



United States Department of Agriculture
National Agricultural Statistics Service



Kansas Wheat Quality

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Wheat Protein Up from 2021

Preliminary data for the 2022 Kansas winter wheat crop show an average test weight of 61.0 pounds per bushel. This compares to 60.7 pounds per bushel for the 2021 crop and an average of 60.7 pounds per bushel for the 2012 through 2021 crops. A total of 11,660 carlot samples were tested from 51 counties across Kansas. Of the total samples tested, the largest shares came from the South Central and Central Districts. Samples for the 2022 crop were taken from June 8, 2022 to August 11, 2022. Samples for the 2021 crop were taken from June 11, 2021 to August 14, 2021.

Protein content averages 12.0%, up 0.7% from last year, and equal to the 10-year average. The Southwest District has the highest protein content at 12.3%, followed by the Northwest District at 12.2%. Protein content is expressed on a 12% moisture basis. Statewide, moisture content averages 10.9%, below 11.6% last year and the 10-year average of 11.3%.

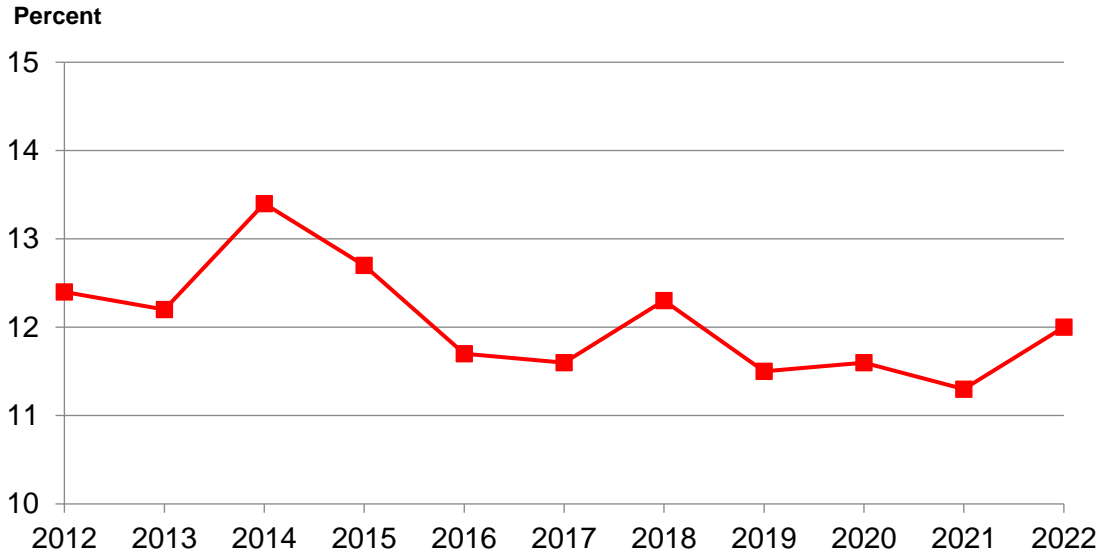
Samples of wheat grading No. 1, at 80%, are up from 71% last year. Samples grading No. 2 are 19%, down from 27% last year. Samples grading No. 3 or below are 1%.

Wheat samples average 0.4% damaged kernels, unchanged from last year, and equal to 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 1.2%, up 0.2% from last year but equal to the 10-year average. Total defects average 1.7%, up 0.2% from last year and 0.1% from the 10-year average. Average dockage for all samples is 0.5%, down 0.1% from last year.

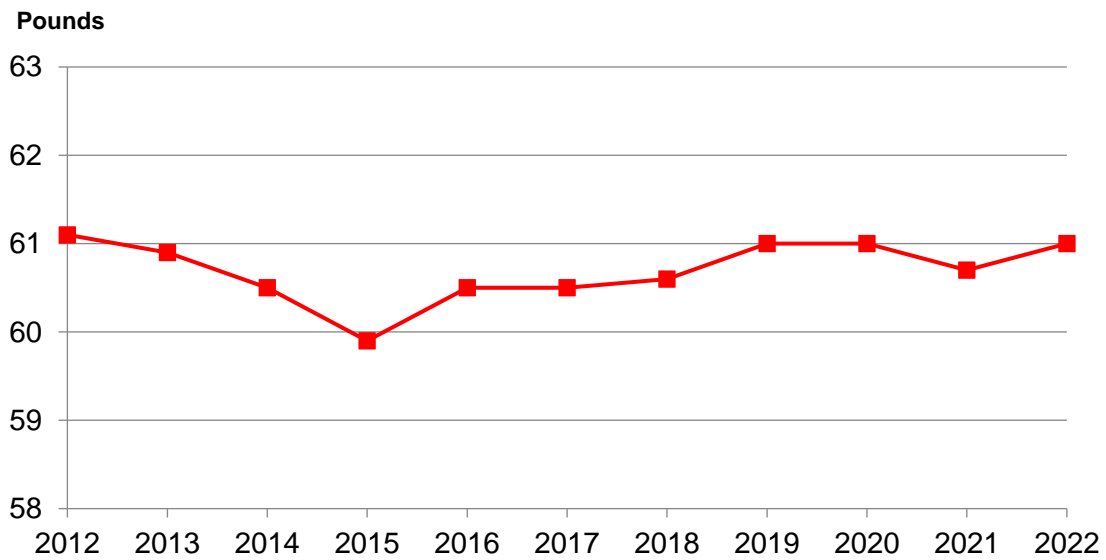
There were 1,056 samples voluntarily submitted for inspection in the 2022 crop year. The test weight for these samples averages 60.6 pounds per bushel, protein averages 12.5% and moisture content averages 11.0%. Of the total submitted samples, 72% grade No.1, 15% grade No. 2 and 13% grade No. 3 or below.

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.

Average Wheat Protein Content – Kansas 2012-2022



Average Wheat Test Weight – Kansas 2012-2022



**Kansas Winter Wheat Quality – Agricultural Statistics Districts and State:
2012-2021 Average, 2021 and 2022**

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

Item	Unit	Northwest			West Central			Southwest			North Central		
		Avg	2021	2022	Avg	2021	2022	Avg	2021	2022	Avg	2021	2022
Samples tested	number	1,188	1,399	1,301	901	956	1,065	2,261	2,743	2,001	1,537	931	1,456
Test weight.....	lbs/bu	60.5	59.5	60.3	60.4	59.9	61.2	60.5	60.4	60.9	60.9	60.6	60.1
Protein	percent	12.2	11.8	12.2	12.1	11.6	11.7	12.3	11.5	12.3	12.1	11.6	12.0
Moisture	percent	11.3	11.6	11.1	11.3	11.7	10.7	10.9	11.4	10.4	11.6	12.0	11.5
Grade													
1.....	percent	66	37	69	61	54	79	64	57	86	77	73	32
2.....	percent	31	53	27	34	40	21	35	40	14	23	26	67
All other.....	percent	3	10	4	5	6	0	1	3	0	1	1	1
Defects													
Damaged kernels.....	percent	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.5	0.8
Foreign materials	percent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Shrunken & broken	percent	1.3	1.4	1.5	1.1	1.0	1.3	1.2	1.1	1.3	1.3	1.0	1.0
Total.....	percent	1.6	1.7	1.8	1.4	1.4	1.6	1.5	1.5	1.8	1.8	1.6	1.9
Average dockage	percent	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.7	0.6	0.6	0.5	0.6
Item	Unit	Central			South Central			Northeast			East Central		
		Avg	2021	2022	Avg	2021	2022	Avg	2021	2022	Avg	2021	2022
Samples tested	number	2,208	3,118	2,419	2,647	3,938	3,060	(D)	(D)	37	82	(D)	8
Test weight.....	lbs/bu	60.5	60.2	60.7	61.1	62.0	61.6	(D)	(D)	60.9	61.1	(D)	60.2
Protein	percent	12.0	11.2	11.9	11.4	10.7	11.9	(D)	(D)	10.8	11.5	(D)	10.8
Moisture	percent	11.5	11.8	11.1	11.4	11.1	10.8	(D)	(D)	11.4	12.0	(D)	12.1
Grade													
1.....	percent	72	65	77	81	91	92	(D)	(D)	76	97	(D)	87
2.....	percent	25	34	22	16	9	8	(D)	(D)	19	3	(D)	13
All other.....	percent	3	1	1	3	0	0	(D)	(D)	5	0	(D)	0
Defects													
Damaged kernels.....	percent	0.5	0.5	0.4	0.4	0.4	0.4	(D)	(D)	1.1	0.5	(D)	1.3
Foreign materials	percent	0.1	0.1	0.0	0.1	0.1	0.1	(D)	(D)	0.2	0.0	(D)	0.0
Shrunken & broken	percent	1.1	0.9	1.0	1.2	1.0	1.1	(D)	(D)	1.2	0.9	(D)	1.0
Total.....	percent	1.7	1.4	1.5	1.7	1.4	1.6	(D)	(D)	2.4	1.5	(D)	2.3
Average dockage	percent	0.5	0.7	0.5	0.5	0.6	0.5	(D)	(D)	0.5	0.5	(D)	0.5
Item	Unit	Southeast			State								
		Avg	2021	2022	Avg	2021	2022						
Samples tested	number		470		243		313		11,343		13,330		11,660
Test weight.....	lbs/bu		60.8		61.2		61.3		60.7		60.7		61.0
Protein	percent		11.2		10.5		11.2		12.0		11.3		12.0
Moisture	percent		12.1		11.7		11.9		11.3		11.6		10.9
Grade													
1.....	percent		72		79		86		73		71		80
2.....	percent		22		20		13		25		27		19
All other.....	percent		6		1		1		2		2		1
Defects													
Damaged kernels.....	percent		0.6		0.6		0.7		0.4		0.4		0.4
Foreign materials	percent		0.0		0.0		0.0		0.1		0.1		0.1
Shrunken & broken	percent		0.9		1.2		0.8		1.2		1.0		1.2
Total.....	percent		1.5		1.9		1.5		1.6		1.5		1.7
Average dockage	percent		0.6		0.7		0.6		0.6		0.6		0.5

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

Access to NASS reports

Find this report at:

https://www.nass.usda.gov/Statistics_by_State/Kansas/Publications/Cooperative_Projects/Wheat_Quality/whtqlty22.pdf

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