



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 • www.nass.usda.gov

Media Contact: Doug Bounds • Released September 3, 2021

Wheat Protein Down Slightly from 2020

Preliminary data for the 2021 Kansas winter wheat crop show an average test weight of 60.7 pounds per bushel. This compares to 61.0 pounds per bushel for the 2020 crop and an average of 60.8 pounds per bushel for the 2011 through 2020 crops. A total of 13,330 carlot samples were tested from 46 counties across Kansas. Of the total samples tested, more than half came from the Central and South Central Districts. Samples for the 2021 crop were taken from June 11, 2021 to August 14, 2021. Samples for the 2020 crop were taken from June 5, 2020 to August 16, 2020.

Protein content averages 11.3%, down 0.3% from 2020, and below the 10-year average of 12.1%. The Northwest District has the highest protein content at 11.8%, followed by the West Central and North Central Districts at 11.6%. Protein content is expressed on a 12% moisture basis. Statewide, moisture content averages 11.6%, above 11.4% last year and the 10-year average of 11.3%.

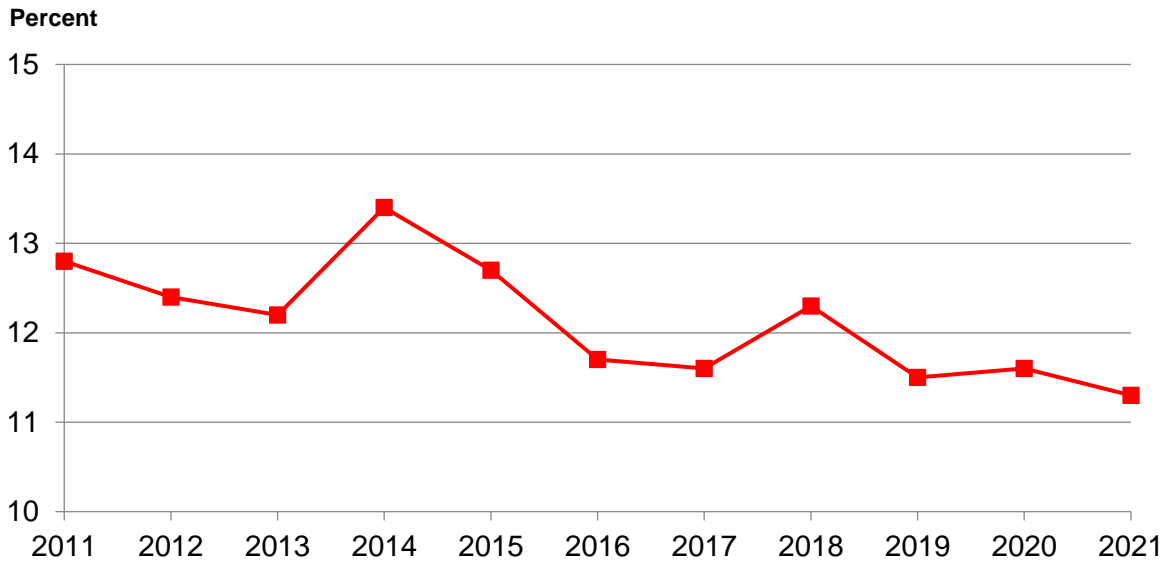
Samples of wheat grading No. 1, at 71%, are down from 82% last year. Samples grading No. 2 are 27%, up from 17% in 2020. Samples grading No. 3 or below are 2%.

Wheat samples average 0.4% damaged kernels, unchanged from 2020, and near the 10-year average of 0.3%. 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 1.0%, down 0.1% from 2020 and 0.2% below the 10-year average. Total defects average 1.5%, unchanged from 2020, but down 0.1% from the 10-year average. Average dockage for all samples is 0.6%, up 0.1% from last year.

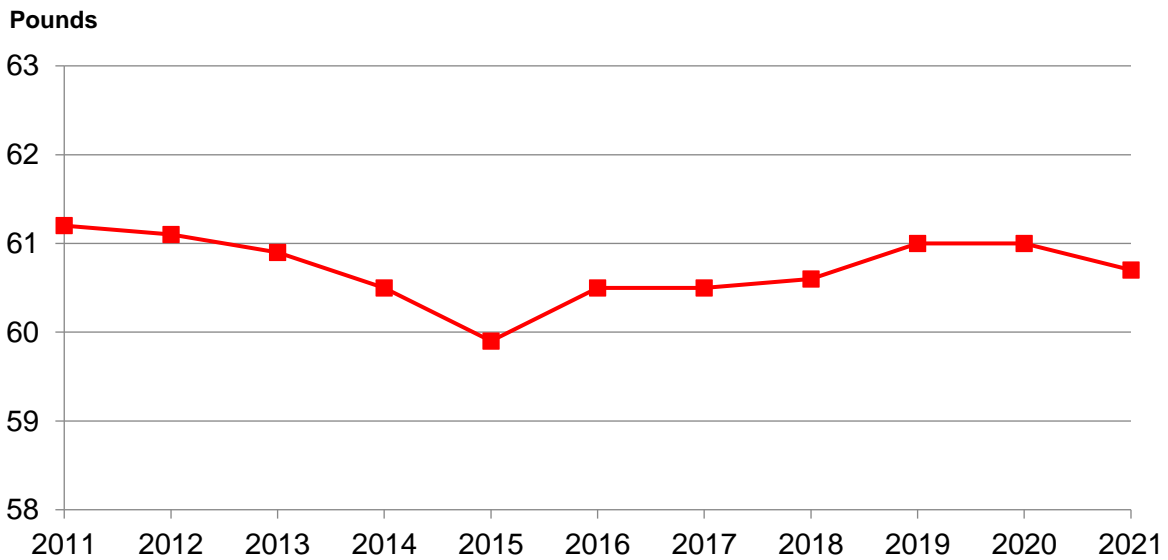
There were 1,300 samples voluntarily submitted for inspection in the 2021 crop year. The test weight for these samples averages 60.3 pounds per bushel, protein averages 11.4% and moisture content averages 11.4%. Of the total submitted samples, 54% grade No.1, 32% grade No. 2 and 14% grade No. 3 or below.

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 2011-2021



Average Wheat Test Weight – Kansas 2011-2021



**Kansas Winter Wheat Quality – Agricultural Statistics Districts and State:
2011-2020 Average, 2020 and 2021**

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

Item	Unit	Northwest			West Central			Southwest			North Central		
		Avg	2020	2021	Avg	2020	2021	Avg	2020	2021	Avg	2020	2021
Samples tested	number	1,225	1,458	1,399	841	905	956	2,119	1,977	2,743	1,782	1,664	931
Test weight.....	lbs/bu	60.6	61.1	59.5	60.4	60.4	59.9	60.6	61.4	60.4	60.9	60.0	60.6
Protein.....	percent	12.2	11.6	11.8	12.2	11.9	11.6	12.4	11.5	11.5	12.2	12.2	11.6
Moisture	percent	11.2	11.3	11.6	11.2	11.3	11.7	10.8	10.9	11.4	11.6	11.8	12.0
Grade													
1	percent	72	89	37	63	68	54	67	93	57	78	29	73
2	percent	26	9	53	32	31	40	33	6	40	21	70	26
All other	percent	2	2	10	5	1	6	1	1	3	1	1	1
Defects													
Damaged kernels	percent	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.4	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	0.1
Shrunken & broken.....	percent	1.3	1.6	1.4	1.1	1.2	1.0	1.2	1.0	1.1	1.3	1.3	1.0
Total	percent	1.5	1.7	1.7	1.4	1.5	1.4	1.5	1.3	1.5	1.8	2.1	1.6
Average dockage	percent	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5	0.7	0.6	0.6	0.5
Item	Unit	Central			South Central			Northeast			East Central		
		Avg	2020	2021	Avg	2020	2021	Avg	2020	2021	Avg	2020	2021
Samples tested	number	2,073	2,775	3,118	2,366	3,026	3,938	(D)	15	(D)	(D)	5	(D)
Test weight.....	lbs/bu	60.7	60.6	60.2	61.1	61.9	62.0	(D)	61.3	(D)	(D)	60.9	(D)
Protein.....	percent	12.2	11.8	11.2	11.6	11.0	10.7	(D)	11.5	(D)	(D)	11.6	(D)
Moisture	percent	11.4	11.9	11.8	11.4	11.5	11.1	(D)	10.6	(D)	(D)	11.8	(D)
Grade													
1	percent	74	73	65	80	95	91	(D)	100	(D)	(D)	100	(D)
2	percent	23	25	34	17	5	9	(D)	0	(D)	(D)	0	(D)
All other	percent	3	2	1	3	0	0	(D)	0	(D)	(D)	0	(D)
Defects													
Damaged kernels	percent	0.5	0.4	0.5	0.4	0.5	0.4	(D)	0.7	(D)	(D)	0.9	(D)
Foreign materials.....	percent	0.1	0.1	0.1	0.1	0.1	0.1	(D)	0.1	(D)	(D)	0.2	(D)
Shrunken & broken.....	percent	1.1	1.0	0.9	1.2	0.9	1.0	(D)	1.2	(D)	(D)	0.8	(D)
Total	percent	1.7	1.4	1.4	1.7	1.6	1.4	(D)	2.0	(D)	(D)	1.9	(D)
Average dockage	percent	0.5	0.5	0.7	0.5	0.5	0.6	(D)	0.8	(D)	(D)	0.5	(D)
Item	Unit	Southeast			State								
		Avg	2020	2021	Avg	2020	2021						
Samples tested	number		488	119		243		11,027		11,944		13,330	
Test weight.....	lbs/bu		60.8	61.7		61.2		60.8		61.0		60.7	
Protein.....	percent		11.3	10.7		10.5		12.1		11.6		11.3	
Moisture	percent		12.1	11.6		11.7		11.3		11.4		11.6	
Grade													
1	percent		73	93		79		74		82		71	
2	percent		21	6		20		23		17		27	
All other	percent		6	1		1		2		1		2	
Defects													
Damaged kernels	percent		0.5	0.4		0.6		0.3		0.4		0.4	
Foreign materials.....	percent		0.0	0.0		0.0		0.1		0.1		0.1	
Shrunken & broken.....	percent		0.9	0.9		1.2		1.2		1.1		1.0	
Total	percent		1.5	1.3		1.9		1.6		1.5		1.5	
Average dockage	percent		0.6	0.5		0.7		0.5		0.5		0.6	

(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/whtqlty21.pdf

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