

Wheat Variety Descriptions and Comments for Varieties Planted in the Panhandle and Upper South Plains Variety Trials

2010-2011

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Trial Locations Near:

- Bushland
- Etter
- Canadian
- Perryton
- Hereford
- Groom
- Silverton
- Dimmitt
- Clovis
- Floydada

Wheat Variety Descriptions

AP08T5913

AgriPro Experimental

AP08T6224

AgriPro Experimental

AP08TA6927

AgriPro Experimental

APH09T1122

AgriPro Experimental

AP503 CL2

AgriPro release in 2008. Second year in trial. **Clearfield wheat** – meaning it is tolerant to the Beyond family of herbicides. Beyond is an effective grass herbicide. Average yields in 2009 and 2010. Soil-borne mosaic tolerant. Susceptible to leaf and stripe rust. Pedigree: Jagalene genetics.

Maturity: Medium

Height: Medium

ARMOUR

Westbred release in 2008. Third year in Panhandle trials. Average yield in 2009 but above average yield in 2010 trials. Best used under irrigation because of short height. Soil-borne mosaic tolerant. Intermediate leaf and stripe rust resistance. Pedigree: 2180 and experimental.

Maturity: Early

Height: Short

BILL BROWN

Colorado State release in 2007. Third year in our trials. One of the top varieties in both dryland and irrigated trials in 2009 and 2010. Short coleoptile. Excellent straw strength. Leaf and stripe rust tolerant but susceptible to stem rust. Pedigree: Yumar and Arlin.

Maturity: Medium

Height: Medium

BILLINGS (OK03522)

Oklahoma release in 2009. Third year in our trials. Above average yield in our irrigated trials in 2009 and 2010. Also above average dryland yield in 2010. Large seed size. Not recommended for grazing due to poor tiller survival. Good stripe and leaf rust resistance. Intermediate Wheat streak mosaic virus tolerance. Pedigree: Pioneer experimental, Ukrainian line.

Maturity: Early

Height: Medium tall

BULLET

Oklahoma State release in 2005. Inconsistent yield in the Panhandle. Susceptible to leaf and stripe rust. Soil-borne mosaic resistant. Medium-long coleoptile. Sensitive to high temperatures at planting (seed less than one year old). Excellent milling and baking qualities with a high test weight. Pedigree is Jagger and a KS experimental line.

Maturity: Medium-early

Height: Medium tall

CEDAR (HV9W96-1383R)

Westbred variety. First year in trial.

DOANS

AgriPro release in 2007. Average to below average yield in dryland and irrigated trials in the Panhandle. Good leaf and stripe rust resistance, but susceptible to powdery mildew. Also resistant to soil-borne mosaic virus. Can be planted deeper due to long coleoptile. Good quality and test weight. Pedigree: Coronado, Jagger, 2137, Karl 92, and experimentals.

Maturity: Medium

Height: Medium-tall

DUMAS

2000 AgriPro release. Primarily and irrigated wheat. Yields have been inconsistent in recent years. Good fall forage potential. Excellent straw strength. Susceptible to leaf and stripe rust. High test weight. Coleoptile length is medium. Pedigree: AgriPro experimentals.

Maturity: Medium-early

Height: Medium

DUSTER

Oklahoma State release in 2006. Generally above average yield in almost all of Panhandle dryland and irrigated trials. Soil-borne mosaic resistant. Intermediate leaf and stripe rust resistance. Resistant to Hessian fly. Short coleoptile and should not be planted too deep.

Pedigree: Pioneer experimentals, Ogallala, Newton, Centurk.

Maturity: Medium

Height: Medium-tall

ENDURANCE

Oklahoma State release in 2004. Above average dryland and irrigated yield in Panhandle trials. Good dual-purpose wheat. Late to first hollow stem. Intermediate leaf rust resistance, but susceptible to stripe rust. Soil-borne mosaic virus resistant. Can be planted deep due to long coleoptile. Good straw strength.

Pedigree: 2180, Siouland, TAM 105, Experimental.

Maturity: Medium-late

Height: Medium

FANNIN

AgriPro release in 2005. High test weight. Excellent grazing potential in the fall. Good yield potential in South Texas, the Blacklands and Rolling Plains but yield has been below average in the Panhandle. Excellent leaf and stripe rust resistance. Also resistant to powdery mildew.

Maturity: Medium-early

Height: Medium-tall

FULLER

Kansas State release in 2006. Generally average to slightly above average yield in dryland and irrigated trials. Medium-short coleoptile. Intermediate leaf rust but susceptible to stripe rust. Soil-borne mosaic virus tolerant. Pedigree: Jagger and experimentals.

Maturity: Early

Height: Medium-tall

Garrison (OK05212)

Oklahoma State release in 2011. Second year in trial. Above average yield in dryland and irrigated trials in 2010. Stripe rust resistant but susceptible to leaf rust.

GREER

AgriPro new release. Yield has been average in Panhandle trials. Considered a dual-purpose wheat. Intermediate leaf and stripe rust resistance. Pedigree: Experimentals.

Maturity: Early

Height: Medium

HATCHER

Colorado State release in 2005. One of the most consistent high yielding wheat in our dryland trials the last five years. Above average yields in irrigated trials. Susceptible to leaf rust and intermediate resistance to stripe rust. Very good drought tolerance, but not necessarily good heat tolerance. Straw strength is questionable. Pedigree: Yumar, Vista, KS experimental.

Maturity: Medium short

Height: Medium

JACKPOT

AgriPro release in 2008. Yield has generally been below average in Panhandle trials. Very susceptible to leaf rust and stripe rust. Soil-borne mosaic virus resistant. May break dormancy early in the spring. Considered a good variety to plant late following a summer crop. Good grazing potential. High test weight. Pedigree: Victory and experimentals.

Maturity: Early

Height: medium-tall

JAGALENE

2002 AgriPro release. Good yield potential under full and limited irrigation. Now susceptible to leaf and stripe rust. Good grazing potential and good straw strength. Can have some shattering if harvest is delayed. Very good test weight. Does not joint as early as Jagger. Coleoptile length is medium. Pedigree: Jagger and Abilene.

Maturity: Medium-early

Height: Medium

JAGGER

Kansas State release in 1994. Excellent yield potential under irrigated and dryland conditions. Main weakness is susceptible to spring freeze injury. Can shatter. Good milling and baking qualities. Has modest tolerance to Barley yellow dwarf virus and Wheat streak mosaic virus. Soil-borne mosaic virus resistant. Susceptible to leaf and stripe rust.

Maturity: Early

Height: Medium

MACE

Nebraska release in 2007. Second year in our trials. Average yield in 2010 trial. Wheat streak mosaic virus resistant. Susceptible to leaf rust but moderately resistant to stripe rust.

Pedigree: Yuma, Arlin, Lancota, Siouxland, KSU experimental.

Maturity: Medium late

Height: Medium

OK07209

Oklahoma State Experimental

OK07214

Oklahoma State Experimental

PETE

Oklahoma State release in 2009. Second year in our trials. **Beardless.** Disappointing yield in 2010 trials, but similar to other beardless varieties. Dual-purpose wheat. Soil-borne mosaic virus tolerant. Intermediate leaf and stripe rust resistance. Pedigree: Experimentals and Ukrainian line

Maturity: Medium early

Height: Medium

SANTA FE

Released in 2003 by Westbred. Slightly later than Jagger in maturity but earlier than Jagalene. Average yield in dryland and irrigated trials. Recommendation is to use on full or limited irrigation. Medium-long coleoptile. Soil-borne mosaic virus tolerant. Susceptible to leaf rust and intermediate stripe rust resistance. Pedigree: Jagger, G1878.

Maturity: Medium early

Height: Medium short

SHOCKER

Westbred release in 2006. Yields have been average to below average. Touted as having good fall forage production. Long coleoptile. Resistant to soil-borne mosaic. Intermediate leaf rust resistance but susceptible to stripe rust. Pedigree: Jagger, Tomahawk, Freedom (soft).

Maturity: Early

Height: Medium

TAM W 101

Texas AgriLife release in 1971. Used in our trials primarily as a historical check. Not recommended in the region.

TAM 111

Texas AgriLife release in 2003. Marketed by AgriPro. Very consistent high yielding variety under dryland and irrigated conditions. Good stripe rust resistance but susceptible to leaf rust. Good straw strength and unlikely to shatter. Good overall variety for the Panhandle under most conditions. Medium-long coleoptile. Good quality. Pedigree: TAM 107, Centurk, and others.

Maturity: Medium

Height: Medium-tall

TAM 112

Texas AgriLife release in 2005. Marketed by Watley Seed. Very consistent high yielding variety under dryland or limited irrigated conditions. Greenbug resistant. Some tolerance to Wheat streak mosaic virus. Susceptible to leaf and stripe rust. Excellent dryland or limited irrigated wheat yield potential. Straw strength could be questionable under full irrigation. Unlikely to shatter. Pedigree: TAM 110 sibling, TAM 200, Experimentals.

Maturity: Early

Height: Medium

TAM 203

Texas AgriLife release in 2007. Marketed by AgriPro. Early to hollow stem with low vernalization requirement (can be planted very late). Soil-borne mosaic virus resistance. Resistant to leaf rust and has intermediate resistance to stripe rust. Slightly above average yield in the Panhandle irrigated trials. Although test weight has generally been below average, protein content has been above average under a wide range of conditions. Pedigree: Nothing familiar.

Maturity: Medium-early

Height: Medium

TAM 304

Texas AgriLife release in 2007. Marketed by Scott Seed. Good leaf rust resistance and intermediate resistance to stripe rust. Best fit will be in Blacklands of Texas, however, above average yield in Panhandle irrigated trials. Average to slightly above average dryland yield. Good straw strength. Lower than average test weight, but good baking quality. Pedigree: Nothing familiar.

Maturity: Medium-early

Height: Short

TAM 401

Texas AgriLife release in 2008. Best described as a **beardless** version of Jagger with good leaf and intermediate stripe rust resistance. Fall forage yield has been very good. All beardless varieties had disappointing grain yield in 2010. Pedigree: Jagger, Mason

Maturity: Early

Height: Medium

TAM 113 (TX02A0252)

Texas AgriLife release 2010. Third year in trials. Yields have generally been similar to TAM 111, although only average in 2010 irrigated trial. Excellent bread-making quality. Very good leaf and stripe rust resistance. Pedigree: TAM 105, TAM 200, TAM 202 and Texas experimentals.

Maturity: Medium

Height: Medium-tall

TX06A001263

AgriLife Experimental. Second year in trial. Above average yields in 2010 irrigated and dryland trials.

TX06A001281

AgriLife Experimental. First year in trial.

T136

Trio Seed Research release in 2005. Third year in our trials. Average to below average yield in irrigated and dryland trials in 2009 and 2010. Soil-borne mosaic virus resistant. It is susceptible to both leaf and stripe rust. May have some Wheat streak mosaic virus tolerance. Good drought tolerance. Coleoptile length is medium short. Pedigree: Jagger and T811 (selection from T81).

Maturity: Early

Height: Medium short

T197

Trio Research release. Second year in our trials. Average yield in 2010. Susceptible to both leaf and stripe rust.

Maturity: Medium

Height: Medium tall

WINTERHAWK

Westbred release in 2007. Second year in our trials. Very good yield in 2010 dryland trials and above average yield in irrigated trials. Large seed size. Resistant to leaf rust but susceptible to stripe and stem rust. Pedigree: Experimentals.

Maturity: Medium

Height: Medium tall

Texas 2011 Hard Wheat Characteristics ²

Variety	Source	First Year Sold	Maturity Group	Height (inches)	Leaf Rust ¹	Stripe Rust	Stem Rust	Septoria Leaf Blotch	Scab	Soil-born Mosaic	Tan Spot	Powdery Mildew	Wheat Streak Mosaic	Barley Yellow Dwarf	Green-bug	Russian Wheat Aphid	Hessian Fly
2145	KSU	2001	Early	-	S	-	-	-	-	-	-	-	-	-	-	-	-
AP 503CL	AgriPro	2008	Medium	-	S	MR	R	MR	S	R	MS	S	-	-	S	S	S
Greer	AgriPro	2010	Med Early	22	MR	MR		-	-	-	-	S	-	-	-	-	-
Armour	WestBred	2008	Medium	20	MR	MR		MR	MR	R	MR	R	S	MS	S	S	MS
Art	AgriPro	2007	Med Early	22	R	MR		MR	MS	R	MS	S	S	S	S	S	R
Bill Brown	CSU	2007	Medium	23	MR	MR	S	-	-	S	S	MS	S	S	S	MR	S
Billings	OSU	2009	Early	22	R	R	-	MR	-	R	MR	MR	S	MR	S	S	MS
Bullet	OSU	2005	Med Early	-	S	MS	MS	MS	MS	MS	MR	MS	MS	MS	S	S	MS
Coronado	AgriPro	1994	Early	22	MS	MS	MR	-	-	-	-	MS	-	-	S	S	MR
Deliver	OSU	2004	Medium	22	R	MR	MS	MR	S	R	MR	MR	S	S	S	S	MS
Doans	AgriPro	2007	Med Early	23	R	R	-	MR	-	MR	MS	MS	-	-	S	S	S
Dumas	AgriPro	2001	Med Early	24	MS	MS	MR	MS	MS	S	S	S	S	MS	S	S	S
Duster	OSU	2006	Med Early	23	R	MR	MS	MS	S	R	MS	MR	S	MR	S	S	R
Endurance	OSU	2005	Med Early	22	MR	MS	MS	MS	MS	R	S	MR	S	MR	S	S	MS
Fannin	AgriPro	2005	Med Early	21	R	R	R	-	-	R	-	R	-	-	S	S	S
Fuller	KSU	2006	Med Early	23	MS	MS	MS	MS	MS	R	MS	S	MS	MS	S	S	S
Hatcher	CSU	2005	Medium	21	S	MR	MR	MR	MS	MS	MR	MR	S	S	S	MR	MS
Jackpot	AgriPro	2008	Med Early	23	S	MR	MR	-	MS	R	MR	MR	-	MS	S	S	MS
Jagalene	AgriPro	2001	Med Early	23	S	S	R	MR	S	R	MS	S	MS	MS	S	S	S
Jagger	KSU	1994	Early	-	S	MS	MR	MR	MS	R	MR	S	MS	MS	S	S	S
NK 812	Northrup King	-	Early	-	S	S	-	-	-	-	-	MS	-	-	-	-	-
Overley	KSU	2003	Early	23	S	MS	-	-	-	-	-	MS	-	-	-	-	-
Pete	OSU	2010	Med Early	22	MS	MR	-	MS		R	MR	MS	S	MS	S	S	S
Santa Fe	WestBred	2003	Med Early	22	R	MR	MR	R	MS	R	MR	MS	S	MS	S	S	S
Shocker	WestBred	2006	Med Early	21	R	MS	MR	MR	S	R	MS	MS	S	MS	S	S	MS
Sturdy 2K	TAMU	2003	Medium	-	R	MS	MR	-	-	-	-	MR	-	-	S	S	S
T136	Trio Seed Research	2005	Med Early	22	MS	S	-	-	R	-	-	MS	-	-	-	-	-
T81	Trio Seed Research	1997	Medium	23	S	MR	MR	MS	MR	S	MS	MS	MS	MS	S	S	S
TAM 111	TAMU	2003	Medium	24	S	R	R	MR	MS	S	MR	S	MS	MS	S	S	MS
TAM 112	TAMU	2005	Med Early	23	S	S	R	MR	S	S	MR	R	MR	MS	MR	S	S
TAM 203	TAMU	2007	Med Early	22	MR	MR	R	MS	-	R	S	S	S	MS	S	S	S
TAM 304	TAMU	2007	Med Early	20	R	MS	MR	-	S	MR	MS	MR	S	MS	S	S	S
TAM 401	TAMU	2008	Med Early	21	R	MR	R	-	-	MR	-	MR	MS	-	S	S	S
TAM W-101	TAMU	1971	Medium	23	MS	MS	-	-	-	-	-	S	-	-	-	-	-
TAM 113	TAMU	-	Medium	23	R	R	R	-	-	-	-	S	-	-	-	-	-

¹S - Susceptible, MS - Moderately Susceptible, MR - Moderately Resistant, and R - Resistant - **All ratings are subject to change as re-evaluation occurs.**

²All data to the right of Leaf Rust for hard wheat comes from the Texas High Plains by Jackie Rudd and Brent Bean