



Result Demonstration Report

2018 Tom Green Co. Dryland Wheat Variety Strip Trial

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Summary

Eleven wheat varieties, 8 hard red winter wheat and 2 beardless, were compared under similar growing conditions to determine which wheat varieties consistently have higher grain yields. TAM 114, SY Flint, Gallagher and WB 4269 topped this test with grain yields of 51.3 lbs./bu, 50.9 lbs./bu, 49.9 lbs./bu and 49.7 lbs./bu respectively. Producers should keep in mind that these results can change under different field conditions, soil fertility and rainfall. It is suggested that you look at the better cultivars on your farm to determine if they are compatible with your management style.

Objective

Commercial wheat varieties require testing each year for determinations of consistency of grain yield. Through the use of a field test, a comparison is made of new varieties of wheat with varieties that have proven to be successful, long term grain yielders. Testing of said varieties within a geographic area of production is important to provide local producers with the latest information on old and new varieties.

Materials and Methods

Eleven wheat varieties were planted using a 40 foot John Deere 1910 Air Cart and 1830 Air Hoe Drill. The two outside rows on each side were plugged to provide a blank border between varieties. Each of the eleven varieties was planted once in 1700 foot strips.

Soil Type: Angelo Clay Loam
Previous Crop: Cotton
Land Preparation: No-til
Planting Date: 11/28/2017
Harvest Date: 5/31/2018
Soil Moisture: Good
Soil Temp:
Seeding Rate: 58 lbs per acre
Fertility: 32-0-0 @130 lbs/acre, liquid applied ground broadcast at planting
11-52-0 @ 125 lbs/acre, dry applied at planting
Herbicide: .12 ounces Ally on 1-17-18
Insecticides:
GPS Coordinates: 37°27'34"N 100°10'24"W

Results and Discussion

Table 1 contains the yields for each of the eleven wheat varieties evaluated in this test. TAM 114, SY Flint, Gallagher and WB 4269 topped this test with grain yields of 51.3 lbs./bu, 50.9 lbs./bu, 49.9 lbs./bu and 49.7 lbs./bu respectively. Table 2 includes all the agronomic data from the variety strip trial.

Table 1. Yields from the Dryland Wheat Variety Strip Trial

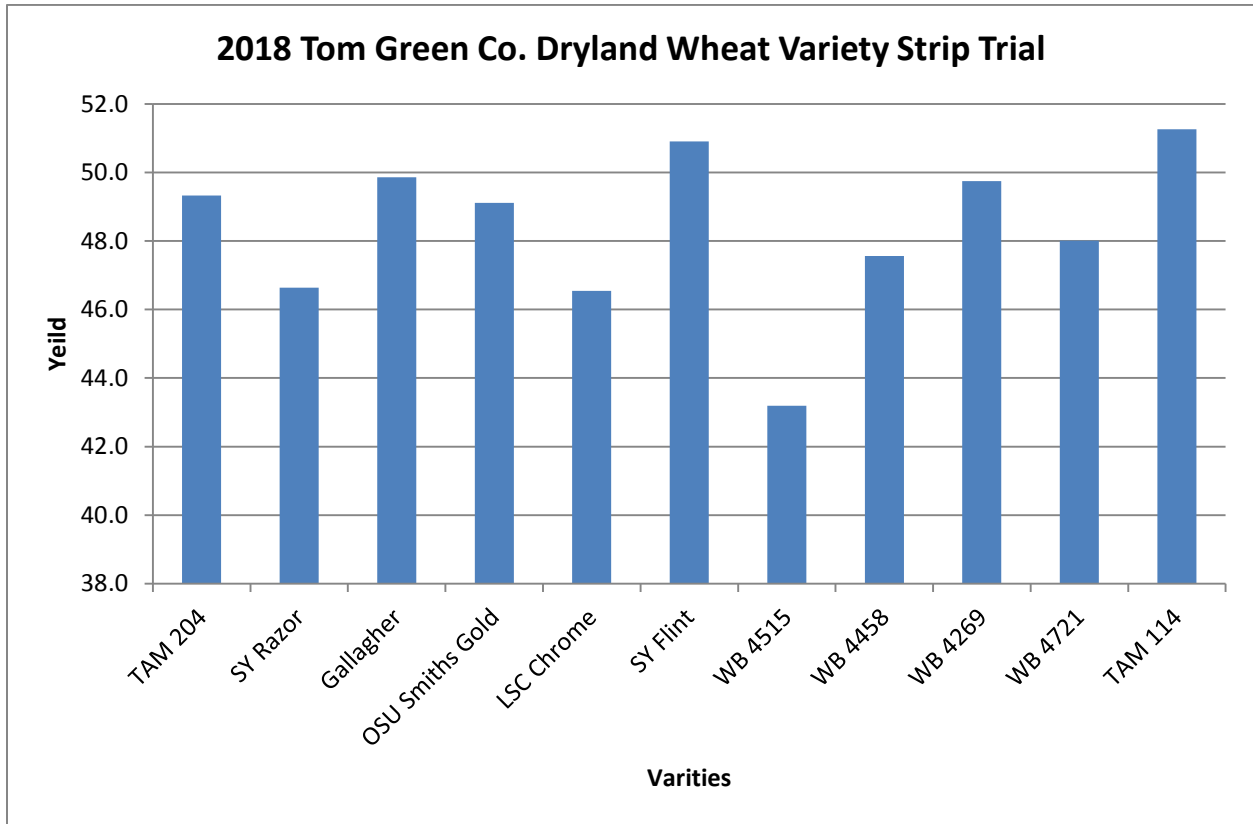


Table 2. Agronomic Data from the Dryland Wheat Variety Strip Trial

Wheat Variety	Plant Height ²	Protein	Test Weight (lb/bu)	Yield ¹
TAM 204 ³	24	14.1	58.9	49.3
SY Razor ³	30	14.9	63.2	46.6
Gallagher	24	11.4	60.5	49.9
OSU Smiths Gold	22	14.6	62.2	49.1
LSC Chrome	23	15.9	61.9	46.5
SY Flint	23	12.9	61.2	50.9
WB 4515	24	15.1	63.6	43.2
WB 4458	27	13.8	60.6	47.6
WB 4269	23	13.7	60.7	49.7
WB 4721	24	15.5	63.3	48.0
TAM 114	28	12.7	61.8	51.3

¹ Yield is adjusted to 13% moisture

² Plant height is in inches

³ Beardless Wheat Varieties

Conclusions

TAM 114, SY Flint, Gallagher and WB 4269 topped this test with grain yields of 51.3 lbs./bu, 50.9 lbs./bu, 49.9 lbs./bu and 49.7 lbs./bu respectively. Producers should keep in mind that these results can change under different field conditions, soil fertility and rainfall. It is suggested that you look at the better cultivars on your farm to determine if they are compatible with your management style.

Acknowledgements

Sincere appreciation is expressed to Gene Gully and Sons for establishing and managing the 2018 Tom Green County Dryland Wheat Variety Strip Trial.

Also a word of thanks to David Holubec and Holubec Seed for providing guidance and wheat seed including TAM 204, Gallagher, OSU Smiths Gold, LSC Chrome, SY Flint, WB 4515, WB 4458, WB 4269, WB 4721 and TAM 114. In addition we would like to thank Brad Mund and Crop Production Services for providing the SY Razor wheat seed.