

# K-State Wheat Variety Demonstration Plots

Wallace County

Plot Location: 9 miles south of Sharon Springs, 4 mi east on Field Road, 1/3 mi south

Cooperator: Mai Farms



	Variety			Yield bu/ac	Test Weight lb/bu	Moisture %	Protein %
1	Monarch	white	Colorado State	87.0	61.6	12.3	10.7
2	Telluride	white	Colorado State	87.1	60.7	13.0	11.1
3	Joe	white	K-State	85.8	60	12.6	11.3
4	KS Big Bow	white	K-State	83.4	60.6	12.7	12
5	KS Bill Snyder		K-State	82.6	61.4	13.1	11.3
6	Breck	white	Colorado State	82.3	62	12.8	11.6
7	Whistler		Colorado State	80.8	61	12.8	10.9
8	KS Silverado	white	K-State	80.3	61.3	12.9	11.3
9	Sheridan		Colorado State	80.3	60.9	12.9	11.5
10	LCS White Lightning	white	Limagrain	78.7	60.9	12.7	11
11	KS Western Star		K-State	77.6	62.3	12.6	11.5
12	LCS Steel AX	co-axium	Limagrain	78.1	59.5	13.2	11.8
13	WB Grainfield		WestBred	77.9	60.5	13.8	11.6
14	WB 4792		WestBred	77.0	62.5	13.0	11.6
15	KS Territory		K-State	76.5	61.4	12.6	11.9
16	Avery		Colorado State	76.6	60.8	13.2	11.4
17	KS Snow Fox	white	K-State	76.0	60.9	12.8	11.2
18	Langin		Colorado State	75.7	59.9	13.9	11.3
19	KS Dallas		K-State	74.4	61.2	12.6	11.7
20	KS Homesteader CL+	clearfied	K-State	74.4	61.9	13.2	12.2
21	Guardian		Colorado State	73.7	61.3	13.4	11.9
22	WB 4445 CLP	clearfied	WestBred	71.6	60.5	13.6	12.2
23	Windom SF	hite&semi-so	Colorado State	70.8	61.9	12.9	11.8
24	Amplify SF	semisolid	Colorado State	69.4	60.2	12.9	11.3
Average				78.2	61.1	13.0	11.5

Drilled: September 30, 2024

2" deep into moisture

50 lbs/ac

wheat-corn-fallow rotation

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

Herbicide: none

Fungicide: none

Harvested: July 4, 2024

AX = CoAxium variety, can be treated with Aggressor herbicide

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

SF = varieties with a semi-solid stem, to help prevent egg laying by wheat stem sawfly

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

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.

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

K-State Research and Extension is an equal opportunity provider and employer.

## Overview of the plot:

- Plot drilled into moisture and emerged evenly and timely. A fair amount of fall growth helped provide decent cover during the winter.
- Wheat came through the winter well and resumed even growth in the spring.
- While there was wheat streak mosaic and triticum mosaic found, there was only low levels of pressure in the plot. This signaled a very low wheat curl mite population and a late infection.
- Only a very trace level of stripe rust was found in the plot. Because of this, the plot did not have a fungicide application for stripe rust.
- A majority of the grainfill was cool, with three days of very high temperatures. This resulted in some of the later varieties having some shriveled kernels.