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Small Grains 2022 Summary

September 2022

USDA



All wheat production totaled 1.65 billion bushels in 2022, up less than 1 percent from the 2021 total of 1.65 billion bushels. Area harvested for grain totaled 35.5 million acres, down 4 percent from the previous year. The United States yield was estimated at 46.5 bushels per acre, up 2.2 bushels from the previous year. The levels of production and changes from 2021 by type were: winter wheat, 1.10 billion bushels, down 14 percent; other spring wheat, 482 million bushels, up 46 percent; and Durum wheat, 64.0 million bushels, up 70 percent.

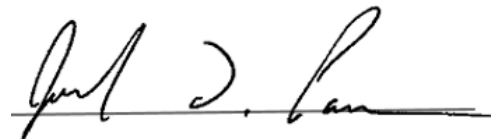
Oat production was estimated at 57.7 million bushels, up 45 percent from 2021. Yield was estimated at 64.8 bushels per acre, up 3.5 bushels from the previous year. Harvested area, at 890 thousand acres, was 37 percent above last year.

Barley: Production was estimated at 174 million bushels, up 45 percent from the revised 2021 total of 120 million bushels. The average yield, at 71.7 bushels per acre, was up 11.4 bushel from the previous year. Producers seeded 2.95 million acres in 2022, up 9 percent from 2021. Harvested area, at 2.43 million acres, was up 22 percent from 2021.

This report was approved on September 30, 2022.



Secretary of Agriculture
Designate
Robert Bonnie



Agricultural Statistics Board
Chairperson
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Oat Area Planted and Harvested, Yield, and Production – States and United States: 2020-2022

State	Area planted ¹			Area harvested		
	2020	2021	2022	2020	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arkansas	8	10	10	5	6	6
California	95	100	105	4	5	6
Georgia	80	80	75	20	20	15
Idaho	55	50	50	16	13	16
Illinois	60	60	60	15	15	10
Iowa	170	130	130	73	52	40
Kansas	140	115	110	16	20	25
Maine	26	22	26	22	19	24
Michigan	70	55	50	30	20	30
Minnesota	255	180	200	160	77	140
Missouri	35	50	45	10	15	8
Montana	75	60	85	41	16	24
Nebraska	135	120	125	29	26	18
New York	52	55	68	32	29	51
North Carolina	37	33	40	12	14	11
North Dakota	365	355	345	105	83	190
Ohio	55	45	50	15	20	15
Oklahoma	110	80	50	11	6	17
Oregon	20	15	20	7	6	8
Pennsylvania	86	85	87	55	36	61
South Dakota	310	215	260	140	56	75
Texas	470	460	450	60	35	35
Wisconsin	300	175	140	131	61	65
United States	3,009	2,550	2,581	1,009	650	890

See footnote(s) at end of table.

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**Oat Area Planted and Harvested, Yield, and Production – States and United States:
2020-2022 (continued)**

State	Yield			Production		
	2020	2021	2022	2020	2021	2022
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas	64.0	90.0	61.0	320	540	366
California	75.0	65.0	65.0	300	325	390
Georgia	54.0	70.0	51.0	1,080	1,400	765
Idaho	102.0	72.0	64.0	1,632	936	1,024
Illinois	58.0	83.0	83.0	870	1,245	830
Iowa	78.0	77.0	80.0	5,694	4,004	3,200
Kansas	52.0	50.0	41.0	832	1,000	1,025
Maine	63.0	78.0	86.0	1,386	1,482	2,064
Michigan	55.0	63.0	61.0	1,650	1,260	1,830
Minnesota	66.0	57.0	59.0	10,560	4,389	8,260
Missouri	43.0	60.0	52.0	430	900	416
Montana	45.0	35.0	38.0	1,845	560	912
Nebraska	63.0	56.0	51.0	1,827	1,456	918
New York	53.0	68.0	54.0	1,696	1,972	2,754
North Carolina	67.0	68.0	77.0	804	952	847
North Dakota	78.0	48.0	71.0	8,190	3,984	13,490
Ohio	60.0	67.0	70.0	900	1,340	1,050
Oklahoma	45.0	45.0	20.0	495	270	340
Oregon	100.0	62.0	105.0	700	372	840
Pennsylvania	50.0	65.0	59.0	2,750	2,340	3,599
South Dakota	77.0	67.0	80.0	10,780	3,752	6,000
Texas	45.0	45.0	55.0	2,700	1,575	1,925
Wisconsin	63.0	62.0	74.0	8,253	3,782	4,810
United States	65.1	61.3	64.8	65,694	39,836	57,655

¹ Includes area planted in preceding fall.

Barley Area Planted and Harvested, Yield, and Production – States and United States: 2020-2022

State	Area planted ¹			Area harvested		
	2020	2021	2022	2020	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alaska	6	6	6	5	5	5
Arizona	12	18	16	8	16	15
California	60	40	40	33	13	19
Colorado	56	52	61	47	47	40
Delaware	21	21	21	15	14	16
Idaho	530	530	560	500	500	540
Kansas	16	14	15	6	4	5
Maine	15	12	11	14	10	10
Maryland	34	33	28	21	18	16
Michigan	11	10	9	8	8	8
Minnesota	70	55	65	50	34	55
Montana	970	970	1,030	790	650	840
New York	9	9	9	5	5	5
North Carolina	14	13	16	8	7	11
North Dakota	530	580	740	460	430	660
Oregon	45	40	36	30	21	19
Pennsylvania	45	45	41	30	28	20
South Dakota	35	30	28	14	14	6
Utah	21	18	20	12	10	15
Virginia	31	30	30	7	7	7
Washington	90	83	72	71	70	60
Wisconsin	26	15	14	13	7	3
Wyoming	79	84	77	67	72	58
United States	2,726	2,708	2,945	2,214	1,990	2,433

See footnote(s) at end of table.

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**Barley Area Planted and Harvested, Yield, and Production – States and United States:
2020-2022 (continued)**

State	Yield			Production		
	2020	2021	2022	2020	2021	2022
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alaska	43.0	51.0	42.0	215	255	210
Arizona	122.0	125.0	133.0	976	2,000	1,995
California	47.0	63.0	55.0	1,551	819	1,045
Colorado	145.0	111.0	111.0	6,815	5,217	4,440
Delaware	84.0	75.0	87.0	1,260	1,050	1,392
Idaho	110.0	89.0	111.0	55,000	44,500	59,940
Kansas	51.0	66.0	33.0	306	264	165
Maine	54.0	82.0	65.0	756	820	650
Maryland	73.0	75.0	82.0	1,533	1,350	1,312
Michigan	56.0	50.0	50.0	448	400	400
Minnesota	47.0	55.0	72.0	2,350	1,870	3,960
Montana	63.0	38.0	41.0	49,770	24,700	34,440
New York	60.0	63.0	61.0	300	315	305
North Carolina	77.0	70.0	69.0	616	490	759
North Dakota	63.0	51.0	73.0	28,980	21,930	48,180
Oregon	72.0	32.0	55.0	2,160	672	1,045
Pennsylvania	76.0	80.0	67.0	2,280	2,240	1,340
South Dakota	44.0	20.0	54.0	616	280	324
Utah	85.0	81.0	82.0	1,020	810	1,230
Virginia	63.0	75.0	86.0	441	525	602
Washington	90.0	38.0	84.0	6,390	2,660	5,040
Wisconsin	46.0	53.0	55.0	598	371	165
Wyoming	96.0	91.0	93.0	6,432	6,552	5,394
United States	77.2	60.3	71.7	170,813	120,090	174,333

¹ Includes area planted in preceding fall.

All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2020-2022

State	Area planted ¹			Area harvested		
	2020	2021	2022	2020	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	135	175	180	70	110	120
Arizona	50	60	85	49	59	84
Arkansas	145	210	220	75	145	150
California	410	385	380	102	110	105
Colorado	1,900	2,200	1,950	1,520	1,880	1,430
Delaware	75	60	80	55	35	54
Georgia	190	220	200	85	110	100
Idaho	1,240	1,227	1,157	1,164	1,132	1,077
Illinois	570	670	650	520	610	560
Indiana	300	340	290	250	270	240
Kansas	6,600	7,300	7,300	6,250	7,000	6,600
Kentucky	510	510	530	340	350	375
Maryland	355	345	355	150	160	170
Michigan	490	610	460	450	560	415
Minnesota	1,430	1,210	1,250	1,360	1,160	1,210
Mississippi	40	95	100	20	70	75
Missouri	480	640	630	370	490	410
Montana	5,595	5,520	5,460	5,490	4,530	4,915
Nebraska	900	920	980	830	840	820
New Jersey	25	23	26	18	16	22
New Mexico	335	380	355	115	80	85
New York	150	155	140	120	125	100
North Carolina	450	450	480	350	345	375
North Dakota	6,650	6,470	6,195	6,563	6,090	6,135
Ohio	530	580	510	490	515	465
Oklahoma	4,250	4,400	4,300	2,600	2,950	2,450
Oregon	740	720	730	725	705	720
Pennsylvania	235	270	270	190	195	210
South Carolina	110	125	120	95	100	100
South Dakota	1,400	1,520	1,560	1,355	1,290	1,430
Tennessee	300	400	410	230	330	335
Texas	4,900	5,500	5,300	2,050	2,000	1,300
Utah	110	110	110	98	93	88
Virginia	220	205	230	130	120	150
Washington	2,350	2,330	2,325	2,295	2,230	2,270
Wisconsin	160	290	305	125	245	240
Wyoming	120	115	115	90	95	95
United States	44,450	46,740	45,738	36,789	37,145	35,480

See footnote(s) at end of table.

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**All Wheat Area Planted and Harvested, Yield, and Production – States and United States:
2020-2022 (continued)**

State	Yield			Production		
	2020	2021	2022	2020	2021	2022
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	72.0	83.0	72.0	5,040	9,130	8,640
Arizona	99.0	90.0	114.0	4,851	5,310	9,576
Arkansas	55.0	58.0	53.0	4,125	8,410	7,950
California	77.0	87.1	85.3	7,854	9,580	8,960
Colorado	27.0	37.0	25.0	41,040	69,560	35,750
Delaware	73.0	70.0	76.0	4,015	2,450	4,104
Georgia	55.0	56.0	58.0	4,675	6,160	5,800
Idaho	96.7	67.6	86.8	112,506	76,534	93,515
Illinois	68.0	79.0	79.0	35,360	48,190	44,240
Indiana	70.0	85.0	81.0	17,500	22,950	19,440
Kansas	45.0	52.0	37.0	281,250	364,000	244,200
Kentucky	63.0	87.0	80.0	21,420	30,450	30,000
Maryland	73.0	79.0	78.0	10,950	12,640	13,260
Michigan	75.0	81.0	83.0	33,750	45,360	34,445
Minnesota	53.0	48.0	61.0	72,080	55,680	73,810
Mississippi	48.0	59.0	52.0	960	4,130	3,900
Missouri	62.0	65.0	60.0	22,940	31,850	24,600
Montana	41.7	22.2	28.3	228,680	100,610	139,300
Nebraska	41.0	49.0	32.0	34,030	41,160	26,240
New Jersey	67.0	67.0	70.0	1,206	1,072	1,540
New Mexico	28.0	36.0	17.0	3,220	2,880	1,445
New York	66.0	77.0	72.0	7,920	9,625	7,200
North Carolina	60.0	56.0	64.0	21,000	19,320	24,000
North Dakota	47.6	32.2	48.9	312,587	196,195	299,900
Ohio	71.0	85.0	79.0	34,790	43,775	36,735
Oklahoma	40.0	39.0	28.0	104,000	115,050	68,600
Oregon	64.0	45.0	68.0	46,400	31,725	48,960
Pennsylvania	71.0	77.0	73.0	13,490	15,015	15,330
South Carolina	51.0	53.0	57.0	4,845	5,300	5,700
South Dakota	51.9	34.0	50.0	70,285	43,800	71,560
Tennessee	59.0	71.0	73.0	13,570	23,430	24,455
Texas	30.0	37.0	30.0	61,500	74,000	39,000
Utah	53.0	46.0	36.0	5,194	4,278	3,168
Virginia	60.0	67.0	68.0	7,800	8,040	10,200
Washington	72.4	39.1	63.4	166,245	87,180	144,020
Wisconsin	69.0	75.0	78.0	8,625	18,375	18,720
Wyoming	26.0	32.0	17.0	2,340	3,040	1,615
United States	49.7	44.3	46.5	1,828,043	1,646,254	1,649,878

¹ Includes area planted in preceding fall.

Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2020-2022

State	Area planted ¹			Area harvested		
	2020	2021	2022	2020	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	135	175	180	70	110	120
Arkansas	145	210	220	75	145	150
California	385	360	340	85	90	70
Colorado	1,900	2,200	1,950	1,520	1,880	1,430
Delaware	75	60	80	55	35	54
Georgia	190	220	200	85	110	100
Idaho	720	710	770	660	640	710
Illinois	570	670	650	520	610	560
Indiana	300	340	290	250	270	240
Kansas	6,600	7,300	7,300	6,250	7,000	6,600
Kentucky	510	510	530	340	350	375
Maryland	355	345	355	150	160	170
Michigan	490	610	460	450	560	415
Mississippi	40	95	100	20	70	75
Missouri	480	640	630	370	490	410
Montana	1,550	1,950	2,050	1,490	1,730	1,800
Nebraska	900	920	980	830	840	820
New Jersey	25	23	26	18	16	22
New Mexico	335	380	355	115	80	85
New York	150	155	140	120	125	100
North Carolina	450	450	480	350	345	375
North Dakota	40	90	105	33	60	95
Ohio	530	580	510	490	515	465
Oklahoma	4,250	4,400	4,300	2,600	2,950	2,450
Oregon	740	720	730	725	705	720
Pennsylvania	235	270	270	190	195	210
South Carolina	110	125	120	95	100	100
South Dakota	630	800	830	600	710	730
Tennessee	300	400	410	230	330	335
Texas	4,900	5,500	5,300	2,050	2,000	1,300
Utah	110	110	110	98	93	88
Virginia	220	205	230	130	120	150
Washington	1,800	1,750	1,850	1,750	1,690	1,800
Wisconsin	160	290	305	125	245	240
Wyoming	120	115	115	90	95	95
United States	30,450	33,678	33,271	23,029	25,464	23,459

See footnote(s) at end of table.

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**Winter Wheat Planted and Harvested, Yield, and Production – States and United States:
2020-2022 (continued)**

State	Yield			Production		
	2020	2021	2022	2020	2021	2022
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	72.0	83.0	72.0	5,040	9,130	8,640
Arkansas	55.0	58.0	53.0	4,125	8,410	7,950
California	75.0	82.0	73.0	6,375	7,380	5,110
Colorado	27.0	37.0	25.0	41,040	69,560	35,750
Delaware	73.0	70.0	76.0	4,015	2,450	4,104
Georgia	55.0	56.0	58.0	4,675	6,160	5,800
Idaho	101.0	71.0	90.0	66,660	45,440	63,900
Illinois	68.0	79.0	79.0	35,360	48,190	44,240
Indiana	70.0	85.0	81.0	17,500	22,950	19,440
Kansas	45.0	52.0	37.0	281,250	364,000	244,200
Kentucky	63.0	87.0	80.0	21,420	30,450	30,000
Maryland	73.0	79.0	78.0	10,950	12,640	13,260
Michigan	75.0	81.0	83.0	33,750	45,360	34,445
Mississippi	48.0	59.0	52.0	960	4,130	3,900
Missouri	62.0	65.0	60.0	22,940	31,850	24,600
Montana	51.0	31.0	33.0	75,990	53,630	59,400
Nebraska	41.0	49.0	32.0	34,030	41,160	26,240
New Jersey	67.0	67.0	70.0	1,206	1,072	1,540
New Mexico	28.0	36.0	17.0	3,220	2,880	1,445
New York	66.0	77.0	72.0	7,920	9,625	7,200
North Carolina	60.0	56.0	64.0	21,000	19,320	24,000
North Dakota	49.0	33.0	60.0	1,617	1,980	5,700
Ohio	71.0	85.0	79.0	34,790	43,775	36,735
Oklahoma	40.0	39.0	28.0	104,000	115,050	68,600
Oregon	64.0	45.0	68.0	46,400	31,725	48,960
Pennsylvania	71.0	77.0	73.0	13,490	15,015	15,330
South Carolina	51.0	53.0	57.0	4,845	5,300	5,700
South Dakota	58.0	38.0	52.0	34,800	26,980	37,960
Tennessee	59.0	71.0	73.0	13,570	23,430	24,455
Texas	30.0	37.0	30.0	61,500	74,000	39,000
Utah	53.0	46.0	36.0	5,194	4,278	3,168
Virginia	60.0	67.0	68.0	7,800	8,040	10,200
Washington	76.0	42.0	68.0	133,000	70,980	122,400
Wisconsin	69.0	75.0	78.0	8,625	18,375	18,720
Wyoming	26.0	32.0	17.0	2,340	3,040	1,615
United States	50.9	50.2	47.0	1,171,397	1,277,755	1,103,707

¹ Includes area planted in preceding fall.

Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2020-2022

State	Area planted			Area harvested		
	2020	2021	2022	2020	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Idaho	510	510	380	495	485	360
Minnesota	1,430	1,210	1,250	1,360	1,160	1,210
Montana	3,350	2,900	2,700	3,310	2,180	2,440
North Dakota	5,700	5,500	5,300	5,630	5,210	5,260
South Dakota	770	720	730	755	580	700
Washington	550	580	475	545	540	470
United States	12,310	11,420	10,835	12,095	10,155	10,440

State	Yield			Production		
	2020	2021	2022	2020	2021	2022
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Idaho	91.0	63.0	81.0	45,045	30,555	29,160
Minnesota	53.0	48.0	61.0	72,080	55,680	73,810
Montana	38.0	17.0	25.0	125,780	37,060	61,000
North Dakota	49.0	33.5	50.0	275,870	174,535	263,000
South Dakota	47.0	29.0	48.0	35,485	16,820	33,600
Washington	61.0	30.0	46.0	33,245	16,200	21,620
United States	48.6	32.6	46.2	587,505	330,850	482,190

Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2020-2022

State	Area planted			Area harvested		
	2020	2021	2022	2020	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona	50	60	85	49	59	84
California	25	25	40	17	20	35
Idaho	10	7	7	9	7	7
Montana	695	670	710	690	620	675
North Dakota	910	880	790	900	820	780
United States	1,690	1,642	1,632	1,665	1,526	1,581

State	Yield			Production		
	2020	2021	2022	2020	2021	2022
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arizona	99.0	90.0	114.0	4,851	5,310	9,576
California	87.0	110.0	110.0	1,479	2,200	3,850
Idaho	89.0	77.0	65.0	801	539	455
Montana	39.0	16.0	28.0	26,910	9,920	18,900
North Dakota	39.0	24.0	40.0	35,100	19,680	31,200
United States	41.5	24.7	40.5	69,141	37,649	63,981

Wheat Production by Class – United States: 2020-2022

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

Crop	2020	2021	2022
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Winter			
Hard red	658,977	749,878	530,910
Soft red	266,239	360,697	336,525
Hard white	12,194	20,303	10,647
Soft white	233,987	146,877	225,625
Spring			
Hard red	531,179	297,076	446,015
Hard white	10,693	5,662	6,707
Soft white	45,633	28,112	29,468
Durum	69,141	37,649	63,981
Total	1,828,043	1,646,254	1,649,878

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 2023 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: 2021 and 2022

State	Hard red		Soft red		Hard white		Soft white	
	2021	2022	2021	2022	2021	2022	2021	2022
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Alabama	-	-	100	100	-	-	-	-
Arkansas	-	-	100	100	-	-	-	-
California	92	92	1	-	3	4	4	4
Colorado	96	96	-	-	4	4	-	-
Delaware	-	-	100	100	-	-	-	-
Georgia	-	-	99	100	-	-	1	-
Idaho	17	17	-	-	1	-	82	83
Illinois	-	-	100	100	-	-	-	-
Indiana	-	-	100	100	-	-	-	-
Kansas	94	94	2	3	4	3	-	-
Kentucky	-	-	100	100	-	-	-	-
Maryland	-	-	100	100	-	-	-	-
Michigan	-	1	64	63	-	-	36	36
Mississippi	-	-	100	100	-	-	-	-
Missouri	1	1	99	99	-	-	-	-
Montana	100	100	-	-	-	-	-	-
Nebraska	95	94	-	-	5	6	-	-
New Jersey	-	-	100	100	-	-	-	-
New Mexico	99	100	-	-	-	-	1	-
New York	5	5	94	94	-	-	1	1
North Carolina	-	-	100	100	-	-	-	-
North Dakota	99	100	-	-	1	-	-	-
Ohio	-	-	100	100	-	-	-	-
Oklahoma	99	99	1	1	-	-	-	-
Oregon	8	5	-	-	-	-	92	95
Pennsylvania	-	-	100	100	-	-	-	-
South Carolina	-	-	100	100	-	-	-	-
South Dakota	100	100	-	-	-	-	-	-
Tennessee	-	-	100	100	-	-	-	-
Texas	94	94	6	6	-	-	-	-
Utah	71	73	-	-	2	2	27	25
Virginia	1	1	99	99	-	-	-	-
Washington	12	8	-	-	-	-	88	92
Wisconsin	3	3	97	97	-	-	-	-
Wyoming	96	97	-	-	4	3	-	-

- Represents zero.

Other Spring Wheat (excluding Durum) Production Distribution by Class – States: 2021 and 2022

State	Hard red		Hard white		Soft white	
	2021	2022	2021	2022	2021	2022
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Idaho	34	36	18	23	48	41
Minnesota	100	100	-	-	-	-
Montana	100	100	-	-	-	-
North Dakota	100	100	-	-	-	-
South Dakota	100	100	-	-	-	-
Washington	16	19	1	-	83	81

- Represents zero.

Winter Wheat Head Population

The National Agricultural Statistics Service conducted objective yield surveys in 10 winter wheat estimating States during 2022. 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: 2018-2022

State	2018	2019	2020	2021	2022
	(number)	(number)	(number)	(number)	(number)
Colorado					
July	40.6	49.3	43.0	49.9	40.8
August	41.0	50.8	42.7	46.8	39.7
Final	41.0	50.8	42.7	46.8	39.7
Illinois					
July	60.9	48.1	52.5	63.3	63.1
August	60.9	49.2	52.4	63.4	62.9
Final	60.9	49.2	52.4	63.4	62.9
Kansas					
July	37.3	46.9	45.3	51.4	40.7
August	37.3	47.2	45.4	51.4	40.7
Final	37.3	47.2	45.4	51.4	40.7
Missouri					
July	53.7	56.4	52.5	55.4	55.5
August	53.7	56.4	52.5	55.4	55.5
Final	53.7	56.4	52.5	55.4	55.5
Montana					
July	44.1	45.2	37.4	40.2	36.0
August	44.8	43.5	38.8	38.9	38.2
Final	44.7	43.1	38.6	38.9	38.3
Nebraska					
July	50.5	53.1	45.8	47.7	45.1
August	50.4	53.7	45.7	47.0	45.4
Final	50.4	53.7	45.7	47.0	45.4
Ohio					
July	70.3	52.0	64.1	66.7	55.1
August	70.3	53.0	63.9	66.5	55.0
Final	70.3	53.0	63.9	66.5	55.0
Oklahoma					
July	32.9	38.1	38.2	38.2	35.2
August	32.4	38.1	38.3	38.2	35.3
Final	32.4	38.1	38.3	38.2	35.3
Texas					
July	30.9	34.3	32.7	32.1	29.0
August	30.9	34.3	32.7	31.3	28.8
Final	31.1	34.5	32.7	31.3	28.9
Washington					
July	41.8	34.2	37.7	33.3	40.3
August	42.3	34.3	38.3	33.4	41.0
Final	42.3	34.6	38.2	33.4	41.1
10 State					
July	40.1	44.0	42.1	45.5	40.6
August	40.1	44.1	42.3	45.0	40.8
Final	40.2	44.2	42.3	45.0	40.8

Rye Area Planted and Harvested, Yield, and Production – States and United States: 2020-2022

State	Area planted ¹			Area harvested		
	2020	2021	2022	2020	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Minnesota	45	57	70	15	11	28
North Dakota	75	88	110	50	36	60
Oklahoma	270	250	265	52	50	50
Pennsylvania	175	185	190	36	15	17
Wisconsin	215	270	230	20	20	20
Other States ²	1,175	1,283	1,310	157	162	166
United States	1,955	2,133	2,175	330	294	341

State	Yield			Production		
	2020	2021	2022	2020	2021	2022
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Minnesota	38.0	44.0	52.0	570	484	1,456
North Dakota	44.0	32.0	46.0	2,200	1,152	2,760
Oklahoma	14.0	25.0	20.0	728	1,250	1,000
Pennsylvania	52.0	40.0	38.0	1,872	600	646
Wisconsin	40.0	41.0	58.0	800	820	1,160
Other States ²	34.2	34.0	31.8	5,362	5,502	5,279
United States	34.9	33.4	36.1	11,532	9,808	12,301

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: 2021-2022

Crop	Area planted		Area harvested	
	2021	2022	2021	2022
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Barley	2,708	2,945	1,990	2,433
Oats	2,550	2,581	650	890
Rye	2,133	2,175	294	341
Wheat, all	46,740	45,738	37,145	35,480
Winter	33,678	33,271	25,464	23,459
Durum	1,642	1,632	1,526	1,581
Other spring	11,420	10,835	10,155	10,440
Crop	Yield per acre		Production	
	2021	2022	2021	2022
	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)
Barley	60.3	71.7	120,090	174,333
Oats	61.3	64.8	39,836	57,655
Rye	33.4	36.1	9,808	12,301
Wheat, all	44.3	46.5	1,646,254	1,649,878
Winter	50.2	47.0	1,277,755	1,103,707
Durum	24.7	40.5	37,649	63,981
Other spring	32.6	46.2	330,850	482,190

Small Grain Annual Summary Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2021-2022

Crop	Area planted		Area harvested	
	2021	2022	2021	2022
	(hectares)	(hectares)	(hectares)	(hectares)
Barley	1,095,900	1,191,810	805,330	984,610
Oats	1,031,960	1,044,500	263,050	360,170
Rye	863,200	880,200	118,980	138,000
Wheat, all	18,915,210	18,509,710	15,032,210	14,358,400
Winter	13,629,150	13,464,440	10,305,030	9,493,620
Durum	664,500	660,450	617,560	639,810
Other spring	4,621,560	4,384,820	4,109,630	4,224,960
Crop	Yield per hectare		Production	
	2021	2022	2021	2022
	(metric tons)	(metric tons)	(metric tons)	(metric tons)
Barley	3.25	3.85	2,614,650	3,795,650
Oats	2.20	2.32	578,220	836,860
Rye	2.09	2.26	249,130	312,460
Wheat, all	2.98	3.13	44,803,690	44,902,320
Winter	3.37	3.16	34,774,790	30,037,980
Durum	1.66	2.72	1,024,640	1,741,280
Other spring	2.19	3.11	9,004,260	13,123,060

Crop Comments

Oats: Production in 2022 was estimated at 57.7 million bushels, up 45 percent from 2021. Yield was estimated at 64.8 bushels per acre, up 3.5 bushels from the previous year. Harvested area, at 890 thousand acres, was 37 percent above 2021. Record low acres were planted in Wisconsin. Record low acres were harvested in Georgia, Illinois, and Ohio. Record high yields were estimated in Maine, Texas, and Wisconsin.

Nationally, oat producers seeded 45 percent of the 2022 acreage by May 1, twenty-five percentage points behind the previous year and 13 percentage points behind the 5-year average. Forty-five percent of the oat acreage was emerged by May 15, twenty-six percentage points behind the previous year and 17 percentage points behind the 5-year average. Heading of the oat acreage advanced to 54 percent complete by June 26, twenty-one percentage points behind the previous year and 14 percentage points behind the 5-year average. Oat producers harvested 46 percent of the acreage by August 7, sixteen percentage points behind the previous year and 8 percentage points 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 percent of the Nation's oat acreage was harvested by August 28, eleven percentage points behind the previous year and 7 percentage points behind the 5-year average. As of September 11, ninety-five percent of the oat acreage was harvested, 2 percentage points behind last year and equal to the 5-year average.

Barley: Production was estimated at 174 million bushels, up 45 percent from the 2021 total of 120 million bushels. The average yield, at 71.7 bushels per acre, was up 11.4 bushels from the previous year. Producers seeded 2.95 million acres in 2022, up 9 percent from 2021. Harvested area, at 2.43 million acres, was up 22 percent from 2021.

Record low planted acres were estimated in California, Michigan, New York, Oregon, Washington, and Wisconsin. Record low harvested acres were estimated in South Dakota and Wisconsin. Record high yields were estimated in Arizona and Idaho. Record low production was estimated in Wisconsin.

Eleven percent of the Nation's barley acreage was planted by April 10, one percentage point behind the previous year but 3 percentage points ahead of the 5-year average. Nationwide, barley producers seeded 24 percent of the Nation's acreage by April 24, ten percentage points behind the previous year but matching the 5-year average. By April 24, emergence was evident in 3 percent of the Nation's barley acreage, 6 percentage points behind the previous year and 3 percentage points behind the 5-year average. Nationally, 85 percent of the barley acreage was sown by May 29, nine percentage points behind the previous year, and 8 percentage points behind the 5-year average. Sixty-two percent of the barley acreage emerged by May 29, fifteen percentage points behind the previous year, and 10 percentage points behind the 5-year average. Heading of the Nation's barley acreage advanced to 43 percent complete by July 3, fourteen percentage points behind the previous year and 10 percentage points behind the 5-year average. By July 31, barley producers harvested 6 percent of the Nation's acreage, 5 percentage points behind the previous year but matching the 5-year average. Overall, 55 percent of the barley acreage was reported in good to excellent condition on August 7, compared with 24 percent at the same time last year. By September 11, ninety-one percent of the barley acreage was harvested, 5 percentage points behind the previous year and 1 percentage point behind of the 5-year average.

Winter wheat: Winter wheat production for 2022 totaled 1.10 billion bushels, down 14 percent from the 2021 total of 1.28 billion bushels. The United States yield, at 47.0 bushels per acre, was down 3.2 bushels from 2021. Area harvested for grain was estimated at 23.5 million acres, down 8 percent from the previous year. Record low planted acres were estimated in Utah in 2022. Record low harvested acres were estimated in California and Utah in 2022. Record high yields were estimated in Illinois, New Jersey, North Dakota, and Tennessee for 2022.

Compared with 2021, harvested acreage was down 11 percent in the major Hard Red Winter (HRW) growing States, the primary winter wheat-producing area. HRW production totaled 531 million bushels, down 29 percent from 2021.

In the Soft Red Winter (SRW) growing area, planted and harvested acreage decreased from 2021. SRW production totaled 337 million bushels, down 7 percent from 2021.

White winter wheat production totaled 236 million bushels, up 41 percent from the previous year. Harvested acreage was up 3 percent from 2021.

Seeding of the 2022 winter wheat acreage began in mid-September 2021 with 12 percent sown by September 12. By October 3, producers had sown 47 percent of the intended 2022 winter wheat acreage, 3 percentage points behind the previous year but 1 percentage point ahead of the 5-year average. Nationwide, 19 percent of the winter wheat acreage was emerged by October 3, three percentage points behind the previous year and 1 percentage point behind the 5-year average. Emergence was at or behind the 5-year average in 12 of the 18 estimating States. Producers had sown 80 percent of the intended 2022 winter wheat acreage by October 24, four percentage points behind the previous year but equal to the 5-year average. Winter wheat planting had double-digit advances in 9 of the 18 estimating States during the week. Nationwide, 55 percent of the winter wheat acreage had emerged by October 24, five 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 7 of the 18 estimating States. Overall, 46 percent of the 2022 winter wheat acreage was reported in good to excellent condition based on conditions as of October 24, compared with 41 percent at the same time the previous year.

Seeding of the 2022 acreage was at 94 percent by November 14, two percentage points behind the previous year but equal to the 5-year average. Winter wheat planting was complete or nearing completion (95 percent or more) in 8 of the 18 estimating States. Nationwide, 81 percent of the winter wheat acreage had emerged by November 14, three percentage points behind the previous year and 2 percentage points behind the 5-year average. Winter wheat emergence advanced by 10 percentage points or more from the previous week in 8 of the 18 estimating States. Overall, 46 percent of the 2022 winter wheat acreage was reported in good to excellent condition for the week ending November 14, one percentage point above the previous week but equal to same time the previous year as the acreage was entering dormancy.

As the acreage was emerging from dormancy, 30 percent of the 2022 winter wheat acreage was reported in good to excellent condition, 23 percentage points below the previous year as of April 3. In Kansas, the largest winter wheat-producing State, 32 percent of the winter wheat acreage was rated in good to excellent condition. By April 24, eleven percent of the Nation's winter wheat acreage was headed, 5 percentage points behind the previous year and 8 percentage points behind the 5-year average. On April 24, twenty-seven percent of the 2022 winter wheat acreage was reported in good to excellent condition, 3 percentage points below the previous week and 22 percentage points below the previous year. In Kansas, the largest winter wheat-producing State, 26 percent of the winter wheat acreage was rated in good to excellent condition.

By May 8, thirty-three percent of the Nation's winter wheat acreage was headed, 3 percentage points behind the previous year and 7 percentage points behind the 5-year average. On May 8, twenty-nine percent of the 2022 winter wheat acreage was reported in good to excellent condition, 2 percentage points behind the previous week and 20 percentage points behind the same time the previous year. In Kansas, the largest winter wheat-producing State, 28 percent of the winter wheat acreage was rated in good to excellent condition. By May 29, seventy-two percent of the Nation's winter wheat acreage was headed, 5 percentage points behind the previous year and 4 percentage points behind the 5-year average. As of May 29, twenty-nine percent of the 2022 winter wheat acreage was reported in good to excellent condition, 1 percentage point above the previous week but 19 percentage points below the same time the previous year. In Kansas, the largest winter wheat-producing State, 28 percent of the winter wheat acreage was rated in good to excellent condition.

Forty-one percent of the 2022 winter wheat acreage was harvested by June 26, ten percentage points ahead of the previous year and 6 percentage points ahead of the 5-year average. As of June 26, thirty percent of the 2022 winter wheat acreage was reported in good to excellent condition, equal to previous week but 18 percentage points below the same time the previous year. In Kansas, the largest winter wheat-producing State, 59 percent of the State's winter wheat acreage was harvested by June 26, 22 percentage points ahead of the previous year and 19 percentage points ahead of the 5-year average.

Seventy-seven percent of the 2022 winter wheat acreage had been harvested by July 24, five percentage points behind the previous year and 3 percentage points behind the 5-year average. Winter wheat harvest progress was complete or nearing completion in all estimating States except Colorado, Idaho, Michigan, Montana, Nebraska, Oregon, South Dakota, and Washington. In Kansas, 100 percent of the State's winter wheat acreage was harvested by July 25, two percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average. Winter wheat harvest progress continued with advances of 20 percentage points or more from the previous week reported in Colorado, Michigan, Nebraska, and South Dakota.

Ninety-five percent of the 2022 winter wheat acreage had been harvested by August 21, four percentage point behind the previous year and 2 percentage points behind the 5-year average. Winter wheat harvest progress was complete or nearing completion in all estimating States except Idaho, Montana, Oregon, and Washington.

Other spring wheat: Production for 2022 was estimated at 482 million bushels, up 46 percent from the 2021 total of 331 million bushels. Harvested area totaled 10.4 million acres, up 3 percent from 2021. The United States yield was estimated at 46.2 bushels per acre, up 13.6 bushel from 32.6 bushels per acre in 2021. A record high yield was estimated in North Dakota. Of the total production, 446 million bushels were Hard Red Spring wheat, up 50 percent from the 2021 total.

Seeding of the 2022 spring wheat acreage began in April. Thirteen percent of the spring wheat acreage was seeded by April 24, fourteen percentage points behind the previous year and 2 percentage points behind the 5-year average. As of April 24, Washington led the Nation in planting progress with 73 percent. By April 24, two percent of the Nation's spring wheat acreage had emerged, 5 percentage points behind last year and 2 percentage points behind the 5-year average.

As of May 8, twenty-seven percent of the spring wheat acreage was seeded, 40 percentage points behind the previous year and 20 percentage points behind the 5-year average. Minnesota and North Dakota only had 2 percent and 8 percent seeded, respectively. As of May 8, nine percent of the Nation's spring wheat acreage had emerged, 18 percentage points behind the previous year and 6 percentage points behind the 5-year average. As of May 22, forty-nine percent of the spring wheat acreage was seeded, 44 percentage points behind the previous year and 34 percentage points behind the 5-year average. As of May 22, twenty-nine percent of the Nation's spring wheat acreage had emerged, 34 percentage points behind the previous year and 21 percentage points behind the 5-year average.

As of May 29, seventy-three percent of the spring wheat acreage had been seeded, 24 percentage points behind the previous year and 19 percentage points behind the 5-year average. As of May 29, forty-two percent of the Nation's spring wheat acreage had emerged, 36 percentage points behind the previous year and 27 percentage points behind the 5-year average. By June 26, eight percent of the Nation's spring wheat acreage had reached the headed stage, 37 percentage points behind the previous year and 26 percentage points behind the 5-year average. Fifty-nine percent of the Nation's spring wheat was rated in good to excellent condition, equal to the previous week but 39 percent above the same time the previous year.

By July 24, eighty-six percent of the Nation's spring wheat acreage had reached the headed stage, 10 percentage points behind the previous year and 10 percentage points behind the 5-year average. Sixty-eight percent of the Nation's spring wheat was rated in good to excellent condition, 3 percentage points below the previous week but 59 percentage points above the same time the previous year.

By August 21, Thirty-three percent of the spring wheat had been harvested, 41 percentage points behind the previous year and 21 percentage points behind the 5-year average. Harvest progress was 20 percentage points or more, behind last year, in Idaho, Minnesota, North Dakota and Washington. Sixty-four percent of the Nation's spring wheat was rated in good to excellent condition, equal to the previous week but 53 percentage points above the same time the previous year.

By September 11, eighty-five percent of the spring wheat was harvested, 10 percentage points behind the previous year and 4 percentage points behind the 5-year average. Harvest progress advanced 10 percentage points or more in 5 of the 6 estimating States during the week.

Durum wheat: Production for 2022 was estimated at 64.0 million bushels, up 70 percent from the 2021 total of 37.6 million bushels. Area harvested for grain totaled 1.58 million acres, up 4 percent from the previous year. The United States yield was estimated at 40.5 bushels per acre, up 15.8 bushels from the 2021 yield. Production in North Dakota, the largest Durum wheat-producing State, was up 59 percent from 2021. The increase in production is a result of dry conditions last year in the major Durum wheat growing States. Harvest began in the two major Durum-wheat producing States of Montana and North Dakota in August. Harvest was 91 percent complete in Montana and 65 percent in North Dakota by September 11.

Rye: Production for 2022 was estimated at 12.3 million bushels, up 25 percent from the 2021 total. Harvested area totaled 341,000 acres, up 47,000 acres from 2021. The United States yield was a record high, at 36.1 bushels per acre, and was up 2.7 bushels from the previous year. Planted area totaled 2.18 million acres, up 2 percent from 2021, and was the highest since 1988. Much of those acres were used as cover crop.

Record high planted area was estimated in Pennsylvania. Record high yields were estimated in Michigan, Minnesota, New York, North Carolina, and Wisconsin.

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 71 percent of the 2022 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 2022 crop year. Approximately 56,000 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 2.7 percent for winter wheat, 6.8 percent for Durum wheat, and 3.1 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 5.4 percent for winter wheat, 13.6 percent for Durum wheat, and 6.2 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 4.8, 5.6, and 9.0 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

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