

## News Column

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### **Results of wheat variety demonstration plot**

Typically, wheat growers will keep back enough of their wheat seed to plant again, but also they may be looking to replace a variety in an effort to reduce seed borne diseases, and to improve genetics for yield and disease prevention.

Each year many county agents put out wheat variety demonstration plots and conduct field days to view and discuss the strengths and weaknesses of varieties and wheat production issues. Most demonstration plots are also harvested.

For further details of the cultural practices of the plot go to our web site at [www.cottonwood.ksu.edu](http://www.cottonwood.ksu.edu)  
This demonstration wheat plot should not be used for making your variety selection decisions, it is more for showing and talking about the varieties each year at the field day.

Instead I would highly encourage growers to make your variety selection decisions based on the K-State Agricultural Experiment Stations replicated wheat performance tests. They are randomized replicated trials, meaning each variety is randomly planted in 4 different spots in the field, all seed is either foundation or registered. Replicated field trials will account for or smooth out the variability within a field, and thus are more accurate. These results from the Agricultural Experiment Stations can also be found on our web site.

Yield should not be the only consideration in your selection, and multiple years of data should be considered. This plot was not harvested in 2019, the 2 year average is for 2018 & 20. Some other important considerations are stripe & leaf rust resistance, drought tolerance, winter hardiness, straw strength, shattering reputation, maturity and test weight. Each grower may differ some in what is most important to them and may add other considerations not mentioned. A good resource is "Wheat Variety Disease and Insect Ratings 2019" publication, it will be posted on our web site as soon as it is completed.

Variety	Yield (bu/a)	TW(lb/bu)	% of test Avg.	2 yr. Avg.
Check #1	46.3	58.2		
Green Hammer	36	59	88	
LCS Valiant	44	58.9	107	
Tatanka	41	60.4	100	48
WB4269	41	60.3	100	
Check #2	37.4	58.7	99	
Larry	48	59.2	117	47
Paradise	34	59.5	83	
SY Monument	44	59.5	107	45
WB-Grainfield	36	60.4	88	39
Showdown	43	59	105	
Check #3	38.5	58.6		
WB4303	41	57.3	100	44
KS Western Star	49	60.2	120	
SY Grit	39	59.3	95	
Zenda	35	58.8	85.0	44
Check #4	43.2	58.7		
<b>Plot Av. w/out checks</b>	<b>41</b>	<b>59.3</b>		<b>45</b>