



United States Department of Agriculture
National Agricultural Statistics Service



Kansas Wheat Quality

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Wheat Protein Down from 2023

Preliminary data for the 2024 Kansas winter wheat crop show an average test weight of 60.7 pounds per bushel. This compares to 60.6 pounds per bushel for the 2023 crop and an average of 60.7 pounds per bushel for the 2014 through 2023 crops. A total of 6,513 carlot samples were tested from 48 counties across Kansas. Of the total samples tested, the largest shares came from the South Central, West Central, and Southwest Districts. Samples for the 2024 crop were taken from June 4, 2024 to August 9, 2024. Samples for the 2023 crop were taken from June 12, 2023 to August 11, 2023.

Protein content averages 12.4%, down 0.6% from last year, but up 0.5% from the 10-year average of 11.9%. The Central District has the highest protein content at 12.7%, followed by the West Central and South Central Districts at 12.5%. Protein content is expressed on a 12% moisture basis. Statewide, moisture content averages 11.4%, below 11.6% last year but equal to the 10-year average.

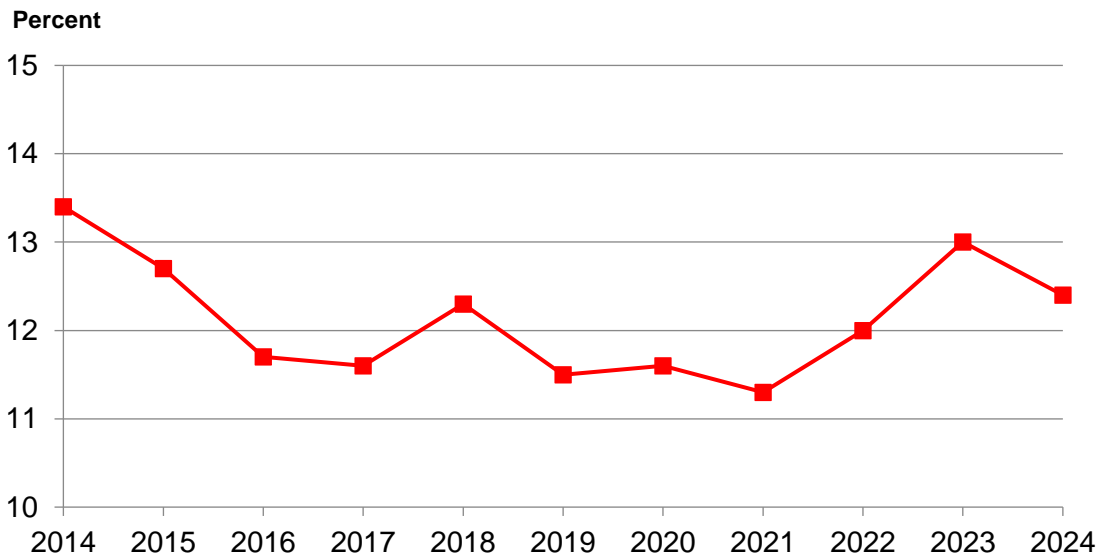
Samples of wheat grading No. 1, at 57%, are down from 62% last year. Samples grading No. 2 are 39%, up from 35% last year. Samples grading No. 3 or below are 4%.

Wheat samples average 0.5% damaged kernels, unchanged from last year, but up 0.1% from the 10-year average. Samples tested have 0.1% foreign material on average, unchanged from last year, and equal to the 10-year average. Shrunken and broken kernels average 0.9%, down 0.2% from last year and the 10-year average. Total defects average 1.5%, down 0.2% from last year and down 0.1% from the 10-year average. Average dockage for all samples is 0.5%, down 0.1% from last year.

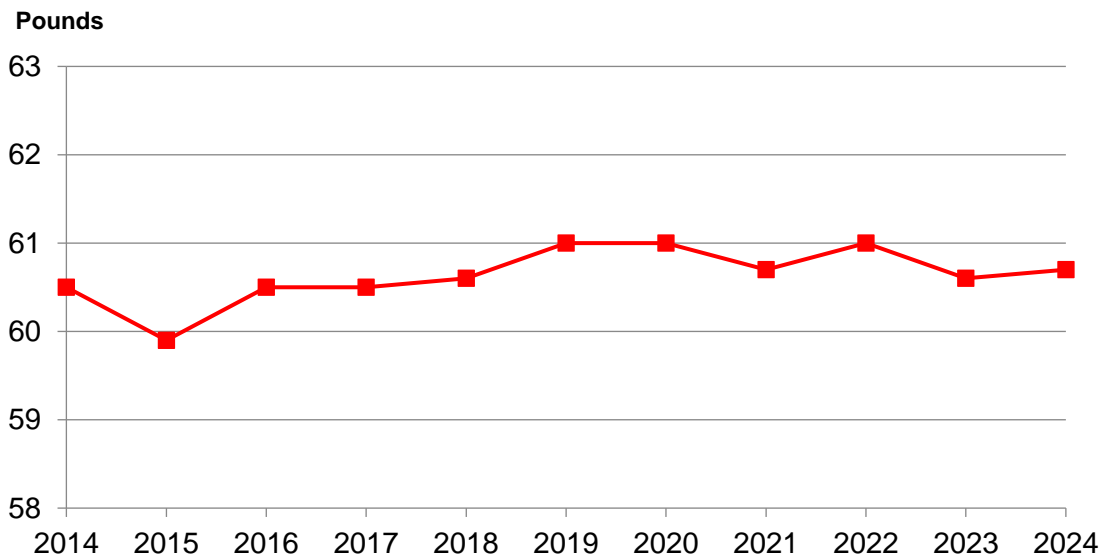
There were 1,000 samples voluntarily submitted for inspection in the 2024 crop year. The test weight for these samples averages 60.3 pounds per bushel, protein averages 12.7% and moisture content averages 11.3%. Of the total submitted samples, 44% grade No.1, 46% grade No. 2 and 10% grade No. 3 or below.

Test weight, protein content, grade and defect samples are representative of wheat moving in commercial rail cars and truck lots (truckloads converted to carlot equivalents). Summarized data include old crop and new crop wheat moving from first point of sale, and inspected by Kansas Grain Inspection Service, Inc. The USDA's National Agricultural Statistics Service summarizes all data for the *Kansas Wheat Quality* report. The Kansas Wheat Commission funds collection and publication services. Final numbers for the 2024 Kansas winter wheat crop, including wheat quality, top-planted varieties, acreage, and production, will be available in the *Kansas Wheat History* report to be released in October.

Average Wheat Protein Content – Kansas: 2014-2024



Average Wheat Test Weight – Kansas: 2014-2024



**Kansas Winter Wheat Quality – Agricultural Statistics Districts and State:
2014-2023 Average, 2023 and 2024**

[May not add due to rounding. Averages weighted by number of samples tested]

Item	Unit	Northwest			West Central			Southwest			North Central		
		Avg	2023	2024	Avg	2023	2024	Avg	2023	2024	Avg	2023	2024
Samples tested	number	1,196	384	688	1,026	941	1,248	2,105	481	1,231	1,156	500	439
Test weight.....	lbs/bu	60.4	60.1	59.5	60.4	60.6	61.1	60.6	60.8	60.4	60.6	59.7	60.7
Protein	percent	12.2	12.0	12.3	12.0	12.4	12.5	12.0	12.8	12.4	12.3	13.3	12.1
Moisture	percent	11.3	11.7	10.9	11.3	11.5	11.0	10.9	11.1	11.2	11.8	11.8	11.4
Grade													
1.....	percent	62	49	40	61	60	81	63	54	60	61	29	52
2.....	percent	34	39	53	34	38	17	36	44	40	38	66	46
All other.....	percent	4	12	7	5	2	2	1	2	0	1	5	2
Defects													
Damaged kernels.....	percent	0.3	0.6	0.6	0.3	0.5	0.4	0.3	0.7	0.5	0.5	0.6	0.5
Foreign materials	percent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.2	0.2
Shrunken & broken	percent	1.3	1.6	1.5	1.1	1.3	1.0	1.2	1.2	0.9	1.1	1.1	0.9
Total.....	percent	1.7	2.2	2.1	1.5	1.9	1.3	1.5	1.9	1.4	1.8	1.8	1.5
Average dockage	percent	0.6	0.5	0.7	0.5	0.6	0.5	0.6	0.6	0.4	0.6	0.7	0.5
Item	Unit	Central			South Central			Northeast			East Central		
		Avg	2023	2024	Avg	2023	2024	Avg	2023	2024	Avg	2023	2024
Samples tested	number	2,024	1,332	997	2,341	840	1,730	59	14	28	23	85	-
Test weight.....	lbs/bu	60.5	60.4	59.9	61.2	61.1	61.6	60.6	61.4	60.4	61.2	61.4	-
Protein	percent	12.0	13.2	12.7	11.5	13.4	12.5	11.6	12.3	11.5	11.7	11.4	-
Moisture	percent	11.6	11.7	11.5	11.4	11.6	11.7	12.0	11.1	12.0	12.1	11.7	-
Grade													
1.....	percent	70	49	36	82	87	58	89	93	50	92	92	-
2.....	percent	27	47	57	15	12	37	10	7	46	7	8	-
All other.....	percent	3	4	7	3	1	5	1	0	4	1	0	-
Defects													
Damaged kernels.....	percent	0.5	0.4	0.3	0.4	0.5	0.7	0.8	0.5	1.4	0.9	1.0	-
Foreign materials	percent	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	-
Shrunken & broken	percent	1.0	0.9	0.7	1.1	1.0	0.9	1.0	0.9	0.6	0.8	0.6	-
Total.....	percent	1.6	1.5	1.1	1.6	1.6	1.7	1.9	1.6	2.2	1.8	1.7	-
Average dockage	percent	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.6	-
Item	Unit	Southeast			State								
		Avg	2023	2024	Avg	2023	2024						
Samples tested	number		339		337		152		10,266		4,914		6,513
Test weight.....	lbs/bu		60.6		60.8		60.9		60.7		60.6		60.7
Protein	percent		11.3		12.6		10.8		11.9		13.0		12.4
Moisture	percent		12.3		11.8		12.3		11.4		11.6		11.4
Grade													
1.....	percent		71		87		86		70		62		57
2.....	percent		21		11		14		27		35		39
All other.....	percent		8		2		0		3		3		4
Defects													
Damaged kernels.....	percent		0.8		0.3		0.8		0.4		0.5		0.5
Foreign materials	percent		0.0		0.0		0.0		0.1		0.1		0.1
Shrunken & broken	percent		0.9		0.5		0.7		1.1		1.1		0.9
Total.....	percent		1.7		0.8		1.5		1.6		1.7		1.5
Average dockage	percent		0.6		0.5		0.7		0.5		0.6		0.5

- No data available

Access to NASS reports

Find this report at:

https://www.nass.usda.gov/Statistics_by_State/Kansas/Publications/Cooperative_Projects/Wheat_Quality/whtqlty24.pdf

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