Variety and Descriptions

AG Icon  This variety was released in 2017 by Kansas State University through its’ double haploid program and licensed to AGSECO by the Kansas Wheat Alliance. It is broadly adapted to Kansas, Oklahoma and northern Texas. AG Icon offers producers exceptional yield performance and excellent straw strength. AG Icon is early in maturity and has good baking and milling quality. It has an exceptional leaf disease package and a very high tillering capacity. AG Icon has excellent acid soil tolerance and good winterhardiness.

AM Cartwright  This variety is a medium-maturity variety that brings a new level of yield that excels in central Kansas and south with some western movement. Cartwright has great fall vigor and carries a good disease package with resistance to leaf and stripe rust. It has shown good stability over the years with strong yields when fungicides weren’t applied. Cartwright looks to be towards the top end of the list of varieties that tolerated the freeze.

AM Eastwood  This variety from AgriMaxx has high yielding potential along with good winterhardiness and standability. It is an early variety with excellent fusarium head blight tolerance, so a good choice behind corn. It should be a great fit for higher managed acres with its’ shorter plant height, moderate resistance to stripe rust, very good test weight and wheat streak mosaic virus tolerance.

Bentley  This variety was released in 2015 from Oklahoma State University and marketed by Oklahoma Genetics, Inc., is best adapted from central to southcentral Kansas and the central corridor of Oklahoma. Bentley has generally been an excellent yielder in the performance tests to date with drought tolerance and tolerance to late winter freeze in addition to resistant to stem rust along with intermediate to stripe rust and powdery mildew. It is a good grazing wheat and recovers well after spring grazing or spring freeze injury.

Bob Dole  This variety from AgriPro/Syngenta is meant for the central corridor and comes with very good tolerance to rust and some tolerance to Fusarium head blight. Bob Dole has a good overall disease package with resistance to leaf, stem 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. Potential lodging above 80 bu./acre, but does have average straw strength.

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 wheat streak mosaic. Doublestop CL+ is a tall, late-maturing wheat with a great disease leaf package especially with leaf, stripe and stem rust.

Everest  This variety from Kansas Wheat Alliance remains one of the “go-to” varieties for eastern and central Kansas. For six years, it was the most-planted variety in the state until dropping to fifth place this year. 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, so good if planting behind corn. It seems to tolerate mid-season drought in the fall and fills well under drought. Everest is not a high-tillering variety, so to sustain top yields it does need to get established well in the fall.
KS Dallas  This variety was named after retired plant pathologist Dr. Dallas Seifers, who worked at the K-State Agricultural Research Center in Hays and helped to develop the WSM2 gene found in the varieties KS Dallas and Joe. It is adapted to the western half of Kansas, eastern Colorado, northwest Oklahoma, the Texas panhandle and southwest Nebraska. KS Dallas is a medium-maturity and medium-height variety and performed well in western Kansas in 2017 and 2018. KS Dallas has a strong disease package with wheat streak mosaic virus resistance up to 70°F, which is three degrees higher than those resistant varieties with WSM2, such as Joe and Oakley CL. It has moderate resistance to stripe rust and good resistance to leaf rust and stem rust. It is susceptible to soilborne mosaic virus and moderately susceptible to Hessian fly. It has good shattering resistance and pre-harvest sprouting resistance. Its’ straw strength is about average, which is similar to T158. KS Dallas has good milling and baking qualities.

KS Western Star  This variety was named after the Western Star Milling Company in Salina, Kan. It is adapted to central and western Kansas, eastern Colorado, northwest Oklahoma and southwest Nebraska. KS Western Star is a medium-maturity and medium-tall statured variety and had greater yields than any other hard red winter wheat varieties in the KIN tests in 2017 and 2018. On average over the two years, it yielded more than any common check varieties, including Joe. KS Western Star has resistances to stripe and leaf rust along with soilborne mosaic virus. It has very good straw strength and grain shattering resistance along with good milling and baking qualities as well as pre-harvest sprouting resistance. KS Western Star has very good drought tolerance and high yield potential. While it is susceptible to Hessian fly and wheat streak mosaic virus, it has wheat curl mite resistance and intermediate resistance to *Triticum mosaic virus*.

Larry  This Kansas Wheat Alliance variety has high tillering capacity with good top-end yield potential under increased management such as a fungicide application in high stress conditions. It is somewhat taller than typical varieties from KSU’s Manhattan-based program. It doesn’t put on a lot of fall forage, but it has good tillering capacity, good straw, and does well under drought stress. It is resistant to stripe and stem rust, but moderately susceptible to leaf rust and scab along with less desirable baking and milling quality.

LCS Chrome  This Limagrain Cereal Seeds variety is medium-tall and medium-late maturity similar to Monument and 1863. 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 appears to have high tillering ability along with test weight. Its’ disease package responded well to most pressures with good resistance to leaf and stripe rust in addition to excellent straw strength.

LCS Fusion AX  This new variety from Limagrain Cereal Seeds is one of the first CoAxium varieties available on the Central Plains. This variety contains the patented, two-gene, non-GMO, AXigen trait that gives tolerance to Aggressor herbicide for the best control of feral rye, cereal rye, jointed goatgrass, wild oats, volunteer cereals and other winter and spring annual grasses. It is a medium-maturity, medium plant height variety with very good drought tolerance with moderate tolerance to wheat streak mosaic virus. Can be planted a little deeper with its’ medium-long coleoptile. Yield performance was good for this past year.

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 last year, and its’ range has been extended south. LCS Link has a good track record in state variety trials. It has a good disease package with resistance to leaf, stem and stripe rust along with barley yellow dwarf.
LCS Mint This variety from Limagrain Cereal Seeds variety is a medium-tall height, medium-maturity that has adapted in the region especially excelling on northern locations. LCS Mint has a very striking dark green plant color and is well adapted to the Central Plains and High Plains. This variety 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 for leaf or stripe rust.

LCS Valiant This NEW University of Nebraska variety with high-end yield has stability across a large geography. It has higher-than-average protein levels and a pretty good disease package with intermediate resistance to leaf and stripe rust. Valiant has excellent winterhardiness, good fall ground cover with high tillering and an overall excellent yield record where adapted.

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. In the 2018 OSU yield trials, Long Branch had impressive top-tier yields, doing better toward the west.

OGI Showdown This variety from Oklahoma State University features a very high yield ceiling with wide geographic reach. Showdown is more centrally adapted in the southern and central plains. It has competed very well in the OSU and KSU wheat variety trials since 2017. It responds well to grazing with adequate seeding density and also has a broad disease resistance with stripe rust and septoria leaf blotch resistance. Showdown has a high tillering ability and excellent winterhardiness.

PlainsGold Canvas A NEW PlainsGold variety best suited to the greater western plains providing strong performance in agronomics and yield. Stripe and stem rust resistance is excellent with good resistance to wheat streak mosaic virus and soilborne mosaic virus. Canvas has very good test weight along with very good milling and baking qualities. It does well under high fertility and moisture making it great for intensive management.

PlainsGold Cresent AX This variety is the newest CoAxium variety in the PlainsGold lineup for the greater western plains with excellent tolerance to Agressor herbicide. It is medium-early maturity, has very good test weight along with wheat curl mite resistance from its Byrd parentage. Only certified seed is available as no saved seed is allowed.

PlainsGold Guardian This PlainsGold variety was released in 2019 with an excellent disease package with resistance to leaf, stem and stripe rust. This strong disease package is combined with very good yield potential, exceptional test weight, and strong ability for high protein levels. Guardian has very good milling and baking qualities along with very good drought tolerance.

Polansky Paradise New Polansky hard red winter wheat variety with a high-yielding potential package. Paradise keeps pace with top-tier wheats in farmer-documented yields. It has had a good yield record through central Kansas into northern Oklahoma, performing among other good yielders in the past couple of years. Paradise is a medium-early variety with good stripe rust resistance and moderate tolerance 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 variety is a NEW medium-maturity that has adapted well for different parts of Kansas especially, north central/central, eastern and southern areas. Rock Star has good straw strength and above average tolerance to the wheat streak mosaic virus. It also has better than average tolerance to aluminum toxicity with low pH soils and very good winterhardiness.

SY 517 CL2 This variety from AgriPro/Syngenta is a two-gene Clearfield line with consistent yields and good winterhardiness. It is resistant to leaf rust along with very good straw strength and test weight as well as high tillering ability. It is best adapted to northern Kansas with yields competitive with non-Clearfield varieties.

SY Benefit This variety from AgriPro/Syngenta is adapted to the central and eastern Plains and comes with similar scab tolerance as Everest. Its’ medium in stature along with straw strength is similar to SY Monument. Benefit is resistant to stem rust and moderately resistant to stripe rust along with tan spot. Benefit has a very good yield record in the East and has a consistent yield record in the central corridor. It is a good fit after dryland corn and has good milling and baking qualities.

SY Grit Agri-Pro/Syngenta’s variety is medium-maturity that is best suited to Kansas, most of Oklahoma and the Texas High Plains. It has shown quick emergence in the fall and upright forage growth. It has done well on both irrigation and dryland conditions along with excellent straw strength and acceptable milling and baking qualities. Grit has a good disease package with resistance to stem rust and soilborne mosaic and intermediate to stripe rust.

SY Monument This AgriPro/Syngenta variety is positioned for central and western Kansas, Oklahoma, Nebraska and the Texas Panhandle with the most planted wheat in 2019 in KS. SY Monument has good stripe, leaf and stem rust resistance, showing very high tillering and good test weight. This is a variety to keep an eye on! 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 good milling and baking qualities.

SY Wolverine This is a NEW early-maturing variety with heavy SY Wolf parentage. It has good standability and an excellent yield in the Central Plains, Western High Plains and under irrigation. Wolverine has optimal characteristics for grain and grazing. It has good disease tolerance with resistance to stem rust and soilborne mosaic along with tolerance to leaf rust and tan spot. Wolverine has shown good test weight and very good winterhardiness.

Tatanka This hard red variety from Kansas Wheat Alliance was released from the KSU Hays Experiment Station from its’ white breeding line. It has very competitive yields in the High Plains and will do well on limited input dryland systems. It has an excellent disease package with resistance to stem and stripe rust and intermediate to leaf rust. Tatanka has good drought tolerance along with good winterhardiness.

TAM 205 This NEW Texas A & M variety is resistant to leaf, stem and stripe rust along with wheat streak mosaic virus, soil-borne wheat mosaic virus, spindle streak mosaic virus and fusarium head blight or scab. With large seeds and high test weight, it also received very good milling and baking scores in this year’s Wheat Quality Council evaluation. The bread-making characteristics of TAM 205 make it an excellent choice for whole-wheat products as well as traditional pan bread. It has performed well across the nation’s southern winter wheat-growing regions and the Texas High Plains, Rolling Plains and the Blacklands.
**WB Grainfield**  This variety from WestBred has medium-late maturity, and is positioned primarily for areas north and west of I-35 with being the second-most seeded variety in KS in the fall 2019. It generally has very good yields at the western locations and has shown relatively consistent performance in test yield data. Grainfield has lost some of its’ overall leaf disease resistance, with the exception of Septoria leaf blotch and Soilborne mosaic. It has very good drought tolerance and test weight, but is moderately susceptible to leaf and stripe rust.

**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 resistant to leaf and stripe rust along with powdery mildew. It is an early-maturing variety with good fusarium head blight (scab) tolerance along with good test weight and winterhardiness.

**WB 4303**  A release by WestBred that has high-end yield potential and is adapted to intensive management and irrigated acres. With its’ yield contest history, large head, and tightly packed spikelets, this is a variety to push for yield, but could lead to low test weight. A fungicide application might be necessary to reach full yield potential. WB 4303 is intermediate for Barley Yellow Dwarf and is good for winterhardiness.

**WB 4401**  This hard red winter wheat variety offers growers a medium-maturing variety with excellent yield potential along with very good test weight and excellent quality. WB4401 also brings a strong disease tolerance and resistance package including good Fusarium Head Blight (Scab) resistance and very good Hessian Fly tolerance.

**WB 4418**  This newer hard red winter variety from WestBred has very good yield potential. 4418 is a medium-maturity with good tillering potential and winterhardiness. It will be a good choice to use in higher seeding rates and responds well to high levels of input and is moderately resistant to both leaf and stripe rust. It is also intermediate to wheat streak mosaic, but has excellent straw strength.  It will hold its’ dormancy well in the spring, but finishes quickly to avoid heat.

**WB 4595**  This variety is a NEW medium-tall, medium-maturity with excellent yield potential and test weight. It is broadly adapted to more the western third of Kansas especially with its’ moderate resistance to stripe rust. 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 excellent standability. 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 good resistance to wheat streak mosaic virus and stripe rust, contributing to its’ strong western plains adaptation.

**Zenda**  A K-State variety that was released for a replacement of the Everest variety. It is a medium-early, medium-height variety that has moderate resistance to leaf, stem and stripe rust. Zenda is expressing good yield potential for the central corridor and eastward. Among the best of varieties regarding tolerance to scab (fusarium head blight) so a good choice after corn.  It was the fourth-most planted wheat variety in Kansas for the crop year 2019. A variety to keep your eye on!
BLENDS:
Blend #1  Grainfield and SY Monument
Blend #2  Paradise and Zenda
Blend #3  SY Monument, SY Grit, WB Grainfield and LCS Chrome (JW only)

P STARTER SEED TREATMENT STUDY:
3 replications (north end of Smith Co. Wheat Plot)
3 replications (west end of Osborne Co. Wheat Plot)

KSU PHOSPHORUS STUDY
9 treatments (replicated on the south side of the Smith Co. Wheat Plot) Below is the diagram of the study.

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