

AG NEWS

Importance of Variety Selection

Variety selection is one of the most critical on-farm decisions. Varieties influence yield potential, pesticide applications, and seed quality. Texas A&M AgriLife statewide uniform variety trials provide unbiased yield comparisons of varieties over multiple environments.



Uniform Wheat Variety Trial: 4-Year Regional Summary

Blacklands (16 Site-Years)			High Plains (9 Site-Years)			Rolling Plains (12 Site-Years)			South Texas (9 Site-Years)		
Rank	Variety	Average Yield	Rank	Variety	Average Yield	Rank	Variety	Average Yield	Rank	Variety	Average Yield
		– bu/a –			– bu/a –			– bu/a –			– bu/a –
1	Billings	62.4	1	Winterhawk	74.5	1	Jackpot	36.6	1	TAM 304	65.4
2	Greer	62.1	2	Hatcher	72.6	2	Duster	36.0	2	TAM 305	64.4
3	Armour	62.0	3	TAM 113	72.0	3	TAM 304	35.9	3	Billings	62.8
4	TAM 304	59.7	4	TAM 111	71.0	4	Greer	35.0	4	Duster	60.6
5	TAM 401	58.5	5	TAM 304	69.8	5	TAM 305	34.7	5	Armour	60.4
6	Doans	57.5	6	TAM 112	69.5	6	TAM 113	33.2	6	TAM 401	58.3
7	Fannin	57.2	7	Duster	68.9	7	TAM 112	33.0	7	Greer	57.5
8	TAM 305	56.9	8	Greer	68.1	8	Armour	32.7	8	Coronado	53.9
9	Jackpot	56.5	9	TAM 305	67.1	9	Billings	32.6	9	Doans	51.8
10	Duster	55.8	10	Armour	66.4	10	TAM 401	32.0	10	Jackpot	51.4
11	Garrison	55.4	11	Billings	65.8	11	TAM 111	31.1	11	Fannin	47.9
12	TAM 111	54.6	12	TAM W-101	64.2	12	Doans	30.3	12	TAM 111	46.8
13	Coronado	52.7	13	Jackpot	64.1	13	TAM W-101	29.5	13	Garrison	43.6
14	TAM 112	48.8	14	Endurance	63.3	14	Fannin	29.2	14	TAM W-101	42.2
15	TAM W-101	44.7	15	Doans	61.5				15	TAM 112	38.9
			16	TAM 401	57.5						
LSD (5%)		2.2	LSD (5%)		3.1	LSD (5%)		1.7	LSD (5%)		4.8
CV (%)		9.4	CV (%)		8.7	CV (%)		11.4	CV (%)		16.5
Mean		56.3	Mean		67.3	Mean		33.0	Mean		53.7

Data summarized from 2010, 2011, 2012, 2014 for all locations.

Varieties only included with 4 years of trial data.

Locations included:

High Plains: Bushland Irrigated, Perryton Irrigated, and Dawson Irrigated

Rolling Plains: Hardeman, Chillicothe, and Abilene

Blacklands: Ellis County, Hill County, Lamar County, McGregor, and Farmersville

South Texas: College Station, Castroville, and Uvalde

12 Site Years Average Yield (2010, 2011, 2102, 2014)			2015 Average Yield (Abilene, Brady and Electra)		
Rank	Variety	Yield bu/a	Rank	Variety	Yield bu/a
1	Jackpot	36.6	1	05BC041-10-10	49.0
2	Duster	36.0	2	OK09125 (Bentley)	45.0
3	TAM 304	35.9	3	SY Monument	44.3
4	Greer	35.0	4	WB-4458	43.1
5	TAM 305	34.7	5	Greer	42.0
6	TAM 113	33.2	6	AP11T1409	42.0
7	TAM 112	33.0	7	SY Razor	41.9
8	Armour	32.7	8	TAM 114	40.9
9	Billings	32.6	9	WB-Cedar	40.8
10	TAM 401	32.0	10	SY Llano	40.0
11	TAM 111	31.1	11	WB-Grainfield	39.9
12	Doans	30.3	12	TAM 401	39.8
13	TAM W-101	29.5	13	TAM 304	39.5
14	Fannin	29.2	14	Winterhawk	39.4

Duster:

- OSU (2006) Release
- 29.9 bu/ac – 3 site Rolling Plains 2015 average
- 28.2 bu/a – 2014 average
- Ranked 26 out of 40 in 2014 and 32 out of 40 in 2015
- In both “Pick’s List” and Top 5 in 2014 Survey (#1 most widely grown variety in Rolling Plains)
- Short Coleoptile
- Leaf Rust Resistant
- Moderate Stripe Rust Resistant
- Hessian Fly Resistant

Greer:

- Syngenta (2010) Release
- 42.0 bu/a – 3 site Rolling Plains 2015 average
- Ranked 5 out of 40 in 2015
- In both “Pick’s List” and Top 5 in 2014 Survey (3rd most widely grown variety in Rolling Plains)
- Susceptible to Leaf Rust
- Moderately Susceptible to Stripe Rust

Jackpot:

- Syngenta (2008) Release
- 28.4 bu/a Rolling Plains 2015 average
- 33.9 bu/a Rolling Plains 2014 average
- Top variety across all Rolling Plains locations in 2014.
- Ranked 36 out of 40 in 2015
- One of “Pick’s List” for Rolling Plains.
- Susceptible for Leaf Rust.
- Moderately Resistant for Stripe Rust.

Ruby Lee:

- OSU (2011) Release
- 30.6 bu/ac – 3 site Rolling Plains 2015 average
- 28.3 bu/a Rolling Plains 2014 average
- Ranked 31 out of 40 in 2015.
- One of “Pick’s List” for Rolling Plains
- Susceptible for Leaf Rust
- Moderately Susceptible for Stripe Rust

TAM 112

- Texas A&M AgriLife (2005) Release
- 29.4 bu/a in Rolling Plains 2015 average
- 32.3 bu/a in Rolling Plains 2014 average
- Ranked 6 out of 40 in 2014 and 33 out of 40 in 2015
- One of 2014 “Pick’s List” for Rolling Plains
- Susceptible to both Leaf AND Stripe Rusts
- Resistant to other wheat diseases (powdery mildew, stem rust, tan spot, etc)

TAM 304

- Texas A&M AgriLife (2007) Release
- 39.4 bu/a in Rolling Plains 2015 average
- 28.2 bu/a in Rolling Plains 2014 average
- Ranked 27 out of 40 in 2014 and 13 out of 40 in 2015
- One of “Pick’s List” for Rolling Plains
- Resistant to Leaf Rust
- Moderately Resistant to Stripe Rust
- Good straw strength
- Short stature

Coronado

- Syngenta (1994) Release
- 28.0 bu/a in Rolling Plains 2015 average
- 25.6 bu/a in Rolling Plains 2014 average
- Ranked 37 out of 40 in 2014 and 38 out of 40 in 2015
- NOT part of 2014 “Pick’s List”, but #2 most popular variety grown in Rolling Plains.
- Susceptible to Leaf Rust
- Resistant to Stripe Rust

Weathermaster 135

- Unknown Release; One of the oldest varieties grown in the state.
- 23.3 bu/a in Rolling Plains 2015 average
- 25.8 bu/a in Rolling Plains 2014 average
- Ranked 36 of 40 in 2014 and 39 of 40 in 2015
- NOT part of 2014 “Pick’s List”; but is 4th most widely grown variety in Rolling Plains

Endurance

- OSU (2004) Release
- No longer grown as part of Uniform Variety Trial.
- 5th highest grown variety in the Rolling Plains according to 2014 Survey.
- Moderately Susceptible to both Leaf AND Stripe Rusts.
- Grown predominately for grazing.

SY Monument

- New Syngenta 2014 Release
- Targeted for grain only production with limited grazing
- Very high tillering capacity
- Good stripe rust resistance and moderate leaf rust resistance
- Moderately susceptible to WSMV
- Average straw strength
- Good test weight

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WB 4458

- Westbred 2013 Release
- Targeted for grain only production with limited grazing
- Well positioned for dryland production
- Intermediate stripe and leaf rust resistance
- Moderately susceptible to WSMV
- Good straw strength
- Poor baking quality

SY Razor

- Syngenta 2014 Release
- Awnless variety targeted for full grazeout
- Yielded 7 out of 40 in 2015
- Excellent stripe and leaf rust resistance
- Tall and good straw strength

TAM 114

- TAMU 2014 Release
- Dual purpose variety positioned for grain only to heavy grazing
- Good fall forage production
- Good stripe and leaf rust resistance
- Good straw strength
- Excellent milling and baking quality

WB Cedar

- 2011 Westbred release
- Very responsive to high inputs (irrigation and fertility)
- Targeted for grain only production and limited grazing
- Moderately resistant to leaf and stripe rust
- Moderately susceptible to WSMV
- Early heading
- Excellent straw strength

SY Llano

- New 2014 Syngenta Release
- Targeted for Heavy Grazing
- Heavy Tillering Capacity and Good Fall Forage
- Early Maturing Variety with Early Spring Greenup
- Very Good Drought Tolerance
- ShortPotential to Shatter

WB Grainfield

- 2012 Westbred Release
- Medium-late maturity
- Positioned for High Plains and Kansas but performed well in Rolling Plains trials
- Moderately resistant to leaf and stripe rust
- Very good drought tolerance
- Slow to emerge
- Very good winter hardiness

TAM 401

- TAMU release marketed by AgriPro
- An awnless semi-dwarf variety
- Excellent forage and grain yield potential
- Good early fall forage and improved grain producing abilities than other awnless wheat varieties
- Good leaf and stripe rust resistance

Top 2015 performers

SY Monument

WB-4458

SY- Razor

TAM 114

WB Cedar

SY Llano

WB Grainfield

TAM 401

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Fungicides labeled for wheat for the control of rusts in Texas: 2015

Product	Company	Rate per Acre (fl. oz.)	Some Diseases Controlled	Pre-harvest interval (PHI) in days	Application Timing (as indicated by label)
*Bumper 41.8 EC, PropiMax EC, Tilt (~41.8% propiconazole)	Makhteshim Agan, Dow AgroSciences, Syngenta	4.0	Rusts (<i>Puccinia</i> spp.)	40	Applied until full head emergence (Feekes 10.5)
Caramba 0.75 SL (8.6% metconazole)	BASF	10.0 – 17.0	Leaf rust, Stripe rust, Stem rust (<i>Puccinia</i> spp.)	30	Apply after flag leaf emergence for optimum results
**Monsoon, Onset 3.6 L, Tebustar 3.6 L (~38.7% tebuconazole)	Loveland Products Inc., AgriSolutions, Agri Star by Albaugh, Inc.	4.0	Rusts (<i>Puccinia</i> spp.)	30	Apply at earliest sign of rust pustules on foliage
Proline 480 SC (Prothioconazole)	Bayer CropScience LP	4.3- 5.0	Rusts (<i>Puccinia</i> spp.)	30	Preventative foliar spray at early flower (Feekes 10.51).
Approach SC (22.5% Picoxystrobin)	Du Pont	6.0- 12.0	Rusts (<i>Puccinia</i> spp.)	45	Apply no later than beginning of flowering (Feekes 10.5)
Headline SC (23.6% pyraclostrobin)	BASF	6.0-9.0	Leaf rust, Stripe rust, Stem rust (<i>Puccinia</i> spp.)	14 (hay)	Apply no later than beginning of flowering (Feekes 10.5)
Evito 480 SC (40.3% fluaxastrobin)	Aryta LifeScience North America, LLC	2.0-4.0	Leaf rust, Stripe rust, Stem rust (<i>Puccinia</i> spp.)	40	From Feekes 5 (leaf sheaths strongly erect) up to late head emergence (Feekes 10.5)
Priaxor (14.3% Fluxapyroxad + 28.6% Pyraclostrobin)	BASF	4.0-8.0	Leaf rust, Stripe rust, Stem rust (<i>Puccinia</i> spp.)	-	Apply no later than beginning of flowering (Feekes 10.5)
Absolute 500 SC (22.6% Tebuconazole + 22.6% Trifloxystrobin)	Bayer CropScience LP	5.0	Rusts (<i>Puccinia</i> spp.)	35	No more than 5 fl. oz per season
Approach Prima SC (17.94% picoxystrobin + 7.17% cyproconazole)	Du Pont	3.4-6.8	Leaf rust, Stripe rust, Stem rust (<i>Puccinia</i> spp.)	45	For optimizing yield and flag leaf disease control, apply at Feekes 9 ('flag leaf out')
Prosaro 421 SC (19% prothioconazole + 19% tebuconazole)	Bayer CropScience LP	6.5 -8.2	Rusts (<i>Puccinia</i> spp.)	30	Until mid flowering when 75-100% wheat heads fully emerged and 50% of heads on main stem in flower (Feekes 10.52)
Quilt 200 SC (7% azoxystrobin + 11.7% propiconazole)	Syngenta	10.5- 14.0	Rusts (<i>Puccinia</i> spp.)	45	Applied through full head emergence (Feekes 10.5)
Quilt Xcel (13.5% azoxystrobin + 11.7% propiconazole)	Syngenta	10.5- 14.0	Rusts (<i>Puccinia</i> spp.)	45	Applied when the flag leaf is 50% to fully emerged and until full head emergence (Feekes 10.5)
Stratego YLD (32.3% trifloxystrobin + 10.8% prothioconazole)	Bayer CropScience LP	4.0	Rusts (<i>Puccinia</i> spp.)	35	Do not apply after Feekes growth stage 10.5 (full head emergence)
TwinLine 1.75 EC (12% pyraclostrobin + 7.4% metconazole)	BASF	7.0-9.0	Rusts (<i>Puccinia</i> spp.), Stripe rust (<i>Puccinia striiformis</i>)	30	Apply no later than the beginning of flowering (Feekes 10.5)

NOTE: This may not be a complete list for Texas. * Some other products containing propiconazole include Fitness and Propiconazole E-AG. **Some other generic tebuconazole products include Embrace, Muscle 3.6F, Tebucon, Toledo, Tebuzol 3.6F, and Orius. Upon request, or knowledge, more chemistries will be added or subtracted from this list. The information above may change. Please read label carefully. For information on diseases of wheat and other crops, please visit: <http://sickcrops.tamu.edu>

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Southern Rolling Plains Prescribed Burn Association

**P.O. Box 1562
Sweetwater, TX 79556
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*Our mission is to promote the art and science of
prescribed burning and to restore the fire culture
on the landscape of the Southern Plains of Texas.*



Our Mission:

The SRPPBA of Texas is dedicated to promoting land stewardship through the safe use of prescribed fire and to helping reduce fuel loads in support of wildfire prevention and mitigation through education, support, technical expertise, leadership, guidelines, and standards for the safe application of prescribed fire. Counties include: Baylor, Borden, Cottle, Crosby, Dickens, Fisher, Foard, Garza, Hardeman, Haskell, Jones, Kent, King, Knox, Lubbock, Motley, Nolan, Scurry, Stonewall and Wilbarger. Membership benefits include joining a network of land owners interested in prescribed fire and access to specialized equipment that can facilitate conducting prescribed fires for a small usage fee. The SRPPBA also provides a variety of educational opportunities and resources related to prescribed fire in the Rolling Plains of Texas.

Who we are:

Like minded members of the community who believe in and use prescribed fire as a tool in the management of the land and ecosystem.

And...

We have three prescribed burn equipment trailers spread out across the 20-county region, currently located in Paducah, Roby, and Lubbock. Each one is fully stocked with tools for weather, ignition, suppression, communication, and safety. They are available to you as a member for a daily rental fee.

Follow us on:

Facebook: <https://www.facebook.com/SRPPBA>
and

Twitter: https://twitter.com/SRPPBA_TX

SRPPBA is a 501(c)(3) organization



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Southern Rolling Plains Prescribed Burn Association
P.O. Box 1562
Sweetwater, TX 79556



southernrollingplainspba@gmail.com

Membership Application

Name _____

Mailing Address _____

City _____ County _____

State _____ Zip Code _____

Phone (home) _____ (work/cell) _____

Email (preferred) _____

Please circle the list of counties where you're willing to assist on burns:

Baylor Crosby Foard Haskell King Motley Stonewall

Borden Dickens Garza Jones Knox Nolan Wilbarger

Cottle Fisher Hardeman Kent Lubbock Scurry

Annual Membership \$25.00

Please remit check payable to: SRPPBA

Mail checks to: SRPPBA Attn: Beall Carothers P.O. Box 1562 Sweetwater, TX 79556

President: Michael Tynes
Vice President: Matthew McEwen (806) 778-7346
Secretary: Derrick Holdstock
Treasurer: Beall Carothers