

## **2021 Wheat Demonstration Plots**

### **Variety and Descriptions**

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**AG Icon** This 2017 hard red winter wheat variety was developed by KSU and licensed to AGSECO by KS Wheat Alliance. It is broadly adapted to Kansas, Oklahoma, and northern Texas. AG Icon offers exceptional yield performance with very high tillering potential. It has excellent straw strength, leaf disease package, and acid soil tolerance. It is moderately-early in maturity as well as good winterhardiness.

**AG Golden** This NEW medium-late maturity and medium-height variety with AGSeco has excellent resistance to leaf and stem rust along with moderately resistant to stripe rust. Golden has excellent straw strength along with very good test weight.

**AG Radical** This is another NEW wheat variety from AGSECO that is a medium-early maturity and medium-height. It has excellent resistance for leaf rust, intermediate for stripe rust and susceptible to stem rust. However, it is very good against the Fusarium Head blight (Head scab), so a good choice after corn. Radical has shown excellent protein values along with straw strength and very good test weights.

**AM Cartwright** This AgriMAXX wheat variety has a stout agronomic package and many core strengths. It works across a variety of soil types and has moderate tolerance to acid soils. It has performed well when planted early (resistant to Hessian Fly) and when planted late (early season vigor). AM Cartwright is holding up extremely well to the new race of stripe rust and is also very good against leaf rust and may not need a fungicide application. It has excellent straw strength and under high management can yield very well.

**AM Eastwood** This variety is a high yielding, early variety with excellent fusarium head blight tolerance and winterhardiness. It should be a great fit for higher managed acres with its shorter plant height, moderate resistance to stripe rust and very good wheat streak mosaic virus tolerance.

**AP EverRock** A new variety from AgriPro and is intended for dryland and irrigated production. It has excellent tolerance to low pH soils along with the Barley Yellow Dwarf virus. EverRock is a medium-short, medium-early variety that has excellent milling quality with its' pedigree SY Wolf, Everest and Postrock.

**AP Roadrunner** This AgriPro hard red winter variety tends to thrive in harsh conditions with great drought tolerance and end-use quality. Roadrunner has shown excellent yields across the western half of Kansas and into Nebraska, Oklahoma and Texas. It has a very good leaf package with resistance to leaf and stripe rust along with improved wheat streak mosaic virus tolerance.

**AP Bigfoot (10BC329-17-5)** This NEW AgriPro variety is a very diverse wheat that covers the great plains with South Dakota, Nebraska, Kansas and Oklahoma. It has had a strong yield performance in trials along with high test weights. Bigfoot has a good disease package with resistance to leaf and stripe rust along with moderate to the wheat streak mosaic virus.

**Bob Dole** This variety from AgriPro/Syngenta is meant for the central corridor and comes with very good resistance to rust and some tolerance to scab. Bob Dole has a good overall disease package with resistance to leaf and stripe rust along with excellent baking and milling qualities. Good yield potential for the central region. Be sure and increase your seeding rate, somewhat, because of the large seed size.

**Doublestop CL+** An OGI (Oklahoma Genetics, Inc.) variety with very consistent two-gene Clearfield genetics with much better tolerance to Beyond herbicide than one-gene Clearfield varieties. It has a generally good yield record in KSU and OSU tests and is moderately-resistant to the wheat streak mosaic virus. Doublestop CL+ is a tall, late-maturing wheat with a great disease leaf package especially with stripe and stem rust.

**Everest** This variety from Kansas Wheat Alliance is the benchmark for tolerance to Fusarium Head Blight (FHB) with an intermediate rating. Everest will need to be sprayed for either stripe rust or tan spot if those diseases are a problem. It is more resistant to barley yellow dwarf than most and is intermediate to scab and Hessian fly. It seems to tolerate mid-season drought in the fall and performs average under drought. Everest is not a high-tillering variety, so to sustain top yields it does need to get established well in the fall.

**HG Force** This is a new hard red winter wheat release from Heartland Genetics. It is a medium-maturity wheat with a high yield history in Kansas and Southern Nebraska. It has excellent winterhardiness with outstanding straw strength. Force has good resistance to leaf rust and the soilborne mosaic virus with moderate resistance to stripe rust and the wheat streak mosaic virus.

**KS Dallas** A hard red winter wheat from KS Wheat Alliance with medium-maturity and medium height with good adaptation to dryland production. It has a strong disease package with resistance to leaf and stem rust along with the Wheat Streak Mosaic virus. Dallas has average test weight and good baking quality.

**KS Hatchett** This KS Wheat Alliance wheat variety is an early-maturing hard red winter wheat with acceptable straw strength, very good resistance to leaf and stem rusts, and good test weight. It has performed well across widely disparate growing seasons and has significant quality advantages over Zenda. Its' high tillering ability and earlier maturity makes it a preferred choice following soybeans throughout the central corridor. It also offers Hessian fly resistance and an effective level of acid soil tolerance that many varieties in the central region lack.

**KS Western Star** This is a NEW hard red winter wheat from KS Wheat Alliance with medium-maturity and height and adapted for the western 2/3 of Kansas. It has moderate resistance to both stripe and leaf rust along with intermediate resistance to Barley Yellow Dwarf and FHB (Head scab). Western Star has very good drought tolerance along with good straw strength and baking and milling qualities.

**KS 12DH0156-88** NEW hard red winter wheat variety from KS Wheat Alliance with medium-maturity and height. Its' parentage is Gallagher, Karl 92 and Jagger. This experimental is resistant to soilborne and stem rust and moderately resistant to acid soil, leaf rust and powdery mildew. Pretty good leaf disease package with also intermediate to tan spot, stripe rust and the barley yellow dwarf virus.

**Larry** A KS Wheat Alliance red hard winter wheat that is a medium-maturity variety that is targeted for central Kansas and further west toward Hays. Larry has high tillering capacity with good top-end yield potential under increased management such as a fungicide application in high stress conditions. Well adapted state-wide, as it has been performing well in state trials. It is moderately resistant to stripe and stem rust, but moderately susceptible to leaf rust and head scab along with acceptable baking and milling quality.

**LCS Atomic AX** This is a NEW CoAxium variety that is early in maturity and is a short-plant type. It appears to have some heat and drought tolerance providing yield stability in dry years. Its' disease package worth noting with resistance to leaf and stripe rust along with intermediate to fusarium head blight or scab and septoria leaf blotch. With resistance to the Aggressor herbicide, this makes it a great tool for cleaning up fields with brome, cereal rye and jointed goat grass.

**LCS Chrome** This Limagrain Cereal Seeds variety is a medium-tall and medium-late maturity. It was named for its' blue-gray color in the early growth stages and has shown good yields in commercial and state trials with broad adaptation for the entire state of Kansas. It is poised to be a strong variety for the region. It appears to have high tillering ability along with test weight. It has good resistance to leaf and stripe rust in addition to excellent straw strength.

**LCS Diesel** NEW variety released in 2019 from Limagrain Cereal Seed bred for northern KS and into Nebraska. It has a full season maturity and provides resistance to stripe, stem and leaf rust along with Head Scab (FHB). Diesel has excellent end-use quality for milling and baking.

**LCS Helix AX** This is a medium-early hard red winter wheat variety with medium height. Helix is one of the most adaptable CoAxium varieties available due to its' top-end yield, high test weight, winterhardiness and resistances to stripe and stem rust.

**LCS Julep** Released in 2019, this variety comes from the LCS Mint pedigree with rust resistance package and drought tolerance as the main strengths. Julep has a high tiller count, quick emergence along with late spring green-up which has allowed this variety to handle the late freezes very well over the past few years.

**LCS Link** This Limagrain Cereal Seed variety was bred in collaboration with the University of Nebraska-Lincoln resulting in a variety with excellent straw strength and winterhardiness. It has shown a strong initial adaptation to the I-70 corridor and north. It has a good disease package with resistance to leaf, stem and stripe rust along with the barley yellow dwarf virus.

**LCS Mint** This variety from Limagrain Cereal Seeds variety is a medium-tall height, medium-maturity hard red winter variety that is excelling in the northern locations. LCS Mint has a very striking dark green plant color and is photo-period sensitive meaning that it will vary its maturity year to year more than non-sensitive varieties as LCS Mint responds to variation in day length. LCS Mint has intermediate resistance to stripe rust, but has excellent tolerance to acid soils along with exceptional milling and baking quality. So it may benefit from a fungicide application if heavy pressure on leaf or stripe rust.

**LCS Photon AX** This is a progeny of T158 with excellent tolerance to Aggressor herbicide along with drought and heat. It is moderately resistant to powdery mildew and resistant to stripe rust. This is a good pick for cleaning up winter annual grassy weeds and grazing cattle through fall and winter.

**LCS Revere** This is also a progeny of T158 that has a very quick fall emergence and establishment. It is a medium-height, medium-early maturity variety with high-tillering and excellent fall ground coverage. Revere includes an excellent rating for drought tolerance and very good tolerance for stripe rust.

**LCS Valiant** A medium-height, medium-maturity wheat variety with high-end yield and stability across a large geography of Kansas. Valiant is characterized by excellent milling and baking qualities, good fall ground cover with high tillering along with early spring green-up.

**Long Branch** This Dyno-Gro variety released as certified seed in 2017 is a medium-late maturity and is well suited for irrigated and dryland acres. It handles heat and moisture stress well and finishes well in adversity. While it has a good rating for rust, it should be monitored and sprayed if necessary to protect yield potential.

**Meridian Maverick** NEW Meridian Seed company hard red winter wheat variety.

**PlainsGold Canvas** A high yielding hard red winter wheat with medium-maturity, medium-short height, with excellent straw strength, and very good stripe and stem rust resistance. Canvas has very good drought tolerance and very good end-use quality with baking and milling characteristics.

**PlainsGold Guardian** Released in 2019, Guardian is a medium-height and late maturity wheat with a good disease package for rust diseases. This is combined with very good yield potential, exceptional test weight along with high grain protein.

**PlainsGold Whistler** A hard red winter wheat with high yields, medium maturity, medium-tall height, fair straw strength, and very good stripe and stem rust resistance. Being PlainsGold latest-maturing release, it would fit in a diversified planting strategy in the fall.

**Polansky High Country** A NEW variety from Polansky Seed for 2021 with strong performance in the High Plains. It has a great test weight rating with an above average rating on winterhardiness and leaf rust. High Country is best placed in the High Plains of western KS along with Nebraska and eastern Colorado.

**Polansky Paradise** Polansky hard red winter wheat variety with a high-yielding potential package. It has had a good yield record through central Kansas into northern Oklahoma, performing among other good yielders. Paradise is a medium-early variety with excellent stripe rust resistance and moderately resistance to leaf rust along with excellent fall forage production. Its' milling and baking quality is excellent along with good tillering and test weight.

**Polansky Rock Star** This is a newer medium-season wheat suited to the central corridor with strengths including resistance to leaf, stem and stripe rust along with above average for the wheat streak mosaic virus. It has excellent yields with some tolerance to head scab. Rock Star has excellent winterhardiness and very good straw strength.

**SY Monument** This AgriPro/Syngenta variety is positioned for central and western Kansas, Oklahoma, Nebraska and the Texas Panhandle. SY Monument has good stripe, leaf and stem rust resistance, showing very high tillering and good test weight. It is widely adapted and gaining popularity for good reason, proving itself with consistency with an overall good leaf disease package and few weaknesses.

**SY Rugged** This medium-early, short height, AgriPro/Syngenta variety is adapted across central and western Plains and performed through a range of conditions. It has an exceptional leaf health package with resistance to leaf, stem and stripe rust along with having very good drought tolerance. SY Rugged has good low pH tolerance along with very good test weights.

**SY Wolverine** New early-maturing variety with heavy SY Wolf parentage. Good standability and an excellent yield in most of Kansas. Wolverine has good disease tolerance, similar to SY Wolf, but with a broader adaptation and improved wheat streak mosaic complex tolerance.

**Tam 205** This is a hard red winter wheat variety developed by Texas A & M University and licensed to AGSECO in 2019. TAM 205 offers resistance to leaf, stripe and stem rust, wheat streak mosaic virus, soil-borne mosaic virus and Fusarium head blight (scab). The baking and milling quality is very good, and it is an excellent choice for whole wheat products as well as traditional pan bread. TAM 205 has large seeds and high test weight. It covers the ground quickly in the fall and may be utilized for grain only or for heavy grazing plus grain production systems.

**WB Grainfield** This variety from WestBred has medium-late maturity, and is positioned primarily for areas north and west of I-35 and has very good yields at the western locations and has shown relatively consistent performance in test yield data. Grainfield has good overall leaf disease resistance, with the exception of Septoria leaf blotch. It has very good drought tolerance and shattering reputation, but is moderately susceptible to Hessian fly, Barley Yellow Dwarf and the Wheat Streak Mosaic virus.

**WB 4269** This variety from WestBred is adapted to a line more or less following U.S. Hwy. 281 and east. In the most recent variety trials, it finished in the top quarter of most of the yield trials in central KS. It has an excellent leaf health package being moderately resistant to leaf and stripe rust along with powdery mildew. It is an early-maturing variety with moderately resistant to fusarium head blight tolerance along with excellent straw strength and high tillering potential.

**WB 4303** A release by WestBred that has high-end yield potential with excellent fall growth and tillering and straw strength. It is intermediate against leaf and stem rust and moderately susceptible to stripe rust so a fungicide application might be necessary to reach full yield potential. WB 4303 is intermediate for Barley Yellow Dwarf and is good for winterhardiness. It is adapted to central and eastern Kansas and has excellent shattering reputation.

**WB 4401** This is a 2020 release from WestBred that is a medium-maturity and medium-height with excellent seedling vigor along with high tillering. It is intermediate or better on most diseases including Head Scab or FHB. However, it is moderately susceptible to the wheat streak mosaic virus. 4401 is targeted as a replacement for WB-Grainfield, WB4303 and WB4458. It has superior yield potential, good test weight and protein as well as excellent milling and baking qualities.

**WB 4595 NEW** medium-tall, medium-maturity hard red winter wheat from WestBred with excellent yield potential and test weight. It is broadly adapted due to its disease tolerances. Good tillering and standability allow for a wide range of planting populations.

**WB 4699** This NEW WestBred variety is a hard red winter wheat with excellent yield potential and an overall very good disease package. It holds winter dormancy well and has good milling and baking qualities. To help maximize grain protein, fertility management is recommended.

**WB 4792** This NEW WestBred variety is a hard red winter wheat with excellent yield potential and leaf rust resistance. This medium-late maturing variety has very good winterhardiness and moderately resistance to the wheat streak mosaic virus and barley yellow dwarf, contributing to its' strong western Kansas adaptation.

**Zenda** This is a KS Wheat Alliance variety with Overley and Everest parentage. It is a medium-early, medium-height variety that is expressing good yield potential for the central corridor and eastward. Zenda's stripe rust resistance has resulted in higher average yields and greater yield stability compared with Everest, and has better end-use characteristics. It has shown moderate resistance to leaf, stem and stripe rust and to soilborne mosaic, however is moderately susceptible to the wheat streak mosaic virus. Among the best of varieties regarding tolerance to scab (fusarium head blight) so a good choice after corn.

## **BLENDS:**

### **Jewell County:**

**Blend #1: SY Monument/WB Grainfield/LCS Chrome**

### **Osborne County:**

**Blend #1: SY Monument/SY Wolverine/LCS Chrome**

**Blend #2: T154/SY Wolf/ SY Monument**



# **NOTES**