

K-State Wheat Variety Demonstration Plots

Wallace County

Plot Location: 9 miles south of Sharon Springs, 4 mi east and 1/4 mi south

Cooperator: Mai Farms



Variety		Yield bu/ac	Test Weight lb/bu	Moisture %	Protein %
Avery	Colorado State	74.4	58.6	10.2	12.8
KS Western Star	K-State	72.8	59.9	10.1	12.5
WB Grainfield	Westbred	72.3	58.5	10.7	12.7
Guardian	Colorado State	72.0	58.6	10.3	13.4
TAM 115	Watley	70.9	60.0	10.2	13.5
WB 4792	Westbred	70.8	60.3	10.4	12.5
KS Hamilton	K-State	70.0	58.3	10.1	12.7
TAM 114	Agseco	69.7	60.0	10.4	13.5
Langin	Colorado State	68.1	57.8	10.3	12.9
Canvas	Colorado State	67.7	59.0	10.2	12.8
WB 4462	Westbred	67.4	58.7	10.1	13.4
KS Dallas	K-State	67.0	59.0	9.9	12.8
LCS Steel AX	Limagrain	66.6	58.2	9.9	12.9
LCS Julep	Limagrain	65.1	60.3	10.2	13.3
Byrd CL+	Colorado State	63.6	57.9	10.2	12.7
Fortify SF	Colorado State	61.6	57.8	10.3	13.3
T-158	Limagrain	59.4	60.2	9.8	12.4
Red Wheat Average		68.2	59.0	10.2	12.9
Breck	white Colorado State	75.2	60.3	10.2	13.1
Antero	white Colorado State	68.9	58.6	10.0	12.4
KS Silverado	white K-State	62.5	60.2	10.0	13.5
LCS White Lightning	white Limagrain	61.9	59.2	9.7	13.7
Joe	white K-State	59.9	59.0	9.9	12.9
KS Venada	white K-State	59.3	58.4	9.7	13.5
White Wheat Average		64.6	59.3	9.9	13.2
Overall Plot Average		67.3	59.1	10.1	13.0

Drilled: September 24, 2021

2" deep into moisture

45 lbs/ac

Fertility: 55 lbs of N as anhydrous, 5 gal of 10-34-0 (starter)

Herbicide: none

Fungicide: none

Harvested: July 6, 2022

AX = CoAxium variety, can be treated with Aggressor herbicide

CL+ = 2 gene Clearfield, can be treated with higher rates of Beyond herbicide

SF = varieties with a semi-solid stem

Thank you to Mai Farms for being the wheat plot cooperator!

Thank you to Wheeler Equity for running protein % on the samples!

All yields are adjusted to 13% moisture.

This data is from demonstration plots. It should be used with replicated performance test data for variety selection.

Syngenta/AgriPro variety yields are not included in these results, per AgriPro's request.

Please contact Jeanne Falk Jones, K-State Agronomist at (785) 443-3403 or jfalkjones@ksu.edu with questions.

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Overview of the plot:

- Field is in a wheat-corn-fallow rotation with a combination of herbicide and tillage ahead of wheat drilling.
- The wheat stand established pretty well, with some fall tillers established (even with the dry conditions).
- The plot received about 8 in of snow, in one event (when parts of northern Wallace Co received 20+ inches of dry snow).
- Continued dry conditions through the spring helped hold rusts at bay.
- Hot conditions and wind in mid-June stressed wheat at grain fill. However, test weight stayed pretty strong.
- Protein content was all over 11.5%. This is because of a strong fertility program and dry conditions slowing down the flow of carbohydrates (forms starch) in the kernel.