Wheat Variety Characteristics
Varieties Planted in the Texas High Plains Uniform Variety Trials
2015-2016

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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 are evaluated under irrigated and dryland production. During the 2015-2016 production season, trials were located near:

- Bushland (Potter Co.) – Irrigated, Dyland
- Hereford (Deaf Smith Co.) – Irrigated, Grazed
- Hereford (Deaf Smith Co.) – Dryland
- Dimmitt (Carson Co.) – Irrigated
- Etter (Moore Co.) – Irrigated and Dryland
- Lamesa (Dawson Co.) – Irrigated
- Stratford (Sherman Co.) - Irrigated
- Groom (Carson Co.) – Dryland
- Claude (Armstrong Co.) – Dryland
- Silverton (Briscoe Co.) – Dryland
- Wellington (Collingsworth Co.) - Dryland

**Bentley**
Oklahoma State 2015 release dual-purpose variety for dryland acres that performs well under moderate drought stress. Bentley should not be planted early (August to early-September) as germination and seedling stages are sensitive to heat.

**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
Parentage: 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.
Parentage: 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.
Parentage: 2180, Siouxland, TAM 105, Experimental.
Height: Medium

**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.
Parentage: Duster, Oklahoma experimental that includes 2180
Height: Medium

**Greer**
Parentage: 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.
Parentage: Duster, Oklahoma experimental that includes Karl 92 and Tomahawk
Height: Medium

**KanMark**
Parentage: 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.
Parentage: Pioneer germplasm

**Long Branch** (tested as experimental HRX162)
Dyna-Gro 2016 release adapted for both dryland and irrigated acres. A medium maturity wheat that is medium-tall with very good straw strength and excellent winter hardiness. Reported to be adapted to heat and moisture stress very well; finishes well in adverse conditions. Moderately resistant to stripe rust. Susceptible to leaf rust and moderately susceptible to stem rust. Excellent winter hardiness and very good straw strength but prone to lodging under excessive irrigation and fertility.

**Plains Gold Avery**
Colorado State University 2016 release marketed by Plains Gold (CWRF). A medium-tall white chaffed wheat with a medium-long coleoptile that is a cross between TAM 112 and Byrd. Performs very well in 2015 irrigated and dryland and limited irrigated conditions due to excellent drought tolerance. Resistant to the wheat curl mite. Susceptible to leaf rust and stem rust. Moderately susceptible to stripe rust. Good milling and baking qualities.

**Plains Gold Brawl CL Plus**

**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.
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.
Parentage: Endurance and USDA experimental Height: Tall

SY Drifter (tested as AP09T7631)
AgriPro (Syngenta) release. Medium maturity, very good straw strength. Poor tolerance to stripe rust, moderately resistant to stem and leaf rust.

SY Llano (tested as APH09T9614)
AgriPro (Syngenta) 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.
Parentage: AgriPro experimentals

SY Monument (tested as 04BC574-2)
AgriPro (Syngenta) 2014 release. Late maturing variety with resistance to stripe and leaf rust.

SY Southwind

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.
Parentage: 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
Parentage: TAM 107, Centurk, and others.
Maturity: Medium
Height: Medium-Tall
TAM 112

TAM 113

TAM 114 (tested as TX07A001505)

TAM 204 (tested as TX06V7266)
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. Parentage: TAM 112, Pecos, Jagger, Mason Maturity: Medium-Late Height: Medium-Short
TAM 304

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.

Underwood
Dyna-Gro well positioned for high input systems. Good standability under full irrigation. Not recommended for dryland environments. Moderately resistant to leaf and stripe rust.

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**
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

**WeatherMaster 135**

**Winterhawk**
Height: Medium tall
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<td>R</td>
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<td>27</td>
<td>MR</td>
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</table>

¹S: Susceptible, MS: Moderately Susceptible, MR: Moderately Resistant, and R: Resistant. ALL ratings are subject to change as re-evaluation occurs.
²Heights are an average across the Texas Panhandle in 2014.
*Indicates Ratings taken from Developer website. NOT NECESSARILY observed in Texas.