

**Wheat Variety Characteristics**  
**Varieties Planted in the Texas Panhandle Uniform Variety Trials**  
**2014-2015**

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Variety selection is a critical decision that can significantly affect yield potential, disease, insect pressure, and seed quality. The Texas A&M AgriLife uniform variety trials are a coordinated effort between AgriLife Research and AgriLife Extension, providing unbiased yield comparisons over multiple environments and growing conditions. Both state and regional entries (“picks”) are evaluated under irrigated and dryland production. During the 2014-2015 production season, trials are located near:

- Dimmitt (Castro Co.) - Irrigated
- Hereford (Deaf Smith Co.) – Dryland
- Middlewater (Hartley Co.) – Irrigated
- Etter (Moore Co.) – Irrigated and Dryland
- Sunray (Sherman Co.) – Irrigated and Dryland
- Perryton (Ochiltree Co.) – Irrigated and Dryland
- Groom (Carson Co.) – Dryland

**05BC041-10-10**

Experimental

**AP11T1409**

Experimental

**Doublestop CL+**

Oklahoma State 2013 release with two Clearfield genes for tolerance to Beyond herbicide. Performs well in central Kansas and western Oklahoma. Very good yield potential, long coleoptile. A high-tillering variety with good straw strength and unlikely to shatter.

Height: Medium-tall

Pedigree: Experimentals with lineage to Mason, Jagger, 2174, TAM 110, and Intrada

**Duster**

Oklahoma State 2006 release; generally above average yields in most Texas Panhandle dryland and irrigated trials. Soilborne mosaic resistance and intermediate leaf and stripe rust resistance. Resistant to Hessian fly. Short coleoptile, so Duster should not be planted too deep.

Pedigree: Pioneer experimental, Ogallala, Newton, Centurk.

Height: Medium-Tall

**Endurance**

Oklahoma State 2004 release; above average yields in most Texas Panhandle dryland and irrigated trials. Later maturing variety; late to first hollow stem. Intermediate leaf rust resistance, but susceptible to stripe rust. Moderately resistant to soilborne mosaic virus. Long coleoptile allows for deeper planting depth. Good straw strength.

Pedigree: 2180, Siouxland, TAM 105, Experimental.

Height: Medium

**Everest**

Kansas State University 2009 release marketed by the Kansas Wheat Alliance. Susceptible to stripe rust, but moderately resistant to leaf rust. Moderately susceptible to wheat streak mosaic virus. Resistant to soilborne mosaic. Medium coleoptile length. Withstands limited grazing.

Height: Medium

Pedigree: Pioneer experimentals

**Gallagher**

Oklahoma State University 2012 release marketed by Oklahoma Genetics. Adapted to Oklahoma, southern Kansas and central-eastern Texas Panhandle. Moderately susceptible to wheat streak mosaic virus, but resistant to soilborne mosaic. Resistant to both leaf and stripe rust. Hessian fly resistant. Good dual-purpose variety that tolerates heavy grazing.

Pedigree: Duster, Oklahoma experimental that includes 2180

Height: Medium

**Greer**

AgriPro 2010 release. Average yielder in Panhandle trials. Considered a dual-purpose wheat. Resistant to stripe rust, but susceptible to leaf rust. Very good straw strength and drought tolerance. Moderately susceptible to barley yellow dwarf.

Pedigree: Experimentals

Height: Medium

**Iba**

Oklahoma State University 2012 release marketed by Oklahoma Genetics. A dual-purpose variety that performs very well in Kansas and Oklahoma. Good grain yield potential. Later maturing variety. Resistant to leaf and stem rusts. Intermediate resistance to stripe rust. Resistant to soilborne mosaic, but susceptible to wheat streak mosaic virus.

Pedigree: Duster, Oklahoma experimental that includes Karl 92 and Tomahawk

Height: Medium

**KanMark**

Kansas State University new 2014 release. Targeted for western and central Kansas. Very good performance under irrigation; it withstands moderate drought. Only tolerates limited grazing. Resistant to stripe and leaf rust. Moderately susceptible to wheat streak mosaic virus. Resistant to soilborne mosaic. Pedigree: CIMMYT spring wheat, West Bred line, Karl 92

**LCS Mint**

Limagrain Cereal Seeds 2012 release that is well adapted to the northern Texas Panhandle, eastern Colorado, western Kansas and Nebraska. Resistant to stripe rust but susceptible to leaf rust. Intermediate wheat streak mosaic virus resistance. Resistant to soilborne mosaic. Prone to lodge with heavy nitrogen fertility under irrigation.

**LCS Wizard**

Limagrain Cereal Seeds 2012 release that is well adapted to the Texas Panhandle, eastern Colorado, Oklahoma, Kansas and southwest Nebraska. Moderately susceptible to stripe and leaf rust. Susceptible to wheat streak mosaic virus resistance. Resistant to soilborne mosaic. Drought tolerant. Performs well under dryland and irrigated conditions. Good straw strength.

Pedigree: Pioneer germplasm

**OK09125**

Oklahoma State Experimental

**Plains Gold Brawl CL Plus**

Colorado State University 2011 release marketed by Plains Gold (CWRF). A two-gene Clearfield wheat for tolerance to Beyond herbicide. Early maturing variety with excellent straw strength. Good straw strength. Moderately susceptible to stripe and leaf rusts.

**Plains Gold Byrd**

Colorado State University 2013 release marketed by Plains Gold (CWRF). Adapted for both dryland and irrigated conditions. Shows good drought tolerance. Moderately susceptible to stripe and leaf rust. Average straw strength.

**Plains Gold Denali**

Colorado State University 2011 release marketed by Plains Gold (CWRF). Adapted to Colorado, Kansas and Nebraska for both dryland and irrigated conditions. Shows good drought tolerance. Moderately susceptible to stripe and leaf rust. Late maturing, average straw strength. Susceptible to wheat streak mosaic virus.

**Plains Gold Hatcher**

Colorado State University 2004 release marketed by Plains Gold (CWRF). Well adapted to Colorado. Performs very well in dryland and limited irrigated conditions due to excellent drought tolerance. Moderately susceptible to leaf rust and stripe rust. Average straw strength. Susceptible to wheat streak mosaic virus.

**Razor**

AgriPro release. Very early maturing awnless variety well suited for forage production. Good fall growth provides heavy fall grazing. Resistant to stripe and leaf rust. Moderately susceptible to wheat streak mosaic but resistant to soilborne mosaic. Very early maturing variety that is susceptible to spring freeze damage.

**Ruby Lee**

Oklahoma State 2011 release marketed by Oklahoma Genetics that is a dual-purpose variety tolerant of heavy grazing. Breaks dormancy early. Susceptible to stripe rust and intermediate tolerance to leaf rust. Resistant to soilborne mosaic and moderately susceptible to wheat streak mosaic. Medium-long coleoptile. Good drought tolerance. Poor straw strength.

Pedigree: Endurance and USDA experimental

Height: Tall

**SY Drifter**

AgriPro release.

**SY Llano**

AgriPro 2014 release. Very early maturing and high tillering variety tolerant of heavy fall grazing. Resistant to stripe rust. Moderately susceptible to leaf rust. Moderately susceptible to wheat streak mosaic but resistant to soilborne mosaic.

Pedigree: AgriPro experimentals

**SY Monument**

AgriPro 2014 release. Late maturing variety with resistance to stripe and leaf rust.

**T158**

Limagrain Cereals variety 2009 release that is well adapted to the Texas Panhandle, eastern Colorado, Oklahoma, Kansas and Nebraska. Moderately resistant to stripe rust but moderately susceptible to leaf rust. Intermediate susceptibility to wheat streak mosaic virus. Resistant to soilborne mosaic. Drought tolerant. Only tolerates limited grazing. Very good shattering resistance. Very good straw strength.

Pedigree: T81, KS93U206 experimental

**TAM W-101**

Texas A&M 1971 release. Used in trials as a historical check. Not recommended in this region.

**TAM 111**

Texas A&M AgriLife 2003 release. Marketed by AgriPro. Very consistent high-yielding variety under dryland and irrigated conditions and is the No. 1 variety planted in the High Plains. Good stripe rust resistance but susceptible to leaf rust. Good straw strength and unlikely to shatter. Good overall variety for the Panhandle. Medium-long coleoptile. Late first hollow stem.

Pedigree: TAM 107, Centurk, and others.

Maturity: Medium

Height: Medium-Tall

**TAM 112**

Texas A&M AgriLife 2005 release marketed by Watley Seed. Very consistent high-yielding variety under dryland and irrigated conditions. Greenbug and wheat curl mite resistant. Some tolerance to wheat streak mosaic virus. Susceptible to stripe and leaf rust. Unlikely to shatter. Straw strength may be questionable under full irrigation. Good overall variety for the Panhandle. Medium-long coleoptile. Good quality. Good fall grazing potential. Early maturity; early first hollow stem.

Pedigree: TAM 110 sib, TAM 200, WGRC experimental.

Maturity: Medium

Height: Medium-Tall

**TAM 113**

Texas A&M AgriLife 2011 release marketed by Adaptive Genetics. Very good dual-purpose variety that provides good fall forage. Positioned for Texas and Oklahoma Panhandles, western Kansas and eastern Colorado. Moderately susceptible to wheat streak mosaic virus. Susceptible to soilborne mosaic. Moderately resistant to stripe and leaf rust. Emerges well under stressful conditions. Very good shattering reputation. Below average straw strength. Medium-short coleoptile. Good quality. Good fall grazing potential. Early first hollow stem.

Pedigree: TAM 200, TAM 202, TAM 105, and WGRC experimental

Maturity: Medium

Height: Medium

**TAM 114**

New Texas A&M AgriLife 2014 release marketed by Adaptive Genetics. Positioned for the Texas High Plains, western Kansas and eastern Colorado. Good for dual-purpose systems; tolerates heavy grazing pressure. Similar to TAM 111 but higher yield potential and improved leaf disease resistance.

Moderately susceptible to wheat streak mosaic virus. Resistant to stripe and leaf rust. Intermediate resistance to Hessian fly. Good straw strength. Excellent bread-making quality.

Pedigree: TAM 111, TAM 200, Texas and Nebraska experimentals

Maturity: Medium

Height: Medium

**TAM 204**

New Texas A&M AgriLife 2014 release marketed by Watley Seed. Positioned for the Texas High Plains, Oklahoma, and southern Kansas. A beardless wheat positioned for heavy grazing and graze-out conditions. Produces good fall ground cover. Not ideal for grain production due to low test weights.

Resistant to Hessian fly, wheat curl mite and greenbugs. Moderately resistant to wheat streak mosaic. Resistant to soilborne mosaic and tolerant to acid soils. Moderately resistant to stripe rust and moderately susceptible to leaf rust.

Pedigree: TAM 112, Pecos, Jagger, Mason

Maturity: Medium-Late

Height: Medium-Short

**TAM 304**

Texas A&M AgriLife 2007 release marketed by Scott Seed. Consistently high yield potential; well positioned for the Texas High Plains, Kansas and Oklahoma. Moderately susceptible to wheat streak mosaic virus. Resistant to leaf rust and moderately resistant to stripe rust. Intermediate resistance to Hessian fly. Good straw strength makes it suitable for high-input systems.

Pedigree: Pioneer germplasm

Maturity: Medium

Height: Medium

**TAM 305**

Texas A&M AgriLife release marketed by Scott Seed. An awned semi-dwarf variety that is well positioned for the wheat producing regions of Texas. High yield potential across multiple environments. Well positioned for irrigated and dual-purpose wheat production systems; early season vigor and good forage production. Strong straw strength and resistant to shattering. Resistant to leaf rust and stripe rust.

Maturity: Early-Medium Early

Height: Short

**TAM 401**

Texas A&M AgriLife release marketed by AgriPro. An awnless semi-dwarf variety well adapted to the central Great Plains wheat producing regions; particularly the Rolling Plains, Blacklands, and South Central Texas. Excellent forage and grain yield potential. Resistant to leaf and stripe rust. Good early fall forage and improved grain producing abilities than other awnless wheat varieties.

**TX08A001249**

Texas A&M AgriLife Experimental

**TX09A001194**

Texas A&M AgriLife Experimental

**TX09D1172**

Texas A&M AgriLife Experimental

**WB-4458**

Westbred (Monsanto) 2013 release. Adapted to the central Great Plains, but yields are optimized in Kansas and Oklahoma. Drought tolerant, but it does not perform well under extreme dryland conditions. Yields carried by test weight more than seed number. Excellent straw strength. Only tolerates limited grazing. Intermediate stripe and leaf rust resistance. Moderately susceptible to wheat streak mosaic virus.

Parentage: Overly, Westbred experimentals

Height: Medium

**WB-Cedar**

Westbred (Monsanto) 2011 release positioned for the central Great Plains, but yields are greatest in eastern Kansas and northern Oklahoma. High yield potential. Not well suited for fall grazing; it needs to establish tillers in the fall. Moderately resistant to stripe and leaf rust. Moderately susceptible to wheat streak mosaic virus. Resistant to soilborne mosaic. Excellent straw strength. Good drought tolerance, but can be short under tough dryland conditions.

Parentage: TAM 302, experimentals with 2180

Height: Short

**WB-Grainfield**

Westbred (Monsanto) 2012 release positioned for the western central Great Plains (Texas Panhandle and west of I-35). Late maturing variety with very good yield potential and good grazing potential. Good drought tolerance. Moderately resistant to stripe and leaf rust. Moderately susceptible to wheat streak mosaic virus. Resistant to soilborne mosaic. Good straw strength and shattering reputation.

Parentage: Westbred and K-State experimentals

Height: Medium-tall

**WB Redhawk**

Westbred (Monsanto) 2013 release positioned for the Central Great Plains, but it does very well in central-to-eastern Oklahoma, Kansas and Nebraska. Early maturing variety with very good yield potential but limited grazing potential. Good drought tolerance. Susceptible to stripe rust but resistant to leaf rust. Moderately susceptible to wheat streak mosaic virus. Resistant to soilborne mosaic. Good straw strength with average shattering reputation.

Parentage: CIMMYT and K-State experimentals

Height: Medium

**Winterhawk**

Westbred (Monsanto) 2007 release well adapted for the western regions of the Great Plains. Excellent drought tolerance. Well suited for dual-purpose systems with heavy grazing. Produces good fall forage. Intermediate stripe rust resistance but susceptible to leaf rust. Moderately susceptible to wheat streak mosaic virus. Resistant to soilborne mosaic. Good straw strength with good resistance to shattering.

Pedigree: Westbred experimentals

Height: Medium tall