

# United States Department of Agriculture National Agricultural Statistics Service



## **Kansas Wheat Quality**

Kansas Field Office · 3705 Miller Parkway, Ste. A · Manhattan, KS 66503 · (800) 582-6443 · <u>www.nass.usda.gov</u>

Media Contact: Doug Bounds · Released September 8, 2023

#### Wheat Protein Up but Test Weight Down from 2022

Preliminary data for the 2023 Kansas winter wheat crop show an average test weight of 60.6 pounds per bushel. This compares to 61.0 pounds per bushel for the 2022 crop and an average of 60.7 pounds per bushel for the 2013 through 2022 crops. A total of 4,914 carlot samples were tested from 46 counties across Kansas. Of the total samples tested, the largest shares came from the Central and West Central Districts. Samples for the 2023 crop were taken from June 12, 2023 to August 11, 2023. Samples for the 2022 crop were taken from June 8, 2022 to August 11, 2022.

Protein content averages 13.0%, up 1.0% from last year, and up 1.1% from the 10-year average of 11.9%. The South Central District has the highest protein content at 13.4%, followed by the North Central District at 13.3%. Protein content is expressed on a 12% moisture basis. Statewide, moisture content averages 11.6%, above 10.9% last year and the 10-year average of 11.3%.

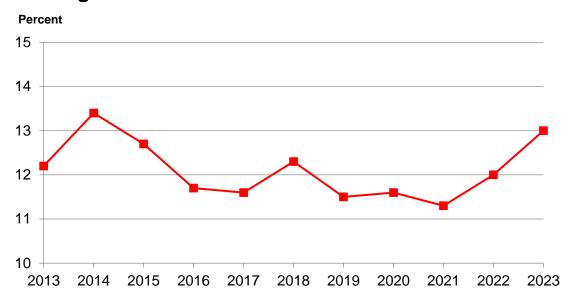
Samples of wheat grading No. 1, at 62%, are down from 80% last year. Samples grading No. 2 are 35%, up from 19% last year. Samples grading No. 3 or below are 3%.

Wheat samples average 0.5% damaged kernels, up 0.1% from last year, and 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 1.1%, down 0.1% from last year and the 10-year average. Total defects average 1.7%, unchanged from last year but up 0.1% from the 10-year average dockage for all samples is 0.6%, up 0.1% from last year.

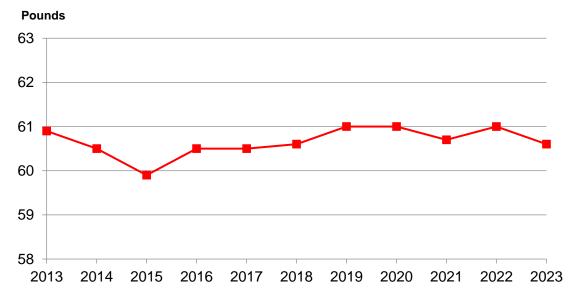
There were 654 samples voluntarily submitted for inspection in the 2023 crop year. The test weight for these samples averages 59.3 pounds per bushel, protein averages 13.1% and moisture content averages 12.4%. Of the total submitted samples, 36% grade No.1, 44% grade No. 2 and 20% grade No. 3 or below.

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 2023 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 2013-2023**



## **Average Wheat Test Weight – Kansas 2013-2023**



# Kansas Winter Wheat Quality – Agricultural Statistics Districts and State: 2013-2022 Average, 2022 and 2023

May not add due to roun	ding. Averages weigh	nted by number of sar	nples tested]

living not add due to rounding. Aver	ayes weigili		Northwest West Central		ral	Southwest			North Central				
Item	Unit	Avg	2022	2023	Avg	2022	2023	Avg	2022	2023	Avg	2022	2023
Samples tested Test weight Protein Moisture	number lbs/bu percent	1,213 60.4 12.3 11.3	1,301 60.3 12.2 11.1	384 60.1 12.0 11.7	950 60.4 12.0 11.3	1,065 61.2 11.7 10.7	941 60.6 12.4 11.5	2,204 60.5 12.1 10.9	2,001 60.9 12.3 10.4	481 60.8 12.8 11.1	1,489 60.8 12.1 11.7	1,456 60.1 12.0 11.5	500 59.7 13.3 11.8
Moisture	percent	11.3	11.1	11.7	11.3	10.7	11.5	10.9	10.4	11.1	11.7	11.5	11.0
Grade 1	percent	64	69	49	62	79	60	63	86	54	71	32	29
2 All other	percent percent	32 3	27 4	39 12	33 5	21 0	38 2	36 1	14 0	44 2	28 1	67 1	66 5
Defects Damaged kernels	percent	0.3	0.3	0.6	0.3	0.3	0.5	0.3	0.5	0.7	0.5	0.8	0.6
Foreign materialsShrunken & broken	percent percent	0.0 1.3	0.0 1.5	0.0 1.6	0.0 1.1	0.0 1.3	0.0 1.3	0.0 1.2	0.0 1.3	0.1 1.2	0.1 1.2	0.1 1.0	0.2 1.1
Total	percent	1.6	1.8	2.2	1.4	1.6	1.9	1.5	1.8	1.9	1.8	1.9	1.8
Average dockage	percent	0.6	0.6	0.5	0.5	0.5 uth Cen	0.6	0.6	0.6 Iortheas	0.6	0.6	0.6 st Cent	0.7
Item	Unit	Avg	Central 2022	2023	Avg	2022	2023	Avg	2022	2023	Avg	2022	2023
Samples tested Test weight	number lbs/bu	2,297 60.5 11.9	2,419 60.7 11.9	1,332 60.4 13.2	2,724 61.2 11.5	3,060 61.6 11.9	840 61.1 13.4	58 60.6 11.5	37 60.9 10.8	14 61.4 12.3	55 61.1 11.4	8 60.2 10.8	85 61.4 11.4
Moisture	percent percent	11.5	11.9	11.7	11.3	10.8	11.6	12.0	11.4	11.1	12.3	12.1	11.4
Grade 1	percent	73	77	49	82	92	87	89	76	93	97	87	92
2 All other	percent	25 3	22 1	47 4	15 3	8 0	12	10 1	19 5	7 0	3 0	13	8
Defects Damaged kernels Foreign materials	percent percent	0.5 0.1	0.4 0.0	0.4 0.2	0.4 0.1	0.4 0.1	0.5 0.2	0.8 0.1	1.1 0.2	0.5 0.1	0.4 0.0	1.3 0.0	1.0 0.0
Shrunken & broken Total	percent percent	1.1 1.6	1.0 1.5	0.9 1.5	1.2 1.7	1.1 1.6	1.0 1.6	1.0 1.9	1.2 2.4	0.9 1.6	0.8 1.3	1.0 2.3	0.6 1.7
Average dockage	percent	0.5	0.5	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.6
ltem	Unit	۸۰	Southeast           Avg         2022         2023			23	State           Avg         2022         2023				23		
<u> </u>	Offic		vg	20		20	20					20	
Samples tested Test weight Protein Moisture	number lbs/bu percent percent		404 60.7 11.1 12.2		313 61.3 11.2 11.9		337 60.8 12.6 11.8		11,389 60.7 11.9 11.3		11,660 61.0 12.0 10.9		4,914 60.6 13.0 11.6
Grade 1 2	percent percent		75 18		86 13		87 11		73 25		80 19		62 35
All other	percent		7		1		2		25		1		3
Defects Damaged kernels	percent		0.7		0.7		0.3		0.4		0.4		0.5
Foreign materials	percent		0.0		0.0		0.0		0.1		0.1		0.1
Shrunken & broken Total	percent percent		0.9 1.7		0.8 1.5		0.5 0.8		1.2 1.6		1.2 1.7		1.1 1.7
Average dockage	percent		0.6		0.6		0.5		0.6		0.5		0.6

#### **Access to NASS reports**

Find this report at:

https://www.nass.usda.gov/Statistics by State/Kansas/Publications/Cooperative Projects/Wheat Quality/whtqlty23.pdf

For your convenience, you may access NASS reports and products the following ways:

- All reports are available electronically, at no cost, on the NASS web site: www.nass.usda.gov
- ➤ Both national and state specific reports are available via a free e-mail subscription. To set-up this free subscription, visit <a href="https://www.nass.usda.gov">www.nass.usda.gov</a> 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: <a href="https://usda.library.cornell.edu">https://usda.library.cornell.edu</a>.

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: <a href="mass@usda.gov">nass@usda.gov</a>.

NASS is the federal statistical agency responsible for producing official data about U.S. agriculture and is committed to providing timely, accurate and useful statistics in service to U.S. agriculture.