108
New Mexico .....	80	55	69	26.0	24.0	21.0	2,080	1,320	1,449
New York .....	440	425	430	19.0	17.0	20.0	8,360	7,225	8,600
North Carolina .....	35	30	30	18.0	14.0	18.0	630	420	540
North Dakota .....	250	230	200	7.5	15.0	17.5	1,875	3,450	3,500
Ohio .....	160	170	160	20.0	22.0	21.0	3,200	3,740	3,360
Oklahoma .....	25	35	30	12.0	11.0	14.0	300	385	420
Oregon .....	39	34	39	23.0	28.0	26.0	897	952	1,014
Pennsylvania .....	310	340	345	21.0	18.0	20.0	6,510	6,120	6,900
Rhode Island .....	2	1	1	21.0	16.0	21.0	42	16	21
South Carolina .....	12	8	8	19.0	14.0	19.0	228	112	152
South Dakota .....	500	550	520	12.0	12.0	17.0	6,000	6,600	8,840
Tennessee .....	35	30	30	19.0	16.0	20.0	665	480	600
Texas .....	250	260	280	21.0	15.0	18.0	5,250	3,900	5,040
Utah .....	45	45	46	24.0	24.0	25.0	1,080	1,080	1,150
Vermont .....	77	82	80	19.0	19.0	17.0	1,463	1,558	1,360
Virginia .....	125	100	100	17.0	22.0	17.0	2,125	2,200	1,700
Washington .....	80	55	85	25.0	25.0	24.0	2,000	1,375	2,040
West Virginia .....	10	9	9	18.0	21.0	17.0	180	189	153
Wisconsin .....	880	870	780	21.5	22.5	21.0	18,920	19,575	16,380
Wyoming .....	12	33	23	23.0	24.0	23.0	276	792	529
United States .....	6,451	6,851	6,471	20.1	18.7	20.1	129,537	128,287	129,994

## Corn for Grain Objective Yield Data

The National Agricultural Statistics Service conducted objective yield surveys in 10 corn producing States during 2023. 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: 2019-2023

State and month	2019	2020	2021	2022	2023	State and month	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	31,100	30,600	31,550	32,050	32,550	All corn					
October .....	30,950	30,400	31,550	32,500	32,450	September ...	25,850	27,450	26,750	26,450	26,600
November .....	30,900	30,400	31,500	32,450	32,400	October .....	25,850	27,450	26,650	26,250	26,700
Final .....	30,900	30,400	31,500	32,450	32,400	November ....	25,700	27,400	26,650	26,200	26,650
						Final .....	25,700	27,400	26,650	26,200	26,650
<b>Indiana</b>						Irrigated					
September .....	29,300	29,850	29,700	29,050	31,000	September ...	28,300	29,950	29,350	29,000	29,650
October .....	29,050	29,800	29,650	28,550	30,800	October .....	28,350	30,100	29,300	28,950	29,600
November .....	29,000	29,850	29,750	28,600	31,100	November ....	28,300	30,100	29,300	28,850	29,550
Final .....	28,950	29,850	29,750	28,600	31,100	Final .....	28,300	30,100	29,300	28,850	29,550
<b>Iowa</b>						Non-irrigated					
September .....	30,850	31,050	31,850	31,750	32,250	September ...	23,300	24,950	24,050	23,850	23,450
October .....	30,800	31,000	31,850	31,550	31,900	October .....	23,250	24,750	24,000	23,500	23,650
November .....	30,750	31,050	31,800	31,600	31,950	November ....	23,000	24,700	23,950	23,500	23,700
Final .....	30,750	31,050	31,800	31,600	31,950	Final .....	23,000	24,700	23,950	23,500	23,700
<b>Kansas</b>						<b>Ohio</b>					
September .....	21,350	21,700	22,050	22,600	23,800	September ....	30,050	29,800	30,400	29,400	30,050
October .....	21,200	21,650	21,550	23,200	23,400	October .....	30,100	29,900	30,050	29,350	29,900
November .....	21,200	21,650	21,800	23,350	23,600	November ....	30,000	29,900	30,050	29,700	29,650
Final .....	21,200	21,650	21,800	23,350	23,600	Final .....	30,000	29,850	30,050	29,700	29,650
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,700	31,750	30,750	31,300	31,300	September ....	26,400	25,450	26,150	26,400	26,050
October .....	30,650	31,800	30,700	31,250	31,450	October .....	26,100	25,400	26,100	26,200	26,150
November .....	30,550	31,800	30,700	31,300	31,450	November ....	26,000	25,550	25,750	25,900	26,100
Final .....	30,650	31,800	30,700	31,300	31,450	Final .....	25,900	25,550	25,750	25,900	26,100
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	28,200	28,200	27,250	27,500	27,350	September ....	30,250	30,300	29,900	30,700	30,300
October .....	27,500	28,150	27,400	27,100	27,300	October .....	30,150	30,400	29,550	30,300	29,900
November .....	27,600	28,200	27,350	27,200	27,400	November ....	29,750	30,300	29,400	30,200	30,050
Final .....	27,600	28,200	27,350	27,200	27,400	Final .....	29,850	30,300	29,400	30,200	30,000
						<b>10 State</b>					
						September ....	28,650	29,000	29,100	29,250	29,650
						October .....	28,500	28,950	29,000	29,200	29,500
						November ....	28,450	28,950	29,000	29,200	29,550
						Final .....	28,450	28,950	29,000	29,200	29,550

**Corn for Grain Number of Ears per Acre – Selected States: 2019-2023**

State and month	2019	2020	2021	2022	2023	State and month	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Illinois</b>						<b>Nebraska</b>					
September .....	30,300	29,900	31,100	31,500	32,250	All corn					
October .....	30,300	29,800	31,050	31,850	32,050	September .....	25,850	26,800	26,650	25,850	26,300
November .....	30,150	29,800	31,050	31,800	32,000	October .....	25,950	26,850	26,950	25,000	26,700
Final .....	30,150	29,800	31,050	31,800	32,000	November .....	25,700	26,750	26,800	24,950	26,600
						Final .....	25,700	26,750	26,800	24,950	26,600
<b>Indiana</b>						<b>Irrigated</b>					
September .....	28,900	29,600	29,700	28,700	30,700	September .....	28,200	28,900	29,000	28,900	29,350
October .....	28,700	29,600	29,750	28,400	30,950	October .....	28,150	28,850	29,600	28,350	29,800
November .....	28,650	29,600	29,900	28,500	30,950	November .....	28,000	28,800	29,500	28,300	29,700
Final .....	28,600	29,600	29,900	28,500	30,950	Final .....	28,000	28,800	29,500	28,300	29,700
<b>Iowa</b>						<b>Non-irrigated</b>					
September .....	30,250	30,600	31,750	30,850	32,050	September .....	23,500	24,650	24,250	22,700	23,150
October .....	30,200	30,450	31,800	30,800	31,700	October .....	23,700	24,800	24,200	21,600	23,500
November .....	30,100	30,550	31,800	30,800	31,750	November .....	23,400	24,700	24,050	21,600	23,450
Final .....	30,100	30,550	31,800	30,800	31,750	Final .....	23,400	24,700	24,050	21,600	23,450
<b>Kansas</b>						<b>Ohio</b>					
September .....	21,550	22,050	22,250	22,800	23,500	September .....	29,850	29,350	30,650	29,250	29,850
October .....	22,250	21,250	21,450	22,300	22,800	October .....	29,750	29,700	30,350	29,250	30,400
November .....	22,200	21,250	21,700	22,100	23,150	November .....	29,550	29,700	30,350	29,550	29,950
Final .....	22,200	21,250	21,700	22,100	23,150	Final .....	29,550	29,650	30,350	29,500	29,950
<b>Minnesota</b>						<b>South Dakota</b>					
September .....	30,050	31,750	30,800	31,200	31,350	September .....	26,450	25,550	26,250	25,300	25,900
October .....	29,800	31,850	30,650	31,450	31,300	October .....	25,300	25,550	26,150	24,700	25,950
November .....	29,650	31,850	30,600	31,450	31,300	November .....	25,000	25,700	25,400	24,250	26,150
Final .....	29,700	31,850	30,600	31,450	31,300	Final .....	24,900	25,700	25,400	24,250	26,150
<b>Missouri</b>						<b>Wisconsin</b>					
September .....	26,950	27,650	26,900	26,300	26,500	September .....	29,850	30,050	30,100	29,900	30,450
October .....	26,950	27,600	26,950	26,200	26,300	October .....	30,250	30,400	29,500	29,550	30,200
November .....	27,100	27,650	26,950	26,300	26,350	November .....	29,850	30,350	29,400	29,400	30,200
Final .....	27,100	27,650	26,950	26,300	26,350	Final .....	29,950	30,350	29,400	29,400	30,200
						<b>10-State</b>					
						September .....	28,200	28,650	29,050	28,650	29,400
						October .....	28,200	28,600	28,950	28,500	29,350
						November .....	28,050	28,600	28,850	28,450	29,350
						Final .....	28,050	28,600	28,850	28,450	29,350

## Corn for Grain Percentage Distribution by Plant Population per Acre – Selected States: 2019-2023

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 .....						
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
2022	-	-	1.6	6.5	14.6	77.3
2023	0.8	0.8	2.3	2.3	15.6	78.2
Indiana .....						
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
2022	3.7	5.6	7.4	14.8	22.2	46.3
2023	-	1.5	1.5	11.9	20.9	64.2
Iowa .....						
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
2022	0.7	0.7	0.7	3.3	17.6	77.0
2023	0.7	-	0.7	8.1	16.8	73.7
Kansas .....						
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
2022	19.2	9.6	20.5	11.0	20.5	19.2
2023	13.8	13.8	20.0	12.5	26.1	13.8
Minnesota .....						
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
2022	1.8	2.6	1.8	7.0	14.9	71.9
2023	2.0	2.9	2.9	10.8	9.8	71.6
Missouri .....						
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
2022	6.4	9.0	17.9	10.3	28.2	28.2
2023	7.6	5.1	16.5	8.9	35.3	26.6
Nebraska .....						
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
2022	7.0	13.2	10.9	16.3	26.2	26.4
2023	11.7	10.8	5.0	17.5	26.7	28.3
Ohio .....						
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
2022	2.4	3.5	3.5	15.3	28.2	47.1
2023	2.9	6.9	7.8	11.8	17.6	53.0
South Dakota .....						
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
2022	8.3	12.5	18.8	27.0	16.7	16.7
2023	10.0	10.0	18.0	18.0	20.0	24.0
Wisconsin .....						
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
2022	4.2	4.2	-	14.1	16.9	60.6
2023	-	1.4	5.7	17.1	21.4	54.4

- Represents zero.

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

(X) Not applicable.

**Corn for Grain Frequency of Farmer Reported Row Widths – Selected States: 2019-2023**

State and year	Row width (inches)				
	Less than 30	30	36	38	More than 38
	(number)	(number)	(number)	(number)	(number)
Illinois ..... 2019	2	110	1	-	-
..... 2020	8	148	2	-	-
..... 2021	3	127	-	-	-
..... 2022	1	126	2	-	-
..... 2023	8	124	1	-	-
Indiana ..... 2019	4	53	1	-	-
..... 2020	2	79	1	-	-
..... 2021	1	63	-	-	-
..... 2022	1	57	-	-	-
..... 2023	2	69	-	-	-
Iowa ..... 2019	3	136	-	1	-
..... 2020	9	140	5	3	-
..... 2021	4	126	2	-	-
..... 2022	6	149	-	-	-
..... 2023	5	145	1	-	-
Kansas ..... 2019	9	70	-	-	-
..... 2020	2	110	-	-	-
..... 2021	14	91	-	-	-
..... 2022	4	85	-	-	-
..... 2023	3	91	-	-	1
Minnesota ..... 2019	15	63	3	1	-
..... 2020	25	109	-	1	-
..... 2021	22	73	-	1	-
..... 2022	17	99	1	-	-
..... 2023	24	76	2	1	-
Missouri ..... 2019	5	30	1	2	-
..... 2020	7	99	-	5	-
..... 2021	2	72	1	5	-
..... 2022	5	69	1	4	-
..... 2023	1	73	3	1	-
Nebraska ..... 2019	3	98	15	-	-
..... 2020	2	138	15	-	-
..... 2021	-	108	20	-	-
..... 2022	1	134	14	-	-
..... 2023	2	119	12	1	-
Ohio ..... 2019	2	45	1	-	-
..... 2020	5	113	-	-	-
..... 2021	3	83	1	-	-
..... 2022	5	86	-	-	-
..... 2023	5	96	1	1	-
South Dakota ..... 2019	5	45	-	1	-
..... 2020	11	62	2	2	-
..... 2021	3	55	2	-	-
..... 2022	6	45	1	-	-
..... 2023	3	51	1	1	-
Wisconsin ..... 2019	1	39	-	-	-
..... 2020	3	78	1	2	-
..... 2021	2	71	2	2	-
..... 2022	2	72	1	1	-
..... 2023	2	70	5	-	-

- Represents zero.

**Corn for Grain Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2019-2023**

State and year	Samples (number)	Row width (inches)						Average row width (inches)
		20.5 or less (percent)	20.6- 30.5 (percent)	30.6- 34.5 (percent)	34.6- 36.5 (percent)	36.6- 38.5 (percent)	38.6 or greater (percent)	
Illinois ..... 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
..... 2022	123	-	82.1	16.3	1.6	-	-	30.1
..... 2023	128	3.1	83.6	13.3	-	-	-	29.8
Indiana ..... 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
..... 2022	54	0.0	72.2	27.8	-	-	-	30.3
..... 2023	67	1.5	71.6	26.9	-	-	-	30.0
Iowa ..... 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
..... 2022	153	2.6	78.4	19.0	-	-	-	29.9
..... 2023	149	1.3	75.8	21.5	0.7	0.7	-	30.1
Kansas ..... 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
..... 2022	73	4.1	78.1	17.8	-	-	-	29.5
..... 2023	80	2.5	81.2	12.5	2.5	1.3	-	29.9
Minnesota ..... 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
..... 2022	114	-	83.3	15.8	0.9	-	-	29.2
..... 2023	102	4.9	82.3	10.8	1.0	-	1.0	28.5
Missouri ..... 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
..... 2022	78	3.8	69.2	19.2	2.6	2.6	2.6	30.8
..... 2023	79	1.3	81.0	12.7	2.5	2.5	-	30.4
Nebraska ..... 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
..... 2022	129	0.8	65.8	24.0	7.8	1.6	-	30.8
..... 2023	120	-	68.3	21.7	5.0	5.0	-	30.8
Ohio ..... 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
..... 2022	85	4.7	87.1	8.2	-	-	-	29.7
..... 2023	102	3.9	77.4	16.7	1.0	1.0	-	29.9
South Dakota ..... 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
..... 2022	48	6.3	79.1	10.4	2.1	2.1	-	29.3
..... 2023	50	4.0	64.0	28.0	2.0	2.0	-	30.1
Wisconsin ..... 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	0.0	71.3	22.7	1.5	4.5	-	30.5
..... 2022	71	-	63.4	31.0	2.8	1.4	1.4	30.6
..... 2023	70	-	72.8	24.3	2.9	-	-	30.3

- Represents zero.

**Sorghum Area Planted for All Purposes and Harvested for Grain, Yield, and Production – States and United States: 2021-2023**

State	Area planted for all purposes			Area harvested for grain		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado .....	495	545	510	400	380	460
Kansas .....	3,600	3,300	3,600	3,400	2,700	3,250
Nebraska .....	320	320	340	230	125	225
Oklahoma .....	430	430	410	380	240	350
South Dakota .....	310	280	335	210	175	280
Texas .....	2,150	1,450	2,000	1,870	950	1,550
United States .....	7,305	6,325	7,195	6,490	4,570	6,115

  

State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado .....	37.0	20.0	32.0	14,800	7,600	14,720
Kansas .....	78.0	39.0	52.0	265,200	105,300	169,000
Nebraska .....	86.0	55.0	73.0	19,780	6,875	16,425
Oklahoma .....	54.0	24.0	47.0	20,520	5,760	16,450
South Dakota .....	64.0	68.0	90.0	13,440	11,900	25,200
Texas .....	61.0	53.0	49.0	114,070	50,350	75,950
United States .....	69.0	41.1	52.0	447,810	187,785	317,745

## Sorghum for Silage Area Harvested, Yield, and Production – States and United States: 2021-2023

State	Area harvested			Yield per acre			Production		
	2021	2022	2023	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
Colorado .....	39	50	25	14.0	14.0	14.0	546	700	350
Kansas .....	85	105	90	13.5	7.5	12.0	1,148	788	1,080
Nebraska .....	31	75	40	14.5	9.3	14.0	450	698	560
Oklahoma .....	23	50	14	13.0	4.0	14.0	299	200	196
South Dakota .....	13	70	30	9.2	9.3	13.0	120	651	390
Texas .....	140	175	185	18.0	15.0	13.0	2,520	2,625	2,405
United States .....	331	525	384	15.4	10.8	13.0	5,083	5,662	4,981

**Oat Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023**

State	Area planted <sup>1</sup>			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas .....	10	10	8	6	6	5
California .....	100	105	90	5	6	5
Georgia .....	80	75	55	20	15	15
Idaho .....	50	50	45	13	16	12
Illinois .....	60	60	55	15	10	17
Iowa .....	130	130	190	52	40	95
Kansas .....	115	110	185	20	25	30
Maine .....	22	27	22	19	25	21
Michigan .....	55	50	50	20	26	25
Minnesota .....	180	200	165	77	140	87
Missouri .....	50	45	32	15	6	9
Montana .....	60	85	65	16	24	22
Nebraska .....	120	125	155	26	18	24
New York .....	55	68	61	29	49	44
North Carolina .....	33	40	37	14	11	14
North Dakota .....	355	345	280	83	190	105
Ohio .....	45	50	40	20	15	15
Oklahoma .....	80	50	140	6	17	13
Oregon .....	15	20	20	6	8	12
Pennsylvania .....	85	87	70	36	61	47
South Dakota .....	215	260	265	56	75	69
Texas .....	460	450	390	35	32	70
Wisconsin .....	175	140	135	61	65	75
United States .....	2,550	2,582	2,555	650	880	831

See footnote(s) at end of table.

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**Oat Area Planted and Harvested, Yield, and Production – States and United States:  
2021-2023 (continued)**

State	Yield per acre			Production		
	2021 (bushels)	2022 (bushels)	2023 (bushels)	2021 (1,000 bushels)	2022 (1,000 bushels)	2023 (1,000 bushels)
Arkansas .....	90.0	61.0	62.0	540	366	310
California .....	65.0	65.0	75.0	325	390	375
Georgia .....	70.0	51.0	61.0	1,400	765	915
Idaho .....	72.0	64.0	91.0	936	1,024	1,092
Illinois .....	83.0	83.0	90.0	1,245	830	1,530
Iowa .....	77.0	82.0	80.0	4,004	3,280	7,600
Kansas .....	50.0	41.0	66.0	1,000	1,025	1,980
Maine .....	78.0	84.0	62.0	1,482	2,100	1,302
Michigan .....	63.0	61.0	66.0	1,260	1,586	1,650
Minnesota .....	57.0	61.0	77.0	4,389	8,540	6,699
Missouri .....	60.0	52.0	68.0	900	312	612
Montana .....	35.0	38.0	37.0	560	912	814
Nebraska .....	56.0	51.0	53.0	1,456	918	1,272
New York .....	68.0	55.0	60.0	1,972	2,695	2,640
North Carolina .....	68.0	77.0	77.0	952	847	1,078
North Dakota .....	48.0	72.0	76.0	3,984	13,680	7,980
Ohio .....	67.0	70.0	76.0	1,340	1,050	1,140
Oklahoma .....	45.0	20.0	60.0	270	340	780
Oregon .....	62.0	105.0	79.0	372	840	948
Pennsylvania .....	65.0	59.0	61.0	2,340	3,599	2,867
South Dakota .....	67.0	80.0	74.0	3,752	6,000	5,106
Texas .....	45.0	55.0	54.0	1,575	1,760	3,780
Wisconsin .....	62.0	74.0	61.0	3,782	4,810	4,575
United States .....	61.3	65.5	68.6	39,836	57,669	57,045

<sup>1</sup> Includes area planted in preceding fall.

**Barley Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023**

State	Area planted <sup>1</sup>			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alaska .....	6	6	7	5	5	6
Arizona .....	18	17	17	16	16	15
California .....	40	40	40	13	19	19
Colorado .....	52	61	54	47	40	51
Delaware .....	21	21	21	14	16	12
Idaho .....	530	560	570	500	540	540
Kansas .....	14	14	16	4	5	5
Maine .....	12	11	11	10	10	9
Maryland .....	33	28	31	18	16	13
Michigan .....	10	5	7	8	4	6
Minnesota .....	55	65	60	37	55	54
Montana .....	970	1,030	1,190	650	840	1,015
New York .....	8	7	9	4	4	5
North Carolina .....	13	16	16	7	11	10
North Dakota .....	580	730	690	430	650	570
Oregon .....	40	36	41	21	19	24
Pennsylvania .....	45	43	47	28	26	28
South Dakota .....	30	28	38	14	7	9
Utah .....	18	20	16	10	15	14
Virginia .....	30	29	30	7	7	6
Washington .....	83	69	95	72	58	84
Wisconsin .....	15	13	12	7	3	2
Wyoming .....	84	78	83	72	59	58
United States .....	2,707	2,927	3,101	1,994	2,425	2,555

See footnote(s) at end of table.

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**Barley Area Planted and Harvested, Yield, and Production – States and United States:  
2021-2023 (continued)**

State	Yield per acre			Production		
	2021 (bushels)	2022 (bushels)	2023 (bushels)	2021 (1,000 bushels)	2022 (1,000 bushels)	2023 (1,000 bushels)
Alaska .....	51.0	42.0	38.0	255	210	228
Arizona .....	125.0	133.0	132.0	2,000	2,128	1,980
California .....	63.0	56.0	75.0	819	1,064	1,425
Colorado .....	111.0	111.0	131.0	5,217	4,440	6,681
Delaware .....	75.0	87.0	95.0	1,050	1,392	1,140
Idaho .....	89.0	111.0	112.0	44,500	59,940	60,480
Kansas .....	66.0	34.0	29.0	264	170	145
Maine .....	82.0	69.0	45.0	820	690	405
Maryland .....	95.0	82.0	96.0	1,710	1,312	1,248
Michigan .....	50.0	50.0	60.0	400	200	360
Minnesota .....	55.0	72.0	74.0	2,035	3,960	3,996
Montana .....	38.0	41.0	49.0	24,700	34,440	49,735
New York .....	63.0	61.0	65.0	252	244	325
North Carolina .....	65.0	69.0	76.0	455	759	760
North Dakota .....	51.0	73.0	71.0	21,930	47,450	40,470
Oregon .....	32.0	55.0	33.0	672	1,045	792
Pennsylvania .....	80.0	67.0	81.0	2,240	1,742	2,268
South Dakota .....	20.0	54.0	52.0	280	378	468
Utah .....	81.0	82.0	73.0	810	1,230	1,022
Virginia .....	75.0	86.0	83.0	525	602	498
Washington .....	38.0	84.0	53.0	2,736	4,872	4,452
Wisconsin .....	53.0	55.0	63.0	371	165	126
Wyoming .....	91.0	93.0	104.0	6,552	5,487	6,032
United States .....	60.5	71.7	72.4	120,593	173,920	185,036

<sup>1</sup> Includes area planted in preceding fall.

## All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

State	Area planted <sup>1</sup>			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama .....	175	180	205	110	120	145
Arizona .....	60	85	38	59	84	37
Arkansas .....	210	220	230	145	150	165
California .....	385	390	338	110	105	97
Colorado .....	2,200	1,950	2,300	1,880	1,430	1,820
Delaware .....	60	80	80	35	54	69
Georgia .....	220	200	195	110	100	85
Idaho .....	1,227	1,158	1,170	1,132	1,077	1,035
Illinois .....	670	650	840	610	560	780
Indiana .....	340	290	405	270	240	335
Kansas .....	7,300	7,300	8,100	7,000	6,600	5,750
Kentucky .....	510	530	610	350	375	460
Maryland .....	345	355	340	160	170	195
Michigan .....	610	460	600	560	415	560
Minnesota .....	1,210	1,250	1,300	1,160	1,210	1,260
Mississippi .....	95	100	120	70	75	95
Missouri .....	640	630	780	490	410	600
Montana .....	5,520	5,460	5,255	4,530	4,915	5,025
Nebraska .....	920	980	1,130	840	820	880
New Jersey .....	23	26	34	16	22	32
New Mexico .....	380	360	405	80	90	85
New York .....	155	140	150	125	100	120
North Carolina .....	450	480	480	345	375	400
North Dakota .....	6,470	6,195	6,610	6,090	6,135	6,530
Ohio .....	580	510	650	515	465	590
Oklahoma .....	4,400	4,300	4,550	2,950	2,450	2,450
Oregon .....	720	730	740	705	715	725
Pennsylvania .....	270	270	280	195	210	230
South Carolina .....	125	120	110	100	100	95
South Dakota .....	1,520	1,580	1,660	1,290	1,440	1,350
Tennessee .....	400	410	470	330	335	390
Texas .....	5,500	5,300	6,400	2,000	1,300	2,100
Utah .....	110	110	105	93	88	87
Virginia .....	205	230	200	120	150	135
Washington .....	2,330	2,325	2,300	2,230	2,270	2,240
Wisconsin .....	290	300	280	245	235	230
Wyoming .....	115	115	115	95	95	90
United States .....	46,740	45,769	49,575	37,145	35,485	37,272

See footnote(s) at end of table.

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**All Wheat Area Planted and Harvested, Yield, and Production – States and United States:  
2021-2023 (continued)**

State	Yield per acre			Production		
	2021 (bushels)	2022 (bushels)	2023 (bushels)	2021 (1,000 bushels)	2022 (1,000 bushels)	2023 (1,000 bushels)
Alabama .....	83.0	72.0	75.0	9,130	8,640	10,875
Arizona .....	90.0	114.0	103.0	5,310	9,576	3,811
Arkansas .....	58.0	53.0	57.0	8,410	7,950	9,405
California .....	87.1	85.3	86.0	9,580	8,960	8,338
Colorado .....	37.0	25.0	41.0	69,560	35,750	74,620
Delaware .....	70.0	76.0	92.0	2,450	4,104	6,348
Georgia .....	56.0	58.0	55.0	6,160	5,800	4,675
Idaho .....	67.6	86.8	86.1	76,534	93,515	89,110
Illinois .....	79.0	79.0	87.0	48,190	44,240	67,860
Indiana .....	85.0	81.0	92.0	22,950	19,440	30,820
Kansas .....	52.0	37.0	35.0	364,000	244,200	201,250
Kentucky .....	87.0	80.0	88.0	30,450	30,000	40,480
Maryland .....	79.0	78.0	85.0	12,640	13,260	16,575
Michigan .....	81.0	83.0	83.0	45,360	34,445	46,480
Minnesota .....	48.0	61.0	62.0	55,680	73,810	78,120
Mississippi .....	59.0	52.0	52.0	4,130	3,900	4,940
Missouri .....	65.0	60.0	70.0	31,850	24,600	42,000
Montana .....	22.2	28.3	37.2	100,610	139,300	186,705
Nebraska .....	49.0	32.0	42.0	41,160	26,240	36,960
New Jersey .....	67.0	70.0	82.0	1,072	1,540	2,624
New Mexico .....	36.0	17.0	11.0	2,880	1,530	935
New York .....	77.0	72.0	81.0	9,625	7,200	9,720
North Carolina .....	56.0	64.0	70.0	19,320	24,000	28,000
North Dakota .....	32.2	48.9	47.1	196,195	299,900	307,845
Ohio .....	85.0	79.0	90.0	43,775	36,735	53,100
Oklahoma .....	39.0	28.0	28.0	115,050	68,600	68,600
Oregon .....	45.0	68.0	56.0	31,725	48,620	40,600
Pennsylvania .....	77.0	73.0	76.0	15,015	15,330	17,480
South Carolina .....	53.0	57.0	58.0	5,300	5,700	5,510
South Dakota .....	34.0	50.0	45.1	43,800	72,040	60,850
Tennessee .....	71.0	73.0	80.0	23,430	24,455	31,200
Texas .....	37.0	30.0	37.0	74,000	39,000	77,700
Utah .....	46.0	36.0	53.0	4,278	3,168	4,611
Virginia .....	67.0	68.0	78.0	8,040	10,200	10,530
Washington .....	39.1	63.4	50.5	87,180	144,020	113,120
Wisconsin .....	75.0	78.0	76.0	18,375	18,330	17,480
Wyoming .....	32.0	17.0	30.0	3,040	1,615	2,700
United States .....	44.3	46.5	48.6	1,646,254	1,649,713	1,811,977

<sup>1</sup> Includes area planted in preceding fall.

**Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023**

State	Area planted <sup>1</sup>			Area harvested		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)
Alabama .....	175	180	205	110	120	145
Arkansas .....	210	220	230	145	150	165
California .....	360	350	320	90	70	80
Colorado .....	2,200	1,950	2,300	1,880	1,430	1,820
Delaware .....	60	80	80	35	54	69
Georgia .....	220	200	195	110	100	85
Idaho .....	710	770	750	640	710	630
Illinois .....	670	650	840	610	560	780
Indiana .....	340	290	405	270	240	335
Kansas .....	7,300	7,300	8,100	7,000	6,600	5,750
Kentucky .....	510	530	610	350	375	460
Maryland .....	345	355	340	160	170	195
Michigan .....	610	460	600	560	415	560
Mississippi .....	95	100	120	70	75	95
Missouri .....	640	630	780	490	410	600
Montana .....	1,950	2,050	1,850	1,730	1,800	1,680
Nebraska .....	920	980	1,130	840	820	880
New Jersey .....	23	26	34	16	22	32
New Mexico .....	380	360	405	80	90	85
New York .....	155	140	150	125	100	120
North Carolina .....	450	480	480	345	375	400
North Dakota .....	90	105	155	60	95	145
Ohio .....	580	510	650	515	465	590
Oklahoma .....	4,400	4,300	4,550	2,950	2,450	2,450
Oregon .....	720	730	740	705	715	725
Pennsylvania .....	270	270	280	195	210	230
South Carolina .....	125	120	110	100	100	95
South Dakota .....	800	830	920	710	730	700
Tennessee .....	400	410	470	330	335	390
Texas .....	5,500	5,300	6,400	2,000	1,300	2,100
Utah .....	110	110	105	93	88	87
Virginia .....	205	230	200	120	150	135
Washington .....	1,750	1,850	1,800	1,690	1,800	1,750
Wisconsin .....	290	300	280	245	235	230
Wyoming .....	115	115	115	95	95	90
United States .....	33,678	33,281	36,699	25,464	23,454	24,683

See footnote(s) at end of table.

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**Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States:  
2021-2023 (continued)**

State	Yield per acre			Production		
	2021 (bushels)	2022 (bushels)	2023 (bushels)	2021 (1,000 bushels)	2022 (1,000 bushels)	2023 (1,000 bushels)
Alabama .....	83.0	72.0	75.0	9,130	8,640	10,875
Arkansas .....	58.0	53.0	57.0	8,410	7,950	9,405
California .....	82.0	73.0	80.0	7,380	5,110	6,400
Colorado .....	37.0	25.0	41.0	69,560	35,750	74,620
Delaware .....	70.0	76.0	92.0	2,450	4,104	6,348
Georgia .....	56.0	58.0	55.0	6,160	5,800	4,675
Idaho .....	71.0	90.0	89.0	45,440	63,900	56,070
Illinois .....	79.0	79.0	87.0	48,190	44,240	67,860
Indiana .....	85.0	81.0	92.0	22,950	19,440	30,820
Kansas .....	52.0	37.0	35.0	364,000	244,200	201,250
Kentucky .....	87.0	80.0	88.0	30,450	30,000	40,480
Maryland .....	79.0	78.0	85.0	12,640	13,260	16,575
Michigan .....	81.0	83.0	83.0	45,360	34,445	46,480
Mississippi .....	59.0	52.0	52.0	4,130	3,900	4,940
Missouri .....	65.0	60.0	70.0	31,850	24,600	42,000
Montana .....	31.0	33.0	51.0	53,630	59,400	85,680
Nebraska .....	49.0	32.0	42.0	41,160	26,240	36,960
New Jersey .....	67.0	70.0	82.0	1,072	1,540	2,624
New Mexico .....	36.0	17.0	11.0	2,880	1,530	935
New York .....	77.0	72.0	81.0	9,625	7,200	9,720
North Carolina .....	56.0	64.0	70.0	19,320	24,000	28,000
North Dakota .....	33.0	60.0	56.0	1,980	5,700	8,120
Ohio .....	85.0	79.0	90.0	43,775	36,735	53,100
Oklahoma .....	39.0	28.0	28.0	115,050	68,600	68,600
Oregon .....	45.0	68.0	56.0	31,725	48,620	40,600
Pennsylvania .....	77.0	73.0	76.0	15,015	15,330	17,480
South Carolina .....	53.0	57.0	58.0	5,300	5,700	5,510
South Dakota .....	38.0	52.0	47.0	26,980	37,960	32,900
Tennessee .....	71.0	73.0	80.0	23,430	24,455	31,200
Texas .....	37.0	30.0	37.0	74,000	39,000	77,700
Utah .....	46.0	36.0	53.0	4,278	3,168	4,611
Virginia .....	67.0	68.0	78.0	8,040	10,200	10,530
Washington .....	42.0	68.0	54.0	70,980	122,400	94,500
Wisconsin .....	75.0	78.0	76.0	18,375	18,330	17,480
Wyoming .....	32.0	17.0	30.0	3,040	1,615	2,700
United States .....	50.2	47.0	50.6	1,277,755	1,103,062	1,247,748

<sup>1</sup> Includes area planted in preceding fall.

**Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023**

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho .....	510	380	410	485	360	395
Minnesota .....	1,210	1,250	1,300	1,160	1,210	1,260
Montana .....	2,900	2,700	2,700	2,180	2,440	2,670
North Dakota .....	5,500	5,300	5,550	5,210	5,260	5,520
South Dakota .....	720	750	740	580	710	650
Washington .....	580	475	500	540	470	490
United States .....	11,420	10,855	11,200	10,155	10,450	10,985
State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Idaho .....	63.0	81.0	82.0	30,555	29,160	32,390
Minnesota .....	48.0	61.0	62.0	55,680	73,810	78,120
Montana .....	17.0	25.0	30.0	37,060	61,000	80,100
North Dakota .....	33.5	50.0	48.5	174,535	263,000	267,720
South Dakota .....	29.0	48.0	43.0	16,820	34,080	27,950
Washington .....	30.0	46.0	38.0	16,200	21,620	18,620
United States .....	32.6	46.2	46.0	330,850	482,670	504,900

## Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona .....	60	85	38	59	84	37
California .....	25	40	18	20	35	17
Idaho .....	7	8	10	7	7	10
Montana .....	670	710	705	620	675	675
North Dakota .....	880	790	905	820	780	865
United States .....	1,642	1,633	1,676	1,526	1,581	1,604

  

State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arizona .....	90.0	114.0	103.0	5,310	9,576	3,811
California .....	110.0	110.0	114.0	2,200	3,850	1,938
Idaho .....	77.0	65.0	65.0	539	455	650
Montana .....	16.0	28.0	31.0	9,920	18,900	20,925
North Dakota .....	24.0	40.0	37.0	19,680	31,200	32,005
United States .....	24.7	40.5	37.0	37,649	63,981	59,329

## Wheat Production by Class – United States: 2021-2023

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

Crop	2021	2022	2023
		(1,000 bushels)	(1,000 bushels)
<b>Winter</b>			
Hard red .....	749,878	530,966	601,017
Soft red .....	360,697	336,146	449,017
Hard white .....	20,303	10,647	14,142
Soft white .....	146,877	225,303	183,572
<b>Spring</b>			
Hard red .....	297,076	446,495	468,068
Hard white .....	5,662	6,707	8,745
Soft white .....	28,112	29,468	28,087
Durum .....	37,649	63,981	59,329
<b>Total</b> .....	1,646,254	1,649,713	1,811,977

**Rice Area Planted and Harvested, Yield, and Production by Class – States and United States: 2021-2023**

Class and State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Long grain</b>						
Arkansas .....	1,095	1,000	1,220	1,080	990	1,215
California .....	7	7	10	7	7	10
Louisiana .....	380	370	390	375	366	387
Mississippi .....	103	87	121	97	86	120
Missouri .....	195	152	197	190	148	193
Texas .....	188	190	125	178	181	120
United States .....	1,968	1,806	2,063	1,927	1,778	2,045
<b>Medium grain</b>						
Arkansas .....	115	103	215	107	89	201
California .....	365	220	490	363	218	487
Louisiana .....	40	52	78	38	46	75
Mississippi .....	1	-	-	1	-	-
Missouri .....	4	5	8	4	3	7
Texas .....	2	5	24	2	5	23
United States .....	527	385	815	515	361	793
<b>Short grain <sup>1</sup></b>						
Arkansas .....	1	1	1	1	1	1
California .....	35	27	15	35	27	15
United States .....	36	28	16	36	28	16
<b>All rice</b>						
Arkansas .....	1,211	1,104	1,436	1,188	1,080	1,417
California .....	407	254	515	405	252	512
Louisiana .....	420	422	468	413	412	462
Mississippi .....	104	87	121	98	86	120
Missouri .....	199	157	205	194	151	200
Texas .....	190	195	149	180	186	143
United States .....	2,531	2,219	2,894	2,478	2,167	2,854

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:  
2021-2023 (continued)**

Class and State	Yield per acre			Production		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 cwt)	2022 (1,000 cwt)	2023 (1,000 cwt)
<b>Long grain</b>						
Arkansas .....	7,660	7,430	7,600	82,728	73,557	92,340
California .....	7,200	6,300	6,000	504	441	600
Louisiana .....	6,890	6,680	6,860	25,838	24,449	26,548
Mississippi .....	7,540	7,370	7,470	7,314	6,338	8,964
Missouri .....	8,050	7,950	8,010	15,295	11,766	15,459
Texas .....	6,900	6,580	8,300	12,282	11,910	9,960
United States .....	7,471	7,225	7,524	143,961	128,461	153,871
<b>Medium grain</b>						
Arkansas .....	7,380	7,240	7,250	7,897	6,444	14,573
California .....	9,240	9,020	8,670	33,541	19,664	42,223
Louisiana .....	6,690	6,530	6,510	2,542	3,004	4,883
Mississippi .....	7,350	(X)	(X)	74	-	-
Missouri .....	7,600	7,500	7,510	304	225	526
Texas .....	3,500	3,900	4,400	70	195	1,012
United States .....	8,627	8,181	7,972	44,428	29,532	63,217
<b>Short grain <sup>1</sup></b>						
Arkansas .....	5,500	5,000	5,500	55	50	55
California .....	7,450	7,400	7,650	2,608	1,998	1,148
United States .....	7,397	7,314	7,519	2,663	2,048	1,203
<b>All</b>						
Arkansas .....	7,630	7,410	7,550	90,680	80,051	106,968
California .....	9,050	8,770	8,590	36,653	22,103	43,971
Louisiana .....	6,870	6,660	6,800	28,380	27,453	31,431
Mississippi .....	7,540	7,370	7,470	7,388	6,338	8,964
Missouri .....	8,040	7,940	7,990	15,599	11,991	15,985
Texas .....	6,860	6,510	7,670	12,352	12,105	10,972
United States .....	7,710	7,385	7,649	191,052	160,041	218,291

- Represents zero.

(X) Not applicable.

<sup>1</sup> Sweet rice acreage, yield, and production included with short grain.

## Rye Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

State	Area planted <sup>1</sup>			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Minnesota .....	57	70	75	11	28	22
North Dakota .....	88	110	96	36	60	63
Oklahoma .....	250	265	260	50	50	45
Pennsylvania .....	185	190	185	15	21	18
Wisconsin .....	270	230	240	20	20	15
Other States <sup>2</sup> .....	1,283	1,310	1,437	162	166	159
United States .....	2,133	2,175	2,293	294	345	322

  

State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Minnesota .....	44.0	52.0	44.0	484	1,456	968
North Dakota .....	32.0	46.0	41.0	1,152	2,760	2,583
Oklahoma .....	25.0	20.0	17.0	1,250	1,000	765
Pennsylvania .....	40.0	38.0	34.0	600	798	612
Wisconsin .....	41.0	58.0	41.0	820	1,160	615
Other States <sup>2</sup> .....	34.0	31.8	30.4	5,502	5,279	4,832
United States .....	33.4	36.1	32.2	9,808	12,453	10,375

<sup>1</sup> Includes area planted in preceding fall.

<sup>2</sup> 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: 2021-2023**

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado .....	465	445	390	425	345	370
Nebraska .....	165	145	155	158	111	138
South Dakota .....	95	47	74	80	37	64
United States .....	725	637	619	663	493	572

  

State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado .....	22.0	18.5	31.5	9,350	6,383	11,655
Nebraska .....	24.0	15.0	36.5	3,792	1,665	5,037
South Dakota .....	28.0	30.0	45.0	2,240	1,110	2,880
United States .....	23.2	18.6	34.2	15,382	9,158	19,572

## All Hay Area Harvested, Yield, and Production – States and United States: 2021-2023

State	Area harvested			Yield per acre		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama .....	680	680	680	3.10	2.70	2.60
Alaska .....	19	20	20	1.20	1.00	1.40
Arizona .....	320	335	345	7.95	7.63	7.55
Arkansas .....	1,183	1,093	1,162	2.20	2.00	1.90
California .....	830	860	830	6.21	5.39	5.15
Colorado .....	1,480	1,140	1,220	3.03	2.41	2.56
Connecticut .....	46	52	53	1.93	1.77	1.75
Delaware .....	11	11	12	2.45	2.55	2.83
Florida .....	300	310	320	2.50	2.60	3.10
Georgia .....	520	530	510	3.20	2.80	3.10
Idaho .....	1,240	1,390	1,300	3.67	3.80	4.04
Illinois .....	490	490	410	3.16	2.89	2.85
Indiana .....	530	520	530	2.91	3.05	2.40
Iowa .....	1,240	1,170	1,010	3.29	3.06	2.92
Kansas .....	2,640	2,560	2,795	2.16	2.06	1.80
Kentucky .....	2,070	1,910	2,070	2.63	2.28	2.14
Louisiana .....	360	380	390	2.60	2.40	2.10
Maine .....	120	134	128	1.91	2.02	1.83
Maryland .....	199	215	205	2.14	1.90	2.53
Massachusetts .....	55	60	54	1.45	1.67	1.78
Michigan .....	780	770	780	2.76	2.41	2.26
Minnesota .....	1,090	1,190	1,070	2.15	2.64	2.11
Mississippi .....	610	580	580	2.20	2.00	1.90
Missouri .....	3,150	3,210	3,855	2.08	1.84	1.25
Montana .....	2,290	2,290	2,700	1.57	1.81	1.96
Nebraska .....	2,580	2,110	2,285	2.47	2.05	2.33
Nevada .....	340	400	380	3.99	3.71	3.81
New Hampshire .....	42	42	41	1.48	1.64	1.73
New Jersey .....	98	109	97	2.18	1.99	1.90
New Mexico .....	235	235	265	3.68	3.35	3.60
New York .....	1,170	1,180	1,120	2.28	2.01	1.52
North Carolina .....	668	646	657	2.11	2.21	2.11
North Dakota .....	1,990	2,140	2,790	1.03	1.79	1.59
Ohio .....	880	810	810	2.72	2.71	3.00
Oklahoma .....	2,900	2,980	4,075	1.69	1.31	1.79
Oregon .....	890	820	900	2.74	3.20	3.09
Pennsylvania .....	1,220	1,310	1,200	2.57	2.76	2.69
Rhode Island .....	7	7	6	1.71	2.00	2.17
South Carolina .....	270	270	260	2.40	2.20	2.70
South Dakota .....	2,400	2,920	2,955	1.29	1.55	2.07
Tennessee .....	1,665	1,672	1,716	2.36	2.11	2.21
Texas .....	5,500	3,890	4,685	1.91	1.56	1.87
Utah .....	690	670	660	3.33	3.89	3.77
Vermont .....	160	165	165	1.83	2.22	1.73
Virginia .....	1,030	1,000	1,155	2.03	2.13	2.13
Washington .....	700	660	840	3.63	4.28	4.00
West Virginia .....	518	565	610	1.73	1.91	1.72
Wisconsin .....	1,240	1,100	1,030	2.86	2.72	2.17
Wyoming .....	950	1,110	1,090	2.12	2.16	2.33
United States .....	50,396	48,711	52,821	2.38	2.29	2.25

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**All Hay Area Harvested, Yield, and Production – States and United States: 2021-2023 (continued)**

State	Production		
	2021 (1,000 tons)	2022 (1,000 tons)	2023 (1,000 tons)
Alabama .....	2,108	1,836	1,768
Alaska .....	23	20	28
Arizona .....	2,545	2,555	2,604
Arkansas .....	2,606	2,188	2,210
California .....	5,152	4,634	4,275
Colorado .....	4,485	2,750	3,122
Connecticut .....	89	92	93
Delaware .....	27	28	34
Florida .....	750	806	992
Georgia .....	1,664	1,484	1,581
Idaho .....	4,552	5,284	5,250
Illinois .....	1,548	1,414	1,167
Indiana .....	1,541	1,586	1,273
Iowa .....	4,076	3,581	2,946
Kansas .....	5,702	5,276	5,023
Kentucky .....	5,452	4,356	4,428
Louisiana .....	936	912	819
Maine .....	229	271	234
Maryland .....	426	409	519
Massachusetts .....	80	100	96
Michigan .....	2,154	1,855	1,766
Minnesota .....	2,342	3,139	2,257
Mississippi .....	1,342	1,160	1,102
Missouri .....	6,563	5,906	4,831
Montana .....	3,597	4,136	5,303
Nebraska .....	6,371	4,331	5,330
Nevada .....	1,357	1,484	1,446
New Hampshire .....	62	69	71
New Jersey .....	214	217	184
New Mexico .....	865	788	953
New York .....	2,663	2,371	1,702
North Carolina .....	1,408	1,426	1,383
North Dakota .....	2,054	3,823	4,428
Ohio .....	2,392	2,199	2,431
Oklahoma .....	4,910	3,890	7,313
Oregon .....	2,438	2,621	2,780
Pennsylvania .....	3,133	3,616	3,228
Rhode Island .....	12	14	13
South Carolina .....	648	594	702
South Dakota .....	3,105	4,527	6,123
Tennessee .....	3,935	3,523	3,790
Texas .....	10,530	6,078	8,748
Utah .....	2,298	2,603	2,487
Vermont .....	293	366	285
Virginia .....	2,087	2,133	2,464
Washington .....	2,538	2,823	3,356
West Virginia .....	894	1,080	1,051
Wisconsin .....	3,552	2,990	2,235
Wyoming .....	2,016	2,394	2,545
United States .....	119,764	111,738	118,769

**Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2021-2023**

State	Area harvested			Yield per acre		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)	2021 (tons)	2022 (tons)	2023 (tons)
Arizona .....	290	280	280	8.30	8.20	8.30
Arkansas .....	3	3	2	3.30	2.80	3.00
California .....	500	480	480	7.40	7.20	6.50
Colorado .....	780	610	650	4.00	2.90	3.40
Connecticut .....	6	7	5	2.10	2.10	2.10
Delaware .....	3	2	4	2.20	2.85	3.20
Idaho .....	960	1,060	1,000	4.10	4.30	4.50
Illinois .....	290	240	180	3.75	3.65	3.80
Indiana .....	270	260	270	3.30	3.50	2.50
Iowa .....	910	730	750	3.50	3.70	3.20
Kansas .....	690	660	735	3.60	3.10	3.05
Kentucky .....	100	110	90	3.30	3.60	3.00
Maine .....	10	9	8	2.00	2.30	2.30
Maryland .....	34	40	45	3.30	4.10	3.00
Massachusetts .....	5	5	4	1.90	1.80	1.50
Michigan .....	560	560	550	3.10	2.60	2.50
Minnesota .....	680	640	660	2.60	3.10	2.55
Missouri .....	250	160	205	3.05	2.60	2.20
Montana .....	1,550	1,430	1,650	1.70	2.05	2.10
Nebraska .....	930	810	850	4.10	3.10	3.40
Nevada .....	210	285	240	5.10	4.40	4.80
New Hampshire .....	5	5	5	1.20	2.00	2.00
New Jersey .....	13	13	12	3.40	2.70	2.60
New Mexico .....	135	135	155	5.00	4.80	4.80
New York .....	280	250	200	2.20	2.60	2.30
North Carolina .....	8	6	7	2.75	3.00	2.60
North Dakota .....	940	1,140	1,530	0.90	1.95	1.70
Ohio .....	320	290	290	3.10	3.10	3.90
Oklahoma .....	180	220	175	3.10	2.00	3.90
Oregon .....	400	350	320	3.40	4.40	4.70
Pennsylvania .....	320	310	270	2.90	3.60	3.00
Rhode Island .....	1	1	1	2.00	2.20	2.00
South Dakota .....	1,300	1,670	1,690	1.50	1.70	2.35
Tennessee .....	15	12	16	3.80	3.10	3.10
Texas .....	100	90	85	5.40	4.20	5.50
Utah .....	520	490	490	3.70	4.10	4.00
Vermont .....	15	15	15	2.15	3.40	3.00
Virginia .....	30	30	35	2.90	3.20	3.20
Washington .....	390	370	440	4.60	5.20	4.90
West Virginia .....	18	15	10	2.45	2.30	3.10
Wisconsin .....	920	800	640	3.20	3.10	2.70
Wyoming .....	490	560	590	2.80	2.90	3.00
United States .....	15,431	15,153	15,634	3.23	3.22	3.19

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**Alfalfa and Alfalfa Mixtures for Hay Area Harvested, Yield, and Production – States and United States: 2021-2023** (continued)

State	Production		
	2021 (1,000 tons)	2022 (1,000 tons)	2023 (1,000 tons)
Arizona .....	2,407	2,296	2,324
Arkansas .....	10	8	6
California .....	3,700	3,456	3,120
Colorado .....	3,120	1,769	2,210
Connecticut .....	13	15	11
Delaware .....	7	6	13
Idaho .....	3,936	4,558	4,500
Illinois .....	1,088	876	684
Indiana .....	891	910	675
Iowa .....	3,185	2,701	2,400
Kansas .....	2,484	2,046	2,242
Kentucky .....	330	396	270
Maine .....	20	21	18
Maryland .....	112	164	135
Massachusetts .....	10	9	6
Michigan .....	1,736	1,456	1,375
Minnesota .....	1,768	1,984	1,683
Missouri .....	763	416	451
Montana .....	2,635	2,932	3,465
Nebraska .....	3,813	2,511	2,890
Nevada .....	1,071	1,254	1,152
New Hampshire .....	6	10	10
New Jersey .....	44	35	31
New Mexico .....	675	648	744
New York .....	616	650	460
North Carolina .....	22	18	18
North Dakota .....	846	2,223	2,601
Ohio .....	992	899	1,131
Oklahoma .....	558	440	683
Oregon .....	1,360	1,540	1,504
Pennsylvania .....	928	1,116	810
Rhode Island .....	2	2	2
South Dakota .....	1,950	2,839	3,972
Tennessee .....	57	37	50
Texas .....	540	378	468
Utah .....	1,924	2,009	1,960
Vermont .....	32	51	45
Virginia .....	87	96	112
Washington .....	1,794	1,924	2,156
West Virginia .....	44	35	31
Wisconsin .....	2,944	2,480	1,728
Wyoming .....	1,372	1,624	1,770
United States .....	49,892	48,838	49,916

## All Other Hay Area Harvested, Yield, and Production – States and United States: 2021-2023

State	Area harvested			Yield per acre		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
Alabama <sup>1</sup> .....	680	680	680	3.10	2.70	2.60
Alaska <sup>1</sup> .....	19	20	20	1.20	1.00	1.40
Arizona .....	30	55	65	4.60	4.70	4.30
Arkansas .....	1,180	1,090	1,160	2.20	2.00	1.90
California .....	330	380	350	4.40	3.10	3.30
Colorado .....	700	530	570	1.95	1.85	1.60
Connecticut .....	40	45	48	1.90	1.70	1.70
Delaware .....	8	9	8	2.50	2.40	2.60
Florida <sup>1</sup> .....	300	310	320	2.50	2.60	3.10
Georgia <sup>1</sup> .....	520	530	510	3.20	2.80	3.10
Idaho .....	280	330	300	2.20	2.20	2.50
Illinois .....	200	250	230	2.30	2.15	2.10
Indiana .....	260	260	260	2.50	2.60	2.30
Iowa .....	330	440	260	2.70	2.00	2.10
Kansas .....	1,950	1,900	2,060	1.65	1.70	1.35
Kentucky .....	1,970	1,800	1,980	2.60	2.20	2.10
Louisiana <sup>1</sup> .....	360	380	390	2.60	2.40	2.10
Maine .....	110	125	120	1.90	2.00	1.80
Maryland .....	165	175	160	1.90	1.40	2.40
Massachusetts .....	50	55	50	1.40	1.65	1.80
Michigan .....	220	210	230	1.90	1.90	1.70
Minnesota .....	410	550	410	1.40	2.10	1.40
Mississippi <sup>1</sup> .....	610	580	580	2.20	2.00	1.90
Missouri .....	2,900	3,050	3,650	2.00	1.80	1.20
Montana .....	740	860	1,050	1.30	1.40	1.75
Nebraska .....	1,650	1,300	1,435	1.55	1.40	1.70
Nevada .....	130	115	140	2.20	2.00	2.10
New Hampshire .....	37	37	36	1.50	1.60	1.70
New Jersey .....	85	96	85	2.00	1.90	1.80
New Mexico .....	100	100	110	1.90	1.40	1.90
New York .....	890	930	920	2.30	1.85	1.35
North Carolina .....	660	640	650	2.10	2.20	2.10
North Dakota .....	1,050	1,000	1,260	1.15	1.60	1.45
Ohio .....	560	520	520	2.50	2.50	2.50
Oklahoma .....	2,720	2,760	3,900	1.60	1.25	1.70
Oregon .....	490	470	580	2.20	2.30	2.20
Pennsylvania .....	900	1,000	930	2.45	2.50	2.60
Rhode Island .....	6	6	5	1.60	2.00	2.10
South Carolina <sup>1</sup> .....	270	270	260	2.40	2.20	2.70
South Dakota .....	1,100	1,250	1,265	1.05	1.35	1.70
Tennessee .....	1,650	1,660	1,700	2.35	2.10	2.20
Texas .....	5,400	3,800	4,600	1.85	1.50	1.80
Utah .....	170	180	170	2.20	3.30	3.10
Vermont .....	145	150	150	1.80	2.10	1.60
Virginia .....	1,000	970	1,120	2.00	2.10	2.10
Washington .....	310	290	400	2.40	3.10	3.00
West Virginia .....	500	550	600	1.70	1.90	1.70
Wisconsin .....	320	300	390	1.90	1.70	1.30
Wyoming .....	460	550	500	1.40	1.40	1.55
United States .....	34,965	33,558	37,187	2.00	1.87	1.85

See footnote(s) at end of table.

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**All Other Hay Area Harvested, Yield, and Production – States and United States: 2021-2023 (continued)**

State	Production		
	2021 (1,000 tons)	2022 (1,000 tons)	2023 (1,000 tons)
Alabama <sup>1</sup> .....	2,108	1,836	1,768
Alaska <sup>1</sup> .....	23	20	28
Arizona .....	138	259	280
Arkansas .....	2,596	2,180	2,204
California .....	1,452	1,178	1,155
Colorado .....	1,365	981	912
Connecticut .....	76	77	82
Delaware .....	20	22	21
Florida <sup>1</sup> .....	750	806	992
Georgia <sup>1</sup> .....	1,664	1,484	1,581
Idaho .....	616	726	750
Illinois .....	460	538	483
Indiana .....	650	676	598
Iowa .....	891	880	546
Kansas .....	3,218	3,230	2,781
Kentucky .....	5,122	3,960	4,158
Louisiana <sup>1</sup> .....	936	912	819
Maine .....	209	250	216
Maryland .....	314	245	384
Massachusetts .....	70	91	90
Michigan .....	418	399	391
Minnesota .....	574	1,155	574
Mississippi <sup>1</sup> .....	1,342	1,160	1,102
Missouri .....	5,800	5,490	4,380
Montana .....	962	1,204	1,838
Nebraska .....	2,558	1,820	2,440
Nevada .....	286	230	294
New Hampshire .....	56	59	61
New Jersey .....	170	182	153
New Mexico .....	190	140	209
New York .....	2,047	1,721	1,242
North Carolina .....	1,386	1,408	1,365
North Dakota .....	1,208	1,600	1,827
Ohio .....	1,400	1,300	1,300
Oklahoma .....	4,352	3,450	6,630
Oregon .....	1,078	1,081	1,276
Pennsylvania .....	2,205	2,500	2,418
Rhode Island .....	10	12	11
South Carolina <sup>1</sup> .....	648	594	702
South Dakota .....	1,155	1,688	2,151
Tennessee .....	3,878	3,486	3,740
Texas .....	9,990	5,700	8,280
Utah .....	374	594	527
Vermont .....	261	315	240
Virginia .....	2,000	2,037	2,352
Washington .....	744	899	1,200
West Virginia .....	850	1,045	1,020
Wisconsin .....	608	510	507
Wyoming .....	644	770	775
United States .....	69,872	62,900	68,853

<sup>1</sup> 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: 2021-2023

[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		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California .....	1,005	1,030	965	6.23	5.81	5.58
Idaho .....	1,330	1,480	1,390	4.08	4.04	4.42
Illinois .....	510	515	420	3.29	3.11	3.04
Iowa .....	1,335	1,265	1,070	3.43	3.19	3.10
Kansas .....	2,740	2,650	2,880	2.26	2.09	1.82
Michigan .....	985	950	960	3.31	2.97	2.73
Minnesota .....	1,285	1,365	1,205	2.39	2.76	2.22
Missouri .....	3,235	3,255	3,880	2.13	1.88	1.28
Nebraska .....	2,600	2,160	2,335	2.51	2.07	2.39
New York .....	1,655	1,700	1,450	2.73	2.53	2.59
Ohio .....	930	860	850	2.95	2.95	3.26
Pennsylvania .....	1,385	1,465	1,330	3.02	3.02	3.12
South Dakota .....	2,425	2,945	3,020	1.34	1.59	2.11
Texas .....	5,635	4,045	4,740	1.96	1.72	2.02
Vermont .....	275	295	305	3.49	3.36	3.29
Washington .....	755	685	865	3.79	4.62	4.22
Wisconsin .....	2,250	2,050	1,800	3.47	3.46	2.82
17 State total .....	30,335	28,715	29,465	2.68	2.59	2.50

  

State	Production		
	2021	2022	2023
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California .....	6,264	5,985	5,382
Idaho .....	5,431	5,983	6,137
Illinois .....	1,679	1,602	1,275
Iowa .....	4,580	4,037	3,312
Kansas .....	6,184	5,541	5,252
Michigan .....	3,257	2,817	2,621
Minnesota .....	3,074	3,772	2,673
Missouri .....	6,889	6,107	4,976
Nebraska .....	6,532	4,464	5,591
New York .....	4,523	4,299	3,756
Ohio .....	2,745	2,536	2,775
Pennsylvania .....	4,179	4,422	4,156
South Dakota .....	3,245	4,681	6,375
Texas .....	11,059	6,939	9,563
Vermont .....	959	992	1,004
Washington .....	2,859	3,168	3,653
Wisconsin .....	7,811	7,098	5,074
17 State total .....	81,270	74,443	73,575

## All Alfalfa Forage Area Harvested, Yield, and Production – States and 17 State Total: 2021-2023

[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		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California .....	570	490	510	6.96	7.36	6.54
Idaho .....	1,010	1,110	1,060	4.55	4.60	4.96
Illinois .....	310	245	190	3.85	3.96	4.08
Iowa .....	995	805	780	3.67	3.84	3.37
Kansas .....	710	680	740	3.62	3.14	3.05
Michigan .....	745	730	710	3.73	3.19	3.01
Minnesota .....	850	795	780	2.87	3.21	2.64
Missouri .....	255	175	210	3.05	2.70	2.24
Nebraska .....	940	820	875	4.11	3.10	3.41
New York .....	545	450	490	3.39	3.75	4.10
Ohio .....	350	320	330	3.47	3.64	4.27
Pennsylvania .....	425	375	330	3.57	3.96	3.68
South Dakota .....	1,320	1,690	1,750	1.53	1.74	2.39
Texas .....	105	95	90	5.52	4.20	5.60
Vermont .....	55	35	35	3.64	4.89	5.63
Washington .....	410	375	450	4.64	5.35	5.07
Wisconsin .....	1,810	1,630	1,310	3.81	3.86	3.21
17 State total .....	11,405	10,820	10,640	3.69	3.60	3.56

  

State	Production		
	2021	2022	2023
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California .....	3,965	3,604	3,337
Idaho .....	4,598	5,109	5,254
Illinois .....	1,193	971	775
Iowa .....	3,650	3,091	2,630
Kansas .....	2,567	2,133	2,258
Michigan .....	2,780	2,331	2,137
Minnesota .....	2,443	2,553	2,063
Missouri .....	778	472	471
Nebraska .....	3,865	2,545	2,985
New York .....	1,848	1,688	2,008
Ohio .....	1,214	1,165	1,408
Pennsylvania .....	1,518	1,485	1,215
South Dakota .....	2,024	2,943	4,180
Texas .....	580	399	504
Vermont .....	200	171	197
Washington .....	1,903	2,005	2,280
Wisconsin .....	6,902	6,297	4,207
17 State total .....	42,028	38,962	37,909

## All Other Forage Area Harvested, Yield, and Production – States and 17 State Total: 2021-2023

[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		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California .....	435	540	455	5.29	4.41	4.49
Idaho .....	320	370	330	2.60	2.36	2.68
Illinois .....	200	270	230	2.43	2.34	2.17
Iowa .....	340	460	290	2.74	2.06	2.35
Kansas .....	2,030	1,970	2,140	1.78	1.73	1.40
Michigan .....	240	220	250	1.99	2.21	1.94
Minnesota .....	435	570	425	1.45	2.14	1.44
Missouri .....	2,980	3,080	3,670	2.05	1.83	1.23
Nebraska .....	1,660	1,340	1,460	1.61	1.43	1.78
New York .....	1,110	1,250	960	2.41	2.09	1.82
Ohio .....	580	540	520	2.64	2.54	2.63
Pennsylvania .....	960	1,090	1,000	2.77	2.69	2.94
South Dakota .....	1,105	1,255	1,270	1.10	1.38	1.73
Texas .....	5,530	3,950	4,650	1.89	1.66	1.95
Vermont .....	220	260	270	3.45	3.16	2.99
Washington .....	345	310	415	2.77	3.75	3.31
Wisconsin .....	440	420	490	2.07	1.91	1.77
17 State total .....	18,930	17,895	18,825	2.07	1.98	1.89

  

State	Production		
	2021	2022	2023
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California .....	2,299	2,381	2,045
Idaho .....	833	874	883
Illinois .....	486	631	500
Iowa .....	930	946	682
Kansas .....	3,617	3,408	2,994
Michigan .....	477	486	484
Minnesota .....	631	1,219	610
Missouri .....	6,111	5,635	4,505
Nebraska .....	2,667	1,919	2,606
New York .....	2,675	2,611	1,748
Ohio .....	1,531	1,371	1,367
Pennsylvania .....	2,661	2,937	2,941
South Dakota .....	1,221	1,738	2,195
Texas .....	10,479	6,540	9,059
Vermont .....	759	821	807
Washington .....	956	1,163	1,373
Wisconsin .....	909	801	867
17 State total .....	39,242	35,481	35,666

## All Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State

### Total: 2021-2023

[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		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California .....	205	225	185	10.97	12.15	12.10
Idaho .....	140	125	155	12.71	11.31	11.58
Illinois .....	40	61	37	6.60	6.25	5.92
Iowa .....	115	125	90	8.85	7.38	8.23
Kansas .....	125	110	115	7.81	4.88	4.03
Michigan .....	270	255	260	8.27	7.63	6.65
Minnesota .....	245	205	167	6.04	6.25	5.04
Missouri .....	155	95	80	4.26	4.28	3.66
Nebraska .....	50	75	80	6.50	3.57	6.60
New York .....	640	680	500	5.88	5.74	8.31
Ohio .....	105	110	110	6.82	6.21	6.32
Pennsylvania .....	285	250	250	7.43	6.52	7.51
South Dakota .....	50	50	95	5.68	6.24	5.37
Texas .....	190	207	184	5.63	8.42	8.95
Vermont .....	190	200	175	7.09	6.33	8.32
Washington .....	95	79	76	6.83	8.82	7.92
Wisconsin .....	1,200	1,130	890	7.18	7.35	6.45
17 State total .....	4,100	3,982	3,449	7.21	7.14	7.40

State	Production		
	2021	2022	2023
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California .....	2,249	2,733	2,238
Idaho .....	1,780	1,414	1,795
Illinois .....	264	381	219
Iowa .....	1,018	923	741
Kansas .....	976	537	463
Michigan .....	2,232	1,946	1,730
Minnesota .....	1,481	1,282	842
Missouri .....	660	407	293
Nebraska .....	325	268	528
New York .....	3,763	3,900	4,155
Ohio .....	716	683	695
Pennsylvania .....	2,117	1,631	1,878
South Dakota .....	284	312	510
Texas .....	1,070	1,742	1,647
Vermont .....	1,348	1,265	1,456
Washington .....	649	697	602
Wisconsin .....	8,616	8,310	5,744
17 State total .....	29,548	28,431	25,536

## Alfalfa Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2021-2023

[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		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California .....	80	50	60	6.70	6.00	7.30
Idaho .....	100	85	125	13.40	13.10	12.20
Illinois .....	30	28	27	7.05	6.90	6.80
Iowa .....	100	100	50	9.40	7.90	9.30
Kansas .....	30	30	15	5.60	5.90	2.20
Michigan .....	240	230	230	8.80	7.70	6.70
Minnesota .....	210	180	145	6.50	6.40	5.30
Missouri .....	15	25	10	2.00	4.50	4.10
Nebraska .....	25	25	40	4.20	2.70	4.80
New York .....	330	280	335	7.55	7.50	9.35
Ohio .....	60	70	80	7.50	7.70	7.00
Pennsylvania .....	155	105	105	7.70	7.10	7.80
South Dakota .....	30	35	80	5.00	6.00	5.25
Texas .....	10	7	9	8.00	6.00	8.00
Vermont .....	50	35	35	6.80	6.90	8.80
Washington .....	40	24	31	5.50	6.80	8.10
Wisconsin .....	1,040	990	760	7.70	7.80	6.60
17 State total .....	2,545	2,299	2,137	7.76	7.59	7.38

  

State	Production		
	2021	2022	2023
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California .....	536	300	438
Idaho .....	1,340	1,114	1,525
Illinois .....	212	193	184
Iowa .....	940	790	465
Kansas .....	168	177	33
Michigan .....	2,112	1,771	1,541
Minnesota .....	1,365	1,152	769
Missouri .....	30	113	41
Nebraska .....	105	68	192
New York .....	2,492	2,100	3,132
Ohio .....	450	539	560
Pennsylvania .....	1,194	746	819
South Dakota .....	150	210	420
Texas .....	80	42	72
Vermont .....	340	242	308
Washington .....	220	163	251
Wisconsin .....	8,008	7,722	5,016
17 State total .....	19,742	17,442	15,766

**All Other Haylage and Greenchop Area Harvested, Yield, and Production – States and 17 State Total: 2021-2023**

[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		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
California .....	125	175	125	13.70	13.90	14.40
Idaho .....	40	40	30	11.00	7.50	9.00
Illinois .....	10	33	10	5.20	5.70	3.50
Iowa .....	15	25	40	5.20	5.30	6.90
Kansas .....	95	80	100	8.50	4.50	4.30
Michigan .....	30	25	30	4.00	7.00	6.30
Minnesota .....	35	25	22	3.30	5.20	3.30
Missouri .....	140	70	70	4.50	4.20	3.60
Nebraska .....	25	50	40	8.80	4.00	8.40
New York .....	310	400	165	4.10	4.50	6.20
Ohio .....	45	40	30	5.90	3.60	4.50
Pennsylvania .....	130	145	145	7.10	6.10	7.30
South Dakota .....	20	15	15	6.70	6.80	6.00
Texas .....	180	200	175	5.50	8.50	9.00
Vermont .....	140	165	140	7.20	6.20	8.20
Washington .....	55	55	45	7.80	9.70	7.80
Wisconsin .....	160	140	130	3.80	4.20	5.60
17 State total .....	1,555	1,683	1,312	6.31	6.53	7.45

  

State	Production		
	2021	2022	2023
	(1,000 tons)	(1,000 tons)	(1,000 tons)
California .....	1,713	2,433	1,800
Idaho .....	440	300	270
Illinois .....	52	188	35
Iowa .....	78	133	276
Kansas .....	808	360	430
Michigan .....	120	175	189
Minnesota .....	116	130	73
Missouri .....	630	294	252
Nebraska .....	220	200	336
New York .....	1,271	1,800	1,023
Ohio .....	266	144	135
Pennsylvania .....	923	885	1,059
South Dakota .....	134	102	90
Texas .....	990	1,700	1,575
Vermont .....	1,008	1,023	1,148
Washington .....	429	534	351
Wisconsin .....	608	588	728
17 State total .....	9,806	10,989	9,770

## New Seedings of Alfalfa and Alfalfa Mixtures – States and United States: 2021-2023

State	Area seeded		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)
Arizona .....	40	30	60
Arkansas .....	1	1	1
California .....	60	60	70
Colorado .....	50	55	80
Connecticut .....	1	1	1
Delaware .....	1	1	2
Idaho .....	115	100	100
Illinois .....	40	30	25
Indiana .....	30	40	30
Iowa .....	65	75	70
Kansas .....	90	50	90
Kentucky .....	8	10	8
Maine .....	2	2	1
Maryland .....	5	2	1
Massachusetts .....	1	1	1
Michigan .....	60	60	50
Minnesota .....	100	135	75
Missouri .....	20	15	30
Montana .....	80	60	95
Nebraska .....	90	110	115
Nevada .....	11	23	15
New Hampshire .....	1	1	1
New Jersey .....	2	2	2
New Mexico .....	5	10	20
New York .....	90	60	70
North Carolina .....	2	3	2
North Dakota .....	30	55	60
Ohio .....	30	40	30
Oklahoma .....	35	55	70
Oregon .....	20	35	20
Pennsylvania .....	45	50	50
South Dakota .....	65	70	95
Tennessee .....	3	3	2
Texas .....	20	15	21
Utah .....	45	50	60
Vermont .....	4	2	3
Virginia .....	6	7	6
Washington .....	40	60	50
West Virginia .....	3	1	1
Wisconsin .....	300	260	210
Wyoming .....	30	35	50
United States .....	1,646	1,675	1,743

**Peanut Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023**

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama .....	185.0	165.0	175.0	182.0	163.0	171.0
Arkansas .....	36.0	33.0	35.0	35.0	32.0	34.0
Florida .....	166.0	152.0	160.0	159.0	144.0	152.0
Georgia .....	755.0	685.0	775.0	750.0	680.0	770.0
Mississippi .....	18.0	15.0	18.0	17.0	14.0	16.0
New Mexico .....	11.3	6.5	11.0	11.0	5.4	10.0
North Carolina .....	115.0	117.0	124.0	114.0	116.0	123.0
Oklahoma .....	16.0	18.0	16.0	15.0	17.0	15.0
South Carolina .....	69.0	71.0	77.0	66.0	68.0	74.0
Texas .....	177.0	157.0	225.0	159.0	114.0	180.0
Virginia .....	30.0	29.0	29.0	30.0	28.0	29.0
United States .....	1,578.3	1,448.5	1,645.0	1,538.0	1,381.4	1,574.0

  

State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Alabama .....	3,350	3,400	2,810	609,700	554,200	480,510
Arkansas .....	5,000	5,200	5,800	175,000	166,400	197,200
Florida .....	3,680	3,990	3,320	585,120	574,560	504,640
Georgia .....	4,450	4,210	4,070	3,337,500	2,862,800	3,133,900
Mississippi .....	4,100	4,500	3,600	69,700	63,000	57,600
New Mexico .....	2,340	2,880	2,100	25,740	15,552	21,000
North Carolina .....	4,350	4,370	4,300	495,900	506,920	528,900
Oklahoma .....	4,450	3,720	3,900	66,750	63,240	58,500
South Carolina .....	4,200	4,150	4,050	277,200	282,200	299,700
Texas .....	3,620	2,870	2,600	575,580	327,180	468,000
Virginia .....	4,700	4,490	4,830	141,000	125,720	140,070
United States .....	4,135	4,012	3,742	6,359,190	5,541,772	5,890,020

**Canola Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023**

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Kansas .....	7.0	8.5	1.5	6.5	6.7	0.7
Minnesota .....	62.0	70.0	80.0	61.5	69.0	79.0
Montana .....	185.0	180.0	165.0	161.0	167.0	160.0
North Dakota .....	1,750.0	1,800.0	1,930.0	1,720.0	1,785.0	1,915.0
Oklahoma .....	11.5	17.5	3.0	10.0	8.0	1.5
Washington .....	130.0	130.0	165.0	125.0	128.0	163.0
United States .....	2,145.5	2,206.0	2,344.5	2,084.0	2,163.7	2,319.2
State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Kansas .....	1,200	690	600	7,800	4,623	420
Minnesota .....	1,700	2,410	2,470	104,550	166,290	195,130
Montana .....	900	1,030	1,420	144,900	172,010	227,200
North Dakota .....	1,340	1,820	1,810	2,304,800	3,248,700	3,466,150
Oklahoma .....	1,550	700	800	15,500	5,600	1,200
Washington .....	1,100	1,700	1,640	137,500	217,600	267,320
United States .....	1,303	1,763	1,793	2,715,050	3,814,823	4,157,420

**Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2021-2023**

Varietal type and State	Area planted			Area harvested		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)
<b>Oil</b>						
California .....	45.0	33.0	28.0	44.5	31.0	27.5
Colorado .....	40.0	50.0	26.0	38.0	40.0	24.0
Kansas .....	24.0	31.0	28.0	23.0	27.0	26.0
Minnesota .....	52.0	67.0	49.0	51.0	65.0	48.0
Nebraska .....	35.0	49.0	31.0	33.0	45.0	30.0
North Dakota .....	460.0	660.0	500.0	450.0	645.0	490.0
South Dakota .....	485.0	610.0	455.0	465.0	580.0	440.0
Texas .....	35.0	44.0	44.0	33.0	38.0	40.0
United States .....	1,176.0	1,544.0	1,161.0	1,137.5	1,471.0	1,125.5
<b>Non-oil</b>						
California .....	1.0	0.5	0.5	1.0	0.5	0.5
Colorado .....	12.0	10.0	8.0	11.5	6.5	5.0
Kansas .....	10.0	10.0	6.0	9.0	8.5	5.0
Minnesota .....	3.0	8.5	9.5	2.8	8.0	9.0
Nebraska .....	6.5	7.5	8.5	6.5	6.0	7.5
North Dakota .....	34.0	57.0	75.0	32.0	53.0	72.0
South Dakota .....	38.0	42.0	40.0	36.0	40.0	38.0
Texas .....	6.0	8.0	6.5	5.5	6.0	5.0
United States .....	110.5	143.5	154.0	104.3	128.5	142.0
<b>All</b>						
California .....	46.0	33.5	28.5	45.5	31.5	28.0
Colorado .....	52.0	60.0	34.0	49.5	46.5	29.0
Kansas .....	34.0	41.0	34.0	32.0	35.5	31.0
Minnesota .....	55.0	75.5	58.5	53.8	73.0	57.0
Nebraska .....	41.5	56.5	39.5	39.5	51.0	37.5
North Dakota .....	494.0	717.0	575.0	482.0	698.0	562.0
South Dakota .....	523.0	652.0	495.0	501.0	620.0	478.0
Texas .....	41.0	52.0	50.5	38.5	44.0	45.0
United States .....	1,286.5	1,687.5	1,315.0	1,241.8	1,599.5	1,267.5

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**Sunflower Area Planted and Harvested, Yield, and Production by Type – States and United States: 2021-2023 (continued)**

Varietal type and State	Yield per acre			Production		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 pounds)	2022 (1,000 pounds)	2023 (1,000 pounds)
<b>Oil</b>						
California .....	1,100	1,050	1,050	48,950	32,550	28,875
Colorado .....	930	550	940	35,340	22,000	22,560
Kansas .....	1,600	1,300	930	36,800	35,100	24,180
Minnesota .....	1,680	2,370	2,300	85,680	154,050	110,400
Nebraska .....	850	900	1,180	28,050	40,500	35,400
North Dakota .....	1,590	1,900	1,970	715,500	1,225,500	965,300
South Dakota .....	1,600	1,740	1,650	744,000	1,009,200	726,000
Texas .....	1,150	1,250	1,350	37,950	47,500	54,000
United States .....	1,523	1,745	1,747	1,732,270	2,566,400	1,966,715
<b>Non-oil</b>						
California .....	900	1,400	1,100	900	700	550
Colorado .....	950	1,350	1,100	10,925	8,775	5,500
Kansas .....	1,600	1,100	850	14,400	9,350	4,250
Minnesota .....	1,850	2,200	2,400	5,180	17,600	21,600
Nebraska .....	1,000	870	1,170	6,500	5,220	8,775
North Dakota .....	1,450	2,170	2,190	46,400	115,010	157,680
South Dakota .....	2,050	1,830	2,400	73,800	73,200	91,200
Texas .....	1,640	2,050	1,450	9,020	12,300	7,250
United States .....	1,602	1,884	2,090	167,125	242,155	296,805
<b>All</b>						
California .....	1,096	1,056	1,051	49,850	33,250	29,425
Colorado .....	935	662	968	46,265	30,775	28,060
Kansas .....	1,600	1,252	917	51,200	44,450	28,430
Minnesota .....	1,689	2,351	2,316	90,860	171,650	132,000
Nebraska .....	875	896	1,178	34,550	45,720	44,175
North Dakota .....	1,581	1,921	1,998	761,900	1,340,510	1,122,980
South Dakota .....	1,632	1,746	1,710	817,800	1,082,400	817,200
Texas .....	1,220	1,359	1,361	46,970	59,800	61,250
United States .....	1,530	1,756	1,786	1,899,395	2,808,555	2,263,520

**Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023**

State	Area planted			Area harvested		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)
Alabama .....	310	360	350	305	355	345
Arkansas .....	3,040	3,180	2,980	3,000	3,140	2,950
Delaware .....	155	160	150	153	158	148
Georgia .....	140	165	160	135	158	155
Illinois .....	10,600	10,800	10,350	10,510	10,750	10,300
Indiana .....	5,650	5,850	5,500	5,640	5,830	5,480
Iowa .....	10,100	10,100	9,950	10,030	10,030	9,880
Kansas .....	4,850	5,050	4,430	4,800	4,720	4,030
Kentucky .....	1,850	1,950	1,830	1,840	1,940	1,820
Louisiana .....	1,080	1,260	1,030	1,060	1,210	980
Maryland .....	490	520	470	485	510	460
Michigan .....	2,150	2,250	2,040	2,140	2,240	2,030
Minnesota .....	7,650	7,450	7,350	7,580	7,390	7,280
Mississippi .....	2,220	2,310	2,180	2,170	2,290	2,130
Missouri .....	5,700	6,100	5,600	5,640	6,040	5,520
Nebraska .....	5,600	5,750	5,250	5,570	5,650	5,180
New Jersey .....	100	110	100	99	108	98
New York .....	325	350	350	320	325	340
North Carolina .....	1,650	1,700	1,640	1,630	1,680	1,630
North Dakota .....	7,250	5,700	6,200	7,120	5,670	6,160
Ohio .....	4,900	5,100	4,750	4,880	5,080	4,730
Oklahoma .....	580	545	460	535	380	410
Pennsylvania .....	600	600	570	595	590	560
South Carolina .....	395	405	395	385	395	385
South Dakota .....	5,450	5,100	5,100	5,390	5,070	5,070
Tennessee .....	1,550	1,650	1,600	1,520	1,620	1,570
Texas .....	110	155	125	100	85	85
Virginia .....	600	620	580	590	610	570
Wisconsin .....	2,100	2,160	2,110	2,070	2,150	2,060
United States .....	87,195	87,450	83,600	86,292	86,174	82,356

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**Soybeans for Beans Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023 (continued)**

State	Yield per acre			Production		
	2021 (bushels)	2022 (bushels)	2023 (bushels)	2021 (1,000 bushels)	2022 (1,000 bushels)	2023 (1,000 bushels)
Alabama .....	46.0	41.0	43.0	14,030	14,555	14,835
Arkansas .....	52.0	52.0	54.0	156,000	163,280	159,300
Delaware .....	51.0	43.0	46.0	7,803	6,794	6,808
Georgia .....	46.0	41.0	43.0	6,210	6,478	6,665
Illinois .....	65.0	63.0	63.0	683,150	677,250	648,900
Indiana .....	60.0	57.5	61.0	338,400	335,225	334,280
Iowa .....	63.0	58.5	58.0	631,890	586,755	573,040
Kansas .....	40.0	27.5	26.0	192,000	129,800	104,780
Kentucky .....	56.0	51.0	55.0	103,040	98,940	100,100
Louisiana .....	52.0	47.0	40.0	55,120	56,870	39,200
Maryland .....	53.0	43.0	47.0	25,705	21,930	21,620
Michigan .....	51.0	47.0	46.0	109,140	105,280	93,380
Minnesota .....	47.0	50.0	48.0	356,260	369,500	349,440
Mississippi .....	54.0	54.0	56.0	117,180	123,660	119,280
Missouri .....	49.0	45.5	48.0	276,360	274,820	264,960
Nebraska .....	63.0	49.0	51.5	350,910	276,850	266,770
New Jersey .....	46.0	28.0	43.0	4,554	3,024	4,214
New York .....	53.0	45.0	51.0	16,960	14,625	17,340
North Carolina .....	40.0	38.5	38.5	65,200	64,680	62,755
North Dakota .....	25.5	35.0	35.5	181,560	198,450	218,680
Ohio .....	57.0	55.5	58.0	278,160	281,940	274,340
Oklahoma .....	23.0	17.0	26.0	12,305	6,460	10,660
Pennsylvania .....	53.0	43.0	47.0	31,535	25,370	26,320
South Carolina .....	38.0	37.0	39.0	14,630	14,615	15,015
South Dakota .....	40.0	38.0	44.0	215,600	192,660	223,080
Tennessee .....	50.0	48.0	51.0	76,000	77,760	80,070
Texas .....	38.0	20.0	25.0	3,800	1,700	2,125
Virginia .....	46.0	41.0	38.0	27,140	25,010	21,660
Wisconsin .....	55.0	54.0	51.0	113,850	116,100	105,060
United States .....	51.7	49.6	50.6	4,464,492	4,270,381	4,164,677

## Percent of Soybean Acreage Planted Following Another Harvested Crop – Selected States and United States: 2019-2023

[Data as obtained from survey results. These data do not represent official estimates of the Agricultural Statistics Board but provide raw data as obtained from survey respondents. The purpose of these data is to portray trends in soybean production practices]

State	2019	2020	2021	2022	2023 <sup>1</sup>
	(percent)	(percent)	(percent)	(percent)	(percent)
Alabama .....	24	23	37	21	33
Arkansas .....	2	2	4	4	5
Delaware .....	6	26	24	27	45
Georgia .....	18	22	49	16	23
Illinois .....	5	4	4	5	7
Indiana .....	2	5	5	2	4
Kansas .....	4	13	7	8	20
Kentucky .....	26	21	17	18	29
Louisiana .....	1	3	(Z)	6	8
Maryland .....	23	32	26	12	26
Mississippi .....	1	1	2	2	7
Missouri .....	8	6	6	6	11
New Jersey .....	6	14	4	3	30
North Carolina .....	26	27	43	23	35
Ohio .....	1	3	1	2	3
Oklahoma .....	37	24	52	37	54
Pennsylvania .....	14	20	27	26	23
South Carolina .....	24	23	18	15	19
Tennessee .....	20	9	27	21	23
Texas .....	(D)	10	(D)	(D)	20
Virginia .....	50	28	25	17	28
United States .....	4	5	5	4	7

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

(Z) Less than half of the unit shown.

<sup>1</sup> Data for 2023 is updated from original data published in *Acreage* report. Prior to 2023, data in this table are original data published in *Acreage* report.

## Soybean Objective Yield Data

The National Agricultural Statistics Service conducted an objective yield survey in 11 soybean producing States during 2023. 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: 2019-2023

State and month	2019	2020	2021	2022	2023	State and month	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)		(number)	(number)	(number)	(number)	(number)
<b>Arkansas</b>						<b>Missouri</b>					
September .....	1,759	1,630	1,449	1,721	2,043	September .....	1,719	1,977	1,925	1,736	2,099
October .....	1,731	1,527	1,501	1,746	1,844	October .....	1,754	2,093	1,886	1,606	1,991
November .....	1,717	1,459	1,583	1,711	1,856	November .....	1,898	2,036	2,047	1,880	2,062
Final .....	1,828	1,418	1,623	1,711	1,824	Final .....	1,921	2,041	2,121	1,875	2,058
<b>Illinois</b>						<b>Nebraska</b>					
September .....	1,696	2,019	2,080	1,896	1,952	September .....	1,669	1,943	1,887	1,592	1,644
October .....	1,683	2,127	2,120	1,888	2,085	October .....	1,777	2,002	2,069	1,597	1,678
November .....	1,601	2,170	2,222	2,010	2,121	November .....	1,722	1,980	2,148	1,586	1,709
Final .....	1,603	2,170	2,227	2,011	2,121	Final .....	1,722	1,980	2,148	1,586	1,709
<b>Indiana</b>						<b>North Dakota</b>					
September .....	1,496	2,056	1,846	1,655	1,927	September .....	1,147	1,242	1,055	1,281	1,250
October .....	1,501	1,994	1,811	1,749	1,998	October .....	1,246	1,439	1,014	1,298	1,203
November .....	1,569	1,963	1,822	1,763	1,962	November .....	1,253	1,442	1,009	1,357	1,408
Final .....	1,561	1,959	1,836	1,773	1,962	Final .....	1,195	1,442	1,009	1,357	1,404
<b>Iowa</b>						<b>Ohio</b>					
September .....	1,601	1,675	1,732	1,585	1,814	September .....	1,563	1,811	2,060	1,798	1,847
October .....	1,642	1,933	1,800	1,653	1,997	October .....	1,760	1,972	1,989	1,890	2,003
November .....	1,660	1,927	1,894	1,785	2,071	November .....	1,587	1,983	2,074	1,788	2,030
Final .....	1,682	1,927	1,890	1,780	2,070	Final .....	1,587	1,981	2,116	1,780	2,030
<b>Kansas</b>						<b>South Dakota</b>					
September .....	1,561	1,650	1,404	1,456	1,500	September .....	1,504	1,688	1,626	1,258	1,520
October .....	1,604	1,699	1,480	1,400	1,372	October .....	1,316	1,720	1,526	1,291	1,552
November .....	1,596	1,629	1,551	1,392	1,500	November .....	1,331	1,696	1,512	1,305	1,644
Final .....	1,583	1,629	1,514	1,391	1,529	Final .....	1,353	1,696	1,522	1,305	1,644
<b>Minnesota</b>						<b>11-State</b>					
September .....	1,465	1,607	1,603	1,468	1,648	September .....	1,561	1,780	1,717	1,604	1,755
October .....	1,474	1,782	1,545	1,581	1,695	October .....	1,593	1,882	1,725	1,628	1,799
November .....	1,458	1,751	1,557	1,610	1,687	November .....	1,582	1,866	1,788	1,690	1,856
Final .....	1,458	1,751	1,557	1,610	1,667	Final .....	1,586	1,865	1,798	1,689	1,854

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## Soybean Frequency of Farmer Reported Row Widths – Selected States: 2019-2023

State and year	Row width (inches)				
	Less than 7.5 <sup>1</sup>	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
Arkansas ..... 2019	-	14	13	21	25
..... 2020	5	14	14	36	49
..... 2021	2	13	16	29	42
..... 2022	6	18	15	31	44
..... 2023	2	10	10	51	44
Illinois ..... 2019	2	5	82	33	1
..... 2020	-	11	91	44	-
..... 2021	2	7	80	38	-
..... 2022	3	3	93	44	1
..... 2023	3	7	84	39	-
Indiana ..... 2019	-	5	57	9	1
..... 2020	1	11	87	8	-
..... 2021	1	14	60	8	-
..... 2022	-	11	56	6	-
..... 2023	-	11	68	11	-
Iowa ..... 2019	1	9	51	66	-
..... 2020	1	8	63	85	3
..... 2021	2	3	61	69	1
..... 2022	-	4	74	71	1
..... 2023	-	3	65	74	-
Kansas ..... 2019	-	10	23	16	-
..... 2020	1	9	19	27	-
..... 2021	1	12	15	16	1
..... 2022	1	5	24	19	-
..... 2023	1	6	18	21	-
Minnesota ..... 2019	3	5	26	28	1
..... 2020	3	5	35	51	1
..... 2021	1	2	22	38	-
..... 2022	1	3	30	42	-
..... 2023	-	3	18	40	-
Missouri ..... 2019	1	5	38	10	1
..... 2020	-	13	63	20	11
..... 2021	1	6	48	21	5
..... 2022	-	7	60	16	6
..... 2023	4	8	64	8	6
Nebraska ..... 2019	-	6	37	49	5
..... 2020	-	8	39	58	1
..... 2021	1	9	31	50	4
..... 2022	2	5	25	52	7
..... 2023	-	9	33	48	2

See footnote(s) at end of table.

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**Soybean Frequency of Farmer Reported Row Widths – Selected States: 2019-2023 (continued)**

State and year	Row width (inches)				
	Less than 7.5 <sup>1</sup>	7.5	15	30	More than 30
	(number)	(number)	(number)	(number)	(number)
North Dakota .....2019	3	11	28	6	-
2020	7	27	48	11	-
2021	-	16	55	13	-
2022	6	24	47	15	-
2023	1	26	41	14	-
Ohio .....2019	2	11	42	1	-
2020	3	30	82	5	-
2021	2	21	64	3	1
2022	7	25	71	5	1
2023	2	13	82	8	-
South Dakota .....2019	4	-	18	30	-
2020	-	-	43	44	-
2021	-	3	26	38	-
2022	-	4	22	47	1
2023	1	5	27	37	1

- Represents zero.

<sup>1</sup> Includes broadcast soybeans.

**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States: 2019-2023**

State and year	Samples	Row width (inches)					row width <sup>1</sup>	
		10.0 or less <sup>1</sup>	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
Arkansas .....	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
	2022	113	13.3	14.6	2.7	25.7	43.7	28.3
	2023	118	10.6	5.5	4.2	39.9	39.8	30.4
Illinois .....	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
	2022	144	1.0	55.8	13.9	27.9	1.4	20.3
	2023	131	3.8	52.4	13.7	29.0	1.1	20.6
Indiana .....	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
	2022	71	9.2	71.6	12.1	7.1	-	16.0
	2023	88	6.3	73.1	10.9	9.7	-	16.9
Iowa .....	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
	2022	153	2.9	39.9	8.2	49.0	-	23.0
	2023	143	2.1	39.5	10.8	47.6	-	22.9
Kansas .....	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
	2022	48	9.4	44.7	4.2	41.7	-	20.9
	2023	42	-	44.2	14.0	39.5	2.3	22.1
Minnesota .....	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
	2022	77	2.6	20.1	21.4	55.9	-	24.8
	2023	60	4.2	17.5	20.0	57.5	0.8	25.2
Missouri .....	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
	2022	90	6.7	59.9	8.9	17.8	6.7	19.5
	2023	95	8.4	60.5	7.4	18.4	5.3	19.0
Nebraska .....	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
	2022	87	6.9	21.8	4.6	59.8	6.9	25.9
	2023	90	5.0	26.8	14.5	48.7	5.0	24.2

See footnote(s) at end of table.

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**Soybean Percentage Distribution by Measured Row Width and Average Row Width – Selected States:  
2019-2023 (continued)**

State and year	Samples	Row width (inches)					row width <sup>1</sup>	
		10.0 or less <sup>1</sup>	10.1-18.5	18.6-28.5	28.6-34.5	34.6 or greater		
	(number)	(percent)	(percent)	(percent)	(percent)	(percent)	(inches)	
North Dakota .....	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
	2022	95	23.2	47.3	12.6	15.3	1.6	16.9
	2023	81	21.1	42.3	21.1	15.5	-	17.3
Ohio .....	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
	2022	107	19.6	72.5	2.8	4.2	0.9	14.7
	2023	105	11.9	75.7	6.7	5.7	-	15.7
South Dakota .....	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
	2022	74	2.0	14.9	22.3	59.4	1.4	25.7
	2023	71	2.8	16.2	23.2	55.7	2.1	25.3

- Represents zero.

<sup>1</sup> 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: 2021-2023

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Montana .....	135	98	68	109	80	57
North Dakota .....	190	165	110	171	162	103
United States .....	325	263	178	280	242	160
State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Montana .....	5.0	11.0	14.0	545	880	798
North Dakota .....	13.0	21.0	21.0	2,223	3,402	2,163
United States .....	9.9	17.7	18.5	2,768	4,282	2,961

### Safflower Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California .....	39.0	50.0	22.0	38.5	48.0	21.5
Idaho .....	32.0	25.5	26.0	30.5	24.5	25.5
Montana .....	40.0	44.0	47.0	33.0	35.0	46.0
South Dakota .....	16.0	17.7	17.0	13.8	16.0	16.5
Utah .....	22.5	11.0	17.5	16.0	10.0	16.5
United States .....	149.5	148.2	129.5	131.8	133.5	126.0
State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
California .....	2,100	2,250	2,100	80,850	108,000	45,150
Idaho .....	470	600	840	14,335	14,700	21,420
Montana .....	570	590	760	18,810	20,650	34,960
South Dakota .....	750	800	1,100	10,350	12,800	18,150
Utah .....	460	530	660	7,360	5,300	10,890
United States .....	999	1,209	1,036	131,705	161,450	130,570

**Other Oilseed Area Planted and Harvested, Yield, and Production by Crop – United States: 2021-2023**

Crop	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Rapeseed <sup>1</sup> .....	14.7	10.9	13.2	12.9	10.4	10.1
Mustard seed <sup>2</sup> .....	100.0	214.5	245.0	86.3	175.7	238.1
State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(pounds)	(pounds)	(pounds)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Rapeseed <sup>1</sup> .....	1,815	1,888	2,003	23,416	19,640	20,230
Mustard seed <sup>2</sup> .....	486	554	627	41,954	97,290	149,305

<sup>1</sup> Other States include Delaware, Idaho, Kentucky, North Carolina, Pennsylvania, South Carolina, Tennessee, and Virginia.

<sup>2</sup> Other States include Idaho, Montana, and North Dakota.

**Cotton Area Planted and Harvested, Yield, and Production by Type – States and United States: 2021-2023**

Type and State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Upland</b>						
Alabama .....	405.0	435.0	380.0	401.0	430.0	376.0
Arizona .....	120.0	87.0	76.0	119.0	86.0	75.0
Arkansas .....	480.0	640.0	510.0	475.0	625.0	505.0
California .....	26.0	19.0	13.0	25.5	18.5	12.8
Florida .....	92.0	106.0	89.0	90.0	103.0	87.0
Georgia .....	1,170.0	1,290.0	1,110.0	1,160.0	1,270.0	1,100.0
Kansas .....	110.0	163.0	112.0	102.0	136.0	99.0
Louisiana .....	110.0	195.0	120.0	104.0	190.0	115.0
Mississippi .....	445.0	530.0	400.0	430.0	525.0	395.0
Missouri .....	315.0	360.0	335.0	310.0	340.0	330.0
New Mexico .....	37.0	66.0	32.0	27.0	29.0	22.0
North Carolina .....	375.0	470.0	380.0	365.0	460.0	370.0
Oklahoma .....	485.0	660.0	420.0	430.0	220.0	190.0
South Carolina .....	210.0	270.0	210.0	207.0	266.0	208.0
Tennessee .....	275.0	335.0	265.0	270.0	325.0	260.0
Texas .....	6,350.0	7,850.0	5,550.0	5,550.0	2,000.0	2,700.0
Virginia .....	75.0	91.0	81.0	74.0	90.0	80.0
United States .....	11,080.0	13,567.0	10,083.0	10,139.5	7,113.5	6,924.8
<b>American Pima</b>						
Arizona .....	9.0	15.0	16.0	8.8	14.4	16.0
California .....	88.0	115.0	86.0	87.0	114.0	84.0
New Mexico .....	12.5	19.0	16.0	11.9	18.7	15.8
Texas .....	17.0	33.0	29.0	16.0	29.0	24.0
United States .....	126.5	182.0	147.0	123.7	176.1	139.8
<b>All</b>						
Alabama .....	405.0	435.0	380.0	401.0	430.0	376.0
Arizona .....	129.0	102.0	92.0	127.8	100.4	91.0
Arkansas .....	480.0	640.0	510.0	475.0	625.0	505.0
California .....	114.0	134.0	99.0	112.5	132.5	96.8
Florida .....	92.0	106.0	89.0	90.0	103.0	87.0
Georgia .....	1,170.0	1,290.0	1,110.0	1,160.0	1,270.0	1,100.0
Kansas .....	110.0	163.0	112.0	102.0	136.0	99.0
Louisiana .....	110.0	195.0	120.0	104.0	190.0	115.0
Mississippi .....	445.0	530.0	400.0	430.0	525.0	395.0
Missouri .....	315.0	360.0	335.0	310.0	340.0	330.0
New Mexico .....	49.5	85.0	48.0	38.9	47.7	37.8
North Carolina .....	375.0	470.0	380.0	365.0	460.0	370.0
Oklahoma .....	485.0	660.0	420.0	430.0	220.0	190.0
South Carolina .....	210.0	270.0	210.0	207.0	266.0	208.0
Tennessee .....	275.0	335.0	265.0	270.0	325.0	260.0
Texas .....	6,367.0	7,883.0	5,579.0	5,566.0	2,029.0	2,724.0
Virginia .....	75.0	91.0	81.0	74.0	90.0	80.0
United States .....	11,206.5	13,749.0	10,230.0	10,263.2	7,289.6	7,064.6

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:  
2021-2023 (continued)**

Type and State	Yield per acre			Production <sup>1</sup>		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 bales) <sup>2</sup>	2022 (1,000 bales) <sup>2</sup>	2023 (1,000 bales) <sup>2</sup>
<b>Upland</b>						
Alabama .....	826	930	913	690.0	833.0	715.0
Arizona .....	1,275	1,563	1,568	316.0	280.0	245.0
Arkansas .....	1,248	1,189	1,340	1,235.0	1,548.0	1,410.0
California .....	1,920	1,946	1,838	102.0	75.0	49.0
Florida .....	640	769	634	120.0	165.0	115.0
Georgia .....	914	1,002	982	2,210.0	2,650.0	2,250.0
Kansas .....	880	586	815	187.0	166.0	168.0
Louisiana .....	1,011	904	877	219.0	358.0	210.0
Mississippi .....	997	1,084	1,082	893.0	1,186.0	890.0
Missouri .....	1,260	1,240	1,338	814.0	878.0	920.0
New Mexico .....	1,067	993	1,200	60.0	60.0	55.0
North Carolina .....	1,017	1,049	947	773.0	1,005.0	730.0
Oklahoma .....	774	663	783	693.0	304.0	310.0
South Carolina .....	986	911	912	425.0	505.0	395.0
Tennessee .....	1,036	1,053	1,237	583.0	713.0	670.0
Texas .....	666	734	498	7,700.0	3,060.0	2,800.0
Virginia .....	1,109	1,131	1,170	171.0	212.0	195.0
United States .....	814	945	841	17,191.0	13,998.0	12,127.0
<b>American Pima</b>						
Arizona .....	982	933	960	18.0	28.0	32.0
California .....	1,501	1,558	1,286	272.0	370.0	225.0
New Mexico .....	645	719	759	16.0	28.0	25.0
Texas .....	780	728	500	26.0	44.0	25.0
United States .....	1,288	1,281	1,054	332.0	470.0	307.0
<b>All</b>						
Alabama .....	826	930	913	690.0	833.0	715.0
Arizona .....	1,254	1,473	1,461	334.0	308.0	277.0
Arkansas .....	1,248	1,189	1,340	1,235.0	1,548.0	1,410.0
California .....	1,596	1,612	1,359	374.0	445.0	274.0
Florida .....	640	769	634	120.0	165.0	115.0
Georgia .....	914	1,002	982	2,210.0	2,650.0	2,250.0
Kansas .....	880	586	815	187.0	166.0	168.0
Louisiana .....	1,011	904	877	219.0	358.0	210.0
Mississippi .....	997	1,084	1,082	893.0	1,186.0	890.0
Missouri .....	1,260	1,240	1,338	814.0	878.0	920.0
New Mexico .....	938	886	1,016	76.0	88.0	80.0
North Carolina .....	1,017	1,049	947	773.0	1,005.0	730.0
Oklahoma .....	774	663	783	693.0	304.0	310.0
South Carolina .....	986	911	912	425.0	505.0	395.0
Tennessee .....	1,036	1,053	1,237	583.0	713.0	670.0
Texas .....	666	734	498	7,726.0	3,104.0	2,825.0
Virginia .....	1,109	1,131	1,170	171.0	212.0	195.0
United States .....	820	953	845	17,523.0	14,468.0	12,434.0

<sup>1</sup> Production ginned and to be ginned.

<sup>2</sup> 480-pound net weight bale.

## Cottonseed Production – States and United States: 2021-2023

State	Production		
	2021 (1,000 tons)	2022 (1,000 tons)	2023 <sup>1</sup> (1,000 tons)
Alabama .....	200.0	236.0	204.0
Arizona .....	113.0	121.0	99.0
Arkansas .....	390.0	489.0	445.0
California .....	128.0	153.0	95.0
Florida .....	34.0	48.0	33.0
Georgia .....	612.0	757.0	634.0
Kansas .....	57.0	50.0	53.0
Louisiana .....	68.0	109.0	66.0
Mississippi .....	276.0	374.0	279.0
Missouri .....	245.0	317.0	311.0
New Mexico .....	24.0	23.0	24.0
North Carolina .....	218.0	295.0	213.0
Oklahoma .....	205.0	93.0	94.0
South Carolina .....	119.0	141.0	112.0
Tennessee .....	183.0	208.0	197.0
Texas .....	2,403.0	940.0	875.0
Virginia .....	48.0	61.0	54.0
United States .....	5,323.0	4,415.0	3,788.0

<sup>1</sup> Estimates based on 3-year average lint-seed ratio.

## Tobacco Area Harvested, Yield, and Production – States and United States: 2021-2023

State	Area harvested			Yield per acre		
	2021	2022	2023	2021	2022	2023
	(acres)	(acres)	(acres)	(pounds)	(pounds)	(pounds)
Georgia .....	7,700	6,000	6,300	1,700	1,950	2,150
Kentucky .....	46,000	43,000	36,800	2,351	2,196	2,327
North Carolina .....	118,200	115,160	113,120	2,099	2,149	2,299
Pennsylvania .....	3,950	3,400	3,140	2,666	2,582	2,494
South Carolina .....	7,300	5,800	5,900	1,650	2,000	1,950
Tennessee .....	11,600	12,500	9,300	2,534	2,676	2,495
Virginia .....	14,680	12,420	13,070	2,390	2,440	2,343
United States .....	209,430	198,280	187,630	2,179	2,208	2,305

  

State	Production		
	2021	2022	2023
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Georgia .....	13,090	11,700	13,545
Kentucky .....	108,160	94,425	85,645
North Carolina .....	248,120	247,522	260,098
Pennsylvania .....	10,530	8,780	7,830
South Carolina .....	12,045	11,600	11,505
Tennessee .....	29,390	33,445	23,205
Virginia .....	35,088	30,303	30,624
United States .....	456,423	437,775	432,452

**Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States: 2021-2023**

Class, type, and State	Area harvested		
	2021 (acres)	2022 (acres)	2023 (acres)
<b>Class 1, Flue-cured (11-14)</b>			
Georgia .....	7,700	6,000	6,300
North Carolina .....	118,000	115,000	113,000
South Carolina .....	7,300	5,800	5,900
Virginia .....	14,200	12,100	12,800
United States .....	147,200	138,900	138,000
<b>Class 2, Fire-cured (21-23)</b>			
Kentucky .....	8,400	9,500	6,300
Tennessee .....	5,900	6,300	5,100
Virginia .....	150	120	100
United States .....	14,450	15,920	11,500
<b>Class 3A, Light air-cured</b>			
Type 31, Burley			
Kentucky .....	32,000	28,000	27,000
North Carolina .....	200	160	120
Pennsylvania .....	1,800	1,300	1,100
Tennessee .....	2,300	2,700	3,000
Virginia .....	330	200	170
United States .....	36,630	32,360	31,390
Type 32, Southern Maryland			
Pennsylvania .....	150	100	40
United States .....	150	100	40
<b>Total light air-cured (31-32)</b> .....	36,780	32,460	31,430
<b>Class 3B, Dark air-cured (35-37)</b>			
Kentucky .....	5,600	5,500	3,500
Tennessee .....	3,400	3,500	1,200
United States .....	9,000	9,000	4,700
<b>Class 4, Cigar filler</b>			
Type 41, Pennsylvania Seedleaf			
Pennsylvania .....	2,000	2,000	2,000
United States .....	2,000	2,000	2,000
<b>All Tobacco</b>			
United States .....	209,430	198,280	187,630

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**Tobacco Area Harvested, Yield, and Production by Class and Type – States and United States:  
2021-2023 (continued)**

Class, type, and State	Yield per acre			Production		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 pounds)	2022 (1,000 pounds)	2023 (1,000 pounds)
<b>Class 1, Flue-cured (11-14)</b>						
Georgia .....	1,700	1,950	2,150	13,090	11,700	13,545
North Carolina .....	2,100	2,150	2,300	247,800	247,250	259,900
South Carolina .....	1,650	2,000	1,950	12,045	11,600	11,505
Virginia .....	2,400	2,450	2,350	34,080	29,645	30,080
United States .....	2,086	2,161	2,283	307,015	300,195	315,030
<b>Class 2, Fire-cured (21-23)</b>						
Kentucky .....	3,300	3,100	3,150	27,720	29,450	19,845
Tennessee .....	3,100	3,200	3,050	18,290	20,160	15,555
Virginia .....	2,100	2,150	1,950	315	258	195
United States .....	3,206	3,132	3,095	46,325	49,868	35,595
<b>Class 3A, Light air-cured</b>						
Type 31, Burley						
Kentucky .....	2,050	1,800	2,100	65,600	50,400	56,700
North Carolina .....	1,600	1,700	1,650	320	272	198
Pennsylvania .....	2,850	2,500	2,500	5,130	3,250	2,750
Tennessee .....	1,500	1,550	1,550	3,450	4,185	4,650
Virginia .....	2,100	2,000	2,050	693	400	349
United States .....	2,053	1,808	2,059	75,193	58,507	64,647
Type 32, Southern Maryland Belt						
Pennsylvania .....	2,000	2,300	2,000	300	230	80
United States .....	2,000	2,300	2,000	300	230	80
<b>Total light air-cured (31-32) .....</b>	<b>2,053</b>	<b>1,810</b>	<b>2,059</b>	<b>75,493</b>	<b>58,737</b>	<b>64,727</b>
<b>Class 3B, Dark air-cured (35-37)</b>						
Kentucky .....	2,650	2,650	2,600	14,840	14,575	9,100
Tennessee .....	2,250	2,600	2,500	7,650	9,100	3,000
United States .....	2,499	2,631	2,574	22,490	23,675	12,100
<b>Class 4, Cigar filler</b>						
Type 41, Pennsylvania Seedleaf						
Pennsylvania .....	2,550	2,650	2,500	5,100	5,300	5,000
United States .....	2,550	2,650	2,500	5,100	5,300	5,000
<b>All tobacco</b>						
United States .....	2,179	2,208	2,305	456,423	437,775	432,452

## Sugarbeet Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

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

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California <sup>1</sup> .....	24.0	18.0	23.0	23.7	18.0	22.6
Colorado .....	24.3	23.4	23.2	23.6	20.5	21.3
Idaho .....	173.0	173.0	175.0	171.0	170.0	174.0
Michigan .....	155.0	139.0	133.0	142.0	138.0	132.0
Minnesota .....	427.0	434.0	442.0	396.0	431.0	438.0
Montana .....	43.7	33.7	23.7	43.5	33.6	23.3
Nebraska .....	44.4	46.8	46.7	43.8	39.6	46.6
North Dakota .....	226.0	251.0	229.0	222.0	249.0	228.0
Oregon .....	10.5	9.4	10.8	10.4	7.9	10.7
Washington .....	1.9	2.0	2.0	1.9	2.0	2.0
Wyoming .....	31.2	29.3	29.0	30.6	27.9	28.8
United States .....	1,161.0	1,159.6	1,137.4	1,108.5	1,137.5	1,127.3

  

State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(tons)	(tons)	(tons)	(1,000 tons)	(1,000 tons)	(1,000 tons)
California <sup>1</sup> .....	45.4	48.8	48.8	1,076	878	1,103
Colorado .....	33.7	28.7	28.3	795	588	603
Idaho .....	39.5	38.1	40.0	6,755	6,477	6,960
Michigan .....	37.4	28.8	33.9	5,311	3,974	4,475
Minnesota .....	31.0	25.7	28.7	12,276	11,077	12,571
Montana .....	29.8	30.5	31.6	1,296	1,025	736
Nebraska .....	31.9	24.2	28.6	1,397	958	1,333
North Dakota .....	29.2	26.1	26.8	6,482	6,499	6,110
Oregon .....	37.9	33.9	36.4	394	268	389
Washington .....	45.9	44.1	49.7	87	88	99
Wyoming .....	29.5	29.1	29.4	903	812	847
United States .....	33.2	28.7	31.2	36,772	32,644	35,226

<sup>1</sup> Relates to year of planting for overwintered beets in southern California.

## Sugarcane Area Harvested, Yield, and Production – States and United States: 2021-2023

State	Area harvested			Yield per acre <sup>1</sup>		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(tons)	(tons)	(tons)
<b>For sugar</b>						
Florida .....	388.0	386.0	387.0	42.4	44.5	44.2
Louisiana .....	466.0	474.0	484.0	29.0	32.1	28.5
Texas .....	34.3	30.9	16.2	30.8	22.6	22.7
United States .....	888.3	890.9	887.2	34.9	37.1	35.2
<b>For seed</b>						
Florida .....	15.5	15.9	17.1	47.5	47.4	48.4
Louisiana .....	29.3	23.1	24.6	34.5	35.5	32.4
Texas .....	2.1	0.3	2.6	33.5	24.6	24.7
United States .....	46.9	39.3	44.3	38.7	40.2	38.1
<b>For sugar and seed</b>						
Florida .....	403.5	401.9	404.1	42.6	44.6	44.4
Louisiana .....	495.3	497.1	508.6	29.3	32.3	28.7
Texas .....	36.4	31.2	18.8	30.9	22.6	23.0
United States .....	935.2	930.2	931.5	35.1	37.3	35.4
State	Production <sup>1</sup>					
	2021	2022	2023			
	(1,000 tons)	(1,000 tons)	(1,000 tons)			
<b>For sugar</b>						
Florida .....	16,451	17,177	17,105			
Louisiana .....	13,514	15,215	13,794			
Texas .....	1,056	698	368			
United States .....	31,021	33,090	31,267			
<b>For seed</b>						
Florida .....	736	754	828			
Louisiana .....	1,011	820	797			
Texas .....	70	7	64			
United States .....	1,817	1,581	1,689			
<b>For sugar and seed</b>						
Florida .....	17,187	17,931	17,933			
Louisiana .....	14,525	16,035	14,591			
Texas .....	1,126	705	432			
United States .....	32,838	34,671	32,956			

<sup>1</sup> Net tons.

## Potato Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California .....	26.0	21.0	23.0	25.4	20.9	22.9
Colorado .....	53.0	53.0	55.0	52.4	52.9	54.8
Florida .....	21.0	20.0	21.0	20.0	19.7	20.9
Idaho .....	315.0	295.0	330.0	314.5	294.5	329.5
Maine .....	54.0	52.0	53.0	53.3	51.9	52.6
Michigan .....	50.0	51.0	50.0	49.0	50.5	49.5
Minnesota .....	42.0	47.0	46.0	41.3	46.7	45.6
Nebraska .....	19.0	20.0	22.0	18.9	19.9	21.9
North Dakota .....	76.0	74.0	76.0	75.0	72.5	75.0
Oregon .....	45.0	44.0	45.0	44.8	44.0	45.0
Texas .....	15.0	15.0	16.0	14.0	14.7	15.5
Washington .....	155.0	165.0	160.0	154.5	164.5	159.5
Wisconsin .....	68.0	66.0	68.0	66.5	65.5	67.5
United States .....	939.0	923.0	965.0	929.6	918.2	960.2
State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(cwt)	(cwt)	(cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
California .....	435	405	460	11,049	8,465	10,534
Colorado .....	410	405	385	21,484	21,425	21,098
Florida .....	270	255	300	5,400	5,024	6,270
Idaho .....	420	410	440	132,090	120,745	144,980
Maine .....	345	355	340	18,389	18,425	17,884
Michigan .....	430	415	435	21,070	20,958	21,533
Minnesota .....	425	410	400	17,553	19,147	18,240
Nebraska .....	490	485	500	9,261	9,652	10,950
North Dakota .....	300	300	350	22,500	21,750	26,250
Oregon .....	600	600	610	26,880	26,400	27,450
Texas .....	460	575	420	6,440	8,453	6,510
Washington .....	595	580	625	91,928	95,410	99,688
Wisconsin .....	430	400	435	28,595	26,200	29,363
United States .....	444	438	459	412,639	402,054	440,750

## Dry Edible Bean Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

[Excludes chickpeas]

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
California .....	15.0	12.0	16.0	14.1	11.9	15.6
Colorado .....	32.0	34.0	33.0	31.6	32.5	29.7
Idaho .....	51.0	36.0	35.0	50.2	35.3	34.7
Michigan .....	210.0	215.0	210.0	207.0	211.5	208.0
Minnesota .....	240.0	215.0	210.0	232.0	212.0	207.0
Nebraska .....	120.0	115.0	100.0	114.0	108.3	92.0
North Dakota .....	660.0	570.0	530.0	615.0	565.0	525.0
Washington .....	41.0	29.0	32.0	40.4	28.7	31.6
Wyoming .....	17.0	15.0	14.0	15.8	14.0	13.3
United States .....	1,386.0	1,241.0	1,180.0	1,320.1	1,219.2	1,156.9
State	Yield per acre <sup>1</sup>			Production <sup>1</sup>		
	2021	2022	2023	2021	2022	2023
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
California .....	2,430	2,340	2,150	342	279	336
Colorado .....	1,890	2,030	1,830	596	660	543
Idaho .....	2,600	2,390	2,470	1,306	843	858
Michigan .....	2,410	2,400	2,440	4,989	5,083	5,066
Minnesota .....	1,970	2,320	2,430	4,559	4,926	5,030
Nebraska .....	2,440	2,300	2,140	2,780	2,491	1,966
North Dakota .....	1,030	1,840	1,700	6,336	10,401	8,939
Washington .....	2,770	2,620	2,760	1,118	752	873
Wyoming .....	2,410	2,140	2,250	381	299	299
United States .....	1,697	2,111	2,067	22,407	25,734	23,910

<sup>1</sup> Clean basis.

**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2021-2023**

Class and State	Area planted			Area harvested		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)
<b>Large lima</b>						
California .....	4.5	5.6	5.1	4.4	5.6	5.0
Colorado .....	-	-	-	-	-	-
Idaho .....	(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 <sup>1</sup> .....	1.6	1.1	2.4	1.6	1.1	2.4
United States .....	6.1	6.7	7.5	6.0	6.7	7.4
<b>Baby lima</b>						
California .....	2.9	2.4	4.7	2.8	2.4	4.6
Colorado .....	-	-	-	-	-	-
Idaho .....	0.7	(D)	(D)	0.6	(D)	(D)
Michigan .....	(D)	(D)	-	(D)	(D)	-
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	-	-	-	-	-	-
North Dakota .....	-	-	-	-	-	-
Washington .....	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming .....	-	-	-	-	-	-
Other States <sup>1</sup> .....	3.3	3.5	1.0	3.3	3.5	1.0
United States .....	6.9	5.9	5.7	6.7	5.9	5.6
<b>Navy</b>						
California .....	-	-	-	-	-	-
Colorado .....	(D)	-	-	(D)	-	-
Idaho .....	(D)	(D)	0.5	(D)	(D)	0.5
Michigan .....	68.0	60.0	46.0	67.6	58.5	45.6
Minnesota .....	50.5	47.9	46.1	48.9	47.4	45.8
Nebraska .....	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota .....	76.0	54.0	42.0	70.0	53.4	41.6
Washington .....	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming .....	-	-	-	-	-	-
Other States <sup>1</sup> .....	1.3	0.6	1.1	1.3	0.6	1.1
United States .....	195.8	162.5	135.7	187.8	159.9	134.6

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2021-2023 (continued)**

Class and State	Yield per acre <sup>2</sup>			Production <sup>2</sup>		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 cwt)	2022 (1,000 cwt)	2023 (1,000 cwt)
<b>Large lima</b>						
California .....	2,500	2,390	2,100	110	134	105
Colorado .....	(X)	(X)	(X)	-	-	-
Idaho .....	(D)	(X)	(D)	(D)	-	(D)
Michigan .....	(D)	(X)	(X)	(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 <sup>1</sup> .....	2,188	2,455	2,875	35	27	69
United States .....	2,417	2,403	2,351	145	161	174
<b>Baby lima</b>						
California .....	2,400	2,450	2,300	67	59	106
Colorado .....	(X)	(X)	(X)	-	-	-
Idaho .....	2,150	(D)	(D)	13	(D)	(D)
Michigan .....	(D)	(D)	(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 <sup>1</sup> .....	2,394	1,971	2,500	79	69	25
United States .....	2,373	2,169	2,339	159	128	131
<b>Navy</b>						
California .....	(X)	(X)	(X)	-	-	-
Colorado .....	(D)	(X)	(X)	(D)	-	-
Idaho .....	(D)	(D)	2,610	(D)	(D)	13
Michigan .....	2,700	2,420	2,530	1,825	1,416	1,154
Minnesota .....	1,700	2,280	2,620	831	1,081	1,200
Nebraska .....	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota .....	1,150	2,040	1,950	805	1,089	811
Washington .....	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming .....	(X)	(X)	(X)	-	-	-
Other States <sup>1</sup> .....	2,231	3,000	2,727	29	18	30
United States .....	1,858	2,254	2,383	3,490	3,604	3,208

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: 2021-2023 (continued)**

Class and State	Area planted			Area harvested		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)
<b>Great northern</b>						
California .....	-	-	-	-	-	-
Colorado .....	(D)	-	(D)	(D)	-	(D)
Idaho .....	2.6	1.6	1.2	2.6	1.6	1.2
Michigan .....	(D)	1.2	2.0	(D)	1.2	2.0
Minnesota .....	(D)	-	(D)	(D)	-	(D)
Nebraska .....	36.5	22.3	32.9	34.4	20.3	30.3
North Dakota .....	9.4	(D)	(D)	8.6	(D)	(D)
Washington .....	1.2	(D)	0.9	1.2	(D)	0.9
Wyoming .....	0.6	(D)	(D)	0.5	(D)	(D)
Other States <sup>1</sup> .....	3.6	1.4	6.3	3.6	1.3	5.9
United States .....	53.9	26.5	43.3	50.9	24.4	40.3
<b>Small white</b>						
California .....	-	-	-	-	-	-
Colorado .....	(D)	-	-	(D)	-	-
Idaho .....	2.4	1.1	(D)	2.3	1.1	(D)
Michigan .....	(D)	1.6	(D)	(D)	1.6	(D)
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota .....	-	-	-	-	-	-
Washington .....	1.2	(D)	(D)	1.1	(D)	(D)
Wyoming .....	-	-	-	-	-	-
Other States <sup>1</sup> .....	2.4	1.2	5.5	2.4	1.2	5.5
United States .....	6.0	3.9	5.5	5.8	3.9	5.5

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: 2021-2023 (continued)**

Class and State	Yield per acre <sup>2</sup>			Production <sup>2</sup>		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 cwt)	2022 (1,000 cwt)	2023 (1,000 cwt)
<b>Great northern</b>						
California .....	(X)	(X)	(X)	-	-	-
Colorado .....	(D)	(X)	(D)	(D)	-	(D)
Idaho .....	2,660	2,240	2,100	69	36	25
Michigan .....	(D)	2,190	1,900	(D)	26	38
Minnesota .....	(D)	(X)	(D)	(D)	-	(D)
Nebraska .....	2,540	2,310	2,190	874	469	664
North Dakota .....	1,220	(D)	(D)	105	(D)	(D)
Washington .....	2,350	(D)	2,870	28	(D)	26
Wyoming .....	2,170	(D)	(D)	11	(D)	(D)
Other States <sup>1</sup> .....	1,778	1,923	2,203	64	25	130
United States .....	2,261	2,279	2,191	1,151	556	883
<b>Small white</b>						
California .....	(X)	(X)	(X)	-	-	-
Colorado .....	(D)	(X)	(X)	(D)	-	-
Idaho .....	2,580	1,810	(D)	59	20	(D)
Michigan .....	(D)	2,370	(D)	(D)	38	(D)
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota .....	(X)	(X)	(X)	-	-	-
Washington .....	2,800	(D)	(D)	31	(D)	(D)
Wyoming .....	(X)	(X)	(X)	-	-	-
Other States <sup>1</sup> .....	2,125	2,500	2,582	51	30	142
United States .....	2,431	2,256	2,582	141	88	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: 2021-2023 (continued)**

Class and State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Pinto</b>						
California .....	-	(D)	(D)	-	(D)	(D)
Colorado .....	19.8	22.5	17.2	19.6	21.4	16.2
Idaho .....	19.0	14.0	13.8	18.9	13.9	13.7
Michigan .....	2.5	(D)	(D)	2.5	(D)	(D)
Minnesota .....	18.2	12.7	13.0	17.1	12.5	12.6
Nebraska .....	58.0	75.0	49.1	55.4	71.4	44.8
North Dakota .....	457.0	414.0	377.0	423.0	411.0	374.0
Washington .....	11.2	10.1	10.3	11.0	9.9	10.1
Wyoming .....	13.8	13.3	11.7	12.8	12.3	11.2
Other States <sup>1</sup> .....	-	1.2	4.1	-	1.2	4.0
United States .....	599.5	562.8	496.2	560.3	553.6	486.6
<b>Light red kidney</b>						
California .....	(D)	(D)	-	(D)	(D)	-
Colorado .....	5.6	3.5	(D)	5.6	3.5	(D)
Idaho .....	1.4	2.6	1.9	1.4	2.6	1.9
Michigan .....	7.5	6.1	4.5	7.3	6.0	4.4
Minnesota .....	25.6	25.0	18.0	24.9	24.8	17.3
Nebraska .....	10.3	5.6	2.4	9.6	5.2	2.2
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	3.7	1.5	1.1	3.7	1.5	1.1
Wyoming .....	-	(D)	-	-	(D)	-
Other States <sup>1</sup> .....	3.2	3.3	2.9	2.9	3.3	2.0
United States .....	57.3	47.6	30.8	55.4	46.9	28.9
<b>Dark red kidney</b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Colorado .....	-	-	(D)	-	-	(D)
Idaho .....	4.2	2.1	2.1	4.1	2.0	2.1
Michigan .....	2.5	1.5	(D)	2.4	1.4	(D)
Minnesota .....	67.4	46.7	33.0	65.8	46.1	32.5
Nebraska .....	-	(D)	-	-	-	-
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	1.1	(D)	(D)	1.1	(D)	(D)
Wyoming .....	(D)	-	-	(D)	-	-
Other States <sup>1</sup> .....	7.7	3.0	5.0	7.0	3.0	4.9
United States .....	82.9	53.3	40.1	80.4	52.5	39.5

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: 2021-2023 (continued)**

Class and State	Yield per acre <sup>2</sup>			Production <sup>2</sup>		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 cwt)	2022 (1,000 cwt)	2023 (1,000 cwt)
<b>Pinto</b>						
California .....	(X)	(D)	(D)	-	(D)	(D)
Colorado .....	1,840	2,010	2,090	361	430	339
Idaho .....	2,720	2,500	2,630	514	348	360
Michigan .....	1,700	(D)	(D)	43	(D)	(D)
Minnesota .....	1,130	1,520	2,140	193	190	270
Nebraska .....	2,610	2,330	2,200	1,446	1,664	986
North Dakota .....	990	1,830	1,610	4,188	7,521	6,021
Washington .....	3,000	2,860	2,860	330	283	289
Wyoming .....	2,460	2,120	2,240	315	261	251
Other States <sup>1</sup> .....	(X)	2,250	2,250	-	27	90
United States .....	1,319	1,937	1,769	7,390	10,724	8,606
<b>Light red kidney</b>						
California .....	(D)	(D)	(X)	(D)	(D)	-
Colorado .....	2,550	2,950	(D)	143	103	(D)
Idaho .....	2,400	2,380	1,870	34	62	36
Michigan .....	1,410	2,310	1,640	103	139	72
Minnesota .....	2,550	2,460	2,590	635	610	448
Nebraska .....	1,900	2,330	1,500	182	121	33
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	2,420	2,530	2,940	90	38	32
Wyoming .....	(X)	(D)	(X)	-	(D)	-
Other States <sup>1</sup> .....	1,828	1,727	1,650	53	57	33
United States .....	2,238	2,409	2,263	1,240	1,130	654
<b>Dark red kidney</b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Colorado .....	(X)	(X)	(D)	-	-	(D)
Idaho .....	2,290	2,290	2,710	94	46	57
Michigan .....	1,200	1,230	(D)	29	17	(D)
Minnesota .....	2,400	2,620	2,440	1,579	1,208	793
Nebraska .....	(X)	(X)	(X)	-	-	-
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	2,560	(D)	(D)	28	(D)	(D)
Wyoming .....	(D)	(X)	(X)	(D)	-	-
Other States <sup>1</sup> .....	1,157	2,100	1,592	81	63	78
United States .....	2,252	2,541	2,349	1,811	1,334	928

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: 2021-2023 (continued)**

Class and State	Area planted			Area harvested		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)
<b>Pink</b>						
California .....	(D)	-	(D)	(D)	-	(D)
Colorado .....	-	(D)	-	-	(D)	-
Idaho .....	6.7	5.4	5.7	6.6	5.4	5.7
Michigan .....	-	(D)	-	-	(D)	(D)
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota .....	5.8	5.5	5.8	5.8	5.5	5.8
Washington .....	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming .....	(D)	-	(D)	(D)	-	(D)
Other States <sup>1</sup> .....	5.6	8.6	12.5	5.3	8.4	12.0
United States .....	18.1	19.5	24.0	17.7	19.3	23.5
<b>Small red</b>						
California .....	-	-	-	-	-	-
Colorado .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	2.8	2.0	1.5	2.7	2.0	1.5
Michigan .....	20.0	15.0	21.0	19.7	14.8	20.7
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(D)	(D)	1.3	(D)	(D)	1.3
North Dakota .....	15.7	13.6	21.0	14.4	13.6	20.8
Washington .....	3.2	1.5	(D)	3.2	1.5	(D)
Wyoming .....	(D)	(D)	-	(D)	(D)	-
Other States <sup>1</sup> .....	4.6	3.3	3.6	4.3	3.2	3.4
United States .....	46.3	35.4	48.4	44.3	35.1	47.7
<b>Cranberry</b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Colorado .....	-	-	-	-	-	-
Idaho .....	(D)	(D)	(D)	(D)	(D)	(D)
Michigan .....	2.5	3.5	3.7	2.4	3.4	3.6
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	-	-	(D)	-	-	(D)
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	(D)	2.0	3.2	(D)	2.0	3.2
Wyoming .....	-	-	-	-	-	-
Other States <sup>1</sup> .....	11.2	5.3	6.3	11.1	5.2	6.2
United States .....	13.7	10.8	13.2	13.5	10.6	13.0

See footnote(s) at end of table.

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**Dry Edible Bean Area Planted and Harvested, Yield, and Production by Commercial Class – States and United States: 2021-2023 (continued)**

Class and State	Yield per acre <sup>2</sup>			Production <sup>2</sup>		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 cwt)	2022 (1,000 cwt)	2023 (1,000 cwt)
<b>Pink</b>						
California .....	(D)	(X)	(D)	(D)	-	(D)
Colorado .....	(X)	(D)	(X)	-	(D)	-
Idaho .....	2,680	2,300	2,120	177	124	121
Michigan .....	(X)	(D)	(D)	-	(D)	(D)
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(D)	(D)	(D)	(D)	(D)	(D)
North Dakota .....	1,020	1,880	2,080	59	103	121
Washington .....	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming .....	(D)	(X)	(D)	(D)	-	(D)
Other States <sup>1</sup> .....	1,868	2,060	2,242	99	173	269
United States .....	1,893	2,073	2,174	335	400	511
<b>Small red</b>						
California .....	(X)	(X)	(X)	-	-	-
Colorado .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	2,420	2,340	2,330	65	47	35
Michigan .....	2,260	2,360	2,330	445	349	482
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(D)	(D)	3,110	(D)	(D)	40
North Dakota .....	1,630	2,280	2,100	235	310	437
Washington .....	2,800	2,620	(D)	90	39	(D)
Wyoming .....	(D)	(D)	(X)	(D)	(D)	-
Other States <sup>1</sup> .....	1,605	2,375	2,353	69	76	80
United States .....	2,041	2,339	2,252	904	821	1,074
<b>Cranberry</b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Colorado .....	(X)	(X)	(X)	-	-	-
Idaho .....	(D)	(D)	(D)	(D)	(D)	(D)
Michigan .....	1,290	2,110	1,520	31	72	55
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(X)	(X)	(D)	-	-	(D)
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	(D)	1,840	2,810	(D)	37	90
Wyoming .....	(X)	(X)	(X)	-	-	-
Other States <sup>1</sup> .....	2,171	1,635	1,581	241	85	98
United States .....	2,015	1,830	1,869	272	194	243

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: 2021-2023 (continued)**

Class and State	Area planted			Area harvested		
	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)	2021 (1,000 acres)	2022 (1,000 acres)	2023 (1,000 acres)
<b>Black</b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Colorado .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	3.6	3.1	3.6	3.5	3.1	3.6
Michigan .....	98.0	122.0	124.0	96.2	120.9	123.2
Minnesota .....	61.1	66.5	79.7	58.6	65.5	79.2
Nebraska .....	(D)	(D)	2.4	(D)	(D)	2.1
North Dakota .....	82.0	71.0	73.0	80.0	69.6	71.6
Washington .....	5.3	4.3	5.8	5.2	4.3	5.7
Wyoming .....	0.8	1.0	1.2	0.8	1.0	1.2
Other States <sup>1</sup> .....	6.2	5.3	1.4	5.7	4.6	1.4
United States .....	257.0	273.2	291.1	250.0	269.0	288.0
<b>Blackeye</b>						
California .....	3.5	1.9	3.5	3.4	1.8	3.4
Colorado .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	(D)	-	-	(D)	-	-
Michigan .....	(D)	-	-	(D)	-	-
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(D)	(D)	8.0	(D)	(D)	7.6
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming .....	-	-	(D)	-	-	(D)
Other States <sup>1</sup> .....	9.6	8.2	7.4	9.5	7.9	7.0
United States .....	13.1	10.1	18.9	12.9	9.7	18.0
<b>Other</b>						
California .....	1.1	1.1	1.7	1.1	1.1	1.6
Colorado .....	4.0	4.8	3.8	3.9	4.7	3.1
Idaho .....	6.2	3.5	2.7	6.1	3.0	2.5
Michigan .....	(D)	(D)	(D)	(D)	(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 .....	3.8	3.8	2.9	3.6	3.8	2.8
Wyoming .....	(D)	(D)	0.6	(D)	(D)	0.6
Other States <sup>1</sup> .....	14.3	9.6	7.9	13.7	9.1	7.7
United States .....	29.4	22.8	19.6	28.4	21.7	18.3

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: 2021-2023 (continued)**

Class and State	Yield per acre <sup>2</sup>			Production <sup>2</sup>		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 cwt)	2022 (1,000 cwt)	2023 (1,000 cwt)
<b>Black</b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Colorado .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	2,520	2,300	2,590	88	71	93
Michigan .....	2,480	2,440	2,510	2,386	2,950	3,092
Minnesota .....	1,770	2,310	2,390	1,037	1,513	1,893
Nebraska .....	(D)	(D)	2,080	(D)	(D)	44
North Dakota .....	980	1,680	1,880	784	1,169	1,346
Washington .....	3,000	2,910	3,100	156	125	177
Wyoming .....	2,570	2,430	2,860	21	24	34
Other States <sup>1</sup> .....	2,228	2,609	1,571	127	120	22
United States .....	1,840	2,220	2,327	4,599	5,972	6,701
<b>Blackeye</b>						
California .....	2,650	2,090	2,050	90	38	70
Colorado .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	(D)	(X)	(X)	(D)	-	-
Michigan .....	(D)	(X)	(X)	(D)	-	-
Minnesota .....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska .....	(D)	(D)	1,500	(D)	(D)	114
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming .....	(X)	(X)	(D)	-	-	(D)
Other States <sup>1</sup> .....	1,463	1,443	1,443	139	114	101
United States .....	1,775	1,567	1,583	229	152	285
<b>Other</b>						
California .....	2,400	2,230	2,000	26	25	32
Colorado .....	1,590	1,900	1,500	62	89	47
Idaho .....	2,630	2,540	2,620	160	76	66
Michigan .....	(D)	(D)	(D)	(D)	(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 .....	2,800	2,600	2,000	101	99	56
Wyoming .....	(D)	(D)	1,330	(D)	(D)	8
Other States <sup>1</sup> .....	1,401	1,989	2,091	192	181	161
United States .....	1,905	2,166	2,022	541	470	370

- Represents zero.

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

(X) Not applicable.

<sup>1</sup> Includes data withheld above.

<sup>2</sup> Clean basis.

## Lentil Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho .....	20.0	15.0	18.0	18.0	14.0	17.0
Montana .....	530.0	520.0	390.0	410.0	463.0	373.0
North Dakota .....	120.0	100.0	93.0	112.0	98.0	89.0
Washington .....	38.0	45.0	45.0	37.0	44.0	44.0
United States .....	708.0	680.0	546.0	577.0	619.0	523.0
State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho .....	480	600	1,090	86	84	185
Montana .....	530	890	1,090	2,173	4,121	4,066
North Dakota .....	830	1,070	1,230	930	1,049	1,095
Washington .....	760	900	900	281	396	396
United States .....	601	913	1,098	3,470	5,650	5,742

**Chickpea Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023**

Size and State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Small</b> <sup>1</sup>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	9.0	15.0	23.0	9.0	14.4	22.6
Montana .....	31.0	33.0	41.0	25.5	30.4	34.5
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	14.0	28.0	33.0	14.0	27.7	32.9
Other States <sup>2</sup> .....	5.3	5.7	8.4	5.0	5.6	8.2
United States .....	59.3	81.7	105.4	53.5	78.1	98.2
<b>Large</b> <sup>3</sup>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	69.0	47.0	49.0	68.7	46.7	46.6
Montana .....	144.0	152.0	133.0	132.5	141.0	130.0
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	81.0	66.0	67.0	80.5	65.5	66.5
Other States <sup>2</sup> .....	14.4	10.7	18.0	14.0	10.4	17.9
United States .....	308.4	275.7	267.0	295.7	263.6	261.0
<b>All</b>						
California .....	3.4	2.4	4.4	3.3	2.3	4.4
Idaho .....	78.0	62.0	72.0	77.7	61.1	69.2
Montana .....	175.0	185.0	174.0	158.0	171.4	164.5
North Dakota .....	16.3	14.0	22.0	15.7	13.7	21.7
Washington .....	95.0	94.0	100.0	94.5	93.2	99.4
United States .....	367.7	357.4	372.4	349.2	341.7	359.2

See footnote(s) at end of table.

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**Chickpea Area Planted and Harvested, Yield, and Production – States and United States:  
2021-2023 (continued)**

Size and State	Yield per acre <sup>4</sup>			Production <sup>4</sup>		
	2021 (pounds)	2022 (pounds)	2023 (pounds)	2021 (1,000 cwt)	2022 (1,000 cwt)	2023 (1,000 cwt)
<b>Small <sup>1</sup></b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	950	1,260	1,430	86	181	323
Montana .....	410	1,120	1,200	105	340	414
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	830	1,670	1,470	116	463	484
Other States <sup>2</sup> .....	1,940	1,804	2,220	97	101	182
United States .....	755	1,389	1,429	404	1,085	1,403
<b>Large <sup>3</sup></b>						
California .....	(D)	(D)	(D)	(D)	(D)	(D)
Idaho .....	890	1,320	1,310	611	616	610
Montana .....	750	680	1,210	994	959	1,573
North Dakota .....	(D)	(D)	(D)	(D)	(D)	(D)
Washington .....	820	1,330	1,310	660	871	871
Other States <sup>2</sup> .....	1,279	1,490	1,480	179	155	265
United States .....	827	987	1,272	2,444	2,601	3,319
<b>All</b>						
California .....	2,210	2,610	2,800	73	60	123
Idaho .....	900	1,300	1,350	697	797	933
Montana .....	700	760	1,210	1,099	1,299	1,987
North Dakota .....	1,290	1,430	1,490	203	196	324
Washington .....	820	1,430	1,360	776	1,334	1,355
United States .....	816	1,079	1,315	2,848	3,686	4,722

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

<sup>1</sup> Chickpeas 20/64 inches or smaller.

<sup>2</sup> Includes data withheld above.

<sup>3</sup> Chickpeas larger than 20/64 inches.

<sup>4</sup> Clean basis.

## Dry Edible Pea Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

[Includes Austrian winter peas and wrinkled seed peas]

State	Area planted			Area harvested		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho .....	31.0	32.0	19.0	30.0	31.0	18.0
Montana .....	580.0	550.0	580.0	485.0	510.0	570.0
Nebraska .....	29.0	34.0	21.0	27.0	21.0	19.0
North Dakota .....	270.0	230.0	270.0	256.0	228.0	261.0
South Dakota .....	28.0	16.0	14.0	25.0	16.0	12.0
Washington .....	72.0	83.0	62.0	71.0	82.0	61.0
United States .....	1,010.0	945.0	966.0	894.0	888.0	941.0
State	Yield per acre			Production		
	2021	2022	2023	2021	2022	2023
	(pounds)	(pounds)	(pounds)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Idaho .....	1,080	1,690	1,610	324	524	290
Montana .....	740	1,450	1,740	3,589	7,395	9,918
Nebraska .....	1,310	700	2,150	354	147	409
North Dakota .....	1,490	2,390	2,300	3,814	5,449	6,003
South Dakota .....	570	1,750	2,100	143	280	252
Washington .....	1,320	2,100	1,990	937	1,722	1,214
United States .....	1,025	1,747	1,922	9,161	15,517	18,086

## Hop Area Harvested, Yield, and Production by Variety – States and United States: 2021-2023

State and variety	Area harvested		
	2021	2022	2023
	(acres)	(acres)	(acres)
<b>Idaho</b>			
Amarillo <sup>R</sup> , VGXP01 .....	380	379	537
Apollo <sup>TM</sup> .....	(D)	(D)	209
Cascade .....	479	845	699
Cashmere .....	124	140	91
Chinook .....	521	542	409
Citra <sup>R</sup> , HBC 394 .....	1,743	1,767	1,014
Columbus/Tomahawk <sup>R</sup> /Zeus <sup>1</sup> .....	1,046	520	1,059
Comet .....	146	144	108
El Dorado <sup>R</sup> .....	621	304	242
Elani <sup>TM</sup> , YQH 1320 .....	(NA)	(NA)	8
Eureka! <sup>TM</sup> .....	332	419	525
Hallertauer Mittelfruher .....	159	159	159
Helios <sup>TM</sup> , HS15619 .....	(NA)	(NA)	503
Idaho 7 <sup>R</sup> .....	592	382	290
Mosaic <sup>R</sup> , HBC 369 .....	1,380	1,440	1,120
Mt. Rainier .....	84	85	66
Northern Brewer .....	58	-	-
Saaz .....	330	380	380
Simcoe <sup>R</sup> , YCR 14 .....	388	441	257
Triumph .....	72	55	(D)
Willamette .....	389	459	459
Other varieties <sup>2</sup> .....	850	806	510
Total .....	9,694	9,267	8,645
<b>Oregon</b>			
Amarillo <sup>R</sup> , VGXP01 .....	193	210	204
Cascade .....	666	658	629
Centennial .....	364	380	386
Chinook .....	79	90	76
Citra <sup>R</sup> , HBC 394 .....	1,472	1,691	1,528
Crystal .....	159	191	240
Golding .....	78	(D)	(D)
Liberty .....	54	(D)	25
Mosaic <sup>R</sup> , HBC 369 .....	844	901	847
Mt. Hood .....	123	171	188
Mt. Rainier .....	126	130	109
Nugget .....	572	441	375
Sabro <sup>R</sup> , HBC 438 .....	225	119	(D)
Simcoe <sup>R</sup> , YCR 14 .....	499	527	466
Sterling .....	58	35	30
Strata <sup>TM</sup> , OR 91331 .....	833	1,143	839
Tahoma .....	(D)	(D)	104
Talus <sup>TM</sup> , HBC 692 .....	(NA)	46	(D)
Willamette .....	446	471	439
Other varieties <sup>2</sup> .....	522	522	522
Total .....	7,756	7,756	7,756

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:  
2021-2023 (continued)**

State and variety	Yield per acre		
	2021 (pounds)	2022 (pounds)	2023 (pounds)
<b>Idaho</b>			
Amarillo <sup>R</sup> , VGXP01 .....	1,813	1,458	1,589
Apollo <sup>TM</sup> .....	(D)	(D)	2,744
Cascade .....	1,559	1,494	1,957
Cashmere .....	1,828	1,622	1,321
Chinook .....	2,104	1,467	2,047
Citra <sup>R</sup> , HBC 394 .....	1,413	1,515	1,581
Columbus/Tomahawk <sup>R</sup> /Zeus <sup>1</sup> .....	3,169	3,027	2,638
Comet .....	1,663	1,863	1,877
El Dorado <sup>R</sup> .....	1,778	1,766	2,256
Elani <sup>TM</sup> , YQH1320 .....	(NA)	(NA)	1,158
Eureka! <sup>TM</sup> .....	2,552	2,200	2,308
Hallertauer Mittelfruher .....	1,272	1,649	1,085
Helios <sup>TM</sup> , HS15619 .....	(NA)	(NA)	1,736
Idaho 7 <sup>R</sup> .....	2,837	2,588	2,572
Mosaic <sup>R</sup> , HBC 369 .....	2,141	2,103	2,442
Mt. Rainier .....	985	1,364	1,572
Northern Brewer .....	1,266	(X)	(X)
Saaz .....	620	955	524
Simcoe <sup>R</sup> , YCR 14 .....	1,121	1,208	1,312
Triumph .....	1,063	871	(D)
Willamette .....	1,311	1,393	1,440
Other varieties <sup>2</sup> .....	1,725	1,587	1,778
Total .....	1,900	1,734	1,949
<b>Oregon</b>			
Amarillo <sup>R</sup> , VGXP01 .....	2,186	1,870	1,841
Cascade .....	1,595	1,578	1,633
Centennial .....	1,384	1,575	1,057
Chinook .....	1,794	1,543	1,453
Citra <sup>R</sup> , HBC 394 .....	1,414	1,562	1,290
Crystal .....	1,816	1,739	1,422
Golding .....	927	(D)	(D)
Liberty .....	1,506	(D)	835
Mosaic <sup>R</sup> , HBC 369 .....	2,077	2,059	1,907
Mt. Hood .....	1,624	1,252	1,373
Mt. Rainier .....	1,389	1,473	1,497
Nugget .....	2,162	2,085	2,236
Sabro <sup>R</sup> HBC 438 .....	1,749	1,996	(D)
Simcoe <sup>R</sup> , YCR 14 .....	1,643	1,646	1,225
Sterling .....	1,321	1,559	1,859
Strata <sup>TM</sup> , OR 91331 .....	1,889	2,000	1,617
Tahoma .....	(D)	(D)	1,884
Talus <sup>TM</sup> , HBC 692 .....	(NA)	1,483	(D)
Willamette .....	1,461	1,489	1,524
Other varieties <sup>2</sup> .....	1,780	1,567	1,934
Total .....	1,705	1,729	1,558

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:  
2021-2023 (continued)**

State and variety	Production		
	2021 (1,000 pounds)	2022 (1,000 pounds)	2023 (1,000 pounds)
<b>Idaho</b>			
Amarillo <sup>R</sup> , VGXP01 .....	688.9	552.6	853.3
Apollo <sup>TM</sup> .....	(D)	(D)	573.5
Cascade .....	746.8	1,262.4	1,367.9
Cashmere .....	226.7	227.1	120.2
Chinook .....	1,096.2	795.1	837.2
Citra <sup>R</sup> , HBC 394 .....	2,462.9	2,677.0	1,603.1
Columbus/Tomahawk <sup>R</sup> /Zeus <sup>1</sup> .....	3,314.8	1,574.0	2,793.6
Comet .....	242.8	268.3	202.7
El Dorado <sup>R</sup> .....	1,104.1	536.9	546.0
Elani <sup>TM</sup> , YQH 1320 .....	-	-	9.3
Eureka! <sup>TM</sup> .....	847.3	921.8	1,211.7
Hallertauer Mittelfruher .....	202.2	262.2	172.5
Helios <sup>TM</sup> , HS15619 .....	(NA)	(NA)	873.2
Idaho 7 <sup>R</sup> .....	1,679.5	988.6	745.9
Mosaic <sup>R</sup> , HBC 369 .....	2,954.6	3,028.3	2,735.0
Mt. Rainier .....	82.7	115.9	103.8
Northern Brewer .....	73.4	-	-
Saaz .....	204.6	362.9	199.1
Simcoe <sup>R</sup> , YCR 14 .....	434.9	532.7	337.2
Triumph .....	76.5	47.9	(D)
Willamette .....	510.0	639.4	661.0
Other varieties <sup>2</sup> .....	1,465.9	1,779.2	906.8
Total .....	18,414.8	16,572.3	16,853.0
<b>Oregon</b>			
Amarillo <sup>R</sup> , VGXP01 .....	421.9	392.7	375.6
Cascade .....	1,062.3	1,038.3	1,027.2
Centennial .....	503.8	598.5	408.0
Chinook .....	141.7	138.9	110.4
Citra <sup>R</sup> , HBC 394 .....	2,081.4	2,641.3	1,971.1
Crystal .....	288.7	332.1	341.3
Golding .....	72.3	(D)	(D)
Liberty .....	81.3	(D)	20.9
Mosaic <sup>R</sup> , HBC 369 .....	1,753.0	1,855.2	1,615.2
Mt. Hood .....	199.8	214.1	258.1
Mt. Rainier .....	175.0	191.5	163.2
Nugget .....	1,236.7	919.5	838.5
Sabro <sup>R</sup> HBC 438 .....	393.5	237.5	(D)
Simcoe <sup>R</sup> , YCR 14 .....	819.9	867.4	570.9
Sterling .....	76.6	54.6	55.8
Strata <sup>TM</sup> , OR 91331 .....	1,573.5	2,286.0	1,356.7
Tahoma .....	(D)	(D)	195.9
Talus <sup>TM</sup> , HBC 692 .....	(NA)	68.2	(D)
Willamette .....	651.6	701.3	669.0
Other varieties <sup>2</sup> .....	1,074.9	934.8	651.9
Total .....	12,607.9	13,471.9	10,629.7

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:  
2021-2023 (continued)**

State and variety	Area harvested		
	2021 (acres)	2022 (acres)	2023 (acres)
<b>Washington</b>			
Ahtanum <sup>R</sup> , YCR 1 .....	166	168	(D)
Amarillo <sup>R</sup> , VGXP01 .....	1,334	1,324	1,436
Apollo <sup>TM</sup> .....	(D)	807	802
Azacca <sup>R</sup> , ADHA-483 .....	730	871	401
Bravo <sup>TM</sup> .....	238	203	206
Cascade .....	3,183	3,604	3,156
Cashmere .....	690	717	258
Centennial .....	1,978	2,044	2,103
Chinook .....	1,174	1,443	1,216
Citra <sup>R</sup> , HBC 394 .....	8,766	8,586	6,314
Cluster .....	390	286	195
Columbus/Tomahawk <sup>R</sup> /Zeus <sup>1</sup> .....	4,523	3,998	5,295
Comet .....	386	327	175
Ekuanot <sup>R</sup> , HBC 366 .....	381	367	373
El Dorado <sup>R</sup> .....	1,113	861	621
Elani <sup>TM</sup> , YQH 1320 .....	(NA)	(NA)	61
Eureka! <sup>TM</sup> .....	466	570	621
HBC 682 .....	2,114	1,709	2,226
Helios <sup>TM</sup> , HS15619 .....	(NA)	(NA)	1,006
Idaho 7 <sup>TM</sup> .....	388	158	148
Loral <sup>R</sup> , HBC 291 .....	197	199	161
Mosaic <sup>R</sup> , HBC 369 .....	4,193	4,160	3,309
Mt. Hood .....	(D)	42	(D)
Mt. Rainier .....	209	212	212
Palisade <sup>R</sup> , YCR 4 .....	333	377	260
Pekko <sup>TM</sup> , ADHA-871 .....	1,070	1,084	1,045
Sabro <sup>R</sup> , HBC 438 .....	1,120	548	203
Simcoe <sup>R</sup> , YCR 14 .....	3,172	3,494	3,483
Summit <sup>TM</sup> .....	437	(D)	(D)
Super Galena <sup>TM</sup> .....	480	354	354
Tahoma .....	388	383	385
Talus <sup>TM</sup> , HBC 692 .....	(NA)	377	147
Warrior <sup>R</sup> , YCR 5 .....	128	147	148
Willamette .....	132	124	199
Zappa <sup>TM</sup> .....	(NA)	69	(D)
Experimental .....	575	702	602
Other varieties <sup>2</sup> .....	3,329	2,447	1,730
Total .....	43,783	42,762	38,851
<b>United States<sup>3</sup></b> .....	<b>60,872</b>	<b>59,785</b>	<b>54,318</b>

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:  
2021-2023 (continued)**

State and variety	Yield per acre		
	2021	2022	2023
	(pounds)	(pounds)	(pounds)
<b>Washington</b>			
Ahtanum <sup>R</sup> , YCR 1 .....	2,211	2,032	(D)
Amarillo <sup>R</sup> , VGXP01 .....	1,659	1,486	1,686
Apollo <sup>TM</sup> .....	(D)	2,483	2,989
Azacca <sup>R</sup> , ADHA-483 .....	1,909	1,559	1,980
Bravo <sup>TM</sup> .....	2,759	2,161	2,896
Cascade .....	1,585	1,477	1,957
Cashmere .....	1,395	1,521	1,949
Centennial .....	1,585	1,464	1,191
Chinook .....	1,851	1,335	1,812
Citra <sup>R</sup> , HBC 394 .....	1,580	1,365	1,585
Cluster .....	2,016	1,505	1,722
Columbus/Tomahawk <sup>R</sup> /Zeus <sup>1</sup> .....	2,656	2,256	2,465
Comet .....	1,632	1,299	1,857
Ekuanot <sup>R</sup> , HBC 366 .....	2,608	2,153	2,335
El Dorado <sup>R</sup> .....	1,876	1,685	2,093
Elani <sup>TM</sup> , YQH 1320 .....	(NA)	(NA)	2,403
Eureka! <sup>TM</sup> .....	3,022	2,205	3,028
HBC 682 .....	2,463	2,132	2,032
Helios <sup>TM</sup> , HS15619 .....	(NA)	(NA)	1,733
Idaho 7 <sup>TM</sup> .....	3,197	2,755	3,062
Loral <sup>R</sup> , HBC 291 .....	2,088	1,843	1,989
Mosaic <sup>R</sup> , HBC 369 .....	2,129	1,963	2,207
Mt. Hood .....	(D)	573	(D)
Mt. Rainier .....	1,635	1,563	2,031
Palisade <sup>R</sup> , YCR 4 .....	1,866	1,842	2,268
Pekko <sup>TM</sup> , ADHA-871 .....	2,072	1,882	2,319
Sabro <sup>R</sup> , HBC 438 .....	2,207	2,052	3,034
Simcoe <sup>R</sup> , YCR 14 .....	1,646	1,380	1,539
Summit <sup>TM</sup> .....	1,351	(D)	(D)
Super Galena <sup>TM</sup> .....	2,849	2,838	2,970
Tahoma .....	1,055	1,310	1,589
Talus <sup>TM</sup> , HBC 692 .....	(NA)	1,703	1,967
Warrior <sup>R</sup> , YCR 5 .....	2,240	1,610	2,070
Willamette .....	1,200	991	971
Zappa <sup>TM</sup> .....	(NA)	839	(D)
Experimental .....	1,713	1,717	1,769
Other varieties <sup>2</sup> .....	1,934	1,577	2,177
Total .....	1,932	1,663	1,971
<b>United States<sup>3</sup></b> .....	1,900	1,694	1,915

See footnote(s) at end of table.

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**Hop Area Harvested, Yield, and Production by Variety – States and United States:  
2021-2023 (continued)**

State and variety	Production		
	2021 (1,000 pounds)	2022 (1,000 pounds)	2023 (1,000 pounds)
<b>Washington</b>			
Ahtanum <sup>R</sup> , YCR 1 .....	367.0	341.4	(D)
Amarillo <sup>R</sup> , VGXP01 .....	2,213.1	1,967.5	2,421.1
Apollo <sup>TM</sup> .....	(D)	2,003.8	2,397.2
Azacca <sup>R</sup> , ADHA-483 .....	1,393.6	1,357.9	794.0
Bravo <sup>TM</sup> .....	656.6	438.7	596.6
Cascade .....	5,045.1	5,323.1	6,176.3
Cashmere .....	962.6	1,090.6	502.8
Centennial .....	3,135.1	2,992.4	2,504.7
Chinook .....	2,173.1	1,926.4	2,203.4
Citra <sup>R</sup> , HBC 394 .....	13,850.3	11,719.9	10,007.7
Cluster .....	786.2	430.4	335.8
Columbus/Tomahawk <sup>R</sup> /Zeus <sup>1</sup> .....	12,013.1	9,019.5	13,052.2
Comet .....	630.0	424.8	325.0
Ekuanot <sup>R</sup> , HBC 366 .....	993.6	790.2	871.0
El Dorado <sup>R</sup> .....	2,088.0	1,450.8	1,299.8
Elani <sup>TM</sup> , YQH 1320 .....	(NA)	(NA)	146.6
Eureka! <sup>TM</sup> .....	1,408.3	1,256.9	1,880.4
HBC 682 .....	5,206.8	3,643.6	4,523.2
Helios <sup>TM</sup> , HS15619 .....	(NA)	(NA)	1,743.4
Idaho 7 <sup>TM</sup> .....	1,240.4	435.3	453.2
Loral <sup>R</sup> , HBC 291 .....	411.3	366.8	320.2
Mosaic <sup>R</sup> , HBC 369 .....	8,926.9	8,166.1	7,303.0
Mt. Hood .....	(D)	24.1	(D)
Mt. Rainier .....	341.7	331.4	430.6
Palisade <sup>R</sup> , YCR 4 .....	621.4	694.4	589.7
Pekko <sup>TM</sup> , ADHA-871 .....	2,217.0	2,040.1	2,423.4
Sabro <sup>R</sup> , HBC 438 .....	2,471.8	1,124.6	615.9
Simcoe <sup>R</sup> , YCR 14 .....	5,221.1	4,821.7	5,360.3
Summit <sup>TM</sup> .....	590.4	(D)	(D)
Super Galena <sup>TM</sup> .....	1,367.5	1,004.7	1,051.4
Tahoma .....	409.3	501.7	611.8
Talus <sup>TM</sup> , HBC 692 .....	(NA)	642.0	289.1
Warrior <sup>R</sup> , YCR 5 .....	286.7	236.7	306.4
Willamette .....	158.4	122.9	193.2
Zappa <sup>TM</sup> .....	(NA)	57.9	(D)
Experimental .....	985.0	1,205.3	1,064.9
Other varieties <sup>2</sup> .....	6,436.8	3,858.0	3,765.5
Total .....	84,608.2	71,111.6	76,559.8
<b>United States<sup>3</sup></b> .....	<b>115,630.9</b>	<b>101,855.7</b>	<b>104,042.5</b>

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

(NA) Not available.

<sup>R</sup> Registered

<sup>TM</sup> Trademark

<sup>1</sup> Beginning in 2020, Zeus is included in Columbus/Tomahawk<sup>R</sup>/Zeus (C/T/Z).

<sup>2</sup> Includes data withheld to avoid disclosure of individual operations and varieties not listed.

<sup>3</sup> 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: 2021-2023

Crop, State, and variety	Area harvested			Yield per acre		
	2021	2022	2023	2021	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(pounds)	(pounds)	(pounds)
<b>Peppermint</b>						
Idaho .....	15.5	13.2	12.3	120	110	92
Indiana .....	4.5	3.4	3.3	52	51	61
Oregon .....	11.5	10.5	10.0	98	96	84
Washington .....	6.6	6.4	5.7	118	119	112
United States .....	38.1	33.5	31.3	105	101	90
<b>Spearmint</b>						
Idaho .....	0.9	0.9	0.8	147	132	123
Indiana .....	3.1	1.8	1.7	72	48	59
Oregon .....	3.0	3.1	2.3	105	116	130
Washington .....	7.9	7.9	7.4	139	137	141
Native .....	5.5	5.7	6.1	155	143	142
Scotch .....	2.4	2.2	1.3	103	122	137
United States .....	14.9	13.7	12.2	119	120	126
	<b>Production</b>					
Crop, State, and variety	2021	2022	2023			
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)			
<b>Peppermint</b>						
Idaho .....	1,860	1,452	1,132			
Indiana .....	234	173	201			
Oregon .....	1,127	1,008	840			
Washington .....	779	762	638			
United States .....	4,000	3,395	2,811			
<b>Spearmint</b>						
Idaho .....	132	119	98			
Indiana .....	223	86	100			
Oregon .....	315	360	299			
Washington .....	1,100	1,083	1,044			
Native .....	853	815	866			
Scotch .....	247	268	178			
United States .....	1,770	1,648	1,541			

## Maple Syrup Taps, Yield, and Production – States and United States: 2021-2023

[Estimates for 2023 are carried forward from the June 2023 *Crop Production*. Any revisions will appear in the June 2024 *Crop Production*]

State	Number of taps			Yield per tap			Production		
	2021 (1,000 taps)	2022 (1,000 taps)	2023 (1,000 taps)	2021 (gallons)	2022 (gallons)	2023 (gallons)	2021 (1,000 gallons)	2022 (1,000 gallons)	2023 (1,000 gallons)
Maine .....	2,110	1,950	1,880	0.262	0.349	0.250	553	681	470
Michigan .....	620	640	590	0.266	0.336	0.330	165	215	195
New Hampshire .....	580	560	460	0.228	0.308	0.302	132	172	139
New York .....	2,900	2,900	2,500	0.223	0.291	0.300	647	844	750
Pennsylvania .....	950	920	675	0.226	0.219	0.263	215	201	178
Vermont .....	8,280	8,500	6,350	0.269	0.384	0.322	2,227	3,264	2,045
Wisconsin .....	1,210	1,270	985	0.405	0.481	0.408	490	611	402
United States .....	16,650	16,740	13,440	0.266	0.358	0.311	4,429	5,988	4,179

## Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2022 and 2023

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year]

Crop	Area planted		Area harvested	
	2022	2023	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
<b>Grains and hay</b>				
Barley .....	2,927	3,101	2,425	2,555
Corn for grain <sup>1</sup> .....	88,162	94,641	78,705	86,513
Corn for silage .....	(NA)	(NA)	6,851	6,471
Hay, all .....	(NA)	(NA)	48,711	52,821
Alfalfa .....	(NA)	(NA)	15,153	15,634
All other .....	(NA)	(NA)	33,558	37,187
Oats .....	2,582	2,555	880	831
Proso millet .....	637	619	493	572
Rice .....	2,219	2,894	2,167	2,854
Rye .....	2,175	2,293	345	322
Sorghum for grain <sup>1</sup> .....	6,325	7,195	4,570	6,115
Sorghum for silage .....	(NA)	(NA)	525	384
Wheat, all .....	45,769	49,575	35,485	37,272
Winter .....	33,281	36,699	23,454	24,683
Durum .....	1,633	1,676	1,581	1,604
Other spring .....	10,855	11,200	10,450	10,985
<b>Oilseeds</b>				
Canola .....	2,206.0	2,344.5	2,163.7	2,319.2
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	263	178	242	160
Mustard seed .....	214.5	245.0	175.7	238.1
Peanuts .....	1,448.5	1,645.0	1,381.4	1,574.0
Rapeseed .....	10.9	13.2	10.4	10.1
Safflower .....	148.2	129.5	133.5	126.0
Soybeans for beans .....	87,450	83,600	86,174	82,356
Sunflower .....	1,687.5	1,315.0	1,599.5	1,267.5
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all .....	13,749.0	10,230.0	7,289.6	7,064.6
Upland .....	13,567.0	10,083.0	7,113.5	6,924.8
American Pima .....	182.0	147.0	176.1	139.8
Sugarbeets .....	1,159.6	1,137.4	1,137.5	1,127.3
Sugarcane .....	(NA)	(NA)	930.2	931.5
Tobacco .....	(NA)	(NA)	198.3	187.6
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	357.4	372.4	341.7	359.2
Dry edible beans .....	1,241.0	1,180.0	1,219.2	1,156.9
Dry edible peas .....	945.0	966.0	888.0	941.0
Lentils .....	680.0	546.0	619.0	523.0
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	60.1	54.3
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)	(NA)	33.5	31.3
Potatoes .....	923.0	965.0	918.2	960.2
Spearmint oil .....	(NA)	(NA)	13.7	12.2

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Domestic Units – United States:  
2022 and 2023 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year]

Crop	Yield per acre		Production	
	2022	2023	2022	2023
			(1,000)	(1,000)
<b>Grains and hay</b>				
Barley .....bushels	71.7	72.4	173,920	185,036
Corn for grain .....bushels	173.4	177.3	13,650,531	15,341,595
Corn for silage ..... tons	18.7	20.1	128,287	129,994
Hay, all ..... tons	2.29	2.25	111,738	118,769
Alfalfa ..... tons	3.22	3.19	48,838	49,916
All other ..... tons	1.87	1.85	62,900	68,853
Oats .....bushels	65.5	68.6	57,669	57,045
Proso millet .....bushels	18.6	34.2	9,158	19,572
Rice <sup>2</sup> ..... cwt	7,385	7,649	160,041	218,291
Rye .....bushels	36.1	32.2	12,453	10,375
Sorghum for grain .....bushels	41.1	52.0	187,785	317,745
Sorghum for silage ..... tons	10.8	13.0	5,662	4,981
Wheat, all .....bushels	46.5	48.6	1,649,713	1,811,977
Winter .....bushels	47.0	50.6	1,103,062	1,247,748
Durum .....bushels	40.5	37.0	63,981	59,329
Other spring .....bushels	46.2	46.0	482,670	504,900
<b>Oilseeds</b>				
Canola ..... pounds	1,763	1,793	3,814,823	4,157,420
Cottonseed ..... tons	(X)	(X)	4,415.0	3,788.0
Flaxseed .....bushels	17.7	18.5	4,282	2,961
Mustard seed ..... pounds	554	627	97,290	149,305
Peanuts ..... pounds	4,012	3,742	5,541,772	5,890,020
Rapeseed ..... pounds	1,888	2,003	19,640	20,230
Safflower ..... pounds	1,209	1,036	161,450	130,570
Soybeans for beans .....bushels	49.6	50.6	4,270,381	4,164,677
Sunflower ..... pounds	1,756	1,786	2,808,555	2,263,520
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> ..... bales	953	845	14,468.0	12,434.0
Upland <sup>2</sup> ..... bales	945	841	13,998.0	12,127.0
American Pima <sup>2</sup> ..... bales	1,281	1,054	470.0	307.0
Sugarbeets ..... tons	28.7	31.2	32,644	35,226
Sugarcane ..... tons	37.3	35.4	34,671	32,956
Tobacco ..... pounds	2,208	2,305	437,775	432,452
<b>Dry beans, peas, and lentils</b>				
Chickpeas <sup>2</sup> ..... cwt	1,079	1,315	3,686	4,722
Dry edible beans <sup>2</sup> ..... cwt	2,111	2,067	25,734	23,910
Dry edible peas <sup>2</sup> ..... cwt	1,747	1,922	15,517	18,086
Lentils <sup>2</sup> ..... cwt	913	1,098	5,650	5,742
<b>Potatoes and miscellaneous</b>				
Hops ..... pounds	1,694	1,915	101,855.7	104,042.5
Maple syrup ..... gallons	(NA)	(NA)	5,988	4,179
Mushrooms ..... pounds	(NA)	(NA)	702,391	666,647
Peppermint oil ..... pounds	101	90	3,395	2,811
Potatoes ..... cwt	438	459	402,054	440,750
Spearmint oil ..... pounds	120	126	1,648	1,541

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Yield in pounds.

## Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2022 and 2023

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year]

Crop	Area planted		Area harvested	
	2022	2023	2022	2023
	(hectares)	(hectares)	(hectares)	(hectares)
<b>Grains and hay</b>				
Barley .....	1,184,530	1,254,940	981,370	1,033,980
Corn for grain <sup>1</sup> .....	35,678,280	38,300,270	31,851,130	35,010,950
Corn for silage .....	(NA)	(NA)	2,772,530	2,618,750
Hay, all <sup>2</sup> .....	(NA)	(NA)	19,712,850	21,376,130
Alfalfa .....	(NA)	(NA)	6,132,270	6,326,920
All other .....	(NA)	(NA)	13,580,590	15,049,210
Oats .....	1,044,910	1,033,980	356,130	336,300
Proso millet .....	257,790	250,500	199,510	231,480
Rice .....	898,010	1,171,170	876,960	1,154,990
Rye .....	880,200	927,950	139,620	130,310
Sorghum for grain <sup>1</sup> .....	2,559,660	2,911,740	1,849,430	2,474,680
Sorghum for silage .....	(NA)	(NA)	212,460	155,400
Wheat, all <sup>2</sup> .....	18,522,260	20,062,510	14,360,420	15,083,610
Winter .....	13,468,490	14,851,720	9,491,600	9,988,960
Durum .....	660,860	678,260	639,810	649,120
Other spring .....	4,392,910	4,532,530	4,229,010	4,445,520
<b>Oilseeds</b>				
Canola .....	892,750	948,800	875,630	938,560
Cottonseed .....	(X)	(X)	(X)	(X)
Flaxseed .....	106,430	72,030	97,930	64,750
Mustard seed .....	86,810	99,150	71,100	96,360
Peanuts .....	586,190	665,720	559,040	636,980
Rapeseed .....	4,410	5,340	4,210	4,090
Safflower .....	59,980	52,410	54,030	50,990
Soybeans for beans .....	35,390,140	33,832,080	34,873,760	33,328,650
Sunflower .....	682,910	532,170	647,300	512,940
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	5,564,080	4,139,980	2,950,030	2,858,970
Upland .....	5,490,430	4,080,490	2,878,760	2,802,400
American Pima .....	73,650	59,490	71,270	56,580
Sugarbeets .....	469,280	460,290	460,330	456,210
Sugarcane .....	(NA)	(NA)	376,440	376,970
Tobacco .....	(NA)	(NA)	80,240	75,930
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	144,640	150,710	138,280	145,360
Dry edible beans .....	502,220	477,530	493,400	468,190
Dry edible peas .....	382,430	390,930	359,360	380,810
Lentils .....	275,190	220,960	250,500	211,650
<b>Potatoes and miscellaneous</b>				
Hops .....	(NA)	(NA)	24,330	21,980
Maple syrup .....	(NA)	(NA)	(NA)	(NA)
Mushrooms .....	(NA)	(NA)	(NA)	(NA)
Peppermint oil .....	(NA)	(NA)	13,560	12,670
Potatoes .....	373,530	390,530	371,590	388,580
Spearmint oil .....	(NA)	(NA)	5,540	4,940

See footnote(s) at end of table.

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**Crop Area Planted and Harvested, Yield, and Production in Metric Units – United States:  
2022 and 2023 (continued)**

[Data are the latest estimates available, either from the current report or from previous reports. Current year estimates are for the full 2023 crop year]

Crop	Yield per hectare		Production	
	2022	2023	2022	2023
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
<b>Grains and hay</b>				
Barley .....	3.86	3.90	3,786,660	4,028,680
Corn for grain .....	10.89	11.13	346,739,460	389,694,460
Corn for silage .....	41.98	45.03	116,380,010	117,928,570
Hay, all <sup>2</sup> .....	5.14	5.04	101,367,010	107,745,420
Alfalfa .....	7.22	7.16	44,305,090	45,283,030
All other .....	4.20	4.15	57,061,920	62,462,390
Oats .....	2.35	2.46	837,060	828,010
Proso millet .....	1.04	1.92	207,700	443,890
Rice .....	8.28	8.57	7,259,340	9,901,510
Rye .....	2.27	2.02	316,320	263,540
Sorghum for grain .....	2.58	3.26	4,769,960	8,071,090
Sorghum for silage .....	24.18	29.08	5,136,480	4,518,690
Wheat, all <sup>2</sup> .....	3.13	3.27	44,897,830	49,313,930
Winter .....	3.16	3.40	30,020,430	33,958,140
Durum .....	2.72	2.49	1,741,280	1,614,670
Other spring .....	3.11	3.09	13,136,120	13,741,130
<b>Oilseeds</b>				
Canola .....	1.98	2.01	1,730,370	1,885,770
Cottonseed .....	(X)	(X)	4,005,220	3,436,420
Flaxseed .....	1.11	1.16	108,770	75,210
Mustard seed .....	0.62	0.70	44,130	67,720
Peanuts .....	4.50	4.19	2,513,710	2,671,670
Rapeseed .....	2.12	2.25	8,910	9,180
Safflower .....	1.36	1.16	73,230	59,230
Soybeans for beans .....	3.33	3.40	116,220,720	113,343,930
Sunflower .....	1.97	2.00	1,273,940	1,026,720
<b>Cotton, tobacco, and sugar crops</b>				
Cotton, all <sup>2</sup> .....	1.07	0.95	3,150,040	2,707,180
Upland .....	1.06	0.94	3,047,710	2,640,340
American Pima .....	1.44	1.18	102,330	66,840
Sugarbeets .....	64.33	70.05	29,614,140	31,956,490
Sugarcane .....	83.55	79.31	31,453,000	29,897,180
Tobacco .....	2.47	2.58	198,570	196,160
<b>Dry beans, peas, and lentils</b>				
Chickpeas .....	1.21	1.47	167,190	214,190
Dry edible beans .....	2.37	2.32	1,167,270	1,084,540
Dry edible peas .....	1.96	2.15	703,840	820,370
Lentils .....	1.02	1.23	256,280	260,450
<b>Potatoes and miscellaneous</b>				
Hops .....	1.90	2.15	46,200	47,190
Maple syrup .....	(NA)	(NA)	29,940	20,900
Mushrooms .....	(NA)	(NA)	318,600	302,390
Peppermint oil .....	0.11	0.10	1,540	1,280
Potatoes .....	49.08	51.45	18,236,860	19,992,090
Spearmint oil .....	0.13	0.14	750	700

(NA) Not available.

(X) Not applicable.

<sup>1</sup> Area planted for all purposes.

<sup>2</sup> Total may not add due to rounding.

## 2023 Annual Weather Summary

**Highlights:** The year began with La Niña in progress but ended with a strong El Niño well underway. The transition to the warm (El Niño) phase of the Southern Oscillation began by late winter and was fully complete by late spring, with the National Weather Service (NWS) issuing an El Niño advisory on June 8. Although many months passed before the atmosphere fully responded to the abrupt changes in the equatorial Pacific Ocean, meteorological signs of the presence of El Niño were apparent by the end of 2023. Late-year developments related to El Niño included unusually mild weather across the northern United States and increasingly stormy conditions in parts of the South and East. On November 9, the NWS noted “above-average sea surface temperatures across the equatorial Pacific Ocean were indicative of a strong El Niño.” By December 14, the NWS added that “the coupled ocean-atmosphere system reflected a strong El Niño.”

Despite the arrival and evolution of El Niño, above-average tropical activity was observed during 2023 in the Atlantic Basin, with 19 named tropical cyclones and one unnamed system. The unnamed subtropical storm, a short-lived system, unexpectedly developed in the dead of winter, on January 16, less than 350 miles southeast of Nantucket, Massachusetts, before sweeping across Atlantic Canada the following day. The total of 20 tropical or subtropical cyclones tied 1933 for the fourth-highest sum on record, behind 2020 (30); 2005 (28); and 2021 (21). The final count of 20 Atlantic tropical cyclones was a record for an El Niño year, as above-average sea surface temperatures helped to offset the typical suppression of activity related to increased westerly wind shear. However, the mainland United States escaped with direct strikes from just three cyclones, including Category 3 Hurricane Idalia, which struck Florida’s Big Bend region on August 30, and Tropical Storms Harold and Ophelia. Harold made landfall on Padre Island, Texas, on August 22, followed by Ophelia moving inland near Emerald Isle, North Carolina, on September 23. Meanwhile in the Pacific Basin, former Hurricane Hilary became the first tropical cyclone to result in the issuance of an official NWS Tropical Storm Warning for southern California, when the weakening system arrived on August 20. Several other Pacific tropical cyclones helped to enhance rainfall in parts of the central and southern United States, with October featuring moisture contributions from the remnants of Tropical Storm Max and Hurricanes Lidia, Norma, and Otis.

Severe thunderstorms were a common occurrence during 2023, with the National Oceanic and Atmospheric Administration cataloguing at least 19 individual outbreaks that caused at least \$1 billion in property damage. The bulk of the severe weather, which included high winds, large hail, and isolated tornadoes, occurred in the spring and summer, with all but one of the outbreaks noted from March to August. Three of the severe weather outbreaks—on March 2-3, March 31-April 1, and June 21-26—caused more than \$5 billion in property damage. The first two occurred before summer crops had been planted, but the June outbreak, which primarily struck from the High Plains into parts of the Midwest and mid-South, resulted in some crop and agricultural infrastructure losses. For the year, the NWS reported 83 tornado-related fatalities, the most since 2021 (103 deaths), and before that, 2011 (553 deaths). There were deadly tornado outbreaks in each of the first 6 months of the year, as well as one apiece in August and December. There were 23 tornado fatalities on March 24 in Alabama and Mississippi, as well as 26 deaths on March 31 – April 1, mostly across the mid-South and lower Midwest.

Overall, it was a relatively quiet year for wildfires in the United States, with only 2.6 million acres of vegetation burned, based on preliminary statistics provided by the National Interagency Fire Center. Although that total was only about 37 percent of the 10-year average of 7.1 million acres, the Nation also endured its deadliest wildfire in more than a century. On August 8 in Hawaii, the historic town of Lahaina, Maui, was destroyed by a fast-moving fire, resulting in 100 fatalities and at least \$5.6 billion in property damage. Several factors, including strong easterly winds and short-term drought following a late-spring wet spell, contributed to the Lahaina disaster. The high winds occurred as the Hawaiian Islands were briefly caught between two weather systems—a strong ridge of high pressure to the north and Hurricane Dora passing several hundred miles to the south. In modern times, the previous most deadly wildfire had occurred in November 2018, when the Camp Fire resulted in 85 fatalities and destroyed the town of Paradise, California.

After 126 weeks (September 29, 2020 – February 21, 2023), drought coverage across the contiguous United States finally fell below 40 percent, according to the *Drought Monitor*. By May 30, coverage had dipped to 19 percent, only to rebound to more than 40 percent for 2 weeks in October. For the remainder of 2023, drought coverage generally decreased, falling to 32 percent by December 26. The biggest improvement in drought during 2023 occurred across the Plains and parts of the West, especially in California, the Great Basin, and the Intermountain West. During October, California attained drought-free status for the first time since February 2020. Before significant drought improvement occurred on the Plains,

the Nation endured its highest winter wheat abandonment rate since 1917, with the U.S. Department of Agriculture indicating that nearly 33 percent of the planted acreage was not harvested. Meanwhile, a net worsening of drought conditions occurred during 2023 in several regions, including parts of the western Corn Belt and the Southwest. Extreme summer heat and poor monsoon-related rainfall contributed to increased drought coverage and intensity in the latter region. Farther east, a significant “flash drought” gripped parts of the South during the summer and autumn months, accompanied by record-setting heat, with profound impacts on pastures and a variety of summer crops, including cotton and sugarcane. Some of the worst heat- and drought-related impacts stretched from the Mississippi Delta into the Tennessee Valley.

Even amid ongoing pockets of significant drought, several significant flood events affected various parts of the country. Notably, incessant storminess during the Western winter wet season of 2022-23 greatly reduced Western drought coverage, but also led to periods of extensive flooding, especially in some of California’s key agricultural areas. In the 11-state Western region, drought coverage decreased from 74 percent on September 27, 2022, to less than 15 percent by June 27, 2023. In January, a record crest (3.09 feet above flood stage) was reported on January 9 in Paso Robles, California. Farther downstream, the Salinas River at Bradley crested 5.88 feet above flood stage on January 10. It was the third-highest crest in Bradley, below the high-water marks of March 1995 and February 1969. Due to broken or compromised levees in the Salinas Valley, significant agricultural land remained under water after the crest passed. Two months later, on March 11, the Pajaro River at Chittenden, California, achieved its highest crest since February 1998. Along the same waterway, extensive levee breaks flooded the northern Monterey County community of Pajaro, as well as neighboring agricultural land. Later in March, the Tulare Lake basin (in California’s San Joaquin Valley) began to fill, covering pastures, fields, and orchards, while threatening low-lying communities such as Alpaugh and Allensworth. The historic lakebed, normally kept dry by a network of canals and levees, partially floods during and after extremely wet seasons, such as 1968-69; 1982-83; and 1997-98. Another of the year’s more consequential floods occurred in July across the Northeast. In Vermont, crests on Otter Creek at Center Rutland and Williams River near Rockingham were second only to the Hurricane Irene-induced high-water marks of August 28-29, 2011.

Overall, 2023 was dominated by above-normal temperatures, with records being set for warmest year on record in countless communities across the South and East. According to preliminary information provided by the National Centers for Environmental Information, it was officially the warmest year on record in Louisiana, Massachusetts, Mississippi, New Hampshire, and Texas, and among the ten warmest in New Mexico, Oklahoma, Washington, and all states bordering the Mississippi River to the Atlantic Coast. For the Lower 48 States, it was the fifth-warmest year during the 1895-2023 period of record, with an annual average temperature of 54.4°F (2.4°F above the 20th century mean). The four warmer years—2012, 2016, 2017, and 2021—all occurred in the 21st century.

**Winter 2022-23:** Although the winter of 2022-23 was overall mild and wet across the Lower 48 States, the central and southern Plains continued to suffer from soil moisture shortages and poor rangeland, pasture, and winter wheat conditions. By February 26, at least 40 percent of the winter wheat was rated in very poor to poor condition in Kansas (51 percent), Texas (49 percent), Oklahoma (41 percent), and Nebraska (40 percent). On the same date, statewide topsoil moisture in Texas was rated 72 percent very short to short, while rangeland and pastures were rated 68 percent very poor to poor. Western Texas dealt with a pair of late-winter dust storms, the second of which (on February 26) featured wind gusts of 60 to 100 mph or higher.

In contrast, a phenomenal winter wet season unfolded across the West—excluding areas from the Pacific Northwest to the northern Rockies—with periods of intense precipitation concentrated in early December, late December to mid-January, and during the final days of February. Some of the worst large-scale flooding occurred in early January in the heavily agricultural Salinas Valley, which endured breached levees and inundation of fields, roads, and farm infrastructure and equipment. By March 1, the average water equivalency of the Sierra Nevada snowpack grew to nearly 45 inches, on par with end-of-season values in California’s last two wet winters—2016-17 and 2018-19—according to the California Department of Water Resources.

The band of unusually stormy weather extended northeastward across portions of the northern Plains and upper Midwest, where some locations that received snow in November retained coverage throughout the winter. With wintry conditions lingering through the end of winter in the north-central United States, some farmers struggled through the early stages of lambing and calving season. Additionally, livestock producers in parts of the eastern Corn Belt contended with muddy

conditions. Farther south, spring-like thunderstorms spawned dozens of tornadoes in the heart of winter, especially from January 2-4, 11-12, and 24-25. Tornadoes were reported as far north as central Illinois (on January 3) and eastern Iowa (on January 16). The first tornado-related deaths of the year occurred on January 12, with seven fatalities in Autauga County, Alabama, and one in Spalding County, Georgia. The Nation's preliminary monthly count of 168 January tornadoes was second only to 214 in 1999.

Although much of the winter was cold in the West and mild across the South, East, and lower Midwest, there were notable exceptions. Winter's harshest cold outbreak struck for about a week during the second half of December, resulting in freezes in nearly all areas east of the Rockies, except southern Florida. Another cold wave arrived as January ended and February began, contributing to a multi-day ice storm from central Texas into the mid-South. Later in February, an extended spell of record-setting warmth across the South contributed to an increased risk of spring freezes causing damage to blooming fruit crops.

**Spring:** The West's frenetically stormy winter continued through March and into early April, followed by the return of more typical conditions. Still, long-term Western drought was largely eradicated by mid-spring, except across the region's northern tier. However, early- to mid-spring precipitation largely bypassed a core drought area in the Nation's mid-section, leaving extreme to exceptional drought (D3 to D4) intact, mainly from eastern Nebraska into parts of Texas. The lack of rain, following winter drought and temperature extremes, left a portion of the winter wheat crop in terrible shape. By May 30, more than one-third (35 percent) of the Nation's winter wheat crop was rated in very poor to poor condition, led by Kansas at 69 percent. Other states reporting more than one-quarter of the winter wheat in very poor to poor condition on that date were Nebraska (51 percent), Texas (40 percent), Colorado (39 percent), Oklahoma (27 percent) and Oregon (27 percent).

During May, however, plentiful rain developed across the High Plains, with positive impacts on rangeland, pastures, immature winter wheat, and emerging summer crops. Rangeland and pastures started the season on May 7 rated 37 percent very poor to poor, improving to 22 percent by May 28. On the later date, Kansas led the Nation with 51 percent of its rangeland and pastures rated very poor to poor, followed by Nebraska at 43 percent. Several episodes of severe weather accompanied the unsettled conditions, with the most notable outbreaks occurring on March 24 and March 31 – April 1. There were 23 tornado-related fatalities on March 24 in Alabama, Arkansas, and Mississippi, followed by 26 deaths—mostly across the mid-South and lower Midwest—on March 31 and April 1. Meanwhile, emerging drought in the Northeast left 34 percent of Pennsylvania's pastures in very poor to poor condition by May 28. In contrast, the West benefited from the stormy winter and early spring, with rangeland and pastures rated at least one-half good to excellent on May 28 in six states, led by California (90 percent).

Midwestern spring dryness favored corn and soybean planting but reduced topsoil moisture for crop emergence and establishment. However, concerns were more acute west of the Mississippi River, where some longer-term drought issues already existed. By May 28, nearly all (92 percent) of the intended national corn acreage had been planted, versus the 5-year average of 84 percent. Soybean planting also advanced quickly—compared to the 5-year average pace of 65 percent—with 83 percent of the national acreage planted by May 28.

**Summer:** The tropics came alive during the last half of the final month of meteorological summer, with Hilary, an eastern Pacific storm, moving into southern California on August 20, and Atlantic Basin cyclones Harold and Idalia making landfall in Texas (on August 22) and Florida (on August 30), respectively. Hilary, the first tropical storm with an inland position over California since September 1939, was an extraordinarily rare event, while Idalia became the first major hurricane (Category 3 or higher) in modern history to strike Florida's Big Bend region. Harold was a much weaker tropical system, with sustained winds near 50 mph while moving ashore on Padre Island, Texas.

Before the tropical activity ramped up, summer weather in the United States was dominated by a pair of high-pressure ridges. The first, a sprawling, sub-tropical ridge, maintained hotter- and drier-than-normal weather across much of the Deep South, including the western and central Gulf Coast States and parts of the Southwest. The other, focused across higher latitudes of North America, led to dry weather in the Pacific Northwest and upper Midwest. The Northern high also contributed to rampant Canadian wildfires, which charred more than 40 million acres of vegetation by the end of August and nearly 46 million acres for the year. Wildfire smoke frequently drifted southward across the Canadian border, resulting in hazy sunshine and reduced air quality. Moisture squeezing between the ridges of high pressure kept several

areas rather wet. Notably, abundant rain fell across much of the Intermountain West, as well as portions of the High Plains. Much of the eastern United States also experienced a wetter-than-normal summer, although excessive July rainfall in New England sparked near-record flooding.

According to the *Drought Monitor*, drought coverage across the Lower 48 States increased from a 3-year low of 19 percent at the end of May to 34 percent by August 29. Near the end of August, extreme to exceptional drought (D3 to D4) covered parts of fifteen states, including 74 percent of Louisiana, 32 percent of Texas, and 10 to 20 percent of Iowa, Kansas, Minnesota, Mississippi, Nebraska, New Mexico, and Wisconsin. During the summer of 2023, worsening drought was observed in several areas, including the western and central Gulf Coast States; parts of the Southwest; and an area across the Nation's northern tier, from the Pacific Northwest into the upper Midwest. Conversely, broad improvement in the drought situation occurred during the summer months across the Intermountain West; large sections of the Plains; and an area stretching from the eastern Corn Belt into the Northeast.

**Autumn:** The tropics remained active in September and October, with impacts in the United States occurring from cyclones in both the Atlantic and Pacific Basins. Post-Tropical Cyclone Idalia moved away from the mainland United States in early September, with diminishing impacts along the Atlantic Coast. About 2 weeks later, former Hurricane Lee passed just east of Maine, with mostly minor wind- and rainfall-related impacts in parts of New England. Later, short-lived Tropical Storm Ophelia made landfall near Emerald Isle, North Carolina, on September 23. Even after Ophelia's dissipation, lingering rain along the Atlantic Coast resulted in locally extensive flooding on September 29 in the New York City metropolitan area. In October, the tropical focus shifted to the Pacific Ocean, where four cyclones contributed to rainfall in the United States. On October 9 and 10, respectively, Tropical Storm Max and Hurricane Lidia made landfall on Mexico's Pacific Coast, with residual rainfall eventually reaching the southern United States, from southern Texas to the southern Atlantic Coast. Later in October, a tropically enhanced plume of moisture racing northeastward in advance of a cold front led to significant rainfall from Texas into the Great Lakes States. The front entrained moisture associated with the terrain-shredded remnants of Hurricanes Norma and Otis, both of which made landfall in Mexico.

Despite autumn warmth dominating the country, cold weather made periodic appearances, especially in late October. Still, the lack of sustained cold conditions allowed most summer crops to dry down without freeze-related concerns. By the time sub-freezing temperatures engulfed the country—excluding warmer areas of the Far West, Desert Southwest, and Deep South—crops were largely mature or had already been harvested. Meanwhile, winter wheat planting and emergence proceeded roughly on schedule, although pockets of drought resulted in uneven stands across parts of the Plains and Northwest. Nationally, wheat headed into dormancy in its best overall shape in 4 years, since autumn 2019.

According to the *Drought Monitor*, extreme to exceptional drought (D3 to D4) covered parts of 20 contiguous states on November 29, including 89 percent of Mississippi, 87 percent of Louisiana, 43 percent of New Mexico, 35 percent of Tennessee, 33 percent of Alabama, and 27 percent of Iowa. During much of the autumn of 2023, worsening drought gripped the Southeast, although some relief arrived in late November. Elsewhere, drought developed or intensified in parts of the Southwest and lower Midwest, while improving conditions were noted across portions of the Nation's northern tier and much of an area broadly extending from Texas into the upper Great Lakes region. Given the protracted drought across much of the Mississippi River watershed, autumn water levels dipped to record-low levels at some gauge sites—mainly from Cairo, Illinois, near the confluence of the Ohio and Mississippi Rivers, downstream into the northern Mississippi Delta. Between October 15 and 17, modern record-low levels set just last year were broken along the Mississippi from New Madrid, Missouri, to Memphis, Tennessee. In Memphis, the October 17 minimum gauge reading of -12.04 feet stood 1.23 feet below the October 2022 low-water mark.

**December:** December featured periods of significant precipitation in several areas of the country, including large sections of the Plains, upper Midwest, and Atlantic Coast States. However, drier-than-normal December weather dominated the mid-South and interior sections of the western United States. In the latter region, mountain snowpack was slow to build, due to a combination of mild weather and lack of storminess. According to the California Department of Water Resources, the average water equivalency of the Sierra Nevada snowpack stood at 2.5 inches by month's end, approximately one quarter of the end-of-December average.

Mild December weather covered not only the West, but also the remainder of the country. Characteristic of El Niño, which developed several months ago but only recently began to strongly influence North American weather patterns, the warmest weather—with temperatures averaging at least 6 to 12°F above normal—stretched from the northern and central Plains into the Northeast. Even relatively cooler areas, such as the lower Southeast, noted near- or slightly above-normal December temperatures. For parts of the northern Plains and upper Midwest, it was the warmest December on record. In South Dakota alone, it was the warmest December in dozens of communities, including Huron, Mitchell, Mobridge, Sioux Falls, Sisseton, and Watertown. In each of those locations, previous records for December warmth had been set in 1939 or earlier.

The mild weather, accompanied by periods of rain and snow, favored overwintering wheat, despite lingering pockets of drought. Based on *Drought Monitor*-derived statistics, drought covered 30 percent of the Nation’s winter wheat production area on December 26, down from a recent (October 2023) peak of 49 percent. According to USDA/NASS, winter wheat rated in very poor to poor condition improved in a few key production states between November 26 and December 31. For example, winter wheat rated very poor to poor in Kansas decreased from 32 to 21 percent during that 5-week period. At the same time, wheat rated good to excellent jumped from 53 to 67 percent in Oklahoma and from 32 to 43 percent in Kansas.

Nationally, drought coverage decreased from 36 to 32 percent between November 28 and December 26, according to the *Drought Monitor*. General improvement in the drought situation was noted across the central and southern Plains, upper Midwest, and Pacific Northwest, as well as an area stretching from the central Gulf Coast into the middle Atlantic States. Record-setting December wetness affected portions of the mid-Atlantic, including Richmond, Virginia, and Allentown, Pennsylvania. However, those improvements were partially offset by worsening drought in a few areas, including the mid-South, lower Midwest, and portions of the northern Rockies and environs.

## 2023 Annual Crop Summary

**April:** April was cooler than normal for much of the western half of the Nation. Large parts of the Northern Plains and Rockies recorded temperatures 6°F or more below normal. In contrast, except for the Lower Mississippi Valley, much of the eastern half of the Nation was warmer than normal. Parts of Florida, southern Georgia, the Mid-Atlantic, and Northeast recorded temperatures 4°F or more above normal for the month. While most of the Southwest remained dry, higher than normal amounts of precipitation were recorded in much of the Great Lakes, Mid-Atlantic, Pacific Northwest, and the South. Parts of the Pacific Northwest and the South recorded 7 inches of rain or more during the month. By April 16, producers had planted 8 percent of the Nation’s corn crop, 4 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Nationwide, 8 percent of the cotton crop was planted by April 16, two percentage points behind the previous year and 1 percentage point behind the 5-year average. By April 30, producers had planted 26 percent of the Nation’s corn crop, 13 percentage points ahead of last year but equal to the 5-year average. Nationwide, 15 percent of the cotton crop was planted by April 30, equal to the previous year but 1 percentage point ahead of the 5-year average.

**May:** Except for the Nation’s East and Southwest, May was warmer than average. Parts of the Upper Midwest, Pacific Northwest, Northern Plains, and Northern Rockies recorded temperatures 6°F or more above normal. In contrast, locations in Alabama, Southern Arizona, Southern California, and the Carolinas recorded temperatures 4°F or more below normal. While most of the eastern half of the Nation remained drier than normal, at least twice the normal amount of rainfall was recorded in parts of the Great Basin, Great Plains, and Southwest, as well as locations in Maine and the Southeast. Locations in the Great Plains recorded 8 inches or more of rain for the month. By May 14, producers had planted 65 percent of the Nation’s corn crop, 20 percentage points ahead of last year and 6 percentage points ahead of the 5-year average. Thirty percent of the Nation’s corn acreage had emerged by May 14, seventeen percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. Nationwide, 35 percent of the cotton crop was planted by May 14, equal to the previous year but 1 percentage point behind the 5-year average. Twenty-eight percent of the Nation’s sorghum acreage was planted by May 14, three percentage points ahead of the previous year but equal to the 5-year average. Fifty-one percent of the Nation’s barley crop was planted by May 14, eight percentage points behind last year and 16 percentage points behind the 5-year average. Eighty-three percent of the Nation’s soybean acreage was planted by May 28, nineteen percentage points ahead of last year and 18 percentage points ahead of the 5-year average.

By May 28, eighty-five percent of the spring wheat crop was seeded, 15 percentage points ahead of last year but 1 percentage point behind the 5-year average.

**June:** June was warmer than average for most of the Upper Midwest, Lower Mississippi Valley, Pacific Northwest, Northern Plains, and southern Texas. Parts of the Northern Plains, as well as locations in south Texas and coastal Louisiana, recorded temperature 6°F or more above normal. In contrast, most of the Great Basin, East, Central Plains, Rockies, and Southwest recorded cooler than normal temperatures. Locations in California, Oklahoma, and along the Nevada-Utah border recorded temperatures 6°F or more below normal. While most of the Western Gulf, Midwest, Pacific Northwest, and Southwest remained drier than normal for the month of June, parts of the Great Basin, California, Central Plains, and Rockies received at least twice the normal amount of precipitation. Locations in central Maine and the Southeast also recorded twice the normal amount of rain. By June 4, producers had planted 96 percent of the Nation's corn crop, 3 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. Ninety-two percent of the Nation's barley crop was planted by June 4, two percentage points ahead of last year but 3 percentage points behind the 5-year average. Nationally, peanut producers had planted 93 percent of the 2023 peanut acreage by June 11, equal to last year but 1 percentage point ahead of the 5-year average. By June 11, ninety percent of the Nation's spring wheat crop had emerged, 20 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. By June 11, ninety-four percent of the Nation's rice acreage had emerged, equal to both last year and the 5-year average. Ninety-three percent of the Nation's corn acreage had emerged by June 11, six percentage points ahead of both the previous year and the 5-year average. Eighty-eight percent of the Nation's barley crop had emerged by June 11, three percentage points ahead of the previous year but 2 percentage points behind the 5-year average. Nationwide, 81 percent of the cotton crop was planted by June 11, eight percentage points behind the previous year and 5 percentage points behind the 5-year average. Ninety-six percent of the Nation's soybean acreage was planted by June 11, nine percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Ninety-six percent of the Nation's soybean acreage had emerged by June 25, six percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Eighty-five percent of the Nation's sorghum acreage was planted by June 25, four percentage points behind the previous year and 7 percentage points behind the 5-year average.

**July:** July was warmer than average for much of the Nation. Parts of Louisiana, Maine, Oregon, the Southwest, Texas, and Utah recorded temperatures 4°F or more above normal for the month. In contrast, much of the upper Midwest, and Great Plains, as well as parts of the Rockies, were cooler than average. Locations in the Great Basin and Northern Plains recorded temperatures 4°F or more below normal. Much of the southern Delta, upper Midwest, Southwest, and West remained drier than normal for the month. In contrast, parts of the Great Lakes, Mississippi Valley, Northeast, and Great Plains, as well as locations in the Mid-Atlantic, Rockies, and Southwest, recorded at least twice the normal amount of precipitation. Heavy rainfall in the Northeast led to catastrophic flooding in parts of New York and New England. Locations in Connecticut, Massachusetts, and Vermont recorded 12 inches or more of rain for the month. Seventy-eight percent of the Nation's oat acreage had headed by July 2, thirteen percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Thirty-seven percent of the Nation's barley acreage had reached the headed stage by July 2, three percentage points behind last year and 10 percentage points behind the 5-year average. By July 2, fifty-one percent of the Nation's spring wheat crop had reached the headed stage, 33 percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. By July 16, fifty-six percent of the Nation's soybean acreage had reached the blooming stage, 10 percentage points ahead of last year and 5 percentage points ahead of the 5-year average. By July 16, thirty-six percent of the Nation's rice acreage had reached the headed stage, 9 percentage points ahead of the previous year and 7 percentage points ahead of the 5-year average. Nationally, 20 percent of the Nation's soybean acreage had begun setting pods by July 16, seven percentage points ahead of last year and 3 percentage points ahead of the 5-year average. Eighty-six percent of the Nation's cotton acreage had reached the squaring stage by July 30, two percentage points behind last year and 1 percentage point behind the 5-year average. By July 30, forty-seven percent of the Nation's cotton acreage had begun setting bolls, 10 percentage points behind last year and 3 percentage points behind the 5-year average. By July 30, eighty-four percent of the Nation's corn acreage had reached the silking stage, 7 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. By July 30, forty-five percent of the Nation's sorghum acreage had reached the headed stage, 3 percentage points ahead of last year but 2 percentage points behind the 5-year average. By July 30, eighty-eight percent of the Nation's peanut crop had reached the pegging stage, equal to the previous year but 1 percentage point ahead of the 5-year average.

**August:** August was warmer than average for much of the Nation. Large parts of the Lower Mississippi Valley and Southern Plains recorded temperatures 6°F or more above normal for the month. In contrast much of the Great Basin, Southern California, Great Lakes, Northeast, and Ohio Valley were cooler than normal. While much of the Lower Mississippi Valley and Southern Plains remained drier than normal, the effects of Tropical Storm Hilary brought at least eight times the normal amount of precipitation to much of the Great Basin and California. In addition, at least twice the normal amount of precipitation fell on parts of the Great Lakes, Middle Mississippi Valley, Northeast, Pacific Northwest, Northern Plains, Rockies, Southeast, and Southwest. Due in large part to the effects of Hurricane Idalia at the end of the month, 10 inches or more of rain was recorded in parts of the Carolinas, Florida, Georgia, and the Middle Mississippi Valley. By August 6, ninety-three percent of the Nation's corn acreage had reached the silking stage, 4 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. By August 6, forty-seven percent of the corn acreage was at or beyond the dough stage, 5 percentage points ahead of last year and 1 percentage point ahead of the 5-year average. By August 13, ninety-four percent of the Nation's soybean acreage had reached the blooming stage, 2 percentage points ahead of both last year and the 5-year average. By August 13, eighty-seven percent of the Nation's rice acreage had reached the headed stage, 5 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. By August 20, barley producers had harvested 49 percent of the Nation's barley crop, 7 percentage points ahead of last year but 3 percentage points behind the 5-year average. On August 20, forty-nine percent of the Nation's barley acreage was rated in good to excellent condition, 5 percentage points below the same time in 2022. By August 27, fifty-four percent of the Nation's spring wheat had been harvested, 6 percentage points ahead of the previous year but 9 percentage points behind the 5-year average. On August 27, thirty-seven percent of the Nation's spring wheat was rated in good to excellent condition, 31 percentage points below the same time in 2022. By August 27, eighty-nine percent of the Nation's sorghum acreage had reached the headed stage, 2 percentage points ahead of last year but 2 percentage points behind the 5-year average. Eighty-two percent of the Nation's oat acreage had been harvested by August 27, three percentage points ahead of last year but 3 percentage points behind the 5-year average. By August 27, ninety-one percent of the Nation's soybean acreage had begun setting pods, 1 percentage point ahead of both last year and the 5-year average. By August 27, ninety percent of the Nation's cotton acreage had begun setting bolls, 3 percentage points behind last year but equal to the 5-year average.

**September:** September was warmer than normal for most of the Nation. Parts of the upper Midwest, New England, Great Plains, and Southwest recorded temperatures 4°F or more above normal for the month. In contrast, most of the Great Basin and California, as well as large parts of the southern Atlantic Coast and Pacific Northwest, were cooler than normal. Locations in California, Nevada, and Utah recorded temperatures 4°F or more below normal. While much of the East remained drier than normal, parts of the Northeast Coast and locations along Lake Superior recorded at least twice the normal amount of precipitation for the month. Parts of Florida and the Northeast Coast received 8 inches or more of rain for the month. In the West, while large parts of California and Texas remained dry, much of the Great Basin and large parts of the Pacific Northwest, as well as locations in the Plains, Rockies, and Southwest, recorded at least twice the normal amount of precipitation. By September 3, sixty-seven percent of this year's corn acreage was denting, 6 percentage points ahead of last year and 2 percentage points ahead of the 5-year average. Ninety percent of the Nation's oat acreage had been harvested by September 3, one percentage point ahead of last year but 2 percentage points behind the 5-year average. Nationally, 45 percent of the rice acreage was harvested by September 10, twelve percentage points ahead of last year and 10 percentage points ahead of the 5-year average. On September 10, seventy-one percent of the Nation's rice acreage was rated in good to excellent condition, 1 percentage point below the same time in 2022. Fifty-four percent of the Nation's corn acreage was mature by September 17, sixteen percentage points ahead of last year and 10 percentage points ahead of the 5-year average. By September 17, barley producers had harvested 93 percent of the Nation's barley crop, 1 percentage point behind the previous year and 2 percentage points behind the 5-year average. By September 17, ninety-three percent of the Nation's spring wheat had been harvested, equal to both the previous year and the 5-year average. Soybeans leaves dropping advanced to 54 percent complete Nationally by September 17, fifteen percentage points ahead of last year and 11 percentage points ahead of the 5-year average. Eighty-five percent of the Nation's sorghum acreage was at or beyond the coloring stage by September 17, two percentage points ahead of last year but 2 percentage points behind the 5-year average. Nationwide, producers had sown 15 percent of the intended 2024 winter wheat acreage by September 17, four percentage points behind last year and 1 percentage point behind the 5-year average. By September 24, sixty-five percent of the Nation's cotton had open bolls, 1 percentage point behind last year but 3 percentage points ahead of the 5-year average.

**October:** October was warmer than normal for most of the Nation. Parts of the Northeast recorded temperatures 6°F or more above normal for the month. In contrast, parts of the Northern Plains, Northern Rockies, and Southeast were moderately cooler than normal. While much of the Nation remained drier than normal for the month, parts of the upper Midwest, Great Plains, and Northern Rockies recorded at least twice the normal amount of precipitation. Parts of Texas recorded 10 inches of rain or more for the month. Soybean harvest across the Nation was 62 percent complete by October 15, two percentage points ahead of last year and 10 percentage points ahead of the 5-year average. Nationally, 88 percent of the rice acreage was harvested by October 15, equal to both last year and the 5-year average. Forty-five percent of the 2023 corn acreage had been harvested by October 15, two percentage points ahead of last year and 3 percentage points ahead of the 5-year average harvest pace. As of October 15, fifty-three percent of the Nation's corn acreage was rated in good to excellent condition, equal to the same time in 2022. Fifty-three percent of the 2023 sorghum acreage had been harvested by October 15, two percentage points behind last year but 2 percentage points ahead of the 5-year average. Forty-two percent of the Nation's sorghum acreage was rated in good to excellent condition on October 15, twenty percentage points above the same time in 2022. Nationwide, producers had sown 68 percent of the intended 2024 winter wheat acreage by October 15, one percentage point ahead of last year but equal to the 5-year average. Fifty-five percent of the Nation's peanut acreage was harvested as of October 22, eleven percentage points behind last year and 3 percentage points behind the 5-year average. On October 22, forty-eight percent of the Nation's peanut acreage was rated in good to excellent condition, 14 percentage points below the same time in 2022. By October 29, forty-nine percent of the Nation's cotton acreage was harvested, 5 percentage points behind last year but 2 percentage points ahead of the 5-year average. On October 29, twenty-nine percent of the 2023 cotton acreage was rated in good to excellent condition, 1 percentage point below the same time in 2022. By October 29, sugarbeet producers had harvested 84 percent of the Nation's crop, 4 percentage points behind last year but 3 percentage points ahead of the 5-year average.

**November:** Most of the Nation recorded warmer than normal temperatures during the month of November. Parts of the Great Plains and Northern Rockies recorded temperature 6°F or more above normal for the month. In contrast, most of the Mid-Atlantic and Northeast, as well as parts of the Great Lakes, Southeast, South Texas, and West, were moderately cooler than normal. While most of the Nation was drier than normal for the month of November, at least twice the normal amount of precipitation was recorded in parts of Florida, the Southwest, Rockies, and South Texas. By November 5, sugarbeet producers had harvested 95 percent of the Nation's crop, 2 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Nationwide, producers had sown 93 percent of the intended 2024 winter wheat acreage by November 12, 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 12, one percentage point ahead of both last year and the 5-year average. Soybean harvest across the Nation was 95 percent complete by November 12, one percentage point behind last year but 4 percentage points ahead of the 5-year average. Eighty-seven percent of the Nation's peanut acreage was harvested as of November 12, three percentage points behind last year but 1 percentage point ahead of the 5-year average. Eighty-eight percent of the 2023 corn acreage was harvested by November 12, four percentage points behind last year but 2 percentage points ahead of the 5-year average harvest pace. Ninety-six percent of the 2023 sorghum acreage had been harvested by November 19, equal to last year but 4 percentage points ahead of the 5-year average. By November 26, eighty-six percent of this year's sunflower crop was harvested, 12 percentage points behind last year but 2 percentage points ahead of the 5-year average. As of November 26, fifty percent of the 2024 winter wheat acreage was reported in good to excellent condition, 16 percentage points above the same time in 2022. By November 26, eighty-three percent of the Nation's cotton acreage was harvested, equal to last year but 4 percentage points ahead of the 5-year average.

## Crop Comments

**Corn:** Corn for grain production in the United States was estimated at a record high 15.3 billion bushels, up 12 percent from the 2022 estimate. The average yield in the United States was estimated at a record high 177.3 bushels per acre, 3.9 bushels above the 2022 yield of 173.4 bushels per acre.

Estimated yields in 2023 were up from the previous year across the Northern Plains. Record high yields were estimated in Indiana, New Jersey, Ohio, South Carolina, and Utah.

Corn planted area, at 94.6 million acres, was up 7 percent from the 2022 estimate. Area harvested for grain was estimated at 86.5 million acres, up 10 percent from the 2022 estimate. Record high harvested for grain acres were estimated for

## North Dakota.

The 2023 corn objective yield data indicated the highest number of ears per acre 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 2023, up 1 percent from the 2022 estimate. The United States silage yield was estimated at 20.1 tons per acre, up 1.4 tons from 2022. Record high silage yields were estimated in Delaware, Georgia, Kentucky, New York, and Rhode Island. Area harvested for silage was estimated at 6.47 million acres, down 6 percent from the 2022 estimate. Record low acres harvested for silage were estimated in Alabama, Connecticut, Massachusetts, Rhode Island, and West Virginia. Record high acres harvested for silage were estimated in Texas.

By April 2, producers had planted 2 percent of the Nation's corn crop, equal to both 2022 and the 5-year average. By April 30, producers had planted 26 percent of the Nation's corn crop, 13 percentage points ahead of 2022 but equal to the 5-year average. Six percent of the Nation's corn acreage had emerged by April 30, three percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average.

By May 7, producers had planted 49 percent of the Nation's corn crop, 28 percentage points ahead of 2022 and 7 percentage points ahead of the 5-year average. Twelve percent of the Nation's corn acreage had emerged by May 7, seven percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. By May 28, producers had planted 92 percent of the Nation's corn crop, 8 percentage points ahead of both 2022 and the 5-year average. Seventy-two percent of the Nation's corn acreage had emerged by May 28, fourteen percentage points ahead of the previous year and 9 percentage points ahead of the 5-year average. On May 28, sixty-nine percent of the Nation's corn acreage was rated in good to excellent condition, 4 percentage points below the previous year.

By June 4, producers had planted 96 percent of the Nation's corn, 3 percentage points ahead of 2022 and 5 percentage points ahead of the 5-year average. Eighty-five percent of the Nation's corn acreage had emerged by June 4, nine percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. By June 25, four percent of the Nation's corn acreage had reached the silking stage, equal to both 2022 and the 5-year average. On June 25, fifty percent of the Nation's corn was rated in good to excellent condition, 17 percentage points below the previous year.

By July 2, eight percent of the Nation's corn acreage had reached the silking stage, 1 percentage point ahead of 2022 but 1 percentage point behind the 5-year average. By July 16, forty-seven percent of the Nation's corn acreage had reached the silking stage, 13 percentage points ahead of 2022 and 4 percentage points ahead of the 5-year average. By July 16, seven percent of the corn acreage was at or beyond the dough stage, 2 percentage points ahead of 2022 and 1 percentage point ahead of the 5-year average. By July 30, eighty-four percent of the Nation's corn acreage had reached the silking stage, 7 percentage points ahead of 2022 and 2 percentage points ahead of the 5-year average. By July 30, twenty-nine percent of the corn acreage was at or beyond the dough stage, 5 percentage points ahead of 2022 but equal to the 5-year average. On July 30, fifty-five percent of the Nation's corn acreage was rated in good to excellent condition, 6 percentage points below the same time in 2022.

By August 13, ninety-six percent of the Nation's corn acreage had reached the silking stage, 3 percentage points ahead of 2022 but equal to the 5-year average. By August 13, sixty-five percent of the corn acreage was at or beyond the dough stage, 5 percentage points ahead of 2022 and 2 percentage points ahead of the 5-year average. By August 13, eighteen percent of the 2023 corn acreage was denting, 3 percentage points ahead of 2022 but equal to the 5-year average. By August 27, eighty-eight percent of the Nation's corn acreage was at or beyond the dough stage, 4 percentage points ahead of 2022 and 2 percentage points ahead of the 5-year average. By August 27, fifty-one percent of the 2023 corn acreage was denting, 7 percentage points ahead of 2022 and 2 percentage points ahead of the 5-year average. Nine percent of the Nation's corn acreage was mature by August 27, two percentage points ahead of 2022 and 1 percentage point ahead of the 5-year average. On August 27, fifty-six percent of the Nation's corn acreage was rated in good to excellent condition, 2 percentage points above the previous year.

By September 10, ninety-seven percent of the corn acreage was at or beyond the dough stage, 2 percentage points ahead of 2022 and 1 percentage point ahead of the 5-year average. By September 10, eighty-two percent of this year's corn acreage was denting, 7 percentage points ahead of 2022 and 4 percentage points ahead of the 5-year average. Thirty-four percent of the Nation's corn acreage was mature by September 10, ten percentage points ahead of 2022 and 6 percentage points ahead of the 5-year average. Five percent of the 2023 corn acreage was harvested by September 10, equal to 2022 but 1 percentage point ahead of the 5-year average. By September 24, ninety-five percent of the Nation's corn acreage was denting, 4 percentage points ahead of 2022 and 2 percentage points ahead of the 5-year average. Seventy percent of the Nation's corn was mature by September 24, fifteen percentage points ahead of 2022 and 10 percentage points ahead of the 5-year average. Fifteen percent of the 2023 corn acreage was harvested by September 24, four percentage points ahead of 2022 and 2 percentage points ahead of the 5-year average. On September 24, fifty-three percent of the Nation's corn was rated in good to excellent condition, 1 percentage point above the previous year.

Ninety-five percent of the Nation's corn acreage was mature by October 15, two percentage points ahead of 2022 and 3 percentage points ahead of the 5-year average. Forty-five percent of the 2023 corn acreage was harvested by week's end, 2 percentage points ahead of 2022 and 3 percentage points ahead of the 5-year average. On October 15, fifty-three percent of the Nation's corn acreage was rated in good to excellent condition, equal to the previous year.

Eighty-one percent of the Nation's corn acreage was harvested by November 5, four percentage points behind 2022 but 4 percentage points ahead of the 5-year average. Ninety-six percent of the Nation's corn acreage was harvested by November 26, three percentage points behind 2022 but 1 percentage point ahead of the 5-year average.

**Sorghum:** Grain production in 2023 was estimated at 318 million bushels, up 69 percent from the 2022 total. Planted area for 2023 was estimated at 7.20 million acres, up 14 percent from 2022. Area harvested for grain, at 6.12 million acres, was up 34 percent from 2022. Grain yield was estimated at 52.0 bushels per acre, up 10.9 bushels from 2022.

Silage production was estimated at 4.98 million tons, down 12 percent from 2022. Area harvested for silage was estimated at 384,000 acres, down 27 percent from the previous year. Silage yield averaged 13.0 tons per acre, up 2.2 tons per acre from 2022.

**Oats:** Production in 2023 was estimated at 57.0 million bushels, down 1 percent from 2022. Yield was estimated at 68.6 bushels per acre, up 3.1 bushels from the previous year. Harvested area, at 831 thousand acres, was 6 percent below 2022. Record low acres were planted in California, Minnesota, Ohio, Texas, and Wisconsin. Record low acres were harvested in Georgia and Ohio. Record high yields were estimated in Illinois, Kansas, Missouri, and Oklahoma.

Nationally, oat producers seeded 49 percent of the 2023 acreage by April 30, five percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Fifty-three percent of the oat acreage was emerged by May 14, nine percentage points ahead of the previous year but 2 percentage points behind the 5-year average. Heading of the oat acreage advanced to 70 percent complete by June 25, eighteen percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. Oat producers harvested 49 percent of the acreage by August 6, five percentage points ahead of the previous year but 1 percentage point behind the 5-year average. At that time, harvest progress was at or ahead of the 5-year average in 6 of the 9 weekly *Crop Progress* estimating States. Eighty-two percent of the Nation's oat acreage was harvested by August 27, three percentage points ahead of the previous year but 3 percentage points behind the 5-year average. As of September 10, ninety-five percent of the oat acreage was harvested, 1 percentage point ahead of 2022 but 1 percentage point behind the 5-year average.

**Barley:** Production was estimated at 185 million bushels, up 6 percent from the 2022 total of 175 million bushels. The average yield, at 72.4 bushels per acre, was up 0.8 bushel from the previous year. Producers seeded 3.10 million acres in 2023, up 5 percent from 2022. Harvested area, at 2.56 million acres, was up 4 percent from 2022.

Record low planted acres were estimated in California, Michigan, New York, Utah, and Wisconsin. Record low harvested acres were estimated in Wisconsin. Record high yields were estimated in California, Delaware, Idaho, Maryland, New York, and Pennsylvania. Record low production was estimated in Wisconsin.

One percent of the Nation's barley acreage was planted by April 9, nine percentage point behind the previous year and 7 percentage points behind the 5-year average. Nationwide, barley producers seeded 10 percent of the Nation's acreage by April 23, thirteen percentage points behind the previous year and 12 percentage points behind the 5-year average. By April 23, emergence was evident in 1 percent of the Nation's barley acreage, 2 percentage points behind the previous year and 4 percentage points behind the 5-year average. Nationally, 86 percent of the barley acreage was sown by May 28, three percentage points ahead the previous year but 4 percentage points behind the 5-year average. Fifty-five percent of the barley acreage emerged by May 28, five percentage points behind the previous year and 12 percentage points behind the 5-year average. Heading of the Nation's barley acreage advanced to 37 percent complete by July 2, three percentage points behind the previous year and 10 percentage points behind the 5-year average. By July 30, barley producers harvested 5 percent of the Nation's acreage, equal to both 2022 and the 5-year average. Overall, 50 percent of the barley acreage was reported in good to excellent condition on August 6, five percentage points below the same time in 2022. By September 17, ninety-three percent of the barley acreage was harvested, 1 percentage point behind the previous year and 2 percentage points behind of the 5-year average.

**All wheat** production totaled 1.81 billion bushels in 2023, up 10 percent from the 2022 total of 1.65 billion bushels. Area harvested for grain totaled 37.3 million acres, up 5 percent from the previous year. The United States yield was estimated at 48.6 bushels per acre, up 2.1 bushels from the previous year. The levels of production and changes from 2022 by type were: winter wheat, 1.25 billion bushels, up 13 percent; other spring wheat, 505 million bushels, up 5 percent; and Durum wheat, 59.3 million bushels, down 7 percent.

**Winter wheat:** Winter wheat production for 2023 totaled 1.25 billion bushels, up 13 percent from the 2022 total of 1.10 billion bushels. The United States yield, at 50.6 bushels per acre, was up 3.6 bushels from 2022. Area harvested for grain was estimated at 24.7 million acres, up 5 percent from 2022. Record low planted and harvested acres were estimated in Utah in 2023. Record high yields were estimated in Delaware, Illinois, Indiana, Kentucky, Maryland, Missouri, Montana, New Jersey, New York, North Carolina, Ohio, Tennessee, Texas, and Virginia for 2023. The eastern third of the United States had better conditions than the rest of the country.

Compared with 2022, harvested acreage was up 2 percent in the major Hard Red Winter (HRW) growing States, the primary winter wheat-producing area. HRW production totaled 601 million bushels, up 13 percent from 2022.

In the Soft Red Winter (SRW) growing area, planted and harvested acreage increased from 2022. Coupled with several States estimated record high yields, SRW production totaled 449 million bushels, up 34 percent from 2022.

White winter wheat production totaled 198 million bushels, down 16 percent from 2022. Harvested acreage was down 3 percent from 2022.

Seeding of the 2023 winter wheat acreage began in mid-September 2022 with 10 percent sown by September 11. By October 9, producers had sown 55 percent of the intended 2023 winter wheat acreage, 3 percentage points behind the previous year and 3 percentage point behind the 5-year average. Nationwide, 26 percent of the winter wheat acreage was emerged by October 9, three percentage points behind the previous year and 6 percentage point behind the 5-year average. Emergence was at or behind the 5-year average in 16 of the 18 estimating States. Producers had sown 87 percent of the intended 2022 winter wheat acreage by October 30, one percentage point ahead of the previous year and 2 percentage points ahead of the 5-year average. Winter wheat planting had double-digit advances in 8 of the 18 estimating States during the week. Nationwide, 62 percent of the winter wheat acreage had emerged by October 30, three percentage points behind the previous year and 4 percentage points behind the 5-year average. Emergence was at or ahead of the 5-year average in 8 of the 18 estimating States. Overall, 28 percent of the 2023 winter wheat acreage was reported in good to excellent condition based on conditions as of October 30, compared with 45 percent at the same time the previous year.

Seeding of the 2023 acreage was at 96 percent by November 13, two percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Winter wheat planting was complete or nearing completion (95 percent or more) in 13 of the 18 estimating States. Nationwide, 81 percent of the winter wheat acreage had emerged by November 13, one percentage point ahead of the previous year and equal to the 5-year average. Winter wheat emergence advanced by 10 percentage points or more from the previous week in 9 of the 18 estimating States. Overall, 32 percent of the 2023 winter wheat acreage was reported in good to excellent condition for the week ending November 13,

two percentage points above the previous week but 14 percentage points below same time the previous year as the acreage was entering dormancy.

As the acreage was emerging from dormancy, 28 percent of the 2023 winter wheat acreage was reported in good to excellent condition, 2 percentage points below the previous year as of April 2. In Kansas, the largest winter wheat-producing State, 16 percent of the winter wheat acreage was rated in good to excellent condition. By April 23, eighteen percent of the Nation's winter wheat acreage was headed, 8 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. On April 23, twenty-six percent of the 2023 winter wheat acreage was reported in good to excellent condition, 1 percentage point below the previous week and 1 percentage point below the previous year. In Kansas, the largest winter wheat-producing State, 14 percent of the winter wheat acreage was rated in good to excellent condition.

By May 14, forty-nine percent of the Nation's winter wheat acreage was headed, 3 percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. On May 14, twenty-nine percent of the 2023 winter wheat acreage was reported in good to excellent condition, equal to the previous week but 2 percentage points above the same time the previous year. In Kansas, the largest winter wheat-producing State, 10 percent of the winter wheat acreage was rated in good to excellent condition. By May 28, seventy-two percent of the Nation's winter wheat acreage was headed, 1 percentage point ahead of the previous year but 1 percentage point behind the 5-year average. As of May 28, thirty-four percent of the 2023 winter wheat acreage was reported in good to excellent condition, 3 percentage points above the previous week and 5 percentage points above the same time the previous year. In Kansas, the largest winter wheat-producing State, 10 percent of the winter wheat acreage was rated in good to excellent condition.

Twenty-four percent of the 2023 winter wheat acreage was harvested by June 25, fifteen percentage points behind the previous year and 9 percentage points behind the 5-year average. In Kansas, the largest winter wheat-producing State, 21 percent of the State's winter wheat acreage was harvested by June 25, thirty-three percentage points behind the previous year and 9 percentage points behind the 5-year average. As of June 25, forty percent of the 2023 winter wheat United States acreage was reported in good to excellent condition, two percent above the previous week and 10 percentage points above the same time the previous year.

Sixty-eight percent of the 2023 winter wheat acreage had been harvested by July 23, eight percentage points behind the previous year and 9 percentage points behind the 5-year average. Winter wheat harvest progress was complete or nearing completion in 8 of 18 estimating States. In Kansas, 87 percent of the State's winter wheat acreage was harvested by July 23, thirteen percentage points behind the previous year and 11 percentage points behind the 5-year average. Winter wheat harvest progress continued with advances of 20 percentage points or more from the previous week reported in Colorado, Nebraska, Oregon, and South Dakota.

Ninety-six percent of the 2023 winter wheat acreage had been harvested by August 20, two percentage points ahead of the previous year and equal to the 5-year average. Winter wheat harvest progress was complete or nearing completion in all estimating States except Idaho, Montana, and Washington.

**Other spring wheat:** Production for 2023 was estimated at 505 million bushels, up 5 percent from the 2022 total of 483 million bushels. Harvested area totaled 11.0 million acres, up 5 percent from 2022. The United States yield was estimated at 46.0 bushels per acre, down 0.2 bushel from 46.2 bushels per acre in 2022. Of the total production, 468 million bushels were Hard Red Spring wheat, up 5 percent from the 2022 total.

Seeding of the 2023 spring wheat acreage began in April. Twelve percent of the spring wheat acreage was seeded by April 30, six percentage points behind the previous year and 10 percentage points behind the 5-year average. As of April 30, Washington led the Nation in planting progress with 74 percent. By April 30, two percent of the Nation's spring wheat acreage had emerged, 3 percentage points behind last year and 4 percentage points behind the 5-year average.

As of May 14, forty percent of the spring wheat acreage was seeded, 3 percentage points ahead of the previous year but 17 percentage points behind the 5-year average. Minnesota and North Dakota only had 3 percent and 2 percent seeded, respectively. As of May 14, thirteen percent of the Nation's spring wheat acreage had emerged, 2 percentage points

behind the previous year and 10 percentage points behind the 5-year average. As of May 28, eighty-five percent of the spring wheat acreage was seeded, 15 percentage points ahead of the previous year but 1 percentage point behind the 5-year average. As of May 28, fifty-seven percent of the Nation's spring wheat acreage had emerged, 17 percentage points ahead of the previous year but 2 percentage points behind the 5-year average.

By June 25, thirty-one percent of the Nation's spring wheat acreage had reached the headed stage, 24 percentage points ahead of the previous year and 6 percentage points ahead of the 5-year average. Fifty percent of the Nation's spring wheat was rated in good to excellent condition, 1 percent below the previous week and 9 percent below the same time the previous year.

By July 16, eighty-six percent of the Nation's spring wheat acreage had reached the headed stage, 21 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Fifty-one percent of the Nation's spring wheat was rated in good to excellent condition, 4 percentage points above the previous week but 20 percentage points below the same time the previous year.

By August 20, thirty-nine percent of the spring wheat had been harvested, 8 percentage points ahead of the previous year but 7 percentage points behind the 5-year average. Harvest progress was 13 percentage points or more, behind 2022, in Idaho, Minnesota and North Dakota. Thirty-eight percent of the Nation's spring wheat was rated in good to excellent condition, 4 percentage points below the previous week and 26 percentage points below the same time the previous year.

By September 3, seventy-four percent of the spring wheat was harvested, 6 percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Harvest progress advanced 14 percentage points or more in 5 of the 6 estimating States during the week.

**Durum wheat:** Production for 2023 was estimated at 59.3 million bushels, down 7 percent from the 2022 total of 64.0 million bushels. Area harvested for grain totaled 1.60 million acres, up 1 percent from 2022. The United States yield was estimated at 37.0 bushels per acre, down 3.5 bushels from the 2022 yield. A record high yield was estimated in California in 2023. Production in Montana and North Dakota, the largest Durum wheat-producing States, were up 11 and 3 percent, respectively, from 2022. Harvest was 88 percent complete in Montana and 68 percent in North Dakota by September 10.

**Rice:** Production in 2023 totaled 218 million cwt, up 36 percent from the 2022 total. Planted area for 2023 was estimated at 2.89 million acres, up 30 percent from 2022. Area harvested, at 2.85 million acres, was up 32 percent from the previous crop year. The average yield for all United States rice was estimated at 7,649 pounds per acre, up 264 pounds from 2022.

Yield estimates increased in every state, except for California. Production estimates increased from the previous year in all States but Texas.

**Rye:** Production for 2023 was estimated at 10.4 million bushels, down 17 percent from the 2022 total. Harvested area totaled 322,000 acres, down 23,000 acres from 2022. The United States yield was 32.2 bushels per acre and was down 3.9 bushels from 2022. Planted area totaled 2.29 million acres, up 5 percent from 2022, and was the highest since 1988. Much of those acres were used as a cover crop.

**Proso millet:** Production of proso millet in 2023 totaled a record high 19.6 million bushels, up 114 percent from the 2022 production of 9.16 million bushels. Area planted to proso millet in the United States was estimated at 619,000 acres, down 18,000 acres (or 2.8 percent) from 2022. Area harvested in the United States, at 572,000 acres, was up 79,000 acres (or 16 percent) from the 2022 harvested estimate. The average yield for 2023 was estimated at 34.2 bushels per acre, up 15.6 bushels from the 2022 yield of 18.6 bushels per acre.

**All hay:** Production of all dry hay for 2023 was estimated at 119 million tons, up 6 percent from the 2022 total. Area harvested was estimated at 52.8 million acres, up 8 percent from 2022. The average yield, at 2.25 tons per acre, was down 0.04 ton from 2022.

Record high productions were estimated in Florida and Oklahoma, while record low productions were estimated in

Indiana, Michigan, Minnesota, New York, Vermont, and Wisconsin. Record high harvested acres were estimated in Arizona, Florida, and Oklahoma, while record lows were estimated in Illinois, Michigan, Minnesota, Ohio, and Wisconsin. Record high yields were estimated in Florida and South Carolina.

**Alfalfa and alfalfa mixtures:** Production in 2023 was estimated at 49.9 million tons, up 2 percent from the 2022 total. Harvested area, at 15.6 million acres, was 3 percent above 2022. Average yield was estimated at 3.19 tons per acre, down 0.03 ton from 2022.

Record low productions were estimated in Arkansas and New Jersey. Record low harvested acres were estimated in Arkansas, Oklahoma, and Rhode Island. A record high yield was estimated in Idaho.

**All other hay:** Production in 2023 totaled 68.9 million tons, up 9 percent from the 2022 total. Harvested area, at 37.2 million acres, was up 11 percent from 2022. Average yield was estimated at 1.85 tons per acre, down 0.02 ton from 2022.

Record high productions were estimated in Arizona, Florida, and Oklahoma, while record low productions were estimated in Iowa, Minnesota, and Wisconsin. Record high harvested acres were estimated in Florida and Oklahoma, while record low harvested acres were estimated in Indiana and Iowa. Record high yields were estimated in Idaho, Florida, and South Carolina.

**Forage:** In 2023, 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 2023 all haylage and greenchop production was 25.5 million tons, of which 15.8 million tons were from alfalfa and alfalfa mixtures. The 17 State total for all forage production was 73.6 million tons. Of this total, 37.9 million tons were produced from alfalfa and alfalfa mixtures.

Record low alfalfa haylage productions were estimated for the United States as well as in Kansas, Minnesota, and Wisconsin, while a record high was estimated in Idaho. Record low alfalfa haylage harvested acres were estimated for the United States as well as in Iowa, Kansas, Minnesota, Missouri, Pennsylvania, Vermont, and Wisconsin, while a record high was estimated in Idaho. Record low alfalfa haylage yields were estimated in Kansas and Minnesota, while record high yields were estimated in New York and Texas. Record low alfalfa forage productions were estimated in California, Illinois, Minnesota, Pennsylvania, and Wisconsin. Record low alfalfa forage harvested acres were estimated in Illinois, Minnesota, Pennsylvania, Texas, Vermont, and Wisconsin.

Record low other haylage productions were estimated in Minnesota, New York, and South Dakota, while record highs were estimated in Michigan and Nebraska. Record low other haylage harvested acres were estimated in California, Minnesota, New York, and South Dakota. Record low other haylage yields were estimated in Illinois, while record high yields were estimated in Iowa and Pennsylvania. Record low other hay forage productions were estimated for the United States as well as California, Iowa, Minnesota, Missouri, and New York. Record low other haylage harvested acres were estimated in Iowa, Ohio, and New York, while a record high was estimated in Vermont.

**New seedings of alfalfa and alfalfa mixtures:** Growers seeded 1.74 million acres of alfalfa and alfalfa mixtures during 2023, up 4 percent from 2022. New seedings of alfalfa and alfalfa mixtures are normally harvested for the first time in the year following planting.

Record high seedings were estimated in Delaware and Rhode Island, while record low alfalfa dry hay seedings were estimated in Connecticut, Idaho, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Ohio, Oregon, New Hampshire, Virginia, West Virginia, and Wisconsin.

**Peanuts:** Production was estimated at 5.89 billion pounds, up 6 percent from 2022. Planted area was estimated at 1.65 million acres, up 14 percent from 2022. Harvested area was estimated at 1.57 million acres, up 14 percent from 2022. The average yield was estimated at 3,742 pounds per acre, down 270 pounds from 2022.

Record high yields were estimated in Arkansas and Virginia.

**Canola:** Production in 2023 was estimated at a record high 4.16 billion pounds, up 9 percent from 2022. The average yield, at 1,793 pounds per acre, is up 30 pounds from last year's average and is the fifth highest on record. Planted area was estimated at 2.34 million acres, 6 percent above the previous year's acreage. Harvested area, at 2.32 million acres, was up 7 percent from 2022. 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 a record high 3.47 billion pounds, an increase of 7 percent from 2022. Planted and harvested area in North Dakota were both up 7 percent from 2022 and both were record highs.

Planted and harvested area in Washington for 2023 were record highs. A record high yield was estimated in Minnesota, while a record low yield was estimated in Kansas. Record high production was estimated in Washington, while a record low production was estimated in Kansas and Oklahoma.

**Sunflower:** The 2023 sunflower production totaled 2.26 billion pounds, down 19 percent from 2022. The United States average yield of 1,786 pounds per acre increased 30 pounds from 2022. Planted area, at 1.32 million acres, was 22 percent below the previous year. Area harvested decreased 21 percent from 2022 to 1.27 million acres.

North Dakota, the leading sunflower-producing State during 2023, produced 1.12 billion pounds, a decrease of 16 percent from 2022. Compared with 2022, planted area in North Dakota decreased 20 percent and yield increased 77 pounds to 1,998 pounds per acre. Meanwhile, production in South Dakota decreased 25 percent from 2022 to 817 million pounds. Planted acreage in South Dakota, at 495 thousand acres, decreased 24 percent from the previous year. The average yield in South Dakota decreased 36 pounds from 2022 to 1,710 pounds per acre.

United States production of oil-type sunflower varieties, at 1.97 billion pounds, decreased 23 percent from 2022. Compared with the previous year, harvested acres were down 25 percent and the average yield increased by 2 pounds to 1,747 pounds per acre, and represents the second highest yield on record for the Nation. The average yield for oil-type sunflower varieties in North Dakota was a record high.

Production of non-oil sunflower varieties was estimated at 297 million pounds, an increase of 23 percent from 2022. Area harvested, at 142,000 acres, was up 7 percent from 2022. The average yield increased by 206 pounds from 2022 to a record high 2,090 pounds per acre. The 2022 average yield for non-oil sunflower varieties in Minnesota, North Dakota, and South Dakota were record highs, while Kansas was a record low.

Harvest of sunflowers began the last week of September and progressed behind both last year's pace and the 5-year average pace throughout most of October in the 4 *Crop Progress* estimating States. As of October 29, forty percent of the Nation's crop was harvested, 16 percentage points behind the previous year and 4 percentage points behind the 5-year average. By November 26, harvest progress Nationally had reached 86 percent complete, 12 percentage points behind the previous year but 2 percentage points ahead of the 5-year average.

**Soybeans:** Production in 2023 totaled 4.16 billion bushels, down 2 percent from 2022. The average yield was estimated at 50.6 bushels per acre, 1.0 bushel above 2022. Planted area for the Nation, at 83.6 million acres, was down 4 percent from the 2022 planted acreage. Soybean growers harvested 82.4 million acres, down 4 percent from 2022.

Record high planted and harvested acreage was estimated in New York. Record high yields occurred in Arkansas, Indiana, Mississippi, Ohio, South Carolina, and Tennessee. Record high productions were harvested in Mississippi and New York.

The 2023 soybean objective yield survey data indicated that final average pod counts were higher than 2022 in the combined eleven objective yield States. Compared with final counts for 2022, pod counts were up in all 11 published States. An increase of more than 200 pods per 18 square feet from 2022's final pod count occurred in Iowa, Ohio, and South Dakota.

Planting was underway by the start of May in 16 of the 18 major soybean-producing States. Nineteen percent of the acreage was planted by April 30, twelve percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. Eighty-three percent of soybean acreage was planted by May 28, eighteen percentage points ahead of the 5-year average. Nationally, 86 percent of soybean acreage was emerged by June 11, eighteen percentage points ahead of the previous year and 16 percentage points ahead of the 5-year average. Soybean emergence was ahead of the 5-year average in all 18 of the major soybean-producing States, with Missouri and Ohio more than 20 percentage points ahead of the 5-year average. By July 2, twenty-four percent of soybean acreage was blooming, 9 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average. Thirty-nine percent of soybean acreage was blooming by July 9, nine percentage points ahead of the previous season and 4 percentage points ahead of the 5-year average. By July 9, ten percent of the soybean acreage was setting pods, 4 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. The week ending July 16 was the first week of 2023 that soybeans were setting pods in all 18 major soybean-producing States. Twenty percent of soybean acres were setting pods by July 16, seven percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. By July 23, seventy percent of soybean acreage was blooming, 8 percentage points ahead of the previous year and 4 percentage points ahead of the 5-year average.

As of July 30, fifty percent of the soybean acreage was setting pods, 9 percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. Seventy-eight percent of the acreage was setting pods on August 13, six percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average. By August 27, ninety-one percent of the soybean acreage was setting pods, 1 percentage point ahead of the previous year and the 5-year average.

As of October 2, eighty-six percent of the United States soybean acreage was at or beyond the leaf dropping stage, 8 percentage points ahead of the previous year and 9 percentage points ahead of the 5-year average. Soybean harvest was 23 percent complete as of October 2, three percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. At that time, harvest progress was at or ahead of the respective State 5-year average pace in 10 of the 18 States estimated in the *Crop Progress* report. As of October 2, fifty-two percent of the Nation's soybean acreage was rated in good to excellent condition, 3 percentage points behind the same time the previous year.

**Flaxseed:** Production of flaxseed in 2023 totaled 2.96 million bushels, down 31 percent from the 2022 production. Harvested area totaled 160,000 acres in 2023, down 34 percent from 2022. Harvested acreage in North Dakota, the largest flaxseed-producing State, was estimated at 103,000 acres, down 36 percent from 2022. The average United States yield for 2023, at 18.5 bushels per acre, was up 0.8 bushel from 2022.

**Safflower:** Production of safflower in 2023, at a record low 131 million pounds, was down 19 percent from 2022. Growers planted 129,500 acres in 2023, a decline of 13 percent from the previous year and represents the lowest planted acreage for the Nation since records began in 1991. California showed the largest decline, down 28,000 acres. Harvested area for the Nation, at 126,000 acres, was down 6 percent from 2022 and is also the lowest harvested area on record. The average yield for the Nation, at 1,036 pounds per acre, decreased 173 pounds from the 2022 average yield per acre.

Planted area, harvested area, and production estimated in California are all record lows.

**Other Oilseeds:** Mustard seed production for 2023 increased 53 percent from the previous year to a record high 149 million pounds. Planted area, at a record high 245,000 acres, was up 14 percent from 2022. Harvested area, at a record high 238,100 acres, was up 36 percent from last year. The average yield, at 627 pounds per acre, was 73 pounds above the 2022 average yield but still represents the sixth lowest yield on record for the Nation.

Rapeseed production was estimated at 20.2 million pounds, up 3 percent from last year's production level and represents the third largest production for the Nation since records began in 1991. Growers planted 13,200 acres of rapeseed in 2023, an increase of 2,300 acres from 2022. Harvested area, at 10,100 acres, was down 300 acres from last year. The average yield in 2023 was 2,003 pounds per acre, an increase of 115 pounds from 2022 and is the third highest yield on record.

**Cotton:** Upland cotton production was forecasted at 12.1 million 480-pound bales, down 13 percent from the previous year. The United States yield for upland cotton is forecasted at 841 pounds per acre, down 104 pounds from 2022. Upland

planted area, forecasted at 10.1 million acres, was down 26 percent from the previous year. Harvested area, at 6.92 million acres, was down 3 percent from the previous year. Record lows were forecasted in California and Arizona for upland planted acres. California and New Mexico upland harvested area were at record low levels. If realized, the forecasted yields for upland and all cotton in Arkansas and Tennessee will be record highs. New Mexico upland cotton yield is forecasted at a record high.

In the Southeast States (Alabama, Florida, Georgia, North Carolina, South Carolina, and Virginia), planting was mostly completed by mid-June. The crop was rated in mostly good to excellent condition throughout the growing season.

In the Delta region, planting was complete by mid-June. Overall, the cotton crop looked very good through the season. June and July were mostly hot and dry.

In Texas, continued dry conditions and extremely hot temperatures mixed with spotty late rains were the main story of the growing season. The crop was rated in mostly very poor to fair condition throughout the growing season.

American Pima producers planted 147,000 acres in 2023, down 19 percent from 2022. Harvested area, at 139,800 acres, was down 21 percent from the previous year. Production was forecasted at 307,000 480-pound bales, down 35 percent from 2022. The United States yield was forecasted at 1,054 pounds per acre, down 227 pounds from the previous year.

Ginnings totaled 11,187,050 running bales prior to January 1.

**Cottonseed:** Production for 2023, based on a 3-year average lint-seed ratio, is expected to total 3.79 million tons, down 14 percent from 2022.

**Tobacco:** United States all tobacco production for 2023 was estimated at 432 million pounds, down 1 percent from the previous year. Growers harvested 187,630 acres, down 5 percent from a year earlier. Yield per acre averaged 2,305 pounds, up 97 pounds per acre from 2022.

Flue-cured tobacco production was estimated at 315 million pounds, up 5 percent from the previous year. Harvested area totaled 138,000 acres in 2023, down 1 percent from 2022. Average yield, at 2,283 pounds per acre, was up 122 pounds from 2022.

**Sugarbeets:** Production for 2023 was estimated at 35.2 million tons, up 8 percent from the previous year's revised production. Growers in the 11 major sugarbeet-producing States planted 1.14 million acres, down 2 percent from 2022. Harvested area, at 1.13 million acres, was down 1 percent from the previous year. Estimated yield, at 31.2 tons per acre, was up 2.5 tons from last year.

**Sugarcane:** Production of sugarcane for sugar and seed in 2023 was estimated at 33.0 million tons, of which 31.3 million tons were utilized for sugar and 1.69 million tons for seed. Total production for sugar and seed was down 5 percent from 2022. Sugarcane producers harvested 931,500 acres for sugar and seed in 2023, up slightly from the previous year. Yield for sugar and seed was estimated at 35.4 tons per acre, down 1.9 tons from 2022.

**Dry edible beans:** United States dry edible bean production was estimated at 23.9 million cwt for 2023, down 7 percent from the previous year. Planted area was estimated at 1.18 million acres, down 5 percent from 2022. Harvested area was estimated at 1.16 million acres, down 5 percent from the previous year. The average United States yield for dry edible beans for the 2023 season is 2,067 pounds per acre, down 44 pounds from 2022.

In North Dakota, dry edible bean planting was at 97 percent for the week ending June 18th, well ahead of the 87 percent for the previous year, and near the 95 percent 5-year average. There were reports of dry, hot conditions in some areas that undoubtedly impacted the crop's yield. Harvest was virtually complete by the week ending October 22nd, ahead of the 2022 crop and the 5-year average. In Minnesota, dry edible bean planting was underway by early May and reached 27 percent complete on the 21st of the month, 3 days behind the 5-year average. Harvest began in early September, about a week behind the 5-year average. However, harvest was at 96 percent on October 15, ending the season ahead of the 5-year average. Despite a very dry period in May and June, the 2023 Michigan dry bean season ended very well, especially for

those growers in the “Thumb.” Dry bean planting progressed well and was largely complete by early to mid-July. Because of the intensely dry soils, some growers elected to wait a little longer than normal to plant or finish planting their crop. Timely precipitation beginning in July aided the crop’s development with some classes yielding more than 2022.

**Lentils:** Production of lentils in 2023 was estimated at 5.74 million cwt, up 2 percent from the previous season. Planted area, at 546,000 acres, was down 20 percent from the previous season. Harvested area, at 523,000 acres, was down 16 percent from the previous season. The average yield was 1,098 pounds per acre, up 185 pounds from the previous season.

**Chickpeas:** Production in 2023 of all chickpeas was estimated at 4.72 million cwt, up 28 percent from 2022. Area planted for all chickpeas for the 2023 crop year was estimated at 372,400 acres, up 4 percent from the previous year. Area harvested was estimated at 359,200 acres, 5 percent above 2022. The average yield at 1,315 pounds per acre is up 236 pounds from the 2022 season.

**Dry edible peas:** Production in 2023 of dry edible peas was estimated at 18.1 million cwt, up 17 percent from the previous season. Planted area, at 966,000 acres, up 2 percent from the previous season. Harvested area, at 941,000 acres, up 6 percent from the previous season. The average yield for dry edible peas for the 2023 season is 1,922 pounds per acre, up 175 pounds from the previous season.

**Potatoes:** Production in 2023 was estimated at 441 million cwt, up 10 percent from the 2022 crop. Planted area, at 965,000 acres, was up 5 percent from 2022. Harvested area, at 960,200 acres, was up 5 percent from the previous year. The average yield, at 459 cwt per acre, was up 21 cwt from the previous year.

Growing conditions were encouraging for the whole season in Idaho, Oregon, and Washington. In Idaho, potato planting started slow with cooler than average temperatures. Summer was warm which contributed to nearly ideal growing conditions and harvest.

**Peppermint oil:** Production in 2023 totaled 2.81 million pounds, down 17 percent from the previous year. Harvested area was estimated at 31,300 acres, down 7 percent from 2022. Average yield was estimated at 90 pounds of oil per acre, down 11 pounds from 2022.

**Spearmint oil:** Production totaled 1.54 million pounds in 2023, down 6 percent from the previous year. Harvested area was estimated at 12,200 acres, down 11 percent from a year earlier. The average yield was estimated at 126 pounds of oil per acre, up 6 pounds from 2022.

**Hops:** Production for Idaho, Oregon, and Washington in 2023 totaled 104 million pounds, up 2 percent from the 2022 crop of 102 million pounds. Combined area harvested for Idaho, Oregon, and Washington in 2023 totaled 54,318 acres, down 10 percent from the previous year. Harvested acreage decreased in Oregon, Idaho and Washington. The United States hop yield, at 1,915 pounds per acre, is up 221 pounds from a year ago.

Washington produced 74 percent of the United States hop crop for 2023; while Idaho accounted for 16 percent and Oregon accounted for 10 percent. In Washington, Columbus/Tomahawk<sup>R</sup>/Zeus, Citra<sup>R</sup>, Mosaic<sup>R</sup>, Cascade, and Simcoe<sup>R</sup> were the five leading varieties, accounting for 46 percent of the State’s hop production. In Idaho, Columbus/Tomahawk<sup>R</sup>/Zeus, Mosaic<sup>R</sup>, Citra<sup>R</sup>, Cascade, and Eureka!<sup>TM</sup> were the major varieties, accounting for 58 percent of the State’s hop production. In Oregon, Citra<sup>R</sup>, Mosaic<sup>R</sup>, Strata<sup>TM</sup>, Cascade, and Nugget were the major varieties, accounting for 64 percent of the State’s hop production.

**Maple syrup:** The 2023 United States maple syrup production totaled 4.18 million gallons, down 30 percent from the previous season. The number of taps totaled 13.4 million, down 20 percent from the 2022 total. Yield per tap was 0.311 gallon, down 0.047 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 72,200 farm operators selected from a list of producers that ensures all operations in the United States have a chance to be selected. Data from operators was collected by mail, internet, telephone, or personal interview to obtain information on crop acreage, yield, and production for the 2023 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 1.4 for corn, 2.7 for Upland cotton and 1.4 for soybeans. This means that chances are approximately 95 out of 100 that survey estimates for production will be within plus or minus 2.8 percent for corn, 5.4 percent for Upland cotton, and 2.8 percent for soybeans.

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

## USDA, National Agricultural Statistics Service Information Contacts

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

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Antonio Torres – Cantaloupes, Dry Edible Peas, Grapes, Green Peas, Honeydews, Lentils, Sweet Cherries, Tart Cherries, Walnuts, Watermelons .....	(202) 720-2157
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