

Hard Red Winter Production (1,000 Bushels)

	2016	2017	2018	2019	2020	2021	2022	2023	Average
Colorado	105,120	86,860	70,200	98,000	46,500	66,778	35,750	71,635	72,605
Kansas	467,400	333,600	277,400	338,000	294,400	342,160	244,200	187,162	273,040
Montana	105,350	66,780	78,500	95,000	75,400	53,630	59,400	85,680	77,467
North Dakota	5,760	1,295	3,010	3,710	1,400	1,980	5,700	8,120	3,871
Nebraska	70,740	46,720	49,490	55,290	36,550	41,160	26,240	34,742	45,116
Oklahoma	136,500	98,600	70,000	110,000	113,400	115,050	68,600	67,228	97,422
Pacific NW	36,707	33,800	33,500	32,463	32,000	18,780	29,775	23,100	30,015
South Dakota	63,800	20,800	31,680	40,040	34,800	27,360	37,960	32,900	36,167
Texas	89,600	68,150	56,000	69,700	63,000	69,560	39,000	75,369	66,297
Wyoming	4,250	2,940	3,900	4,730	5,000	3,040	1,615	2,646	3,515
Regional Total	1,085,227	759,745	673,680	846,933	702,450	739,489	548,240	588,582	705,515

Hard Red Winter Harvested Acres (1,000 Acres)

	2016	2017	2018	2019	2020	2021	2022	2023	Average
Colorado	2,190	2,200	1,950	2,000	1,550	1,880	1,430	1,747	1,868
Kansas	8,200	6,950	7,300	6,500	6,400	7,000	6,600	5,347	6,787
Montana	2,150	1,590	1,570	1,900	1,450	1,730	1,800	1,680	1,733
North Dakota	120	35	70	70	35	60	95	145	78
Nebraska	1,310	1,020	1,010	970	850	840	820	827	955
Oklahoma	3,500	2,900	2,500	2,750	2,700	2,950	2,450	2,401	2,768
Pacific NW	456	451	431	432	423	368	397	283	405
South Dakota	1,100	520	660	770	580	720	930	700	910
Texas	2,800	2,350	1,750	2,050	2,100	2,000	1,300	2,037	2,048
Wyoming	125	105	115	110	110	95	95	88	105
Regional Total	21,951	17,941	17,356	17,552	16,198	17,643	15,717	15,255	17,657

Hard Red Winter Yield (bpa)

	2016	2017	2018	2019	2020	2021	2022	2023	Average
Colorado	48	43	36	49	34	36	25	41	39
Kansas	57	48	38	52	46	49	37	35	45
Montana	49	42	50	50	43	30	33	52	43
North Dakota	48	37	43	53	40	33	60	56	46
Nebraska	54	46	49	57	43	49	32	42	46
Oklahoma	39	34	28	40	40	39	28	28	34
Pacific NW	82	75	79	75	74	51	75	66	72
South Dakota	58	40	48	52	60	38	52	47	49
Texas	32	29	32	34	30	35	30	37	32
Wyoming	34	28	34	43	43	32	17	30	32
Regional Total	50	42	44	51	45	39	39	43	43

Official U.S. Grades and Grade Requirements

Grading Factors	No. 1	No. 2	No. 3	No. 4	No. 5
Hard Red Winter - Minimum Test Weights					
Pounds per Bushel	60.0	58.0	56.0	54.0	51.0
Maximum Percent Limits Of:					
DEFECTS					
Damaged Kernels					
Heat	0.2	0.2	0.5	1.0	3.0
Total	2.0	4.0	7.0	10.0	15.0
Foreign Material	0.4	0.7	1.3	3.0	5.0
Shrunken and Broken Kernels	3.0	5.0	8.0	12.0	20.0
Total*	3.0	5.0	8.0	12.0	20.0
WHEAT OF OTHER CLASSES**					
Contrasting Classes	1.0	2.0	3.0	10.0	10.0
Total***	3.0	5.0	10.0	10.0	10.0
Stones	0.1	0.1	0.1	0.1	0.1
Maximum Count Limits Of:					
OTHER MATERIAL (1,000-gram sample)					
Animal Filth	1	1	1	1	1
Castor Beans	1	1	11	1	1
Crotalaria Seeds	2	2	2	2	2
Glass	0	0	0	0	0
Stones	3	3	3	3	3
Unknown Foreign Substance	3	3	3	3	3
Total****	4	4	4	4	4
INSECT DAMAGED KERNELS in 100 grams	31	31	31	31	31

U.S. Sample grade is Wheat that:

- (a) Does not meet the requirements for U.S. Nos. 1, 2, 3, 4, or 5; or
- (b) Has a musty, sour, or commercially objectionable foreign odor (except smut or garlic odor) or
- (c) Is heating or of distinctly low quality.

Includes damaged kernels (total), foreign material, shrunken and broken kernels.

Unclassed wheat of any grade may contain not more than 10% of wheat of other classes.

Includes contrasting classes.

Includes any combination of animal filth, castor beans, crotalaria seeds, glass, stones, or unknown foreign substance.