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Small Grains 2023 Summary

September 2023

USDA



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.

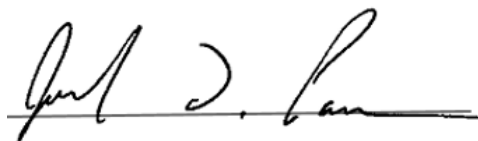
Oat production was estimated at 57.0 million bushels, down 1 percent from 2022. Yield was estimated at 68.6 bushels per acre, up 3.8 bushels from the previous year. Harvested area, at 831 thousand acres, was 7 percent below last year.

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.

This report was approved on September 29, 2023.



Secretary of Agriculture
Designate
Seth Meyer



Agricultural Statistics Board
Chairperson
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Oat Area Planted and Harvested, Yield, and Production – States and United States: 2021-2023

State	Area planted ¹			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)
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	26	22	19	24	21
Michigan	55	50	50	20	30	25
Minnesota	180	200	165	77	140	87
Missouri	50	45	32	15	8	9
Montana	60	85	65	16	24	22
Nebraska	120	125	155	26	18	24
New York	55	68	61	29	51	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	35	70
Wisconsin	175	140	135	61	65	75
United States	2,550	2,581	2,555	650	890	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			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	80.0	80.0	4,004	3,200	7,600
Kansas	50.0	41.0	66.0	1,000	1,025	1,980
Maine	78.0	86.0	62.0	1,482	2,064	1,302
Michigan	63.0	61.0	66.0	1,260	1,830	1,650
Minnesota	57.0	59.0	77.0	4,389	8,260	6,699
Missouri	60.0	52.0	68.0	900	416	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	54.0	60.0	1,972	2,754	2,640
North Carolina	68.0	77.0	77.0	952	847	1,078
North Dakota	48.0	71.0	76.0	3,984	13,490	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	1,925	3,780
Wisconsin	62.0	74.0	61.0	3,782	4,810	4,575
United States	61.3	64.8	68.6	39,836	57,655	57,045

¹ Includes area planted in preceding fall.

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

State	Area planted ¹			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	15	16	4	5	5
Maine	12	11	11	10	10	9
Maryland	33	28	31	18	16	13
Michigan	10	9	7	8	8	6
Minnesota	55	65	60	34	55	54
Montana	970	1,040	1,190	650	850	1,015
New York	9	9	9	5	5	5
North Carolina	13	16	16	7	11	10
North Dakota	580	740	690	430	660	570
Oregon	40	36	41	21	19	24
Pennsylvania	45	41	47	28	20	28
South Dakota	30	30	38	14	7	9
Utah	18	20	16	10	15	14
Virginia	30	30	30	7	7	6
Washington	83	72	95	70	60	84
Wisconsin	15	14	12	7	3	2
Wyoming	84	78	83	72	59	58
United States	2,708	2,959	3,101	1,990	2,446	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			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	55.0	75.0	819	1,045	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	33.0	29.0	264	165	145
Maine	82.0	65.0	45.0	820	650	405
Maryland	75.0	82.0	96.0	1,350	1,312	1,248
Michigan	50.0	50.0	60.0	400	400	360
Minnesota	55.0	72.0	74.0	1,870	3,960	3,996
Montana	38.0	41.0	49.0	24,700	34,850	49,735
New York	63.0	61.0	65.0	315	305	325
North Carolina	70.0	69.0	76.0	490	759	760
North Dakota	51.0	73.0	71.0	21,930	48,180	40,470
Oregon	32.0	55.0	33.0	672	1,045	792
Pennsylvania	80.0	67.0	81.0	2,240	1,340	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	2,660	5,040	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	60.3	71.6	72.4	120,090	175,023	185,036

¹ Includes area planted in preceding fall.

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

State	Area planted ¹			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
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	1,157	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	45,768	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			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

¹ Includes area planted in preceding fall.

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

State	Area planted ¹			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 Planted and Harvested, Yield, and Production – States and United States:
2021-2023 (continued)**

State	Yield			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

¹ 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			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	7	10	7	7	10
Montana	670	710	705	620	675	675
North Dakota	880	790	905	820	780	865
United States	1,642	1,632	1,676	1,526	1,581	1,604

State	Yield			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)	(1,000 bushels)
Winter			
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
Spring			
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
Total	1,646,254	1,649,713	1,811,977

Wheat Class Percentage Estimates

The following percentages are the basis for the United States wheat production by class estimates each year. These estimates are based on the latest varietal or class survey data available. These end-of-season percentages will be used during the 2024 forecast season. However, if an unusual situation significantly distorts a State's normal distribution, then updated percentages will be used to forecast the production by class.

Winter Wheat Production Distribution by Class – States: 2022 and 2023

State	Hard red		Soft red		Hard white		Soft white	
	2022	2023	2022	2023	2022	2023	2022	2023
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Alabama	-	-	100	100	-	-	-	-
Arkansas	-	-	100	100	-	-	-	-
California	92	93	-	-	4	4	4	3
Colorado	96	96	-	-	4	4	-	-
Delaware	-	-	100	100	-	-	-	-
Georgia	-	-	100	99	-	-	-	1
Idaho	17	20	-	-	-	1	83	79
Illinois	-	-	100	100	-	-	-	-
Indiana	-	-	100	100	-	-	-	-
Kansas	94	93	3	3	3	4	-	-
Kentucky	-	-	100	100	-	-	-	-
Maryland	-	-	100	100	-	-	-	-
Michigan	1	1	63	68	-	-	36	31
Mississippi	-	-	100	100	-	-	-	-
Missouri	1	1	99	99	-	-	-	-
Montana	100	100	-	-	-	-	-	-
Nebraska	94	94	-	-	6	6	-	-
New Jersey	-	-	100	100	-	-	-	-
New Mexico	100	100	-	-	-	-	-	-
New York	5	6	94	93	-	-	1	1
North Carolina	-	-	100	100	-	-	-	-
North Dakota	100	100	-	-	-	-	-	-
Ohio	-	-	100	100	-	-	-	-
Oklahoma	99	98	1	2	-	-	-	-
Oregon	5	6	-	-	-	-	95	94
Pennsylvania	-	1	100	99	-	-	-	-
South Carolina	-	-	100	100	-	-	-	-
South Dakota	100	100	-	-	-	-	-	-
Tennessee	-	-	100	100	-	-	-	-
Texas	94	97	6	3	-	-	-	-
Utah	73	71	-	-	2	1	25	28
Virginia	1	1	99	99	-	-	-	-
Washington	8	10	-	-	-	-	92	90
Wisconsin	3	3	97	97	-	-	-	-
Wyoming	97	98	-	-	3	1	-	1

- Represents zero.

Other Spring Wheat (excluding Durum) Production Distribution by Class – States: 2022 and 2023

State	Hard red		Hard white		Soft white	
	2022	2023	2022	2023	2022	2023
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Idaho	36	34	23	27	41	39
Minnesota	100	100	-	-	-	-
Montana	100	100	-	-	-	-
North Dakota	100	100	-	-	-	-
South Dakota	100	100	-	-	-	-
Washington	19	17	-	-	81	83

- Represents zero.

Winter Wheat Head Population

The National Agricultural Statistics Service conducted objective yield surveys in 10 winter wheat estimating States during 2023. Randomly selected plots in winter wheat fields were visited monthly from May through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

Winter Wheat Heads per Square Foot – Selected States: 2019-2023

State	2019	2020	2021	2022	2023
	(number)	(number)	(number)	(number)	(number)
Colorado					
July	49.3	43.0	49.9	40.8	41.5
August	50.8	42.7	46.8	39.7	48.4
Final	50.8	42.7	46.8	39.7	48.4
Illinois					
July	48.1	52.5	63.3	63.1	58.3
August	49.2	52.4	63.4	62.9	58.3
Final	49.2	52.4	63.4	62.9	58.3
Kansas					
July	46.9	45.3	51.4	40.7	37.3
August	47.2	45.4	51.4	40.7	38.5
Final	47.2	45.4	51.4	40.7	38.5
Missouri					
July	56.4	52.5	55.4	55.5	48.1
August	56.4	52.5	55.4	55.5	48.1
Final	56.4	52.5	55.4	55.5	48.1
Montana					
July	45.2	37.4	40.2	36.0	44.3
August	43.5	38.8	38.9	38.2	44.8
Final	43.1	38.6	38.9	38.3	44.8
Nebraska					
July	53.1	45.8	47.7	45.1	45.7
August	53.7	45.7	47.0	45.4	43.2
Final	53.7	45.7	47.0	45.4	43.2
Ohio					
July	52.0	64.1	66.7	55.1	57.9
August	53.0	63.9	66.5	55.0	57.7
Final	53.0	63.9	66.5	55.0	57.7
Oklahoma					
July	38.1	38.2	38.2	35.2	40.2
August	38.1	38.3	38.2	35.3	40.2
Final	38.1	38.3	38.2	35.3	40.2
Texas					
July	34.3	32.7	32.1	29.0	31.2
August	34.3	32.7	31.3	28.8	31.3
Final	34.5	32.7	31.3	28.9	31.7
Washington					
July	34.2	37.7	33.3	40.3	31.7
August	34.3	38.3	33.4	41.0	31.9
Final	34.6	38.2	33.4	41.1	31.9
10 State					
July	44.0	42.1	45.5	40.6	39.7
August	44.1	42.3	45.0	40.8	40.7
Final	44.2	42.3	45.0	40.8	40.8

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

State	Area planted ¹			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	17	18
Wisconsin	270	230	240	20	20	15
Other States ²	1,283	1,310	1,437	162	166	159
United States	2,133	2,175	2,293	294	341	322

State	Yield			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	646	612
Wisconsin	41.0	58.0	41.0	820	1,160	615
Other States ²	34.0	31.8	30.4	5,502	5,279	4,832
United States	33.4	36.1	32.2	9,808	12,301	10,375

¹ Includes area planted in preceding fall.

² Other States include Georgia, Illinois, Kansas, Michigan, Nebraska, New York, North Carolina, South Dakota, and Texas.

Small Grain Annual Summary Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2022-2023

Crop	Area planted		Area harvested	
	2022	2023	2022	2023
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Barley	2,959	3,101	2,446	2,555
Oats	2,581	2,555	890	831
Rye	2,175	2,293	341	322
Wheat, all	45,768	49,575	35,485	37,272
Winter	33,281	36,699	23,454	24,683
Durum	1,632	1,676	1,581	1,604
Other spring	10,855	11,200	10,450	10,985
Crop	Yield per acre		Production	
	2022	2023	2022	2023
	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Barley	71.6	72.4	175,023	185,036
Oats	64.8	68.6	57,655	57,045
Rye	36.1	32.2	12,301	10,375
Wheat, all	46.5	48.6	1,649,713	1,811,977
Winter	47.0	50.6	1,103,062	1,247,748
Durum	40.5	37.0	63,981	59,329
Other spring	46.2	46.0	482,670	504,900

Small Grain Annual Summary Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2022-2023

Crop	Area planted		Area harvested	
	2022	2023	2022	2023
	(hectares)	(hectares)	(hectares)	(hectares)
Barley	1,197,480	1,254,940	989,870	1,033,980
Oats	1,044,500	1,033,980	360,170	336,300
Rye	880,200	927,950	138,000	130,310
Wheat, all	18,521,850	20,062,510	14,360,420	15,083,610
Winter	13,468,490	14,851,720	9,491,600	9,988,960
Durum	660,450	678,260	639,810	649,120
Other spring	4,392,910	4,532,530	4,229,010	4,445,520
Crop	Yield per hectare		Production	
	2022	2023	2022	2023
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Barley	3.85	3.90	3,810,680	4,028,680
Oats	2.32	2.46	836,860	828,010
Rye	2.26	2.02	312,460	263,540
Wheat, all	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

Crop Comments

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 3.8 bushels from the previous year. Harvested area, at 831 thousand acres, was 7 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 last year 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 last year 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 last year. 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.

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 point 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 last year, 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.

Rye: Production for 2023 was estimated at 10.4 million bushels, down 16 percent from the 2022 total. Harvested area totaled 322,000 acres, down 19,000 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.

Statistical Methodology

Survey procedures: Objective yield and farm operator surveys were conducted to gather information on small grain acreage, yield, and production. The objective yield survey was conducted in 10 States that accounted for 64 percent of the 2023 winter wheat production. Early in the growing season, farm operators were interviewed to seek permission to randomly locate two sample plots in selected winter wheat fields. Throughout the growing season, counts such as number of stalks, heads in late boot, and number of emerged heads were collected from these plots. The plots were revisited each month until crop maturity when the heads were clipped, threshed, and weighed. After the farm operator harvested the sample field, enumerators revisited the sample to collect data in order to measure harvesting loss.

Data from operators was collected by mail, internet, or telephone, to obtain information on crop acreage, yield and production for the 2023 crop year. Approximately 55,900 producers were interviewed during the first two weeks of September and asked questions pertaining to planted and harvested area as well as yield and production.

Estimating Procedures: National and State level objective yield and grower reported data 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 in the *Crop Production Annual Summary* report published in January should new information become available. Previous year acreage, yield, and production estimates can be revised in the *Small Grain Summary* published 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 are subject to sampling variability because all acres of winter wheat are not included in the sample.

The farm operator survey indications are also subject to sampling variability because all operations with small grains are not included in the sample. This variability, as measured by the relative standard error at the National level, is approximately 2.0 percent for winter wheat, 7.0 percent for Durum wheat, and 3.6 percent for other spring wheat. This means that chances are approximately 95 out of 100 that survey estimates for production will be within plus or minus 4.0 percent for winter wheat, 14.0 percent for Durum wheat, and 7.2 percent for other spring wheat of the value that could be developed by averaging the estimates produced from all possible samples selected from the same population and surveyed using the same procedures. The relative standard errors for barley, oats, and rye are 8.7, 7.2, and 11.7 percent, respectively.

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.

Information Contacts

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

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- Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit www.nass.usda.gov and click on “National” or “State” in upper right corner above “search” box to create an account and select the reports you would like to receive.
- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

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

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USDA Fall Data Users' Meeting
Virtual Meeting
October 17 & 18, 2023
12:00 – 3:00 pm ET

USDA's National Agricultural Statistics Service (NASS) will hold a virtual meeting for users of U.S. domestic and international agriculture data. NASS is organizing the 2023 Fall Data Users' Meeting in cooperation with five other USDA agencies – Agricultural Marketing Service, Economic Research Service, Farm Service Agency, Foreign Agricultural Service, and World Agricultural Outlook Board – and the Census Bureau's Foreign Trade Division. Representatives will provide agency updates, answer questions, and listen to concerns from data users.

Abbreviated Agenda

Day 1 – October 17

Agency Updates– *All agencies*

Focus on the 2022 Census of Agriculture - *National Agricultural Statistics Service*

The Use of Weather Information In Producing the WASDE - *World Agricultural Outlook Board*

NASS Historical Revisions and Estimating Program Review - *National Agricultural Statistics Service*

AMS Data Visualizations - *Agricultural Marketing Service*

Day 2 – October 18

Open Forum – *All agencies*

ERS Feed Grains Database: A comprehensive look at this valuable resource – *Economic Research Service*

Understanding Publicly Available Data from USDA-Risk Management Agency – *Risk Management Agency*

For registration details or additional information about the Data Users' Meeting, see the meeting page on the NASS website (https://www.nass.usda.gov/go/data_users).