Wheat Variety Characteristics
Varieties Planted in the Texas High Plains Uniform Variety Trials
2019-2020

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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. Each location consists of at least 30 entries composed of both state and regional entries. The composite data is the foundation of our annual “Pick” wheat varieties. Entries are replicated 3 or more times and evaluated under irrigated and dryland production.

2019-2020 Entries:

**Croplan by Winfield**

**CP7869 (Croplan by Winfield)**
Croplan 2018 release with good resistance to leaf, stem, and stripe rust. Very well adapted for both High Plains irrigated and dryland acres. Very good straw strength provides excellent standability. Moderate yield response to increased population due to adequate tillering.
Height: Medium
Heading Maturity: Late
Coleoptile Length: Medium
Winterhardiness: Excellent

**CP7010 (Croplan by Winfield)**

**CP7017AX (Croplan by Winfield)**
A CoAXium wheat variety with strong yield potential and ability to handle stress with strong drought tolerance, tolerates acid soils and resistant to Soilborne Mosaic.
Height: Medium
Heading Maturity: Medium
Coleoptile Length: Medium-Long
Winterhardiness: Excellent
**CP7050AX (Croplan by Winfield)**

A new CoAXium wheat variety with excellent yield potential in an early maturity product. Strong straw, test weight, tolerance to acid soils with resistance to Strip Rust and Soilborne Mosaic.

Height: Medium
Heading Maturity: Early
Coleoptile Length: Medium-Long
Winterhardiness: Excellent

*AX – Axiom herbicide tolerant. Axiom controls many grass and small-seeded broadleaf weeds in CoAXium winter wheat systems.

**Limagrain Cereal Seeds**

**LCS Valiant**

Limagrain Cereal Seeds 2018 release that was developed for Central Great Plains. Excellent winter hardiness and high tillering potential. Intermediate resistance to leaf and stripe rust. Susceptible to wheat streak mosaic.

Height: Medium
Heading Maturity: Medium
Tillering: High
Pedigree: Unavailable

**LCS Mint**

Limagrain Cereal Seeds 2012 release that is well adapted to the Southern Great Plains through the Texas Panhandle. Excellent drought tolerance and medium–long coleoptile. Tolerates limited grazing. Moderately susceptible to barley yellow dwarf. Intermediate resistance to stripe rust but susceptible to leaf rust. Marketed for grain quality including milling and baking properties. Prone to lodge with heavy nitrogen fertilization under irrigation. Maturity varies due to strong photoperiodism. Only in 2019-2020 dryland trials.

Height: Medium-Tall
Heading Maturity: Medium
Tillering: Intermediate
Pedigree: Unavailable

**T158**


Height: Medium
Heading Maturity: Medium-Early
Tillering: Very High
Pedigree: T81, KS93U206 experimental
Baker’s Ann (OSU)
Oklahoma State 2018 release that marketed by Oklahoma Genetics, Inc. with stripe rust resistance but is susceptible to leaf rust, high yield potential, and excellent baking properties.

Iba (OSU)
Height: Medium
Heading Maturity: Medium
Tillering: High
Pedigree: Duster and Oklahoma experimental that includes Karl 92 and Tomahawk

Lonerider (OSU)
Oklahoma State University 2017 release marketed by Oklahoma Genetics. Lonerider is a dual-purpose variety with good grain potential that is well adapted for the western High Plains. Moderately susceptible to barley yellow dwarf. Intermediate resistance to leaf and stripe rusts. Noted for rapid stand establishment in the fall under ideal conditions, but it does not recover from heavy grazing. Susceptible to sprouting if not harvested on time.
Height: Short
Heading Maturity: Early
Tillering: Intermediate
Pedigree: Billings and Oklahoma experimental that includes Duster and OK101

OK Corral (OSU)
Oklahoma State University 2019 release marketed by Oklahoma Genetics. A beardless wheat variety for grain-only, dual-purpose and graze-out or hay production.

Showdown (OSU)
Oklahoma State University 2018 release marketed by Oklahoma Genetics. Showdown a variety resistant to stripe rust but moderately susceptible to leaf rust. is marketed for a broad range of environmental conditions. High tillering potential with average straw strength. Variety needs to be planted at a higher seeding rate to compensate for lower fall ground cover potential. Good drought tolerance.
Height: Tall semidwarf
Heading Maturity: Moderately late
Tillering: High
Pedigree: OK Rising and AgriPro experimentalas

Spirit Rider (OSU)
An Oklahoma State University 2017 release marketed by Oklahoma Genetics. A dual-purpose variety with good straw strength, standability, and yield potential. Good drought tolerance and intermediate release from winter dormancy (spring greenup). Very good straw strength It also has good disease resistance.
Height: Medium-Short to Medium
Plains Gold (Colorado Wheat Research Foundation - CWRF)

Plains Gold Canvas (CSU)
Colorado State University 2018 release marketed by Plains Gold (CWRF). Canvas is a high yielding hard red winter wheat with medium maturity and a strong straw. Responds well in high input systems. Very good stripe and stem rust resistance but is susceptible to leaf rust. It also has very good wheat streak mosaic virus. It is noted for excellent test weight and milling/baking quality.
Height: Medium
Maturity: Medium
Pedigree: OK Bullet and experimentals

Plains Gold Guardian (CSU)
Colorado State University 2019 release marketed by Plains Gold (CWRF). Resistant to Wheat Streak Mosaic Virus (wsm-2) and wheat curl mite which transmits WSMV, wheat mosaic virus, and triticum mosaic virus. Guardian also carries resistance to all three predominant rusts (Stripe, Leaf, and Stem). High yield potential and test weight. Fair straw strength. Certified Seed Only, no saved seed allowed.
Height: Medium
Maturity: Medium

Plains Gold Langin (CSU)
Colorado State University 2018 release marketed by Plains Gold (CWRF). Langin is an early semi-dwarf variety for grain only production. It is noted for having excellent winterhardiness and drought tolerance. Resistant to the wheat curl mite. Noted as having moderate susceptibility to wheat streak mosaic virus. Susceptible to leaf rust, but moderately resistant to stripe rust.
Height: Short
Heading Maturity: Early
Pedigree: Byrd and Colorado Experimental that includes Byrd

AgriPro (Syngenta)

AP EverRock
Height: Medium
Heading Maturity: Medium Early

SY Grit (AgriPro)
AgriPro (Syngenta) 2017 release. A medium early dual-maturity variety that is adapted to the Southern Great Plains. Noted for drought tolerance and straw strength with a good disease package. Moderately susceptible to leaf rust and intermediate tolerance to stripe rust.
Height: Medium
Heading Maturity: Medium-Early
Tillering: High

**SY Monument (AgriPro)**
AgriPro (Syngenta) 2014 release. Resistant to stripe and leaf rust. Very good drought tolerance. Tolerant of limited grazing. Average straw strength. Excellent milling and baking properties.
Height: Medium-Tall
Heading Maturity: Medium-Early
Tillering: Very High
Pedigree: AgriPro Experimentals

**SY Rugged (AgriPro)**
AgriPro (Syngenta) new 2017 release. Certified seed available beginning in 2018. Rugged is adapted to the western High Plains and suitable for dryland. Dual purpose variety with good grain yield potential. Tolerates heavy grazing. Resistant to stripe rust and moderately resistant to leaf rust. Very good drought tolerance and winterhardiness.
Height: Short
Heading Maturity: Medium-Early
Tillering: Good
Pedigree: Greer and Doans

**SY Wolverine (AgriPro)**
AgriPro new 2019 release, certified seed will be available in the fall of 2020. Fits both irrigated and dryland in the western high plains. SY Wolverine is half SY Wolf but is a medium early maturity. Like Wolf, it has good disease tolerance including improved tolerance to Wheat Streak Mosaic Virus. Excellent straw strength under irrigation, high tillering and good drought tolerance. Over three years of testing, Wolverine has consistently been a top yielding variety in irrigated and dryland regional variety trials. Silage yield testing is ongoing.
Height: Medium
Heading Maturity: Medium-Early
Tillering: Very Good
Pedigree: Everest/Platte//SY Wolf

**Texas A&M AgriLife**

**TAM W-101**
Texas A&M 1971 release. Used in trials as a historical check. This variety has long been surpassed by newer genetics, and it should not be planted for commercial grain production

**TAM 111**
Height: Medium-Tall
Heading Maturity: Medium-Late
Tillering: Intermediate
Pedigree: TAM 107, Centurk, and others
**TAM 112**
Height: Medium-Tall
Heading Maturity: Early
Tillering: Very High
Pedigree: TAM 110 sib, TAM 200, WGRC experimental

**TAM 113**
Height: Medium
Heading Maturity: Medium
Tillering: High
Pedigree: TAM 200, TAM 202, TAM 105, and WGRC experimental

**TAM 114**
Height: Medium
Heading Maturity: Medium
Tillering: Very High
Pedigree: TAM 111, TAM 200, Texas and Nebraska experimentals

**TAM 115**
New Texas A&M AgriLife 2019 release previously tested under TX12A001295. A dual-purpose variety positioned for the Texas High Plains. Resistant to leaf rust, stripe rust, stem rust, greenbug, and wheat curl mite. A few days later to first hollow stem. Excellent drought tolerance, very good milling and baking quality.
Height: Medium
Heading Maturity: Medium
Tillering: Intermediate-High
Pedigree: TAM 112 and TX02U2508
TAM 204
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 virus. Tolerant to acid soils. Moderately resistant to stripe rust, resistant to stem rust and moderately susceptible to leaf rust.
Height: Medium short
Heading Maturity: Medium late
Tillering: Intermediate-High
Pedigree: TAM 112, Pecos, Mason, Jagger

TAM 205
New Texas A&M AgriLife 2019 release previously tested under TX12V7415. A dual-purpose variety positioned for the Texas High Plains and Rolling Plains with good fall forage production. Resistant to leaf rust, stripe rust, and stem rust. It is also resistant to the wheat curl mite and wheat streak mosaic virus. It has large seeds and high test weights. Very good milling and baking quality.
Height: Medium
Heading Maturity: Medium
Tillering: High
Pedigree: X05A650 and RonL

Westbred (Bayer)

WB4303
Westbred (Bayer) 2017 release that is well adapted to the eastern Southern Great Plains, but it also performs well under irrigated conditions in the Texas High Plains and southwestern Kansas. Very good yield potential and straw strength. Very good fall growth and winter hardiness, but it only tolerates limited grazing. Excellent test weights. Intermediate stripe and leaf rust tolerance. Resistant to stem rust. Good grain quality.
Height: Medium
Heading Maturity: Medium-Early
Tillering: Intermediate
Pedigree: CIMMYT (HV9W10-100)

WB4595
Westbred (Bayer) 2019 release that is well adapted to a broad region across the Southern Great Plains. Very good tillering, yield potential, and straw strength. Moderately resistant to stripe rust and intermediate resistance to leaf rust.
Height: Medium-Tall
Heading Maturity: Medium
Tillering: Medium-High
Pedigree: Undisclosed
WB4792
Westbred (Bayer) 2018 release that is well adapted to a broad region across the Southern Great Plains. Very good yield potential and straw strength. Good winter hardiness. Moderately tolerant to stripe and leaf rusts.
Height: Medium
Heading Maturity: Medium-Late
Tillering: Intermediate

Winterhawk
Height: Medium Tall
Heading Maturity: Medium
Pedigree: Westbred experimentals

For further information about wheat production and management in Texas, including our annual High Plains wheat Picks, consult the following websites:

- [http://varietytesting.tamu.edu/wheat/](http://varietytesting.tamu.edu/wheat/)
- [http://amarillo.tamu.edu/amarillo-center-programs/agronomy/wheat-publications/](http://amarillo.tamu.edu/amarillo-center-programs/agronomy/wheat-publications/)
- [http://lubbock.tamu.edu/programs/crops/wheat/](http://lubbock.tamu.edu/programs/crops/wheat/)
- [http://sickcrops.tamu.edu](http://sickcrops.tamu.edu)
- [http://www.texasinsects.org/small-grains.html](http://www.texasinsects.org/small-grains.html)
- [https://wheatfreezeinjury.tamu.edu/](https://wheatfreezeinjury.tamu.edu/)
- [https://texaswheatupdates.tamu.edu/](https://texaswheatupdates.tamu.edu/)