

2018

Texas Wheat Variety Trial Results



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2018

Texas Wheat Uniform Variety Trials

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Texas A&M AgriLife Extension Service

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Introduction

The Uniform Wheat Variety Trial (UWVT), presented in the following pages, is coordinated and implemented by numerous Texas A&M AgriLife Research and Extension faculty and staff. We appreciate the cooperation from numerous Texas A&M AgriLife County Extension Agents, producers, universities, and private industry groups that contribute time, property, chemicals, and seed to conduct these field trials. Wheat market classes within these yield trials include Hard Red Winter Wheat (HRWW), Soft Red Winter Wheat (SRWW) and Hard Red Spring Wheat (HRSW).

During the 2017-18 wheat production season, Texas producers planted 4.6 million acres of wheat, down from 2017 (4.7 million acres), according to the National Agricultural Statistics Service (NASS). Texas wheat producers harvested 1.8 million acres for grain (down 23% from 2017), with an average yield of 27 bushels per acre.

The purpose of this publication is to provide unbiased yield data and disease and insect ratings for wheat producers across the state. Using this information, Texas wheat producers can make an educated decision concerning the most appropriate varieties for their geographic region.

Variety Selection:

Selection of small grain varieties is one of the most important decisions a producer will make. This decision impacts potential yield (forage and grain), seed quality (test weight and protein), disease and insect management and maturity. It is important that producers diversify the varieties planted on their farms. Variety diversification spreads the risk associated with potentially devastating pests (leaf rust, stripe rust, Hessian fly, Wheat streak mosaic virus, wheat curl mite, greenbugs, etc.) and yield loss from adverse environmental factors (freeze, drought, etc.).

Producers are advised to select no fewer than 2 or 3 varieties to plant on their farms and preferably more, depending upon the size and location of fields. Variety selection should be based upon a combination of sound data from university trials and other reliable sources. Wheat varieties should be chosen based on multiple years of data (yield, pest resistance, grain quality and maturity). High yield over multiple years and multiple locations demonstrates a variety's ability to perform well over diverse environmental conditions. Stable yield performance is an excellent variety selection tool. It is important to consider decreasing yields over a 2 or 3-year time frame, which may reflect a change in disease and/or insect resistance.

When selecting a variety for the 2018-19 season, producers need to consider multiple year averages, recognizing the unusual climatic conditions that impacted yield and quality over the past several years. It is strongly encouraged that producers look at the 3 and 4-year averages where available, and to look at numerous relevant variety trial locations. There are typically 20+ wheat variety trials conducted across the state each year, and most of these contain analyses for multiple years.

Interpreting the Data:

Yield and test weight at each location have been analyzed using appropriate statistical procedures. The statistical analysis provides the mean, CV, and LSD values. It is important to note these statistical values to prevent misinterpretation of any replicated data.

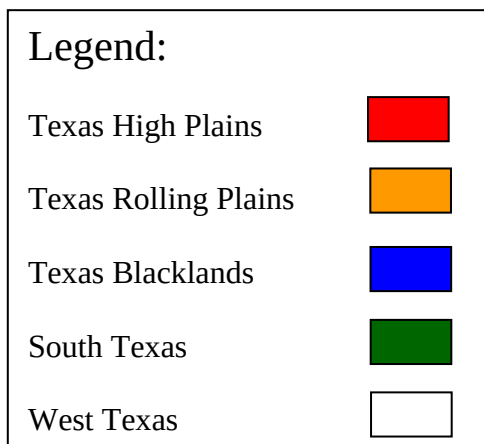
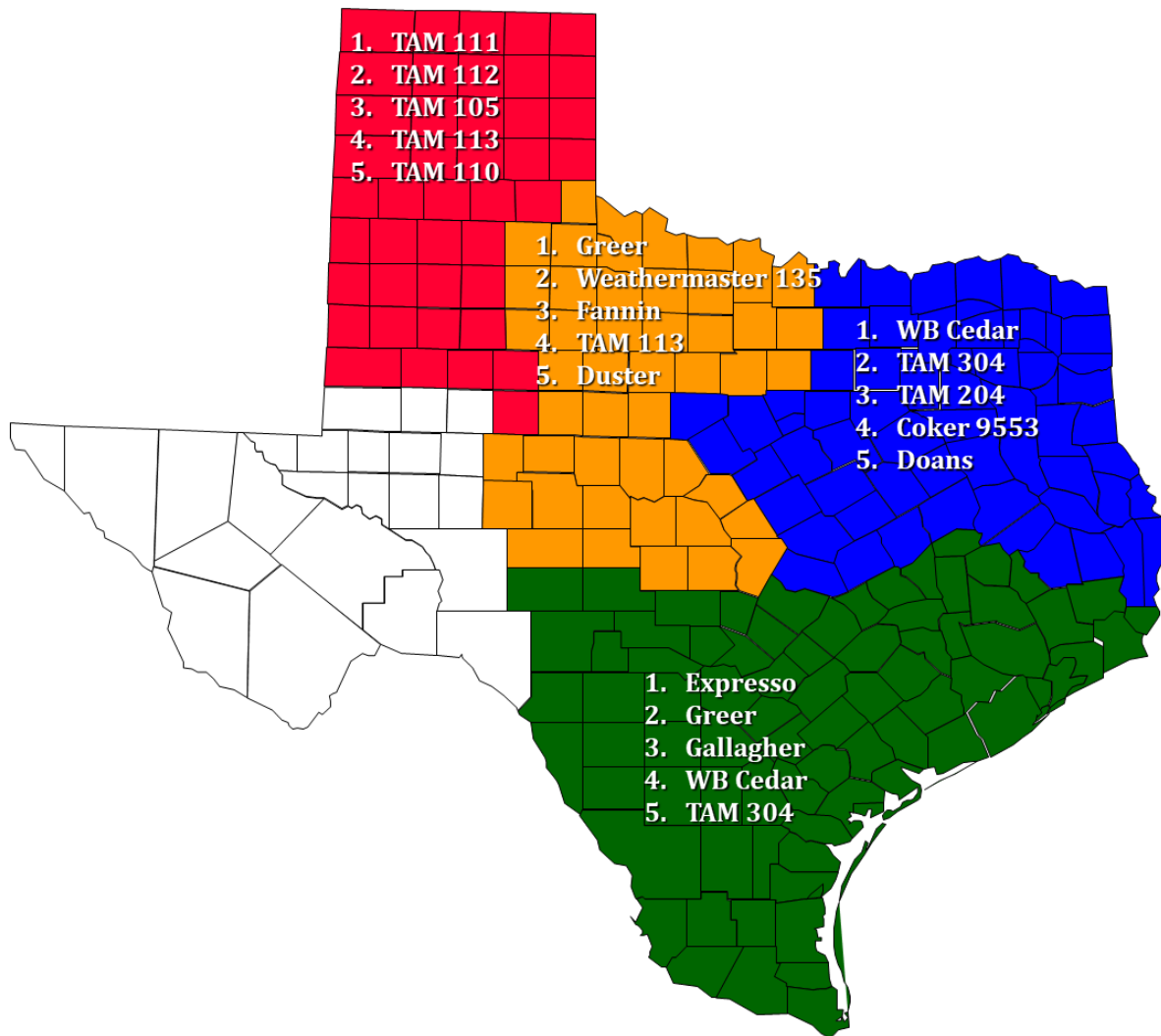
The mean is another term for the average. Therefore, a mean yield is the average of all plots within a trial. Individual variety yields can be compared to the mean yield to determine how these varieties performed within the trial (i.e. were they above or below average?). This average can also be used as an indication of the environment for that location. A low mean yield can indicate poor growing conditions were experienced in that season; likewise, a high yield average can indicate favorable growing conditions.

The CV (Coefficient of Variation) value, expressed as a percentage, indicates the level of unexplained variability present within the trial. A high CV value indicates a lot of variability existed within the trial not related to normal variations that might be expected between the varieties in the test. This variability may be the result of non-uniform stands, non-uniform insect or disease pressure, variability in harvesting, or other issues. CV values in excess of 15% signify that there were problems in the trial, leading the reader to question the validity of the data as a true representation of varietal performance.

The LSD (Least Significant Difference) value is a numeric range to help the reader determine if the varieties performed differently from one another within the trial. If the LSD value is 5 bu/ac in a trial in which Variety A yielded 36 bu/a and Variety B yielded 30 bu/a, then Variety A is said to be significantly better. In that same trial with an LSD value of 5 bu/ac at a 0.05 (5%) significance level, the statistical inference one could say is that Variety A would yield better than Variety B in 19 out of 20 trials conducted in which there was at least a 5 bushel difference in yield. In this hypothetical comparison, you might have a 20th trial with a 5 bu/ac difference that there is not truly a statistical difference between Variety A and B, but random chance caused the 5 bushel difference.

Texas Wheat Regions Map: 2018

Top 5 Planted Varieties by Region



Data retrieved from the USDA-NASS 2018 Texas Wheat Survey

2018 Texas Region Overview

Texas High Plains: Across the Texas High Plains, much of the early wheat for dual-purpose production was drilled into good soil moisture resulting in good stands and good early forage production. However, rain subsided in October, and much of the late wheat was dry sowed. The winter drought persisted across the Texas High Plains with the winter of 2017-2018 being one of the driest winters on record. As a result of the drought, producers pulled cattle off dryland wheat earlier than anticipated due to a lack of forage. Heavy fall forage production depleted soil water and deteriorated wheat conditions especially on dryland acres with many dryland fields not recovering. Under irrigation, many producers were able to maintain forage production as well as grain production. Some producers received precipitation in April and May, but rain was very localized. Where rainfall was received, it helped carry dryland wheat. Although there was some un-grazed dryland wheat that yielded more than 20 bu/ac without precipitation as long as soil moisture profiles were full at planting. In several areas, dry sowed winter wheat did not germinate until April, and it dried up in May. Spring temperatures were above average especially during pollination and early grain development. Un-grazed, early dryland wheat that ranged 10-20 bu/ac while irrigated wheat ranged 50 to 100 bu/ac depending on irrigation capacity. Because of the drought, there was no rust present throughout the season and presence of wheat streak mosaic virus was lower than in previous seasons.

Texas Rolling Plains: Wheat growing conditions were very poor with severe drought in the Rolling Plains. The drought was most severe in the western half of the region. Rains started to pick up in February in the eastern portions. As a result, many wheat acres failed to make a stand or droughted out and grazing was very limited for the region throughout the season. We received 2.2 inch of precipitation in Vernon area during October to April, which was 10 inch less than long-term average precipitation during the same periods. Planting condition was poor in October with lack of moisture, and early freeze in the last week of October further decreased yield potential. Furthermore, late freeze in the first week of April damaged seed head in the many regions in the Rolling Plains. There were little rust issues due to the dry condition. Quality of saved seeds may be below average; therefore, producers are encouraged to test their seeds for quality.

Texas Blacklands: The 2017-2018 growing season was typical for the production of soft red winter wheat in the Northern Texas Blacklands and hard red winter wheat in the lower Texas Blacklands. The 2017 fall growing conditions were favorable. Adequate moisture in October helped establish acceptable stands in most fields. Dry conditions in late November delayed emergence resulting in less than desirable stands in some of the later planted fields. The wheat progressed normally with adequate rainfall, though some areas were quite dry and had limited forage growth during the winter months. February set monthly rainfall records in the Dallas/Fort Worth area which helped jump start spring growth after a long dry winter. Temperatures were at or below normal during the winter months into the spring. This helped with grain fill and led to some exceptional yields in many locations throughout the Blacklands Region. Leaf rust and stripe rust pressure was extremely low for this growing season, even the highly susceptible varieties used for fungicide trials did not sustain any damage from these diseases, except in the most southern portions of the region. Powdery mildew was present in some locations on

susceptible varieties. Hessian fly damage was heavy to moderate at some locations. Bird damage was a major factor on yield reduction in some of the early maturing varieties.

South Texas:

Most of South Texas was abnormally dry for most of the season, with portions of Southwest Texas that were severely dry as well. Overall, rust was lighter than normal, but leaf rust was still a problem in some wheat fields grown with susceptible varieties. Temperatures heated up quickly in April and may have sped up grain fill prematurely in some fields. Powdery mildew was present in some locations on susceptible varieties during a prolonged cloudy period from February into March.

Texas 2018 Hard Red Winter Wheat Characteristics¹

Variety	Company	First Year Sold	Maturity Group	Height (inches) ²	Leaf Rust	Stripe Rust	Stem Rust	Septoria Leaf Blotch	Tan Spot	Powdery Mildew	Wheat Streak Mosaic	Barley Yellow Dwarf	Green-bug	Hessian Fly
Bentley	OSU	2016	Early*	33	S	MR	-	-		MS	-	MR	S	S
Duster	OSU	2006	Med Early	30	MR	MS	R	MS	MS	MR	S	MR	S	R
Fannin	Syngenta	2005	Early	27	S	MR	R	-	-	R	-	-	S	MS
Gallagher	OSU	2013	Medium	31	S	R	MR	-	-	MR	-	-	-	R
Greer	Syngenta	2010	Medium	32	S	MR	R	-	-	S	-	-	-	-
Iba	OSU	2013	Medium	32	MS	MR	R	-	-	MR	-	-	-	MS
Jackpot	Syngenta	2008	Medium	26	S	MR	MR	-	MR	MS	-	MS	S	S
LCS Chrome	Limagrain	2017	Med Late*	32	R*	R*	S*	-		-	MS*	MR*	-	R*
LCS Mint	Limagrain	2012	Med Late	33	S	MR	R	-	-	MS	-	-	-	S
LCS Pistol	Limagrain	2016	Med Early*	-	R	MR*	S*	-		MR*	MS*	MR*		MS*
Long Branch	Dyna-Gro	2016	Medium*	33	MS	MR	-	-		R	-	MR*	-	S*
PlainsGold Avery	PlainsGold	2016	Medium*	32	MS*	MS*	-	-		-	-	-	-	-
PlainsGold Denali	PlainsGold	2011	Medium	33	S	MS	R	-	-	MS	MS*	MS*	-	MR*
SY Drifter	Syngenta	2015	Medium*	31	R	MR	-	-		MR	-	-	-	S
SY Flint	Syngenta	2015	Med Early*	31	S	MR*	R*	-		MS*	MS*	MS*	-	-
SY Grit	Syngenta	2016	Medium*	31	S	R	R	-		MS	-	-	-	-
SY Monument	Syngenta	2015	Med Late*	31	MR	MR	-	-		MS	-	MR	-	-
SY Razor**	Syngenta	2014	Medium	35	S	R	-	-	-	R	-	-	-	R
SY Rugged	Syngenta	2017	Med Early*	29	MS	R*	-	-		-	-	-	-	-
T158	Limagrain	2009	Medium	30	MS	MR	MS	-	-	MR	MS	-	-	S
TAM 111	Syngenta	2003	Medium	32	S	S	R	MR	MR	MR	MS	MS	S	MS
TAM 112	Watley Seed	2005	Med Early	30	S	S	R	MR	MR	R	MR	MS	R	S
TAM 113	Scott Seed	2012	Medium	32	R	R	R	-	-	MS	MS	-	-	S
TAM 114	Adaptive Genetics	2014	Medium	32	MR	R	R	-	-	MR	MS	-	S	MS
TAM 204**	Watley Seed	2014	Medium	32	S	MR	R	-	-	MR	MR	-	R	R
TAM 304	Scott Seed	2007	Med Early	30	MS	MR	R	-	MS	MR	MS	MS	S	R
TAM 305	Scott Seed	2013	Med Early	30	R	R	R	-	-	MR	-	-	-	S
TAM 401**	Syngenta	2008	Early	32	MR	R	R	-	-	MR	MS	-	S	MS
TAM W-101	TAMU	1971	Med Late	31	MS	MS	R	-	-	S	-	-	-	S
WB4269	Monsanto	2016	Med Early*	-	MS	MR*	-	-		-	-	-	-	-
WB4303	Monsanto	2016	Medium*	-	S	MS	-	-		S	-	-	-	-
WB4418	Monsanto	2015	Med Late	-	-	MR	-	-	-	-	-	-	-	-
WB4458	Monsanto	2013	Med Early	32	S	MR	R	-		MS	-	-	-	S
WB4515	Monsanto	2016	Med Early*	-	S	MR	MR	-		MR	-	-	-	-
WB4721	Monsanto	2016	Med Early*	31	R*	MR*	-	-		-	-	-	-	-
WB Cedar	Monsanto	2011	Early	26	S	MR	R	-	-	MR	-	-	-	MS
WB Grainfield	Monsanto	2013	Medium	33	MR	R	R	-	-	MS	-	-	-	S
Weathermaster 135**	Unknown	Unknown	Medium	27	MR	MS	S	-	-	MS	-	-	-	-
Winterhawk	Monsanto	2007	Medium	32	MS	MR	S	-	-	MS	-	-	-	S

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 rating NOT necessarily observed in Texas trials, but from other sources.

**Awnless

Texas 2018 Soft Red Winter Wheat Characteristics¹

Variety	Company	First Year Sold	Maturity Group	Leaf Rust	Stripe Rust	Awned/Awnless
AGS 2024	AgSouth Genetics	2015	Early	R	MR	Awned
AGS 2038	AgSouth Genetics	2012	Medium Late	R	R	Awned
AGS 2040	AgSouth Genetics	2015	Medium Early	R	R	Awned
AGS 2055	AgSouth Genetics	2016	Medium	R	R	Awned
AGS 3000	AgSouth Genetics	2016	Early	MR	R	Awned
AGS 3040	AgSouth Genetics	2018	Medium Late	R*	R*	Awnless
Dyna-Gro 9012	Dyna-Gro Seeds	2014	Medium	MS	MR	Awned
Dyna-Gro 9701	Dyna-Gro Seeds	--	Med Late	MR	R	Awned
Dyna-Gro 9811	Dyna-Gro Seeds	--	Medium*	--	--	--
Dyna-Gro Savoy	Dyna-Gro Seeds	--	Early	R	R	Awnless
Dyna-Gro TV8861	Dyna-Gro Seeds	--	Late*	--	--	--
GoWheat 2032	Stratton Seed Co.	--	Medium*	R*	R*	Awned
GoWheat LA754	Stratton Seed Co.	--	Early*	R*	R*	Awned
#BOSS	Progeny	--	Medium Late	MS	R	Awned
#Bullet	Progeny	--	Medium Late	MS	R	Awned
#FURY	Progeny	--	Medium	R*	R*	Awnless
#Turbo	Progeny	--	Medium	R	R	Awnless
TX-EL2	TAMU	--	Medium	MR*	R*	Awnless
USG 3120	UniSouth Genetics	2010	Early	R	MS	Awned
USG 3458	UniSouth Genetics	2017	Early	MR*	R*	Awnless
USG 3536	UniSouth Genetics	2016	Medium Late	MR	R	Awned
USG 3895	UniSouth Genetics	2015	Medium	R	R	Awned

¹S - Susceptible, MS - Moderately Susceptible, MR - Moderately Resistant, and R - Resistant.

ALL ratings are subject to change as re-evaluation occurs.

*Indicates rating NOT necessarily observed in Texas trials, but from other sources.

Texas 2018 Hard Red Spring Wheat Characteristics¹

Variety	Company	First Year Sold	Maturity Group	Height (inches)	Leaf Rust	Stripe Rust	Awned/Awnless
Espresso	Monsanto	2007	Med Early	28	MR	R	Awned
LCS Prime	Limagrain	2016	Medium	29	MR	MR	Awned
LCS Rebel	Limagrain	--	Medium	29	MR	R*	Awned
LCS Trigger	Limagrain	2016	Med Early	30	R	MS	Awned
TAMsp 801	TAMU	--	Med Late	26	R	R	Awned
WB9411	Monsanto	2015	Early	27	MS	MR	Awned
WB9518	Monsanto	2015	Early	26	MR	R	Awned
WB9662	Monsanto	--	Med Early	25	MS	R*	Awned
WB9668	Monsanto	--	Med Early	24	MS	R*	Awned

¹S-Susceptible, MS-Moderately Susceptible, MR-Moderately Resistant, and R-Resistant.

ALL ratings are subject to change as re-evaluation occurs.

*Indicates rating NOT necessarily observed in Texas trials, but from other sources.

2018 Uniform Variety Trial: Texas Regional Multi-Year Averages

High Plains Irrigated (20 Site-Years)			High Plains Dryland (18 Site-Years)			Rolling Plains (8 Site-Years)			Blacklands HRWW (12 Site-Years)			Blacklands SRWW (11 Site-Years)			South Texas HRWW (11 Site-Years)			South Texas HRSW (9 Site-Years)		
Rank	Variety	Average Yield	Rank	Variety	Average Yield	Rank	Variety	Average Yield	Rank	Variety	Average Yield	Rank	Entry	Average Yield	Rank	Variety	Average Yield	Rank	Variety	Average Yield
-- bu/a --			-- bu/a --			-- bu/a --			-- bu/a --			-- bu/a --			-- bu/a --			-- bu/a --		
1	TAM 114	85.1	1	Long Branch	40.7	1	TAM 114	40.8	1	WB Cedar	58.0	1	AGS 2055	70.6	1	Greer	45.3	1	LCS Trigger	51.7
2	TAM 204	82.5	2	PlainsGold Avery	40.4	2	WB 4721	39.4	2	WB 4303	54.3	2	USG 3895	69.3	2	TAM 304	41.1	2	TAMsp 801	44.6
3	SY Monument	82.2	3	LCS Mint	38.6	3	Greer	38.3	3	TAM 304	53.9	3	AGS 2038	66.7	3	Gallagher	40.7	3	Expresso	41.9
4	SY Grit	81.9	4	PlainsGold Denali	38.4	4	SY Razor	36.9	4	TAM 114	52.5	4	AGS 2024	66.6	4	TAM 305	39.1	4	WB 9518	41.4
5	T158	81.4	5	WB 4721	38.4	5	Duster	36.3	5	Greer	52.1	5	TX-EL2	66.6	5	WB Cedar	36.8	5	WB 9411	36.1
6	WB 4458	79.2	6	T158	38.4	6	Gallagher	36.2	6	WB 4515	46.8	6	AGS 3000	58.1	6	TAM 204	35.1			
7	TAM 305	78.4	7	TAM 114	38.3	7	SY Grit	36.0	7	TAM 204	45.2	7	Dyna-Gro 9012	53.0	7	Fannin	29.2			
8	TAM 304	75.2	8	TAM 112	37.6	8	WB 4515	35.8	8	Fannin	44.0	8	AGS 2040	52.5	8	TAMW-101	25.8			
9	TAM 111	75.1	9	WB Grainfield	37.6	9	TAM 204	35.4	9	TAMW-101	37.0									
10	TAM 112	73.0	10	Winterhawk	37.0	10	TAM 304	34.7												
11	TAMW-101	65.4	11	TAM 204	36.9	11	SY Drifter	34.0												
			12	TAM 111	36.9	12	Jackpot	33.5												
			13	SY Monument	36.7	13	WB 4458	32.0												
			14	TAM 304	32.4	14	Fannin	29.0												
			15	TAMW-101	30.5	15	TAMW-101	26.2												
			16	Weathermaster	24.5	16	Weathermaster	24.5												
LSD (5%)		2.1	LSD (5%)		1.4	LSD (5%)		2.9	LSD (5%)		3.0	LSD (5%)		3.1	LSD (5%)		2.7	LSD (5%)		3.3
CV (%)		7.7	CV (%)		10.4	CV (%)		14.2	CV (%)		12.6	CV (%)		9.7	CV (%)		14.5	CV (%)		14.4
Mean		78.1	Mean		37.3	Mean		34.3	Mean		50.3	Mean		63.0	Mean		36.7	Mean		43.1

High Plains Irrigated: Bushland, Castro Co., Clovis, Dawson Co., Etter, Lubbock, Perryton, Sunray, and Swisher Co. from 2015, 2016, 2017, and 2018.

High Plains Dryland: Bushland, Castro Co., Clovis, Groom, Hereford, Lubbock, Perryton, Silverton, and Wellington from 2016, 2017, and 2018.

Rolling Plains: Abilene, Brady, Chillicothe, Electra, and Munday and from 2016, 2017, and 2018.

Blacklands HRWW: Hillsboro, McGregor, Muenster, Ennis, Greenville, Thrall from 2016, 2017, and 2018.

Blacklands SRWW: Ennis, Greenville, Hillsboro, McGregor, Muenster from 2016, 2017, and 2018.

South Texas HRWW: Castroville, College Station, Uvalde, and Wharton from 2014, 2016, 2017, and 2018.

South Texas HRSW: Castroville, College Station, San Patricio Co., Uvalde, and Wharton from 2016, 2017, and 2018.

Texas Locations Agronomic Data

High Plains: 2018

Location ¹	Cooperator(s)	Yield Limiting Issues	Planting Date	Water*	Seeding Rate
Bushland Dryland	Texas A&M AgriLife Research and Extension Center	Drought	10/11/2017	D	600K Seed/A
Bushland Irrigated	Texas A&M AgriLife Research and Extension Center	None	10/17/2017	IF	1.1M Seed/A
Castro Co.	Gaylord Cogburn	Drought	11/11/2017	D	600K Seed/A
Clovis Dryland	New Mexico State University Research Center	None	10/12/2017	D	600K Seed/A
Clovis Irrigated	New Mexico State University Research Center	None	10/12/2017	IL	1.1M Seed/A
Dawson Co.	Ricky Cude	Late Planting	12/4/2017	IL	1.1M Seed/A
Dumas	Reznik Farms	Late Emergence	11/27/2017	IF	1.1M Seed/A
Groom	John Weinheimer	ABANDONED Drought- Poor Emergence	11/9/2017	D	600K Seed/A
Hale Co.	Glen Schur	Late Emergence; uneven stand; DATA NOT SHOWN	11/25/2017	IL	1.1M Seed/A
Hereford	Chris Grotegut	Drought	10/25/2017	D	600K Seed/A
Lubbock Co.	Texas A&M AgriLife Research and Extension Center	ABANDONED- No Stand Achieved	11/17/2017	D	600K Seed/A
Perryton Dryland	Creede Hoover	ABANDONED Drought- Poor Emergence	11/13/2017	D	600K Seed/A
Wellington	Mark Fourmentin	Drought	10/17/2017	D	600K Seed/A

*Irrigation: IF = Irrigated Full, IL = Irrigated Limited, D = Dryland

¹All locations conventionally tilled.

2018 Uniform Wheat Variety Trial: HRWW, High Plains Irrigated Regional Summary

Rank [†]	Variety	Source	Yield (bu/a)					Test Wt (lb/bu)
			AVG	Bushland	Clovis	Dawson	Dumas	2018
1	CROPLAN 09-17*	Croplan	72.6	94.5	86.2	46.2	72.5	58.2
2	TAM 112	Watley Seed	72.4	93.9	79.7	47.1	77.2	59.0
3	TAM 304P18 [§]	TAMU-Purified Seed Source	71.8	102.3	81.7	35.5	79.7	57.1
4	TX12V7415*	TAMU	71.4	95.2	79.8	44.3	75.3	60.5
5	Long Branch	Dyna-Gro	70.1	98.3	84.6	34.6	74.9	56.8
6	TAM 114	Adaptive Genetics	70.0	99.7	76.6	38.0	76.6	59.5
7	WB 4418	Westbred/Monsanto	68.7	90.1	77.9	39.3	77.1	57.7
8	SY Grit	Syngenta	68.5	96.0	83.1	41.3	62.8	57.5
9	SY Monument	Syngenta	68.1	85.8	79.7	44.5	70.1	57.6
10	T158	Limagrain	68.0	95.9	80.4	39.6	65.6	58.3
11	CROPLAN 56-17*	Croplan	67.8	94.2	75.7	39.1	71.9	59.6
12	TAM 111	Syngenta	67.0	89.5	82.0	35.7	71.3	59.0
13	WB 4458	Westbred/Monsanto	66.7	88.7	76.3	41.8	68.3	57.6
14	CROPLAN 78-69	Croplan	66.6	99.1	83.4	32.3	63.1	57.4
15	TAM 204**	Watley Seed	65.9	92.0	77.0	34.2	70.8	55.6
16	SY Flint	Syngenta	65.5	86.7	70.8	37.1	77.0	58.6
17	TX11A001295*	TAMU	65.3	90.7	76.2	40.2	62.5	59.9
18	SY Rugged	Syngenta	65.2	91.1	79.8	35.3	64.6	57.8
19	TAM W-101	TAMU	62.9	80.9	69.8	34.6	75.6	58.3
20	TAM 304	Scott Seed	62.0	87.8	78.0	30.9	61.7	56.4
21	LCS Chrome	Limagrain	61.9	92.3	82.6	30.5	52.6	56.7
22	LCS Pistol	Limagrain	61.5	91.0	74.3	32.0	58.7	57.3
23	TAM 305	Scott Seed	60.6	79.1	68.8	36.7	65.5	57.9
24	TX13M5625*	TAMU	60.1	78.1	69.1	37.7	63.0	57.7
25	WB 4303	Westbred/Monsanto	60.0	81.1	73.4	29.6	66.3	55.7
LSD (0.05)			5.2	9.7	9.3	4.7	NS	0.7
CV (%)			10.1	6.5	7.3	9.0	15.9	1.6
Mean			66.4	91.0	77.9	37.5	69.0	57.9

*Experimental breeding line

**Awnless variety

[†]Varieties ranked according to 4-location yield average.

[§]Purified seed source for TAM 304.

2018 Uniform Wheat Variety Trial: HRWW, Bushland, TX (Irrigated)

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	TAM 204**	Watley Seed	80.3	91.1	89.4	92.0	60.4
2	TAM 114	Adaptive Genetics	79.9	90.5	89.2	99.7	63.5
3	TAM 111	Syngenta	77.2	87.5	84.1	89.5	62.8
4	T158	Limagrain	76.7	84.9	84.7	95.9	62.2
5	WB 4458	Westbred/Monsanto	75.4	84.6	81.9	88.7	61.9
6	TAM 112	Watley Seed	72.5	83.6	77.0	93.9	61.4
7	TAM 305	Scott Seed	71.0	80.5	76.2	79.1	61.6
8	TAM 304	Scott Seed	70.8	82.2	81.0	87.8	61.6
9	TAM W-101	TAMU	67.8	73.7	73.6	80.9	62.0
10	Long Branch	Dyna-Gro		92.3	92.7	98.3	59.4
11	SY Monument	Syngenta		87.1	85.1	85.8	61.6
12	SY Grit	Syngenta		85.9	80.6	96.0	61.7
13	CROPLAN 78-69	Croplan			97.9	99.1	61.3
14	TX11A001295*	TAMU			88.5	90.7	64.2
15	LCS Chrome	Limagrain			85.3	92.3	60.8
16	SY Rugged	Syngenta			85.0	91.1	61.2
17	SY Flint	Syngenta			76.7	86.7	62.6
18	TAM 304P18 [§]	TAMU-Purified Seed Source				102.3	61.6
19	TX12V7415*	TAMU				95.2	64.0
20	CROPLAN 09-17*	Croplan				94.5	61.9
21	CROPLAN 56-17*	Croplan				94.2	63.3
22	LCS Pistol	Limagrain				91.0	62.5
23	WB 4418	Westbred/Monsanto				90.1	62.1
24	WB 4303	Westbred/Monsanto				81.1	59.4
25	TX13M5625*	TAMU				78.1	61.1
LSD (0.05)			3.9	4.5	5.9	9.7	1.8
CV (%)			6.7	5.9	6.6	6.5	1.7
Mean			74.6	85.3	84.1	91.0	61.9

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2014, 2016, 2017, and 2018 data.

[§]Purified seed source for TAM 304.

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2018 Uniform Wheat Variety Trial: HRWW, Clovis, NM (Irrigated)

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	SY Grit	Syngenta	89.9	86.4	81.6	83.1	59.6
2	TAM 114	Adaptive Genetics	88.0	84.3	75.8	76.6	61.5
3	TAM 304	Scott Seed	84.7	83.4	77.1	78.0	57.6
4	TAM 204**	Watley Seed	83.3	83.6	73.8	77.0	55.0
5	WB 4458	Westbred/Monsanto	81.1	82.7	77.0	76.3	59.5
6	TAM 111	Syngenta	79.4	79.8	78.7	82.0	61.3
7	T158	Limagrain	79.3	78.0	78.0	80.4	60.7
8	SY Monument	Syngenta	79.2	78.0	76.4	79.7	59.4
9	TAM 305	Scott Seed	77.2	76.4	68.2	68.8	58.6
10	TAM 112	Watley Seed	72.5	67.8	68.5	79.7	61.3
11	TAM W-101	TAMU	66.4	67.0	66.1	69.8	57.8
12	Long Branch	Dyna-Gro		82.4	81.6	84.6	58.9
13	CROPLAN 78-69	Croplan			86.1	83.4	60.3
14	SY Rugged	Syngenta			78.2	79.8	58.3
15	TX11A001295*	TAMU			74.0	76.2	62.1
16	LCS Chrome	Limagrain			73.9	82.6	59.8
17	SY Flint	Syngenta			72.2	70.8	57.9
18	CROPLAN 09-17*	Croplan				86.2	59.9
19	TAM 304P18 [§]	TAMU-Purified Seed Source				81.7	58.2
20	TX12V7415*	TAMU				79.8	61.4
21	WB 4418	Westbred/Monsanto				77.9	57.8
22	CROPLAN 56-17*	Croplan				75.7	61.2
23	LCS Pistol	Limagrain				74.3	59.2
24	WB 4303	Westbred/Monsanto				73.4	55.6
25	TX13M5625*	TAMU				69.1	58.5
LSD (0.05)				6.7	5.9	9.3	1.5
CV (%)				8.9	6.7	7.3	1.5
Mean				79.1	75.8	77.9	59.3

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2015, 2016, 2017, and 2018 data.

[§]Purified seed source for TAM 304.

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2018 Uniform Wheat Variety Trial: HRWW, Dawson, TX (Irrigated)

Rank [†]	Variety	Source	Yield	Test Wt
			(bu/a)	(lb/bu)
			2018	2018
1	TAM 112	TAMU	47.1	55.9
2	CROPLAN 09-17*	Croplan	46.2	55.4
3	SY Monument	Syngenta	44.5	54.0
4	TX12V7415*	TAMU	44.3	58.2
5	WB 4458	Westbred/Monsanto	41.8	55.0
6	SY Grit	Syngenta	41.3	54.5
7	TX11A001295*	TAMU	40.2	55.3
8	T158	Limagrain	39.6	55.7
9	WB 4418	Westbred/Monsanto	39.3	55.4
10	CROPLAN 56-17*	Croplan	39.1	56.1
11	TAM 114	Warner Seed	38.0	55.5
12	TX13M5625*	TAMU	37.7	55.8
13	SY Flint	Syngenta	37.1	56.8
14	TAM 305	Scott Seed	36.7	54.4
15	TAM 111	TAMU	35.7	55.0
16	TAM 304P18§	TAMU-Purified Seed Source	35.5	54.2
17	SY Rugged	Syngenta	35.3	55.6
18	TAM W-101	TAMU	34.6	54.9
19	Long Branch	Dyna-Gro	34.6	53.5
20	TAM 204**	Watley Seed	34.2	52.8
21	CROPLAN 78-69	Croplan	32.3	53.1
22	LCS Pistol	Limagrain	32.0	52.4
23	TAM 304	Scott Seed	30.9	52.2
24	LCS Chrome	Limagrain	30.5	51.6
25	WB 4303	Westbred/Monsanto	29.6	53.8
LSD (0.05)			4.7	1.0
CV (%)			9.0	1.3
Mean			37.5	54.7

*Experimental breeding line.

**Awnless variety.

§Purified seed source for TAM 304.

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2018 Uniform Wheat Variety Trial: HRWW, Dumas, TX (Irrigated)

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	SY Monument	Syngenta	74.1	75.0	83.7	70.1	56.3
2	TAM 114	Adaptive Genetics	73.1	77.4	88.3	76.6	58.9
3	T158	Limagrain	70.1	75.3	85.2	65.6	55.5
4	TAM 204**	Watley Seed	68.5	71.9	83.3	70.8	55.3
5	TAM 305	Scott Seed	66.0	67.9	80.0	65.5	58.3
6	TAM 112	Watley Seed	65.9	73.6	85.3	77.2	58.4
7	TAM 111	Syngenta	63.5	74.4	84.8	71.3	58.4
8	TAM W-101	TAMU	63.1	70.5	79.7	75.6	59.5
9	WB 4458	Westbred/Monsanto	62.5	62.4	71.3	68.3	56.5
10	SY Grit	Syngenta	61.4	63.1	71.7	62.8	55.3
11	TAM 304	Scott Seed	60.8	68.1	78.1	61.7	55.5
12	Long Branch	Dyna-Gro		72.2	78.0	74.9	56.4
13	SY Rugged	Syngenta			82.1	64.6	56.8
14	TX11A001295*	TAMU			80.9	62.5	59.4
15	CROPLAN 78-69	Croplan			80.5	63.1	56.4
16	SY Flint	Syngenta			78.8	77.0	57.6
17	LCS Chrome	Limagrain			66.2	52.6	56.3
18	TAM 304P18 [§]	TAMU-Purified Seed Source				79.7	55.6
19	WB 4418	Westbred/Monsanto				77.1	56.4
20	TX12V7415*	TAMU				75.3	59.3
21	CROPLAN 09-17*	Croplan				72.5	56.8
22	CROPLAN 56-17*	Croplan				71.9	59.0
23	WB 4303	Westbred/Monsanto				66.3	54.7
24	TX13M5625*	TAMU				63.0	56.1
25	LCS Pistol	Limagrain				58.7	56.6
LSD (0.05)				8.1	11.2	NS	1.7
CV (%)				12.1	12.1	15.9	1.8
Mean				71.0	79.9	69.0	57.0

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2015, 2016, 2017, and 2018 data.

[§]Purified seed source for TAM 304.

2018 Uniform Wheat Variety Trial: HRWW, High Plains Dryland Regional Summary

Rank [†]	Variety	Source	Yield (bu/a)						Test Wt (lb/bu)
			AVG	Bushland	Castro	Clovis	Hereford	Wellington	2018
1	PlainsGold Avery	CSU	28.1	25.9	38.1	19.8	21.3	31.8	58.6
2	TAM 112	Watley Seed	26.9	25.6	37.4	16.1	28.6	24.4	59.6
3	Long Branch	Dyna-Gro	26.5	28.3	35.8	21.8	19.3	25.0	59.0
4	TX11A001295*	TAMU	25.8	25.3	42.0	17.7	17.3	21.7	60.8
5	LCS Mint	Limagrain	25.6	23.6	38.2	21.9	11.6	26.7	60.2
6	CROPLAN 78-69	Croplan	23.9	23.2	32.4	20.0	24.8	22.5	58.8
7	PlainsGold Denali	CSU	23.4	21.0	26.7	23.2	18.6	28.7	60.0
8	T158	Limagrain	23.3	23.2	31.2	19.7	17.5	26.8	58.3
9	WB 4721	Westbred/Monsanto	23.2	21.3	32.8	19.4	18.6	23.9	59.1
10	SY Monument	Syngenta	23.1	23.9	28.1	17.7	19.6	25.2	57.6
11	TAM 111	Syngenta	23.0	17.7	32.5	15.8	18.2	26.9	59.4
12	PlainsGold Langin	CSU	22.8	22.5	35.1	15.7	12.2	25.7	58.3
13	TAM 204**	Watley Seed	22.8	22.0	30.6	18.7	19.4	22.4	56.8
14	WB Grainfield	Westbred/Monsanto	22.7	21.7	30.1	18.7	16.7	23.5	57.0
15	WB 4462	Westbred/Monsanto	22.6	16.6	31.0	17.6	18.8	24.3	57.2
16	TX12V7415*	TAMU	22.5	21.3	35.1	16.8	19.7	19.6	60.1
17	Winterhawk	Westbred/Monsanto	22.4	19.0	27.1	17.7	21.3	23.8	58.5
18	TAM 114	Adaptive Genetics	22.3	18.1	28.2	16.1	20.1	26.2	59.4
19	TAM 304P18 [§]	TAMU-Purified Seed Source	22.1	19.6	31.7	16.6	20.3	22.1	57.5
20	CROPLAN 09-17*	Croplan	22.0	21.9	31.9	17.5	13.6	28.3	58.1
21	LCS Pistol	Limagrain	21.9	28.3	29.8	14.7	14.3	22.2	58.6
22	LCS Chrome	Limagrain	21.9	22.5	31.2	13.1	20.1	21.7	57.7
23	TAM W-101	TAMU	20.3	15.6	28.2	15.0	19.3	26.4	57.5
24	TAM 304	Scott Seed	19.4	17.7	22.9	15.7	18.9	21.3	56.5
25	TX13M5625*	TAMU	18.2	16.8	30.1	12.0	9.1	21.7	58.1
26	CROPLAN 56-17*	Croplan	17.6	17.2	28.6	13.2	8.2	19.0	58.9
LSD (0.05)			2.7	6.1	4.1	6.1	7.6	6.2	1.7
CV (%)			16.5	17.2	9.2	21.5	20.0	15.5	3.2
Mean			22.9	21.5	31.8	17.3	18.1	24.3	58.5

*Experimental breeding line

**Awnless variety

[†]Varieties ranked according to 4-location yield average.

[§]Purified seed source for TAM 304.

2018 Uniform Wheat Variety Trial: HRWW, Bushland, TX (Dryland)

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	Winterhawk	Westbred/Monsanto	34.5	39.3	32.8	19.0	61.4
2	T158	Limagrain	34.3	40.0	34.2	23.2	61.3
3	TAM 112	Watley Seed	33.6	38.4	28.2	25.6	62.0
4	TAM 204**	Watley Seed	33.4	38.5	31.4	22.0	59.8
5	TAM 111	Syngenta	32.7	37.3	29.9	17.7	60.9
6	TAM 114	Adaptive Genetics	30.1	35.2	30.3	18.1	61.3
7	TAM 304	Scott Seed	28.7	32.2	25.0	17.7	58.8
8	TAM W-101	TAMU	24.4	27.8	27.0	15.6	59.9
9	PlainsGold Avery	CSU		42.1	33.3	25.9	61.3
10	Long Branch	Dyna-Gro		40.2	33.9	28.3	60.6
11	WB 4721	Westbred/Monsanto		39.6	31.7	21.3	61.8
12	LCS Mint	Limagrain		39.4	28.5	23.6	62.6
13	PlainsGold Denali	CSU		38.7	29.4	21.0	62.2
14	SY Monument	Syngenta		38.3	32.5	23.9	60.5
15	WB Grainfield	Westbred/Monsanto		37.6	28.4	21.7	60.7
16	TX11A001295*	TAMU			35.2	25.3	62.1
17	CROPLAN 78-69	Croplan			29.9	23.2	61.6
18	LCS Chrome	Limagrain			29.4	22.5	58.9
19	LCS Pistol	Limagrain				28.3	60.9
20	PlainsGold Langin	CSU				22.5	60.5
21	CROPLAN 09-17*	Croplan				21.9	59.9
22	TX12V7415*	TAMU				21.3	62.6
23	TAM 304P18 [§]	TAMU-Purified Seed Source				19.6	59.1
24	CROPLAN 56-17*	Croplan				17.2	62.6
25	TX13M5625*	TAMU				16.8	60.6
26	WB 4462	Westbred/Monsanto				16.6	57.7
LSD (0.05)			3.3	4.9	4.2	6.1	--
CV (%)			12.7	13.9	11.8	17.2	--
Mean			31.5	37.6	30.6	21.5	60.8

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2012, 2016, 2017, and 2018 data.

[§]Purified seed source for TAM 304.

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2018 Uniform Wheat Variety Trial: HRWW, Castro County, TX (Dryland)

Rank [†]	Variety	Source	Yield (bu/a)		Test Wt (lb/bu)
			2-year [‡]	2018	2018
1	TX11A001295*	TAMU	59.4	42.0	61.1
2	TAM 112	Watley Seed	57.4	37.4	59.5
3	PlainsGold Avery	CSU	56.9	38.1	58.2
4	Long Branch	Dyna-Gro	55.9	35.8	58.1
5	CROPLAN 78-69	Croplan	55.8	32.4	58.6
6	TAM 111	Syngenta	54.3	32.5	58.9
7	T158	Limagrain	54.3	31.2	58.7
8	TAM 204**	Watley Seed	54.2	30.6	57.5
9	TAM 114	Adaptive Genetics	54.1	28.2	60.0
10	WB 4721	Westbred/Monsanto	53.5	32.8	59.3
11	LCS Mint	Limagrain	52.5	38.2	60.3
12	WB Grainfield	Westbred/Monsanto	50.7	30.1	57.9
13	Winterhawk	Westbred/Monsanto	50.7	27.1	59.4
14	SY Monument	Syngenta	50.0	28.1	58.4
15	LCS Chrome	Limagrain	48.5	31.2	57.1
16	TAM 304	Scott Seed	47.8	22.9	56.2
17	PlainsGold Denali	CSU	47.5	26.7	59.9
18	TAM W-101	TAMU	46.2	28.2	58.7
19	PlainsGold Langin	CSU		35.1	57.3
20	TX12V7415*	TAMU		35.1	60.7
21	CROPLAN 09-17*	Croplan		31.9	58.3
22	TAM 304P18 [§]	TAMU-Purified Seed Source		31.7	57.0
23	WB 4462	Westbred/Monsanto		31.0	58.0
24	TX13M5625*	TAMU		30.1	57.8
25	LCS Pistol	Limagrain		29.8	58.7
26	CROPLAN 56-17*	Croplan		28.6	58.7
LSD (0.05)			3.3	4.1	0.6
CV (%)			6.3	9.2	0.8
Mean			52.8	31.8	58.6

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 2-year, then 2018 yield averages.

[‡]2-year average based on 2017 and 2018 data.

[§]Purified seed source for TAM 304.

2018 Uniform Wheat Variety Trial: HRWW, Clovis, NM (Dryland)

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	PlainsGold Denali	CSU	29.5	27.4	28.1	23.2	59.0
2	LCS Mint	Limagrain	27.0	25.9	27.1	21.9	57.7
3	WB Grainfield	Westbred/Monsanto	24.8	24.3	23.7	18.7	53.0
4	T158	Limagrain	24.6	22.9	24.3	19.7	55.4
5	TAM 112	Watley Seed	23.6	22.7	21.2	16.1	57.9
6	Winterhawk	Westbred/Monsanto	22.8	22.4	21.4	17.7	54.1
7	SY Monument	Syngenta	22.6	21.2	21.5	17.7	54.5
8	TAM 204**	Watley Seed	22.4	20.7	20.6	18.7	54.5
9	TAM 114	Adaptive Genetics	22.3	20.4	22.4	16.1	56.4
10	TAM 111	Syngenta	21.5	23.0	23.6	15.8	58.6
11	TAM 304	Scott Seed	21.3	21.9	21.9	15.7	53.6
12	TAM W-101	TAMU	21.1	20.4	21.1	15.0	52.2
13	Long Branch	Dyna-Gro		27.1	27.7	21.8	58.8
14	PlainsGold Avery	CSU		26.5	26.4	19.8	57.0
15	WB 4721	Westbred/Monsanto		24.9	25.1	19.4	56.4
16	CROPLAN 78-69	Croplan			25.2	20.0	57.0
17	TX11A001295*	TAMU			22.3	17.7	59.2
18	LCS Chrome	Limagrain			18.9	13.1	57.1
19	WB 4462	Westbred/Monsanto				17.6	54.2
20	CROPLAN 09-17*	Croplan				17.5	56.0
21	TX12V7415*	TAMU				16.8	56.7
22	TAM 304P18 [§]	TAMU-Purified Seed Source				16.6	56.0
23	PlainsGold Langin	CSU				15.7	57.3
24	LCS Pistol	Limagrain				14.7	56.5
25	CROPLAN 56-17*	Croplan				13.2	56.2
26	TX13M5625*	TAMU				12.0	56.0
LSD (0.05)			2.9	2.9	3.8	6.1	NS
CV (%)			15.3	13.2	14.1	21.5	4.9
Mean			23.6	23.5	23.5	17.3	56.4

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2016, 2017, and 2018 data.

[§]Purified seed source for TAM 304.

2018 Uniform Wheat Variety Trial: HRWW, Hereford, TX (Dryland)

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	TAM 112	Watley Seed	33.3	38.9	41.3	28.6	61.0
2	Winterhawk	Westbred/Monsanto	32.9	39.3	36.0	21.3	61.0
3	TAM 111	Syngenta	30.0	35.6	35.5	18.2	60.7
4	TAM 304	Scott Seed	28.6	33.8	26.0	18.9	58.5
5	TAM W-101	TAMU	27.3	32.0	30.7	19.3	60.7
6	SY Monument	Syngenta		41.3	35.3	19.6	59.6
7	WB Grainfield	Westbred/Monsanto		40.5	33.2	16.7	59.8
8	TAM 204**	Watley Seed		40.3	31.8	19.4	58.5
9	TAM 114	Adaptive Genetics		39.5	35.6	20.1	62.1
10	T158	Limagrain		38.5	35.1	17.5	60.3
11	LCS Mint	Limagrain		37.7	35.4	11.6	62.4
12	PlainsGold Denali	CSU		36.8	36.1	18.6	60.2
13	PlainsGold Avery	CSU			39.8	21.3	60.2
14	Long Branch	Dyna-Gro			35.5	19.3	58.2
15	WB 4721	Westbred/Monsanto			34.8	18.6	61.6
16	CROPLAN 78-69	Croplan				24.8	58.9
17	TAM 304P18 [§]	TAMU-Purified Seed Source				20.3	58.9
18	LCS Chrome	Limagrain				20.1	57.9
19	TX12V7415*	TAMU				19.7	62.5
20	WB 4462	Westbred/Monsanto				18.8	58.6
21	TX11A001295*	TAMU				17.3	62.3
22	LCS Pistol	Limagrain				14.3	59.7
23	CROPLAN 09-17*	Croplan				13.6	--
24	PlainsGold Langin	CSU				12.2	60.5
25	TX13M5625*	TAMU				9.1	60.1
26	CROPLAN 56-17*	Croplan				8.2	60.6
LSD (0.05)			2.4	4.2	3.3	7.6	--
CV (%)			9.2	11.0	7.5	20.0	--
Mean			30.4	37.9	34.8	18.1	60.2

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2011, 2015, 2016, and 2018 data.

[§]Purified seed source for TAM 304.

2018 Uniform Wheat Variety Trial: HRWW, Wellington, TX (Dryland)

Rank [†]	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)
			3-year [‡]	2-year	2018	2018
1	TAM 114	Adaptive Genetics	43.3	39.6	26.2	62.0
2	PlainsGold Avery	CSU	39.9	37.6	31.8	61.0
3	LCS Mint	Limagrain	39.5	33.9	26.7	62.7
4	PlainsGold Denali	CSU	38.3	34.1	28.7	60.0
5	WB Grainfield	Westbred/Monsanto	37.8	33.2	23.5	59.6
6	SY Monument	Syngenta	37.4	32.1	25.2	59.4
7	TAM 204**	Watley Seed	37.1	32.1	22.4	56.3
8	T158	Limagrain	36.7	33.3	26.8	61.1
9	TAM 111	Syngenta	36.1	33.0	26.9	61.1
10	Long Branch	Dyna-Gro	35.9	33.2	25.0	62.5
11	Winterhawk	Westbred/Monsanto	35.6	32.1	23.8	62.8
12	WB 4721	Westbred/Monsanto	35.5	32.6	23.9	61.7
13	TAM 304	Scott Seed	34.0	31.5	21.3	61.8
14	TAM 112	Watley Seed	32.8	27.8	24.4	61.7
15	TAM W-101	TAMU	31.9	30.3	26.4	62.7
16	CROPLAN 78-69	Croplan		36.6	22.5	62.5
17	TX11A001295*	TAMU		35.1	21.7	62.0
18	LCS Chrome	Limagrain		29.5	21.7	60.5
19	CROPLAN 09-17*	Croplan			28.3	61.7
20	PlainsGold Langin	CSU			25.7	61.1
21	WB 4462	Westbred/Monsanto			24.3	61.5
22	LCS Pistol	Limagrain			22.2	61.4
23	TAM 304P18 [§]	TAMU-Purified Seed Source			22.1	61.3
24	TX13M5625*	TAMU			21.7	61.5
25	TX12V7415*	TAMU			19.6	62.7
26	CROPLAN 56-17*	Croplan			19.0	62.0
LSD (0.05)			3.8	5.2	6.2	--
CV (%)			10.9	13.7	15.5	--
Mean			36.8	33.2	24.3	61.3

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2016, 2017, and 2018 data.

[§]Purified seed source for TAM 304.

Texas Locations Agronomic Data

Rolling Plains: 2018

Location ¹	Cooperator(s)	Yield Limiting Issues	Planting Date	Fertilizer (Total lb N/A)	Water*	Seeding Rate
Abilene	Danny Lewis	Drought	10/20/17	0	D	750K Seed/A
Brady	Holubec Farms; David Holubec	ABANDONED Late planting; Hail damage	11/21/17	NA	D	750K Seed/A
Chillicothe	Chillicothe Research Station	ABANDONED Drought	11/9/17	27	D	650K Seed/A
Munday	Kenneth Baker	Wild hog damage; Drought	10/13/17	0	D	650K Seed/A
Electra	Carl and Bill Brockreide	ABANDONED Drought	11/1/17	0	D	650K Seed/A

¹All locations were planted to 7" row spacing and were conventionally tilled EXCEPT for Brady which was minimum-till.

*Irrigation: IL = Irrigated Limited, D = Dryland

2018 Uniform Wheat Variety Trial: HRWW, Rolling Plains Regional Summary

Rank [†]	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)
			AVG	Abilene	Munday	2018
1	CROPLAN 78-69	Croplan	44.8	47.4	42.2	62.1
2	SY Grit	Syngenta	43.7	48.3	36.9	61.9
3	CROPLAN 09-17*	Croplan	40.7	43.8	37.6	61.5
4	Long Branch	Dyna-Gro	39.3	43.7	34.9	60.9
5	SY Drifter	Syngenta	39.1	38.1	40.0	61.9
6	Greer	Syngenta	38.9	42.3	35.5	60.8
7	SY Flint	Syngenta	37.3	43.5	31.0	62.7
8	WB 4721	Westbred/Monsanto	37.1	41.9	32.3	63.2
9	TAM 112	Watley Seed	37.0	39.9	34.1	63.6
10	TX13M5625*	TAMU	37.0	41.0	32.9	62.2
11	TAM 304	Scott Seed	36.7	39.7	33.6	60.6
12	WB 4418	Westbred/Monsanto	36.5	40.6	30.4	60.8
13	WB 4515	Westbred/Monsanto	36.3	39.9	32.6	63.3
14	SY Rugged	Syngenta	35.7	39.7	31.7	61.0
15	WB 4269	Westbred/Monsanto	35.6	36.2	34.9	61.5
16	Duster	OSU	35.4	36.8	34.0	63.3
17	TX11A001295*	TAMU	35.1	38.0	32.2	64.2
18	TX12V7415*	TAMU	33.9	34.7	33.1	64.0
19	LCS Chrome	Limagrain	33.3	34.2	32.3	60.8
20	TAM 114	Adaptive Genetics	33.1	39.8	26.5	63.2
21	Jackpot	Syngenta	32.7	35.1	30.3	61.3
22	WB 4458	Westbred/Monsanto	28.9	31.8	26.1	62.1
23	CROPLAN 56-17*	Croplan	28.8	33.1	24.6	62.8
24	Gallagher	OSU	28.5	30.2	26.8	62.9
25	TAM W-101	TAMU	27.2	31.5	22.8	62.1
26	Fannin	Syngenta	21.6	23.5	19.7	62.3
27	TAM 204**	Watley Seed	--	42.7	--	60.5
28	SY Razor**	Syngenta	--	39.8	--	63.7
29	Weathermaster 135**	Unknown	--	32.3	--	60.7
LSD (0.05)			6.5	8.6	6.7	NS
CV (%)			16.2	13.9	13.4	3.4
Mean			35.1	37.9	30.0	62.1

*Experimental breeding line.

**Awnless variety; data missing due to hog damage.

[†]Varieties ranked according to 2-location yield average.

2018 Uniform Wheat Variety Trial: HRWW, Abilene, TX

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	TAM 114	Adaptive Genetics	46.4	46.7	42.5	39.8	65.0
2	SY Grit	Syngenta	45.7	45.4	47.2	48.3	63.9
3	TAM 204**	Watley Seed	43.6	44.3	41.4	42.7	61.7
4	Greer	Syngenta	42.3	42.6	37.5	42.3	62.5
5	SY Razor**	Syngenta	41.5	43.3	41.4	39.8	65.3
6	TAM 304	Scott Seed	40.8	39.1	42.5	39.7	61.8
7	Gallagher	OSU	39.2	39.2	33.9	30.2	64.4
8	WB 4458	Westbred/Monsanto	38.7	35.8	30.6	31.8	63.9
9	Jackpot	Syngenta	37.8	38.6	33.5	35.1	62.9
10	SY Drifter	Syngenta	36.4	34.8	35.6	38.1	63.9
11	Fannin	Syngenta	32.4	30.4	26.0	23.5	64.2
12	TAM W-101	TAMU	30.9	30.7	33.6	31.5	63.5
13	Weathermaster 135**	Unknown	30.1	30.4	31.5	32.3	61.8
14	WB 4721	Westbred/Monsanto		42.7	38.3	41.9	64.5
15	WB 4515	Westbred/Monsanto		40.3	37.1	39.9	64.6
16	CROPLAN 78-69	Croplan			44.8	47.4	63.0
17	Long Branch	Dyna-Gro			44.1	43.7	61.8
18	WB 4269	Westbred/Monsanto			43.5	36.2	62.6
19	SY Flint	Syngenta			42.0	43.5	64.1
20	SY Rugged	Syngenta			40.6	39.7	62.1
21	TX11A001295*	TAMU			38.4	38.0	65.9
22	LCS Chrome	Limagrain			34.4	34.2	61.6
23	CROPLAN 09-17*	Croplan				43.8	62.5
24	TX13M5625*	TAMU				41.0	63.8
25	WB 4418	Westbred/Monsanto				40.6	62.7
26	TAM 112	Watley Seed				39.9	64.4
27	Duster	OSU				36.8	64.8
28	TX12V7415*	TAMU				34.7	65.0
29	CROPLAN 56-17*	Croplan				33.1	64.9
LSD (0.05)			3.8	5.1	6.7	8.8	--
CV (%)			11.6	13.2	13.8	14.0	--
Mean			38.9	39.0	38.2	38.3	63.6

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2015, 2016, 2017, and 2018 data.

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2018 Uniform Wheat Variety Trial: HRWW, Munday, TX

Rank [†]	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)
			3-year [‡]	2-year	2018	2018
1	SY Drifter	Syngenta	37.9	39.0	40.0	59.9
2	Greer	Syngenta	35.4	34.7	35.5	59.0
3	WB 4721	Westbred/Monsanto	34.7	31.8	32.3	61.8
4	WB 4515	Westbred/Monsanto	34.6	33.2	32.6	62.0
5	Duster	OSU	33.3	38.4	34.0	61.7
6	TAM 304	Scott Seed	31.7	34.2	33.6	59.3
7	SY Grit	Syngenta	30.6	34.2	36.9	59.8
8	Gallagher	OSU	30.1	30.1	26.8	61.4
9	TAM 114	Adaptive Genetics	29.7	28.3	26.5	61.4
10	WB 4458	Westbred/Monsanto	28.1	27.2	26.1	60.2
11	Jackpot	Syngenta	27.9	27.6	30.3	59.6
12	Fannin	Syngenta	21.4	20.9	19.7	60.3
13	TAM W-101	TAMU	20.3	24.8	22.8	60.7
14	WB 4269	Westbred/Monsanto		40.3	34.9	60.3
15	CROPLAN 78-69	Croplan		38.7	42.2	61.1
16	SY Flint	Syngenta		33.6	31.0	61.2
17	TX11A001295*	TAMU		33.0	32.2	62.4
18	Long Branch	Dyna-Gro		32.6	34.9	59.9
19	SY Rugged	Syngenta		32.5	31.7	59.9
20	LCS Chrome	Limagrain		31.2	32.3	59.9
21	CROPLAN 09-17*	Croplan			37.6	60.5
22	TAM 112	Watley Seeds			34.1	62.7
23	TX12V7415*	TAMU			33.1	63.0
24	TX13M5625*	TAMU			32.9	60.6
25	WB 4418	Westbred/Monsanto			30.4	58.9
26	CROPLAN 56-17*	Croplan			24.6	60.7
27	SY Razor**	Syngenta			--	62.0
28	Weathermaster 135**	Unknown			--	59.6
29	TAM 204**	Watley Seeds			--	59.3
LSD (0.05)			3.0	3.7	4.4	--
CV (%)			10.6	9.9	8.4	--
Mean			30.4	32.3	31.4	60.7

*Experimental breeding line.

**Awnless variety; data missing due to hog damage.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2016, 2017, and 2018 data.

Texas Locations Agronomic Data

Blacklands: 2018

Location ¹	Cooperator(s)	Yield Limiting Issues	Planting Date	Fertilizer (Total lb N/A)	Seeding Rate*	Pesticide Applied (Date)
Ennis	Bob Beakley	ABANDONED due to bird damage	10/25/17	110	65 LB/A (SRWW) 750K Seed/A (HRWW)	None
Hillsboro	Rodney Schronk	None	11/1/17	90	65 LB/A (SRWW) 750K Seed/A (HRWW)	Herbicides Amber and MCPE
Greenville	Texas A&M University-Commerce Research Farm	None	10/27/17	110	65 LB/A (SRWW) 750K Seed/A (HRWW)	None
McGregor	Texas A&M AgriLife Research Farm	None	11/14/17	120	65 LB/A (SRWW) 750K Seed/A (HRWW)	Herbicides Ally and Amber (1/10/18)
Muenster	Clinton Bayer	Hessian Fly	10/24/17	110	65 LB/A (SRWW) 750K Seed/A (HRWW)	None
Thrall	Stiles Farm Foundation	Hessian Fly	10/30/17	50 (90 on high input)	65 LB/A (SRWW) 750K Seed/A (HRWW)	Fungicides Tilt (at jointing) and Quilt Xcel (4/2/18) on high input only

¹All locations were planted into conventionally tilled seedbeds and were grown under rain-fed conditions.

*Seed numbers were not available for soft wheat lines.

2018 Uniform Wheat Variety Trial: HRWW, Blacklands Regional Summary

Rank [†]	Variety	Source	Yield (bu/a)						Test Wt (lb/bu)
			AVG	Greenville	Hillsboro	McGregor	Muenster	Thrall	2018
1	TAM 304P18 [§]	TAMU-Purified Seed Source	82.3	90.8	90.9	69.5	70.0	90.3 [¶]	59.8
2	TX13M5625*	TAMU	79.7	77.2	88.6	72.0	83.1	76.6	60.7
3	WB 4418	Westbred/Monsanto	77.6	79.8	86.4	78.5	61.9	83.4	60.6
4	TAM 304 (1.8 million seeds/a)	Scott Seed	77.4	85.1	87.9	61.0	67.9	87.7	58.9
5	WB 4303	Westbred/Monsanto	76.7	78.3	93.1	78.0	65.7	64.6	59.0
6	TAM 114	Adaptive Genetics	76.4	84.0	83.9	68.0	70.5	75.3	61.5
7	TX12M4068*	TAMU	76.0	73.7	89.2	69.6	69.2	79.3	61.4
8	TAM 304 (1.3 million seeds/a)	Scott Seed	74.8	75.3	92.6	62.5	66.8	77.9	59.3
9	TX13A001169*	TAMU	74.8	78.4	81.8	70.3	78.6	60.2	60.7
10	TAM 304 (750,000 seeds/a)	Scott Seed	74.7	79.7	86.5	67.2	61.8	83.0	59.6
11	WB Cedar	Westbred/Monsanto	73.9	79.0	89.1	69.3	63.6	68.5	60.5
12	TAM 204**	Watley Seeds	73.3	78.2	88.5	57.4	69.1	75.9	56.8
13	SY Flint	Syngenta	72.0	74.1	82.4	65.5	65.2	73.4	61.2
14	TAM 304 (450,000 seeds/a)	Scott Seed	71.5	76.1	75.8	67.8	63.2	80.4	58.8
15	TX12A001638*	TAMU	71.3	77.1	83.4	68.1	70.3	50.8	63.4
16	WB 4269	Westbred/Monsanto	70.5	68.9	79.9	74.5	64.4	60.9	60.1
17	TX12V7415*	TAMU	68.2	81.5	84.1	66.1	56.3	45.4	62.3
18	TX11A001295*	TAMU	66.6	79.4	76.9	69.1	72.1	35.3	62.6
19	WB 4515	Westbred/Monsanto	66.0	78.5	77.0	65.8	58.6	42.3	62.0
20	SY Razor**	Syngenta	65.6	77.4	77.6	60.3	64.5	51.1	61.9
21	Fannin	Syngenta	57.4	72.0	67.5	49.0	54.9	44.0	61.3
22	TAM W-101	TAMU	56.1	70.2	58.1	49.6	60.3	35.2	59.4
LSD (0.05)			4.7	9.0	9.1	6.5	14.7	18.1	0.6
CV (%)			8.7	6.1	6.7	5.9	13.4	12.9	1.3
Mean			71.9	78.2	82.8	66.3	66.3	65.5	60.5

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 5-location yield average.

[§]Purified seed source for TAM 304.

[¶]Estimated value based on performance at other Blackland locations; purified source not included in this trial.

2018 Uniform Wheat Variety Trial: HRWW, Greenville, TX

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	TAM 304P18 [§]	TAMU-Purified Seed Source	58.8	51.9	66.6	90.8	61.2
2	TAM 114	Adaptive Genetics	58.4	49.3	62.7	84.0	62.1
3	WB Cedar	Westbred/Monsanto	54.8	49.8	62.9	79.0	60.7
4	Fannin	Syngenta	48.6	38.2	50.1	72.0	61.0
5	TAM W-101	TAMU	47.4	40.2	52.3	70.2	61.6
6	TAM 204**	Watley Seeds	46.1	36.5	48.9	78.2	59.1
7	TX11A001295*	TAMU			64.0	79.4	64.5
8	WB 4303	Westbred/Monsanto			62.0	78.3	59.4
9	TX12M4068*	TAMU			61.0	73.7	61.0
10	WB 4269	Westbred/Monsanto			58.8	68.9	59.8
11	WB 4515	Westbred/Monsanto			57.6	78.5	64.0
12	SY Flint	Syngenta			53.1	74.1	62.2
13	TAM 304 (1.8 million seeds/a)	Scott Seed				85.1	58.2
14	TX12V7415*	TAMU				81.5	63.1
15	WB 4418	Westbred/Monsanto				79.8	60.8
16	TAM 304 (750,000 seeds/a)	Scott Seed				79.7	60.1
17	TX13A001169*	TAMU				78.4	61.4
18	SY Razor**	Syngenta				77.4	61.4
19	TX13M5625*	TAMU				77.2	61.6
20	TX12A001638*	TAMU				77.1	64.1
21	TAM 304 (450,000 seeds/a)	Scott Seed				76.1	58.0
22	TAM 304 (1.3 million seeds/a)	Scott Seed				75.3	59.6
LSD (0.05)			4.5	5.1	6.3	9.0	2.0
CV (%)			10.7	12.2	9.7	6.1	2.0
Mean			52.4	44.5	58.5	78.2	61.1

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2014, 2015, 2017, and 2018 data.

[§]Purified seed source for TAM 304 used in 2018.

2018 Uniform Wheat Variety Trial: HRWW, Hillsboro, TX

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)	Protein (%)
			4-year [‡]	3-year	2-year	2018	2018	2018
1	WB Cedar	Westbred/Monsanto	70.8	76.6	75.9	89.1	61.0	11.0
2	TAM 114	Adaptive Genetics	67.6	74.3	73.3	83.9	61.7	10.9
3	TAM 304P18 [§]	TAMU-Purified Seed Source	66.6	72.5	67.0	90.9	59.4	10.6
4	TAM 204**	Watley Seeds	64.9	68.7	60.8	88.5	57.5	11.6
5	Fannin	Syngenta	55.0	59.0	56.8	67.5	61.3	12.1
6	WB 4303	Westbred/Monsanto			75.0	93.1	59.0	10.7
7	WB 4515	Westbred/Monsanto			58.2	77.0	62.7	11.1
8	SY Razor**	Syngenta			46.4	77.6	62.7	12.4
9	TAM W-101	TAMU			41.3	58.1	59.5	12.6
10	TAM 304 (1.3 million seeds/a)	Scott Seed				92.6	59.3	10.4
11	TX12M4068*	TAMU				89.2	62.0	11.9
12	TX13M5625*	TAMU				88.6	60.6	10.9
13	TAM 304 (1.8 million seeds/a)	Scott Seed				87.9	59.5	11.0
14	TAM 304 (750,000 seeds/a)	Scott Seed				86.5	59.3	10.9
15	WB 4418	Westbred/Monsanto				86.4	60.7	11.2
16	TX12V7415*	TAMU				84.1	63.0	11.4
17	TX12A001638*	TAMU				83.4	63.0	11.4
18	SY Flint	Syngenta				82.4	61.7	11.0
19	TX13A001169*	TAMU				81.8	60.5	12.2
20	WB 4269	Westbred/Monsanto				79.9	60.4	11.0
21	TX11A001295*	TAMU				76.9	62.7	11.8
22	TAM 304 (450,000 seeds/a)	Scott Seed				75.8	58.6	11.7
LSD (0.05)			6.4	6.4	9.1	9.1	1.0	1.2
CV (%)			12.9	9.9	12.5	6.7	1.0	6.6
Mean			65.0	71.0	61.6	82.8	60.7	11.4

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2014, 2015, 2016, and 2018 data.

[§]Purified seed source for TAM 304 used in 2018.

2018 Uniform Wheat Variety Trial: HRWW, McGregor, TX

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-year [‡]	3-year	2-year	2018	2018
1	WB Cedar	Westbred/Monsanto	50.4	49.3	49.3	69.3	59.4
2	TAM 304P18 [§]	TAMU-Purified Seed Source	49.1	51.0	58.8	69.5	58.2
3	TAM 114	Adaptive Genetics	45.3	41.8	41.9	68.0	60.9
4	TAM 204**	Watley Seeds	41.4	38.4	40.4	57.4	55.7
5	Fannin	Syngenta	37.1	38.2	37.9	49.0	60.4
6	TAM W-101	TAMU	28.9	25.3	31.2	49.6	60.0
7	WB 4303	Westbred/Monsanto		54.1	57.0	78.0	58.9
8	WB 4515	Westbred/Monsanto		40.5	46.5	65.8	61.8
9	WB 4269	Westbred/Monsanto			55.4	74.5	59.3
10	TX12M4068*	TAMU			51.7	69.6	61.5
11	TX11A001295*	TAMU			46.4	69.1	62.8
12	SY Flint	Syngenta			44.1	65.5	60.5
13	WB 4418	Westbred/Monsanto				78.5	60.1
14	TX13M5625*	TAMU				72.0	60.2
15	TX13A001169*	TAMU				70.3	59.8
16	TX12A001638*	TAMU				68.1	63.7
17	TAM 304 (450,000 seeds/a)	Scott Seed				67.8	58.0
18	TAM 304 (750,000 seeds/a)	Scott Seed				67.2	58.9
19	TX12V7415*	TAMU				66.1	62.7
20	TAM 304 (1.3 million seeds/a)	Scott Seed				62.5	58.1
21	TAM 304 (1.8 million seeds/a)	Scott Seed				61.0	58.0
22	SY Razor**	Syngenta				60.3	61.9
LSD (0.05)			3.9	4.4	4.5	6.5	0.8
CV (%)			10.5	10.1	7.4	5.9	0.8
Mean			41.9	42.2	46.5	66.3	60.0

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2014, 2016, 2017, and 2018 data.

[§]Purified seed source for TAM 304 used in 2018.

2018 Uniform Wheat Variety Trial: HRWW, Muenster, TX

Rank [†]	Variety	Source	Yield (bu/a)		Test Wt (lb/bu)	
			3-year [‡]	2-year	2018	2018
1	WB Cedar	Westbred/Monsanto	48.0	52.1	63.6	60.3
2	TAM 304P18 [§]	TAMU-Purified Seed Source	42.3	53.8	70.0	60.6
3	TAM 114	Adaptive Genetics	40.1	47.2	70.5	61.4
4	WB 4303	Westbred/Monsanto	39.5	47.9	65.7	58.2
5	WB 4515	Westbred/Monsanto	38.1	43.7	58.6	60.5
6	TAM 204**	Watley Seeds	37.8	46.0	69.1	55.2
7	Fannin	Syngenta	37.8	42.7	54.9	61.8
8	TAM W-101	TAMU	33.0	40.9	60.3	59.1
9	TX11A001295*	TAMU		51.9	72.1	61.8
10	WB 4269	Westbred/Monsanto		50.2	64.4	60.0
11	TX12M4068*	TAMU		49.5	69.2	61.0
12	SY Flint	Syngenta		46.7	65.2	61.4
13	TX13M5625*	TAMU			83.1	60.7
14	TX13A001169*	TAMU			78.6	61.2
15	TX12A001638*	TAMU			70.3	62.8
16	TAM 304 (1.8 million seeds/a)	Scott Seed			67.9	59.6
17	TAM 304 (1.3 million seeds/a)	Scott Seed			66.8	60.0
18	SY Razor**	Syngenta			64.5	61.6
19	TAM 304 (450,000 seeds/a)	Scott Seed			63.2	59.3
20	WB 4418	Westbred/Monsanto			61.9	61.1
21	TAM 304 (750,000 seeds/a)	Scott Seed			61.8	60.1
22	TX12V7415*	TAMU			56.3	61.4
LSD (0.05)			7.6	8.8	14.7	1.1
CV (%)			19.9	15.9	13.4	1.1
Mean			39.7	47.7	66.3	60.4

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2016, 2017, and 2018 data.

[§]Purified seed source for TAM 304 used in 2018.

2018 Uniform Wheat Variety Trial: HRWW & SRWW, Thrall, TX

Rank [†]	Variety	Class [¶]	Source	Yield (bu/a)				Test Wt (lb/bu)	Protein (%)
				4-year [‡]	3 year	2 year	2018	2018	2018
1	TAM 304 (750,000 seed/a)	HRWW	Scott Seed	55.5	55.6	60.0	83.0	60.0	11.9
2	WB Cedar	HRWW	Westbred/Monsanto	54.3	57.7	61.1	68.5	61.4	11.8
3	TAM 401**	HRWW	TAMU	46.2	50.6	51.9	52.5	58.6	13.6
4	TAM 305	HRWW	TAMU	45.1	46.1	44.2	46.8	61.5	13.4
5	Greer	HRWW	Syngenta	44.1	47.1	46.5	58.2	60.3	12.9
6	Fannin	HRWW	Syngenta	42.9	39.0	38.5	44.0	62.1	13.7
7	TAM 114	HRWW	Adaptive Genetics		48.9	48.0	75.3	61.2	10.5
8	TAM 204**	HRWW	Watley Seeds		48.5	48.7	75.9	57.2	11.5
9	AGS 2055	SRWW	AgSouth Genetics				97.8	60.3	10.8
10	LA14066DH-88*	SRWW	LSU				97.5	60.1	11.2
11	LA14066DH-64*	SRWW	LSU				88.2	61.1	11.8
12	TAM 304 (1.8 million seed/a)	HRWW	Scott Seed				87.7	60.4	11.7
13	TX-EL2*	SRWW	TAMU				85.7	60.1	11.1
14	WB4418	HRWW	Westbred/Monsanto				83.4	60.8	11.1
15	USG 3120	SRWW	UniSouth Genetics				82.9	61.8	11.1
16	#FURY**	SRWW	Progeny Seed				82.0	61.5	11.8
17	TAM 304 (450,000 seed/a)	HRWW	Scott Seed				80.4	60.6	11.7
18	AGS 2038	SRWW	AgSouth Genetics				79.8	61.5	11.0
19	TX12M4068*	HRWW	TAMU				79.3	62.1	13.1
20	TAM 304 (1.3 million seed/a)	HRWW	Scott Seed				77.9	60.5	12.2
21	GO Wheat 2032	SRWW	Stratton Seed				77.6	62.2	11.8
22	TX13M5625*	HRWW	TAMU				76.6	60.6	13.2
23	SY Flint	HRWW	Syngenta				73.4	60.3	10.6
24	AGS 3000	SRWW	AgSouth Genetics				70.4	62.1	11.4
25	AGS 2024	SRWW	AgSouth Genetics				68.6	60.7	12.1
26	WB 4303 (450,000 seed/a)	HRWW	Westbred/Monsanto				66.1	59.7	12.7
27	WB 4303 (750,000 seed/a)	HRWW	Westbred/Monsanto				64.6	59.3	12.0
28	WB 4269	HRWW	Westbred/Monsanto				60.9	61.4	12.3
29	TX13A001169*	HRWW	TAMU				60.2	61.0	13.2
30	Dyna-Gro Savoy**	SRWW	Dyna-Gro				58.0	60.9	11.6
31	WB 4303 (1.3 million seed/a)	HRWW	Westbred/Monsanto				55.3	59.2	12.2
32	WB 4303 (1.8 million seed/a)	HRWW	Westbred/Monsanto				55.3	58.5	12.9
33	GO Wheat LA754	SRWW	Stratton Seed				51.2	60.3	12.4
34	SY Razor**	HRWW	Syngenta				51.1	62.5	12.9
35	TX12A001638*	HRWW	TAMU				50.8	62.7	12.8
36	TX12V7415*	HRWW	TAMU				45.4	60.3	13.7
37	WB 4515	HRWW	Westbred/Monsanto				42.3	60.5	13.5
38	TX11A001295*	HRWW	TAMU				35.3	60.8	13.3
39	TAM W-101	HRWW	TAMU				35.2	55.0	13.9
LSD (0.05)				3.8	3.9	6.5	18.1	1.2	0.7
CV (%)				10.0	8.4	10.3	12.9	1.4	4.1
Mean				49.1	50.1	51.5	67.5	60.6	12.2

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2013, 2014, 2015, and 2018 data.

[¶]HRWW: Hard Red Winter Wheat; SRWW: Soft Red Winter Wheat

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2018 Uniform Wheat Variety Trial: HRWW & SRWW, Thrall, TX

Rank [†]	Variety	Class [¶]	Source	Yield (bu/a)			
				AVG	Intensive [‡]	Standard [§]	Difference
1	LA14066DH-88*	SRWW	LSU	99.2	101.8	97.5	4.3
2	AGS 2055	SRWW	AgSouth Genetics	94.8	93.8	97.8	-4.0
3	TAM 304 (1.8 million seed/a)	HRWW	TAMU	90.5	93.3	87.7	5.6
4	TAM 204**	HRWW	Watley Seeds	89.5	103.1	75.9	27.2
5	WB4418	HRWW	Westbred/Monsanto	88.8	94.2	83.4	10.9
6	LA14066DH-64*	SRWW	LSU	86.7	85.2	88.2	-3.0
7	TAM 304 (450,000 seed/a)	HRWW	Scott Seed	86.6	92.8	80.4	12.4
8	TAM 304 (750,000 seed/a)	HRWW	Scott Seed	83.7	84.5	83.0	1.6
9	TX-EL2*	SRWW	TAMU	83.7	81.8	85.7	-3.9
10	TX12M4068*	HRWW	TAMU	81.8	84.4	79.3	5.2
11	GO Wheat 2032	SRWW	Stratton Seed	81.1	84.6	77.6	7.0
12	AGS 2038	SRWW	AgSouth Genetics	80.7	81.7	79.8	1.9
13	TAM 304 (1.3 million seed/a)	HRWW	Scott Seed	80.7	83.5	77.9	5.6
14	TAM 114	HRWW	Adaptive Genetics	79.7	84.1	75.3	8.8
15	WB Cedar	HRWW	Westbred/Monsanto	78.6	88.8	68.5	20.4
16	TX13M5625*	HRWW	TAMU	77.1	77.7	76.6	1.2
17	SY Flint	HRWW	Syngenta	76.8	80.2	73.4	6.9
18	#FURY**	SRWW	Progeny Seed	76.4	70.9	82.0	-11.1
19	USG 3120	SRWW	UniSouth Genetics	76.1	69.2	82.9	-13.7
20	TX13A001169*	HRWW	TAMU	74.8	89.4	60.2	29.2
21	Dyna-Gro Savoy**	SRWW	Dyna-Gro	73.2	88.4	58.0	30.4
22	AGS 3000	SRWW	AgSouth Genetics	72.2	74.1	70.4	3.7
23	WB 4303 (450,000 seed/a)	HRWW	Westbred/Monsanto	70.0	73.9	66.1	7.8
24	WB 4303 (750,000 seed/a)	HRWW	Westbred/Monsanto	66.3	71.2	64.6	6.6
25	WB 4269	HRWW	Westbred/Monsanto	65.5	70.1	60.9	9.2
26	AGS 2024	SRWW	AgSouth Genetics	63.9	59.3	68.6	-9.3
27	SY Razor**	HRWW	Syngenta	60.2	69.4	51.1	18.3
28	WB 4303 (1.8 million seed/a)	HRWW	Westbred/Monsanto	59.1	63.0	55.3	7.7
29	Greer	HRWW	Syngenta	58.1	58.0	58.2	-0.2
30	GO Wheat LA754	SRWW	Stratton Seed	57.9	64.7	51.2	13.6
31	TAM 401**	HRWW	TAMU	56.3	60.1	52.5	7.6
32	WB 4303 (1.3 million seed/a)	HRWW	Westbred/Monsanto	55.2	55.1	55.3	-0.3
33	TX12A001638*	HRWW	TAMU	50.3	49.8	50.8	-1.0
34	WB 4515	HRWW	Westbred/Monsanto	49.9	57.5	42.3	15.2
35	Fannin	HRWW	Syngenta	47.8	51.6	44.0	7.6
36	TX12V7415*	HRWW	TAMU	43.8	42.2	45.4	-3.2
37	TAM 305	HRWW	TAMU	41.1	39.2	46.8	-7.6
38	TX11A001295*	HRWW	TAMU	38.0	45.8	35.3	10.5
39	TAM W-101	HRWW	TAMU	31.6	27.9	35.2	-7.3
LSD (0.05)				13.3	20.8	18.1	--
CV (%)				13.5	13.8	12.9	--
Mean				70.6	73.6	67.5	5.7

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to average yield across management treatments.

[‡]Intensive Input treatment received 105 lb/a N total and fungicide at topdress (Tilt @ 4 oz/a) and again at flag leaf (Quilt Xcel 14 oz/a).

[§]Standard input treatment received 70 lb/a N total and no fungicides.

[¶]HRWW: Hard Red Winter Wheat; SRWW: Soft Red Winter Wheat

2018 Uniform Wheat Variety Trial: SRWW, Blacklands Regional Summary

Rank [†]	Entry	Source	Yield (bu/a)					Test Wt (lb/bu)
			4-loc AVG	3-loc AVG [‡]	Greenville	Hillsboro	McGregor	Muenster
								2018
1	Dyna-Gro TV8861	Dyna-Gro Seeds	92.5	90.4	102.0	94.3	86.7	90.3
2	USG 3458	UniSouth Genetics	92.4	90.6	100.3	101.5	84.9	85.5
3	Dyna-Gro 9811	Dyna-Gro Seeds	87.3	84.6	95.3	89.2	79.5	85.1
4	GA08113-15EL8*	Univ. Georgia	87.3	84.0	97.0	97.2	76.1	78.8
5	TX-EL2*	TAMU	86.9	84.7	93.3	98.6	73.7	81.9
6	#Bullet	Progeny Seed	86.7	84.0	94.6	94.0	75.0	83.1
7	USG 3536	UniSouth Genetics	86.0	85.6	87.2	93.2	72.0	91.7
8	GoWheat 2032	Go-Wheat	85.9	83.7	92.5	94.6	77.2	79.3
9	AGS 2055	AgSouth Genetics	85.9	85.1	88.1	89.9	77.9	87.6
10	USG 3895	UniSouth Genetics	85.7	81.2	98.9	89.3	82.0	72.4
11	PGX16-4*	Progeny Seed	85.2	83.4	100.7	93.0	72.8	84.5
12	#BOSS	Progeny Seed	85.1	81.7	95.3	96.9	73.7	74.5
13	PGX16-7*	Progeny Seed	84.9	82.2	97.0	95.3	79.1	72.2
14	AGS 3040**	AgSouth Genetics	83.8	82.8	88.4	88.6	70.8	88.9
15	Dyna-Gro 9701	Dyna-Gro Seeds	83.6	82.8	86.9	88.4	74.9	85.2
16	Dyna-Gro 9012	Dyna-Gro Seeds	82.7	79.5	92.2	85.4	73.6	79.6
17	LA08080C-31-1*	LSU	82.3	78.2	94.7	89.9	82.7	61.9
18	AGS 2024	AgSouth Genetics	82.3	78.9	92.3	87.0	80.4	69.3
19	ARLA06146E-1-4*	Univ. Arkansas	81.6	78.1	97.2	83.9	74.6	75.9
20	LA09225C-33-3*	LSU	81.1	80.1	84.1	88.0	78.6	73.7
21	TX15D9385*	TAMU	80.2	76.0	92.7	89.8	70.7	67.5
22	AGS 2038	AgSouth Genetics	79.3	76.8	86.7	83.4	72.8	74.2
23	Dyna-Gro Savoy**	Dyna-Gro Seeds	79.2	78.0	90.8	84.4	75.3	74.2
24	GA08535-15LE29*	Univ. Georgia	79.0	74.6	92.1	90.5	67.0	66.2
25	LA13235LDH-40*	LSU	78.9	77.7	83.9	88.3	71.9	73.0
26	USG 3120	UniSouth Genetics	78.6	73.6	93.6	86.5	65.9	68.3
27	FLLA10033C-6*	Univ. Florida	78.3	73.7	92.4	86.5	71.0	63.5
28	TX15D9647*	TAMU	77.9	75.2	89.8	100.4	65.0	60.4
29	GA081446-15EL47*	Univ. Georgia	77.9	78.1	76.0	94.6	70.6	68.9
30	GA061471-15LE38*	Univ. Georgia	77.2	73.7	87.9	87.7	66.9	66.3
31	GoWheat LA754	Go-Wheat	74.7	70.8	86.5	81.3	60.0	71.0
32	LA01110D-150-241*	LSU	73.5	66.6	94.0	92.8	62.0	45.1
33	LA10070GHB-88*	LSU	71.6	66.5	86.9	85.3	58.5	55.7
34	AGS 3000	AgSouth Genetics	71.0	65.5	87.6	79.6	57.1	59.7
35	LA01110D-150-625*	LSU	68.9	61.3	91.7	78.6	60.3	44.9
36	LA12275LDH-128*	LSU	66.2	64.3	71.9	82.1	51.8	59.1
37	AGS 2040	AgSouth Genetics	62.7	58.7	80.9	70.7	54.2	51.1
38	#FURY**	Progeny Seed	--	82.9	--	97.2	78.9	72.6
39	#Turbo**	Progeny Seed	--	81.6	--	94.6	76.9	73.2
40	FLLA10204C-4*	Univ. Florida	--	69.3	--	77.7	64.7	65.7
LSD (0.05)			5.7	6.1	15.0	11.2	5.3	13.9
CV (%)			8.6	8.5	8.9	7.8	4.6	11.8
Mean			80.6	77.7	90.9	89.3	71.7	59.0

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-location, then 3-location yield average.

[‡]3-location average based on Hillsboro, McGregor, and Muenster data due to hog damage to awnless types at Greenville.

2018 Uniform Wheat Variety Trial: SRWW, Greenville, TX

Rank [†]	Entry	Source	Yield (bu/a)		Test Wt (lb/bu)	
			3-year [‡]	2-year	2018	2018
1	AGS 2055	AgSouth Genetics	83.2	76.7	88.1	56.9
2	AGS 2038	AgSouth Genetics	80.2	81.1	86.7	60.9
3	USG 3120	UniSouth Genetics	79.2	75.9	93.6	60.0
4	Dyna-Gro 9012	Dyna-Gro Seeds	77.2	69.2	92.2	60.6
5	AGS 2040	AgSouth Genetics	63.6	54.4	80.9	59.5
6	USG 3895	UniSouth Genetics		81.2	98.9	58.1
7	AGS 2024	AgSouth Genetics		79.0	92.3	59.8
8	TX-EL2*	TAMU		77.3	93.3	57.7
9	PGX16-4*	Progeny Seed		76.9	100.7	60.6
10	AGS 3000	AgSouth Genetics		71.8	87.6	60.5
11	Dyna-Gro Savoy**	Dyna-Gro Seeds		70.4	90.8	59.0
12	#Bullet	Progeny Seed		68.2	94.6	58.8
13	LA09225C-33-3*	LSU		66.9	84.1	60.3
14	USG 3536	UniSouth Genetics		65.8	87.2	58.5
15	#BOSS	Progeny Seed		62.5	95.3	57.7
16	Dyna-Gro 9701	Dyna-Gro Seeds		58.2	86.9	59.3
17	Dyna-Gro TV8861	Dyna-Gro Seeds			102.0	58.7
18	USG 3458	UniSouth Genetics			100.3	58.1
19	ARLA06146E-1-4*	Univ. Arkansas			97.2	60.7
20	PGX16-7*	Progeny Seed			97.0	58.6
21	GA08113-15EL8*	Univ. Georgia			97.0	59.2
22	Dyna-Gro 9811	Dyna-Gro Seeds			95.3	59.7
23	LA08080C-31-1*	LSU			94.7	59.6
24	LA01110D-150-241*	LSU			94.0	57.7
25	TX15D9385*	TAMU			92.7	58.7
26	GoWheat 2032	Go-Wheat			92.5	58.1
27	FLLA10033C-6*	Univ. Florida			92.4	59.4
28	GA08535-15LE29*	Univ. Georgia			92.1	59.5
29	LA01110D-150-625*	LSU			91.7	57.7
30	TX15D9647*	TAMU			89.8	58.4
31	AGS 3040**	AgSouth Genetics			88.4	60.3
32	GA061471-15LE38*	Univ. Georgia			87.9	59.2
33	LA10070GHB-88*	LSU			86.9	60.0
34	GoWheat LA754	Go-Wheat			86.5	57.6
35	LA13235LDH-40*	LSU			83.9	60.2
36	GA081446-15EL47*	Univ. Georgia			76.0	59.5
37	LA12275LDH-128*	LSU			71.9	59.4
38	FLLA10204C-4*	Univ. Florida			--	--
39	#FURY**	Progeny Seed			--	--
40	#Turbo**	Progeny Seed			--	--
LSD (0.05)			6.1	8.4	15.0	1.4
CV (%)			8.1	9.7	8.9	1.3
Mean			77.0	71.2	90.9	59.1

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2014, 2017, and 2018 data.

2018 Uniform Wheat Variety Trial: SRWW, Hillsboro, TX

Rank [†]	Entry	Source	Yield (bu/a)			Test Wt (lb/bu)	Protein (%)
			3-year [‡]	2-year	2018	2018	2018
1	AGS 2055	AgSouth Genetics	74.4	77.1	89.9	58.5	9.0
2	Dyna-Gro 9012	Dyna-Gro Seeds	68.3	63.5	85.4	60.5	9.6
3	AGS 2038	AgSouth Genetics	67.9	68.4	83.4	60.5	9.5
4	AGS 2040	AgSouth Genetics	60.5	63.9	70.7	61.6	10.8
5	GoWheat LA754	Go-Wheat	59.5	65.4	81.3	59.8	10.2
6	TX-EL2*	TAMU		82.0	98.6	59.1	10.4
7	USG 3895	UniSouth Genetics		80.9	89.3	57.7	10.6
8	AGS 2024	AgSouth Genetics		72.0	87.0	60.1	9.3
9	AGS 3000	AgSouth Genetics		68.1	79.6	60.8	10.8
10	USG 3458	UniSouth Genetics			101.5	56.8	9.1
11	TX15D9647*	TAMU			100.4	59.1	10.3
12	GA08113-15EL8*	Univ. Georgia			97.2	60.7	9.6
13	#FURY**	Progeny Seed			97.2	60.2	9.8
14	#BOSS	Progeny Seed			96.9	58.0	10.4
15	PGX16-7*	Progeny Seed			95.3	59.6	10.1
16	#Turbo**	Progeny Seed			94.6	58.9	10.0
17	GA081446-15EL47*	Univ. Georgia			94.6	61.0	10.3
18	GoWheat 2032	Go-Wheat			94.6	60.9	9.8
19	Dyna-Gro TV8861	Dyna-Gro Seeds			94.3	58.8	10.3
20	#Bullet	Progeny Seed			94.0	58.8	10.2
21	USG 3536	UniSouth Genetics			93.2	57.9	9.6
22	PGX16-4*	Progeny Seed			93.0	61.0	10.3
23	LA01110D-150-241*	LSU			92.8	59.5	11.3
24	GA08535-15LE29*	Univ. Georgia			90.5	60.3	9.3
25	LA08080C-31-1*	LSU			89.9	59.8	11.0
26	TX15D9385*	TAMU			89.8	59.4	10.6
27	Dyna-Gro 9811	Dyna-Gro Seeds			89.2	59.1	9.5
28	AGS 3040**	AgSouth Genetics			88.6	59.9	9.8
29	Dyna-Gro 9701	Dyna-Gro Seeds			88.4	59.3	10.1
30	LA13235LDH-40*	LSU			88.3	61.9	10.8
31	LA09225C-33-3*	LSU			88.0	59.4	10.0
32	GA061471-15LE38*	Univ. Georgia			87.7	60.1	10.1
33	FLLA10033C-6*	Univ. Florida			86.5	59.2	9.9
34	USG 3120	UniSouth Genetics			86.5	61.4	9.8
35	LA10070GHB-88*	LSU			85.3	60.7	10.9
36	Dyna-Gro Savoy**	Dyna-Gro Seeds			84.4	60.7	9.5
37	ARLA06146E-1-4*	Univ. Arkansas			83.9	61.3	10.4
38	LA12275LDH-128*	LSU			82.1	60.3	10.9
39	LA01110D-150-625*	LSU			78.6	60.5	11.4
40	FLLA10204C-4*	Univ. Florida			77.7	59.4	10.8
LSD (0.05)			5.3	9.3	11.2	1.0	1.1
CV (%)			8.2	11.1	7.8	1.0	6.4
Mean			66.1	71.3	89.3	59.8	10.2

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2014, 2016, and 2018 data.

2018 Uniform Wheat Variety Trial: SRWW, McGregor, TX

Rank [†]	Entry	Source	Yield (bu/a)		Test Wt (lb/bu)	
			3-year [‡]	2-year	2018	2018
1	USG 3895	UniSouth Genetics	65.8	64.3	82.0	56.8
2	AGS 2024	AgSouth Genetics	64.6	66.7	80.4	59.6
3	TX-EL2*	TAMU	61.3	62.2	73.7	58.0
4	AGS 2055	AgSouth Genetics	61.0	65.5	77.9	57.8
5	AGS 2038	AgSouth Genetics	60.3	61.4	72.8	59.5
6	AGS 3000	AgSouth Genetics	50.1	51.1	57.1	59.6
7	AGS 2040	AgSouth Genetics	49.9	48.6	54.2	59.6
8	Dyna-Gro 9012	Dyna-Gro Seeds	49.5	54.0	73.6	59.5
9	#FURY**	Progeny Seed		67.1	78.9	59.9
10	LA09225C-33-3*	LSU		62.8	78.6	58.5
11	Dyna-Gro 9701	Dyna-Gro Seeds		61.4	74.9	57.0
12	#Turbo**	Progeny Seed		60.1	76.9	57.3
13	#Bullet	Progeny Seed		59.2	75.0	56.8
14	USG 3536	UniSouth Genetics		55.1	72.0	57.1
15	PGX16-4*	Progeny Seed		54.0	72.8	59.9
16	USG 3120	UniSouth Genetics		51.6	65.9	60.0
17	#BOSS	Progeny Seed		50.8	73.7	57.2
18	Dyna-Gro Savoy**	Dyna-Gro Seeds		47.8	75.3	59.7
19	Dyna-Gro TV8861	Dyna-Gro Seeds			86.7	57.9
20	USG 3458	UniSouth Genetics			84.9	57.2
21	LA08080C-31-1*	LSU			82.7	59.0
22	Dyna-Gro 9811	Dyna-Gro Seeds			79.5	59.1
23	PGX16-7*	Progeny Seed			79.1	58.0
24	GoWheat 2032	Go-Wheat			77.2	59.0
25	GA08113-15EL8*	Univ. Georgia			76.1	58.6
26	ARLA06146E-1-4*	Univ. Arkansas			74.6	59.5
27	LA13235LDH-40*	LSU			71.9	60.7
28	FLLA10033C-6*	Univ. Florida			71.0	58.1
29	AGS 3040**	AgSouth Genetics			70.8	58.7
30	TX15D9385*	TAMU			70.7	58.1
31	GA081446-15EL47*	Univ. Georgia			70.6	59.2
32	GA08535-15LE29*	Univ. Georgia			67.0	59.2
33	GA061471-15LE38*	Univ. Georgia			66.9	59.7
34	TX15D9647*	TAMU			65.0	58.0
35	FLLA10204C-4*	Univ. Florida			64.7	58.4
36	LA01110D-150-241*	LSU			62.0	58.4
37	LA01110D-150-625*	LSU			60.3	58.7
38	GoWheat LA754	Go-Wheat			60.0	58.5
39	LA10070GHB-88*	LSU			58.5	58.7
40	LA12275LDH-128*	LSU			51.8	58.3
LSD (0.05)			3.5	5.3	5.3	0.8
CV (%)			5.6	7.2	4.6	0.8
Mean			57.8	58.0	71.7	58.6

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2016, 2017, and 2018 data.

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2018 Uniform Wheat Variety Trial: SRWW, Muenster, TX

Rank [†]	Entry	Source	Yield (bu/a)		Test Wt (lb/bu)	
			3-year [‡]	2-year	2018	2018
1	AGS 2055	AgSouth Genetics	67.4	69.5	87.6	58.1
2	USG 3895	UniSouth Genetics	55.3	57.7	72.4	56.8
3	AGS 2024	AgSouth Genetics	55.1	56.0	69.3	60.3
4	AGS 2038	AgSouth Genetics	55.0	58.7	74.2	59.4
5	TX-EL2*	TAMU	49.9	56.4	81.9	57.2
6	AGS 3000	AgSouth Genetics	49.9	51.1	59.7	60.3
7	AGS 2040	AgSouth Genetics	45.6	40.9	51.1	60.0
8	Dyna-Gro 9012	Dyna-Gro Seeds	41.4	52.8	79.6	59.3
9	#Turbo**	Progeny Seed		65.4	73.2	57.4
10	PGX16-4*	Progeny Seed		64.9	84.5	59.2
11	Dyna-Gro Savoy**	Dyna-Gro Seeds		64.1	74.2	60.3
12	#Bullet	Progeny Seed		61.1	83.1	58.4
13	USG 3536	UniSouth Genetics		60.9	91.7	57.6
14	Dyna-Gro 9701	Dyna-Gro Seeds		59.4	85.2	57.2
15	#FURY**	Progeny Seed		58.4	72.6	59.5
16	USG 3120	UniSouth Genetics		48.7	68.3	59.2
17	LA09225C-33-3*	LSU		47.2	73.7	58.6
18	#BOSS	Progeny Seed		46.3	74.5	56.9
19	Dyna-Gro TV8861	Dyna-Gro Seeds			90.3	58.1
20	AGS 3040**	AgSouth Genetics			88.9	58.4
21	USG 3458	UniSouth Genetics			85.5	57.4
22	Dyna-Gro 9811	Dyna-Gro Seeds			85.1	56.6
23	GoWheat 2032	Go-Wheat			79.3	58.9
24	GA08113-15EL8*	Univ. Georgia			78.8	60.1
25	ARLA06146E-1-4*	Univ. Arkansas			75.9	59.1
26	LA13235LDH-40*	LSU			73.0	60.2
27	PGX16-7*	Progeny Seed			72.2	57.5
28	GoWheat LA754	Go-Wheat			71.0	58.7
29	GA081446-15EL47*	Univ. Georgia			68.9	59.0
30	TX15D9385*	TAMU			67.5	58.1
31	GA061471-15LE38*	Univ. Georgia			66.3	59.1
32	GA08535-15LE29*	Univ. Georgia			66.2	59.5
33	FLLA10204C-4*	Univ. Florida			65.7	57.3
34	FLLA10033C-6*	Univ. Florida			63.5	58.8
35	LA08080C-31-1*	LSU			61.9	59.8
36	TX15D9647*	TAMU			60.4	58.1
37	LA12275LDH-128*	LSU			59.1	58.9
38	LA10070GHB-88*	LSU			55.7	58.8
39	LA01110D-150-241*	LSU			45.1	57.8
40	LA01110D-150-625*	LSU			44.9	58.9
LSD (0.05)			6.6	8.0	13.9	1.1
CV (%)			12.5	12.2	11.8	1.2
Mean			52.4	56.6	72.1	58.6

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2016, 2017, and 2018 data.

2018 Uniform Wheat Variety Trial: HRWW vs SRWW, Blacklands Regional Summary

Rank [†]	Entry	Class	Source	Yield (bu/a)				Test Wt (lb/bu)
				3-loc AVG	Greenville	Howe	Leonard	2018
1	AGS 2055	SRWW	AgSouth Genetics	92.7	78.4	94.3	105.3	59.1
2	AGS 2038	SRWW	AgSouth Genetics	92.5	78.9	83.9	112.4	61.3
3	USG 3201	SRWW	UniSouth Genetics	92.4	77.5	89.9	110.3	61.0
5	USG 3536	SRWW	UniSouth Genetics	90.4	71.5	89.5	107.2	59.4
5	DG 9012	SRWW	Dyna-Gro Seeds	89.7	75.9	85.2	105.6	60.7
6	DG 9522	SRWW	Dyna-Gro Seeds	86.9	65.7	84.0	107.6	58.1
7	USG 3895	SRWW	UniSouth Genetics	86.5	66.8	90.2	99.2	58.2
8	DG 9171	SRWW	Dyna-Gro Seeds	85.8	70.0	83.9	100.8	57.3
9	TX-EL2*	SRWW	TAMU	84.1	75.4	83.2	94.0	59.4
10	SY Monument	HRWW	Syngenta	83.6	66.6	82.9	98.4	60.7
11	SY Grit	HRWW	Syngenta	79.3	68.5	75.3	92.3	60.8
12	Gallagher	HRWW	OSU	79.2	69.9	72.0	94.1	61.4
13	Coker 9553	SRWW	Syngenta	77.9	69.0	77.5	87.3	61.3
14	TAM 305	HRWW	TAMU	75.3	67.0	70.9	86.8	61.2
15	WB 4269	HRWW	Westbred	75.0	59.7	75.9	86.9	60.1
16	Greer	HRWW	Syngenta	74.4	65.6	72.8	83.5	60.0
17	WB 4515	HRWW	Westbred	71.4	66.0	62.8	84.4	61.5
LSD (0.05)				9.0	7.0	5.6	7.0	1.2
CV (%)				16.0	7.9	6.0	6.1	2.9
Mean				83.3	70.1	80.8	97.3	60.1

*Experimental breeding line.

[†]Varieties ranked according to 3-location yield average.

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2018 Uniform Wheat Variety Trial: HRWW vs SRWW, Greenville, TX

Rank [†]	Entry	Class	Source	Yield (bu/a)			Test Wt (lb/bu)
				3-year [‡]	2-year	2018	2018
1	Coker 9553	SRWW	Syngenta	59.8	59.4	69.0	61.9
2	USG 3201	SRWW	UniSouth	58.3	58.6	77.5	60.6
3	SY Monument	HRWW	Syngenta	54.8	59.9	66.6	60.7
5	Gallagher	HRWW	OSU	53.9	58.5	69.9	61.6
5	TAM 305	HRWW	TAMU	52.3	59.4	67.0	61.7
6	Greer	HRWW	Syngenta	46.3	48.5	65.6	60.7
7	AGS 2055	SRWW	AgSouth Genetics		65.8	78.4	58.8
8	USG 3895	SRWW	UniSouth		62.2	66.8	57.6
9	TX-EL2*	SRWW	TAMU		60.8	75.4	58.6
10	USG 3536	SRWW	UniSouth		56.8	71.5	59.4
11	DG 9012	SRWW	Dyna-Gro Seeds		56.1	75.9	60.4
12	SY Grit	HRWW	Syngenta		49.5	68.5	60.5
13	DG 9171	SRWW	Dyna-Gro Seeds		49.2	70.0	57.2
14	AGS 2038	SRWW	AgSouth Genetics			78.9	60.6
15	WB 4515	HRWW	Westbred			66.0	62.3
16	DG 9522	SRWW	Dyna-Gro Seeds			65.7	57.5
17	WB 4269	HRWW	Westbred			59.7	60.0
LSD (0.05)				4.2	4.5	7.0	1.0
CV (%)				11.1	9.1	7.9	1.3
Mean				54.2	5.2	70.1	60.0

*Experimental breeding line.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2015, 2017, and 2018 data.

2018 Uniform Wheat Variety Trial: HRWW vs SRWW, Howe, TX

Rank [†]	Entry	Class	Source	Yield (bu/a)				Test Wt (lb/bu)
				4-year [‡]	3-year	2-year	2018	2018
1	Coker 9553	SRWW	Syngenta	56.3	60.6	59.3	77.5	60.1
2	USG 3201	SRWW	UniSouth Genetics	52.7	59.5	60.0	89.9	59.5
3	Gallagher	HRWW	OSU	51.2	55.3	57.8	72.0	59.2
5	TAM 305	HRWW	TAMU	47.1	52.6	59.9	70.9	58.9
5	Greer	HRWW	Syngenta	37.5	42.8	48.8	72.8	57.7
6	DG 9012	SRWW	Dyna-Gro Seeds		56.5	55.3	85.2	59.3
7	DG 9171	SRWW	Dyna-Gro Seeds		52.1	51.9	83.9	55.6
8	AGS 2055	SRWW	AgSouth Genetics			82.4	94.3	56.8
9	USG 3895	SRWW	UniSouth Genetics			67.7	90.2	56.9
10	SY Monument	HRWW	Syngenta			64.4	82.9	59.0
11	TX-EL2*	SRWW	TAMU			62.6	83.2	58.2
12	USG 3536	SRWW	UniSouth Genetics			61.1	89.5	57.9
13	SY Grit	HRWW	Syngenta			54.9	75.3	59.3
14	DG 9522	SRWW	Dyna-Gro Seeds				84.0	56.9
15	AGS 2038	SRWW	AgSouth Genetics				83.9	59.9
16	WB 4269	HRWW	Westbred				75.9	57.7
17	WB 4515	HRWW	Westbred				62.8	58.7
	LSD (0.05)			2.9	2.8	3.5	5.6	0.7
	CV (%)			10.5	7.9	7.3	6.0	1.0
	Mean			49.0	54.2	60.5	80.8	58.3

*Experimental breeding line.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2015, 2016, 2017, and 2018 data.

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2018 Uniform Wheat Variety Trial: HRWW vs SRWW, Leonard, TX

Rank [†]	Entry	Class	Source	Yield (bu/a)				Test Wt (lb/bu)
				4-year [‡]	3-year	2-year	2018	2018
1	USG 3201	SRWW	UniSouth Genetics	74.2	84.4	83.2	110.3	62.8
2	Coker 9553	SRWW	Syngenta	65.0	72.1	68.2	87.3	62.2
3	TAM 305	HRWW	TAMU	61.4	71.5	75.1	86.8	63.2
5	Gallagher	HRWW	OSU	60.4	69.2	76.1	94.1	63.4
5	Greer	HRWW	Syngenta	60.1	69.4	69.3	83.5	61.8
6	DG 9012	SRWW	Dyna-Gro Seeds		83.6	81.6	105.6	62.3
7	DG 9171	SRWW	Dyna-Gro Seeds		75.1	72.0	100.8	59.1
8	USG 3536	SRWW	UniSouth Genetics			87.6	107.2	61.0
9	AGS 2055	SRWW	AgSouth Genetics			86.1	105.3	61.4
10	USG 3895	SRWW	UniSouth Genetics			85.8	99.2	60.0
11	TX-EL2*	SRWW	TAMU			80.1	94.0	61.1
12	SY Monument	HRWW	Syngenta			79.1	98.4	62.5
13	SY Grit	HRWW	Syngenta			67.3	92.3	62.6
14	AGS 2038	SRWW	AgSouth Genetics				112.4	63.0
15	DG 9522	SRWW	Dyna-Gro Seeds				107.6	59.8
16	WB 4269	HRWW	Westbred				86.9	62.7
17	WB 4515	HRWW	Westbred				84.4	63.7
LSD (0.05)				2.6	3.0	4.2	7.0	0.7
CV (%)				7.0	6.0	6.5	6.1	1.0
Mean				64.1	75.0	77.7	97.3	61.9

*Experimental breeding line.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2015, 2016, 2017, and 2018 data.

Texas Locations Agronomic Data

South Texas: 2018

Location ¹	Cooperator(s)	Yield Limiting Issues	Planting Date	Fertilizer (Total lb N/A)	Water*	Pesticide Applied (Date)
Castroville	Rollin Mangold	None	11/13/17	70	IL	None
College Station	Texas A&M University Research Farm	Lodging due to rain and hog damage	11/7/17	70	IL	Herbicide (Ally and Amber) 1/30/18
Nueces County	Texas A&M AgriLife Research	Severe drought; DATA NOT SHOWN	1/9/18	91	D	None
Uvalde	Texas A&M AgriLife Research and Extension Center	None	11/16/17	64.5	IL	Herbicide (Amber and MCPE) 2/12/18
Wharton	Howard and Dolly Wittig	Bird Damage; DATA NOT SHOWN	11/17/17	60	D	Herbicide (Amber and MCPE) 2/20/18

¹All locations were conventionally tilled and planted on 7-inch row spacing. Standard seeding rate was 750,000 seed per acre for winter wheat and 1.2 million seed per acre for spring wheat.

*Irrigation: IL = Irrigated Limited, D = Dryland

2018 Uniform Wheat Variety Trial: HRWW & SRWW, South Texas Regional Summary

Rank [†]	Variety	Class	Source	Yield (bu/a)				Test Wt (lb/bu)	Protein (%)
				AVG	Castroville	Thrall	Uvalde	2018	2018
1	LA14066DH-88*	SRWW	LSU	70.4	60.0	97.5	68.4	58.8	11.2
2	LA14066DH-64*	SRWW	LSU	65.5	64.2	88.2	65.6	59.5	11.5
3	AGS 2055	SRWW	AgSouth Genetics	62.4	59.3	97.8	68.4	59.7	12.2
4	AGS 2024	SRWW	AgSouth Genetics	62.1	66.3	68.6	68.1	59.8	12.2
5	TX-EL2*	SRWW	TAMU	61.7	51.8	85.7	70.8	58.2	11.2
6	#FURY**	SRWW	Progeny Seed	60.5	51.9	82.0	69.6	60.4	12.0
7	USG 3120	SRWW	UniSouth Genetics	60.4	55.0	82.9	64.5	60.0	11.2
8	AGS 2038	SRWW	AgSouth Genetics	60.0	55.1	79.8	65.8	60.4	11.9
9	TAM 304	HRWW	Scott Seed	58.8	54.1	64.6	60.5	58.1	12.0
10	GO Wheat 2032	SRWW	Stratton Seed	58.7	52.9	77.6	66.0	60.0	12.3
11	TX13M5625*	HRWW	TAMU	58.4	52.2	76.6	66.8	59.5	13.6
12	WB 4418	HRWW	Westbred/Monsanto	58.2	52.6	83.4	59.7	59.6	11.2
13	Dyna-Gro Savoy**	SRWW	Dyna-Gro	57.4	63.4	58.0	64.9	60.3	12.5
14	WB 4303 (1.8 million seed/a)	HRWW	Westbred/Monsanto	55.8	63.0	55.3	62.4	58.9	12.8
15	WB Cedar	HRWW	Westbred/Monsanto	55.3	49.6	68.5	64.6	59.3	11.5
16	WB 4303 (1.3 million seed/a)	HRWW	Westbred/Monsanto	54.7	62.0	55.3	59.8	58.7	12.7
17	Gallagher	HRWW	OSU	54.5	45.8	101.2	60.6	60.1	13.3
18	WB 4269	HRWW	Westbred/Monsanto	54.4	48.5	60.9	71.3	59.8	11.9
19	WB 4303 (750,000 seed/a)	HRWW	Westbred/Monsanto	54.2	57.8	64.6	51.0	58.3	12.2
20	TX12M4068*	HRWW	TAMU	52.9	41.6	79.3	59.5	60.2	14.5
21	TX13A001169*	HRWW	TAMU	52.6	49.2	60.2	64.8	59.9	13.2
22	WB 4303 (450,000 seed/a)	HRWW	Westbred/Monsanto	52.3	54.5	66.1	52.1	58.7	11.9
23	AGS 3000	SRWW	AgSouth Genetics	50.6	39.7	70.4	61.6	60.0	11.7
24	TX12V7415*	HRWW	TAMU	50.2	49.3	45.4	68.9	60.2	13.2
25	TAM 305	HRWW	Scott Seed	49.9	52.8	46.8	61.1	60.7	12.2
26	TX12A001638*	HRWW	TAMU	49.0	46.1	50.8	64.7	62.2	12.5
27	GO Wheat LA754	SRWW	Stratton Seed	48.5	47.9	51.2	60.2	58.6	12.9
28	Greer	HRWW	Syngenta	48.3	41.9	58.2	61.3	58.7	12.4
29	TX11A001295*	HRWW	TAMU	46.1	51.1	35.3	65.9	61.0	13.1
30	TAM 204**	HRWW	Watley Seed	44.9	21.2	75.9	61.0	54.7	11.4
31	Fannin	HRWW	Syngenta	36.1	27.2	44.0	50.7	61.6	12.7
32	TAM W-101	HRWW	TAMU	33.4	30.8	35.2	44.3	57.5	13.4
LSD (0.05)				6.7	12.1	19.7	8.5	1.1	0.9
CV (%)				12.4	14.6	13.9	8.4	1.8	5.9
Mean				54.3	50.6	67.0	62.4	59.5	12.3

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 3-location yield average.

2018 Uniform Wheat Variety Trial: HRWW & SRWW, Castroville, TX

Rank [†]	Variety	Class	Source	Yield (bu/a)				Test Wt (lb/bu)
				4-year [‡]	3-year	2-year	2018	2018
1	TAM 304	HRWW	Scott Seed	57.1	50.8	30.3	54.1	56.1
2	Gallagher	HRWW	OSU	54.0	50.1	27.7	45.8	58.4
3	TAM 305	HRWW	Scott Seed	53.4	50.2	29.5	52.8	59.0
4	Greer	HRWW	Syngenta	49.8	48.2	28.6	41.9	56.6
5	Fannin	HRWW	Syngenta	39.8	34.1	15.2	27.2	59.5
6	TAM W-101	HRWW	TAMU	37.8	33.7	17.1	30.8	55.9
7	WB Cedar	HRWW	Westbred/Monsanto		48.9	25.2	49.6	56.2
8	TAM 204**	HRWW	Watley Seeds		35.8	13.6	21.2	50.1
9	WB 4303 (750,000 seed/a)	HRWW	Westbred/Monsanto			35.1	57.8	56.6
10	TX12M4068*	HRWW	TAMU			27.2	41.6	58.1
11	TX11A001295*	HRWW	TAMU			26.0	51.1	59.6
12	AGS 2024	SRWW	AgSouth Genetics				66.3	59.3
13	LA14066DH-64*	SRWW	LSU				64.2	58.9
14	Dyna-Gro Savoy**	SRWW	Dyna-Gro				63.4	59.3
15	WB 4303 (1.8 million seed/a)	HRWW	Westbred/Monsanto				63.0	58.7
16	WB 4303 (1.3 million seed/a)	HRWW	Westbred/Monsanto				62.0	58.1
17	LA14066DH-88*	SRWW	LSU				60.0	57.6
18	AGS 2055	SRWW	AgSouth Genetics				59.3	58.4
19	AGS 2038	SRWW	AgSouth Genetics				55.1	58.7
20	USG 3120	SRWW	UniSouth Genetics				55.0	57.7
21	WB 4303 (450,000 seed/a)	HRWW	Westbred/Monsanto				54.5	57.2
22	GO Wheat 2032	SRWW	Stratton Seed				52.9	57.1
23	WB 4418	HRWW	Westbred/Monsanto				52.6	56.9
24	TX13M5625*	HRWW	TAMU				52.2	57.3
25	#FURY**	SRWW	Progeny Seed				51.9	58.4
26	TX-EL2*	SRWW	TAMU				51.8	57.2
27	TX12V7415*	HRWW	TAMU				49.3	59.2
28	TX13A001169*	HRWW	TAMU				49.2	58.4
29	WB 4269	HRWW	Westbred/Monsanto				48.5	58.4
30	GO Wheat LA754	SRWW	Stratton Seed				47.9	57.2
31	TX12A001638*	HRWW	TAMU				46.1	59.8
32	AGS 3000	SRWW	AgSouth Genetics				39.7	58.3
LSD (0.05)				4.9	5.1	5.0	12.1	2.3
CV (%)				12.3	12.2	17.0	14.6	2.2
Mean				48.7	44.0	25.0	50.6	57.9

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2011, 2014, 2017, and 2018 data.

2018 Uniform Wheat Variety Trial: HRWW & SRWW, Uvalde, TX

Rank [†]	Variety	Species	Source	Yield (bu/a)				Test Wt (lb/bu)	Protein (%)
				4-year [‡]	3-year	2-year	2018	2018	2018
1	Greer	HRWW	Syngenta	50.9	60.4	45.2	61.3	59.3	12.2
2	Gallagher	HRWW	OSU	50.5	57.7	56.5	60.6	60.9	14.2
3	TAM 304	HRWW	Scott Seed	49.0	57.7	51.5	60.5	59.3	12.6
4	TAM 204**	HRWW	Watley Seeds	48.3	54.4	47.2	61.0	55.1	11.7
5	TAM 305	HRWW	Scott Seed	46.0	52.7	38.8	61.1	61.7	11.9
6	WB Cedar	HRWW	Westbred/Monsanto	38.9	44.5	33.4	64.6	61.1	11.7
7	TAM W-101	HRWW	TAMU	31.0	30.8	25.3	44.3	59.9	13.5
8	Fannin	HRWW	Syngenta	27.5	31.0	25.3	50.7	61.8	12.5
9	TX12M4068*	HRWW	TAMU			54.0	59.5	61.1	15.3
10	WB 4303 (750,000 seed/a)	HRWW	Westbred/Monsanto			40.5	51.0	59.0	12.7
11	TX11A001295*	HRWW	TAMU			33.0	65.9	63.2	12.6
12	WB 4269	HRWW	Westbred/Monsanto				71.3	60.4	11.8
13	TX-EL2*	SRWW	TAMU				70.8	58.2	11.3
14	#FURY**	SRWW	Progeny Seed				69.6	62.7	12.6
15	TX12V7415*	HRWW	TAMU				68.9	60.3	12.9
16	AGS 2055	SRWW	AgSouth Genetics				68.4	60.3	12.5
17	LA14066DH-88*	SRWW	LSU				68.4	59.3	11.6
18	AGS 2024	SRWW	AgSouth Genetics				68.1	60.0	12.5
19	TX13M5625*	HRWW	TAMU				66.8	61.3	14.1
20	GO Wheat 2032	SRWW	Stratton Seed				66.0	61.1	12.3
21	AGS 2038	SRWW	AgSouth Genetics				65.8	61.6	12.5
22	LA14066DH-64*	SRWW	LSU				65.6	59.1	11.7
23	Dyna-Gro Savoy**	SRWW	Dyna-Gro				64.9	61.1	12.7
24	TX13A001169*	HRWW	TAMU				64.8	60.8	13.3
25	TX12A001638*	HRWW	TAMU				64.7	63.7	12.3
26	USG 3120	SRWW	UniSouth Genetics				64.5	60.9	11.3
27	WB 4303 (1.8 million seed/a)	HRWW	Westbred/Monsanto				62.4	59.8	12.9
28	AGS 3000	SRWW	AgSouth Genetics				61.6	60.6	11.9
29	GO Wheat LA754	SRWW	Stratton Seed				60.2	59.0	13.7
30	WB 4303 (1.3 million seed/a)	HRWW	Westbred/Monsanto				59.8	59.3	13.1
31	WB 4418	HRWW	Westbred/Monsanto				59.7	61.0	11.7
32	WB 4303 (450,000 seed/a)	HRWW	Westbred/Monsanto				52.1	59.3	11.7
LSD (0.05)				5.0	5.1	4.2	8.5	1.9	1.3
CV (%)				14.0	10.8	8.7	8.4	1.8	6.5
Mean				43.0	49.0	41.1	62.4	60.3	12.5

*Experimental breeding line.

**Awnless variety.

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2018 yield averages.

[‡]4-year average based on 2012, 2014, 2017, and 2018 data.

2018 Uniform Wheat Variety Trial: HRSW, South Texas Regional Summary

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			AVG	Castroville	College Station	Uvalde	2018
1	LCS Trigger (1.75 million seed/a)	Limagrain	62.0	62.8	71.2	46.8	58.6
2	LCS Trigger (1.0 million seed/a)	Limagrain	56.3	53.7	72.9	35.2	57.6
3	LCS Trigger (1.25 million seed/a)	Limagrain	56.2	47.0	72.4	45.7	58.0
4	LCS Trigger (1.5 million seed/a)	Limagrain	55.6	51.0	65.0	48.3	58.1
5	LCS Trigger (750,000 seed/a)	Limagrain	51.0	45.1	60.4	46.0	57.8
6	TAMsp 801	TAMU	48.8	38.1	64.0	42.1	59.2
7	TX17spCAS009*	TAMU	48.7	43.6	57.5	43.3	58.9
8	Expresso (1.5 million seed/a)	Westbred/Monsanto	48.6	45.5	52.7	45.5	59.7
9	Expresso (1.75 million seed/a)	Westbred/Monsanto	47.7	44.6	53.9	43.3	58.3
10	LCS Trigger (500,000 seed/a)	Limagrain	45.7	45.6	56.9	29.1	58.2
11	TX17spCAS012*	TAMU	45.5	44.6	48.1	42.8	56.6
12	Expresso (750,000 seed/a)	Westbred/Monsanto	43.7	35.6	51.7	43.9	58.7
13	Expresso (1.0 million seed/a)	Westbred/Monsanto	43.2	31.3	57.0	40.2	58.3
14	WB 9662	Westbred/Monsanto	42.1	37.5	50.9	35.9	58.4
15	LCS Rebel	Limagrain	41.8	36.2	52.6	34.0	59.5
16	TX17spCAS007*	TAMU	41.3	35.0	50.1	37.5	60.2
17	Expresso (1.25 million seed/a)	Westbred/Monsanto	39.3	38.8	46.1	29.7	57.8
18	WB 9668	Westbred/Monsanto	39.0	27.0	52.3	37.7	59.9
19	Expresso (500,000 seed/a)	Westbred/Monsanto	38.4	30.4	50.1	33.0	58.2
20	WB 9518	Westbred/Monsanto	36.9	38.9	30.7	43.2	58.7
21	WB 9411	Westbred/Monsanto	35.1	26.3	46.8	30.8	58.2
LSD (0.05)			7.4	11.3	13.4	12.0	1.3
CV (%)			16.0	16.3	14.4	14.4	2.2
Mean			46.1	41.0	55.4	39.6	58.5

*Experimental breeding line.

[†]Varieties ranked according to 3-location yield average.

2018 Uniform Wheat Variety Trial: HRSW, Castroville, TX

Rank [†]	Variety	Source	Yield (bu/a)		Test Wt (lb/bu)	Protein (%)
			2-year [‡]	2018	2018	2018
1	LCS Trigger (1.25 million seed/a)	Limagrain	42.4	47.0	57.6	14.3
2	WB 9518	Westbred/Monsanto	36.7	38.9	57.5	16.2
3	Expresso (1.25 million seed/a)	Westbred/Monsanto	36.5	38.8	54.5	16.3
4	TAMsp 801	TAMU	36.1	38.1	58.5	13.9
5	WB 9411	Westbred/Monsanto	26.7	26.3	57.3	16.4
6	LCS Trigger (1.75 million seed/a)	Limagrain		62.8	56.2	14.3
7	LCS Trigger (1.0 million seed/a)	Limagrain		53.7	58.3	14.1
8	LCS Trigger (1.5 million seed/a)	Limagrain		51.0	56.7	14.2
9	LCS Trigger (500,000 seed/a)	Limagrain		45.6	58.0	14.3
10	Expresso (1.5 million seed/a)	Westbred/Monsanto		45.5	58.5	16.3
11	LCS Trigger (750,000 seed/a)	Limagrain		45.1	58.0	14.1
12	TX17spCAS012*	TAMU		44.6	58.3	13.5
13	Expresso (1.75 million seed/a)	Westbred/Monsanto		44.6	55.3	17.0
14	TX17spCAS009*	TAMU		43.6	57.7	13.5
15	WB 9662	Westbred/Monsanto		37.5	57.3	16.2
16	LCS Rebel	Limagrain		36.2	58.1	15.7
17	Expresso (750,000 seed/a)	Westbred/Monsanto		35.6	57.9	16.2
18	TX17spCAS007*	TAMU		35.0	59.4	16.6
19	Expresso (1.0 million seed/a)	Westbred/Monsanto		31.3	57.3	16.3
20	Expresso (500,000 seed/a)	Westbred/Monsanto		30.4	56.9	16.3
21	WB 9668	Westbred/Monsanto		27.0	59.9	17.3
LSD			9.7	11.3	2.5	0.5
CV			20.3	16.3	2.5	2.1
Mean			35.8	41.0	57.5	15.3

*Experimental breeding line.

[†]Varieties ranked according to 2-year, then 2018 yield averages.

[‡]2-year average based on 2017 and 2018 data.

2018 Uniform Wheat Variety Trial: HRSW, College Station, TX

Rank [†]	Variety	Source	Yield	Test Wt	Protein
			(bu/a)	(lb/bu)	(%)
			2018	2018	2018
1	LCS Trigger (1.0 million seed/a)	Limagrain	72.9	54.5	13.6
2	LCS Trigger (1.25 million seed/a)	Limagrain	72.4	56.1	13.6
3	LCS Trigger (1.75 million seed/a)	Limagrain	71.2	57.5	13.2
4	LCS Trigger (1.5 million seed/a)	Limagrain	65.0	56.9	12.6
5	TAMsp 801	TAMU	64.0	57.7	13.7
6	LCS Trigger (750,000 seed/a)	Limagrain	60.4	55.1	13.0
7	TX17spCAS009*	TAMU	57.5	57.3	12.3
8	Expresso (1.0 million seed/a)	Westbred/Monsanto	57.0	57.6	16.2
9	LCS Trigger (500,000 seed/a)	Limagrain	56.9	55.8	13.3
10	Expresso (1.75 million seed/a)	Westbred/Monsanto	53.9	58.6	15.7
11	Expresso (1.5 million seed/a)	Westbred/Monsanto	52.7	58.3	15.4
12	LCS Rebel	Limagrain	52.6	58.6	15.3
13	WB 9668	Westbred/Monsanto	52.3	58.8	16.1
14	Expresso (750,000 seed/a)	Westbred/Monsanto	51.7	57.7	16.2
15	WB 9662	Westbred/Monsanto	50.9	57.4	16.6
16	TX17spCAS007*	TAMU	50.1	59.4	15.1
17	Expresso (500,000 seed/a)	Westbred/Monsanto	50.1	57.4	16.6
18	TX17spCAS012*	TAMU	48.1	55.8	13.6
19	WB 9411	Westbred/Monsanto	46.8	57.1	14.4
20	Expresso (1.25 million seed/a)	Westbred/Monsanto	46.1	58.4	15.9
21	WB 9518	Westbred/Monsanto	30.7	57.3	15.8
LSD (0.05)			13.4	2.1	1.0
CV (%)			14.4	2.1	4.0
Mean			55.4	57.3	14.7

*Experimental breeding line.

[†]Varieties ranked according to 2018 yield averages.

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2018 Uniform Wheat Variety Trial: HRSW, Uvalde, TX

Rank [†]	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)	Protein (%)
			3-year [‡]	2-year	2018	2018	2018
1	LCS Trigger (1.25 million seed/a)	Limagrain	57.2	49.1	45.7	61.6	12.2
2	WB 9518	Westbred/Monsanto	47.5	41.2	43.2	61.8	15.3
3	Expresso (1.25 million seed/a)	Westbred/Monsanto	45.4	38.2	29.7	62.0	15.4
4	TAMsp 801	TAMU	45.0	36.2	42.1	62.5	12.9
5	WB 9411	Westbred/Monsanto	41.9	33.3	30.8	61.2	14.3
6	LCS Trigger (1.5 million seed/a)	Limagrain			48.3	62.1	12.4
7	LCS Trigger (1.75 million seed/a)	Limagrain			46.8	62.6	12.8
8	LCS Trigger (750,000 seed/a)	Limagrain			46.0	61.4	12.9
9	Expresso (1.5 million seed/a)	Westbred/Monsanto			45.5	63.0	15.1
10	Expresso (750,000 seed/a)	Westbred/Monsanto			43.9	61.5	15.4
11	Expresso (1.75 million seed/a)	Westbred/Monsanto			43.3	62.3	14.8
12	TX17spCAS012*	TAMU			42.8	61.2	12.5
13	Expresso (1.0 million seed/a)	Westbred/Monsanto			40.2	62.3	15.3
14	WB 9668	Westbred/Monsanto			37.7	61.5	16.1
15	WB 9662	Westbred/Monsanto			35.9	61.5	15.4
16	LCS Trigger (1.0 million seed/a)	Limagrain			35.2	61.4	12.0
17	LCS Rebel	Limagrain			34.0	63.0	14.6
12	Expresso (500,000 seed/a)	Westbred/Monsanto			33.0	61.4	15.5
19	LCS Trigger (500,000 seed/a)	Limagrain			29.1	62.1	12.5
	LSD		5.8	3.8	12.0	0.8	0.5
	CV		12.6	7.9	14.4	0.6	1.7
	Mean		47.4	39.6	39.6	61.9	14.0

*Experimental breeding line.

[†]Varieties ranked according to 3-year, 2-year, then 2018 yield averages.

[‡]3-year average based on 2016, 2017, and 2018 data.

2018-19 Wheat Variety Distributor List^S

Variety	Class ^F	Seed Type ^T	Distributor	Address	Phone Number
AP503CL-2 ⁴	HRWW	R	3-B Farms	2009 Ute Trail, Dalhart	(806) 377-6176
Deliver ²	HRWW	C	Farmers Ag Supply, LLC	Box 395, Spearman	(806) 659-5000
		C	Igo & Igo Farms	209 Yucca Terrace, Plainview	(806) 889-3511
		C	Ward Seed, Gayland	US Hwy. 60, Hereford	(806) 258-7394
		C	Warner Seeds, Inc.	P.O. Box 1877, Hereford	(806) 364-4470
Duster ²	HRWW	C	Billy D Kittley JR DBA Kittley Seed	807 Sunny Ave., Rule	(940) 996-6089
Fannin	HRWW	C	Farmers Co-op Gin & Elevator	1901 Ackerly St., Vernon, TX	(940) 552-6277
Gallagher ²	HRWW	C,R	Harvest Master Seed Co.	Rt. 1 Box 52M, Knippa	(830) 934-2775
		C	Holubec, David	135 PR 555, Melvin	(325) 286-4284
		R	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
		R	Jacoby Feed & Seed	101 North Main St., Melvin, TX	(325) 286-4242
Greer ²	HRWW	C	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
Hatcher ²	HRWW	C	Kimbrell Partners, LLC	Box 888, Sunray	(806) 922-3276
HG-9 ²	HRWW	R,F	Louis Dreyfus Commodities LLC	444 FM 2006, Chillicothe	(940) 852-5118
Iba ²	HRWW	C	Bezner Partnership	1183 Bezner Lane, Texline	(806) 333-2774
LCS Chrome	HRWW	C	Holubec, David	135 PR 555, Melvin	(325) 286-4284
Long Branch	HRWW	C	Igo & Igo Farms	209 Yucca Terrace, Plainview	(806) 889-3511
Longhorn ²	HRWW	R	Igo & Igo Farms	209 Yucca Terrace, Plainview	(806) 889-3511
Smiths Gold	HRWW	R	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
		R	Harvest Master Seed Co.	Rt. 1 Box 52M, Knippa	(830) 934-2775
		C,R	Holubec, David	135 PR 555, Melvin	(325) 286-4284
		C,R	Jacoby Feed & Seed	101 North Main St., Melvin, TX	(325) 286-4242
		R	Billy D Kittley JR DBA Kittley Seed	807 Sunny Ave., Rule	(940) 996-6089
		C	Louis Dreyfus Commodities LLC	444 FM 2006, Chillicothe	(940) 852-5118
Spirit Rider ²	HRWW	R	Jacoby Feed & Seed	101 North Main St., Melvin, TX	(325) 286-4242
SY Achieve CL2	HRWW	C	3-B Farms	2009 Ute Trail, Dalhart	(806) 377-6176
SY Flint ¹	HRWW	R	3-B Farms	2009 Ute Trail, Dalhart	(806) 377-6176
		C,R	Bayer & Sons, J.H.	3307 Fm. 2739, Muenster	(940) 759-2924
		C	Farmers Co-op Gin & Elevator	1901 Ackerly St., Vernon, TX	(940) 552-6277
		C	Holubec, David	135 PR 555, Melvin	(325) 286-4284
SY Grit ²	HRWW	R	3-B Farms	2009 Ute Trail, Dalhart	(806) 377-6176
SY Monument ²	HRWW	R	3-B Farms	2009 Ute Trail, Dalhart	(806) 377-6176
		C	Louis Dreyfus Commodities LLC	444 FM 2006, Chillicothe	(940) 852-5118
		C	Seed-Tex	Box 203, New Castle	(940) 550-5888
		C	Beakley, Bob C.	1115 Sullivan Rd., Ennis, TX	(972) 646-5248
		C	Farmers Co-op Gin & Elevator	1901 Ackerly St., Vernon, TX	(940) 552-6277
		C	Farnsworth Seed	Box 253, Farnsworth, TX	(806) 435-4104
		F	3-B Farms	2009 Ute Trail, Dalhart	(806) 377-6176
SY Razor ²	HRWW	C	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
		C	Eastern Colorado Seeds, LLC.	P.O. Box 1448, Dumas	(844) 683-5868
		C	Ferti-Tex, LLC	1100 E Central Ave, Comanche	(325) 356-5460
		C	Igo & Igo Farms	209 Yucca Terrace, Plainview	(806) 889-3511
		R	Clinton Bayer & Son's LLC	3307 FM 2739, Muenster, TX	(940) 736-3039
		C	Muleshoe Ag Services	Box 381, Henrietta	(940) 529-6500
		C	Seed-Tex	Box 203, New Castle	(940) 550-5888
		C	Ward Seed, Gayland	US Hwy. 60, Hereford	(806) 258-7394
		C	Louis Dreyfus Commodities LLC	444 FM 2006, Chillicothe	(940) 852-5118
		C,R	West Gaines Seed, Inc.	Box 1020, Seminole	(432) 758-3628

2018-19 Wheat Variety Distributor List CONTINUED

Variety	Class ^T	Seed Type ^T	Distributor	Address	Phone Number
SY Rugged	HRWW	R	Clinton Bayer & Son's LLC	3307 FM 2739, Muenster, TX	(940) 736-3039
		C	Ferti-Tex, LLC	1100 E Central Ave, Comanche	(325) 356-5460
		C	Muleshoe Ag Services	Box 381, Henrietta	(940) 529-6500
		C	Seed-Tex	Box 203, New Castle	(940) 550-5888
SY Southwind ²	HRWW	F	3-B Farms	2009 Ute Trail, Dalhart	(806) 377-6176
SY Sunrise ²	HRWW	R	3-B Farms	2009 Ute Trail, Dalhart	(806) 377-6176
SY Viper ²	HRWW	C	Clinton Bayer & Son's LLC	3307 FM 2739, Muenster, TX	(940) 736-3039
TAM 111 ²	HRWW	C	Eastern Colorado Seeds, LLC.	P.O. Box 1448, Dumas	(844) 683-5868
		C	Ward Seed, Gayland	US Hwy. 60, Hereford	(806) 258-7394
		C	West Gaines Seed, Inc.	Box 1020, Seminole	(432) 758-3628
TAM 112 ²	HRWW	C,R	Watley Seed Company	Box 51, Spearman	(806) 659-3838
TAM 114 ²	HRWW	C	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
		C	Farmers Ag Supply, LLC	Box 395, Spearman	(806) 659-5000
		C	Seed-Tex	Box 203, New Castle	(940) 550-5888
		C	Justin Seed Co., Inc.	Box 6, Justin	(940) 648-2751
		C	Muleshoe Ag Services	Box 381, Henrietta	(940) 529-6500
		C	Watley Seed Company	Box 51, Spearman	(806) 659-3838
		C	Kimbrell Partners, LLC	Box 888, Sunray	(806) 922-3276
		C,R	Warner Seeds, Inc.	P.O. Box 1877, Hereford	(806) 364-4470
TAM 204 ²	HRWW	C	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
		C	Parker Farms	Box 749, Munday	(940) 422-4577
		C	Cen-Tex Seed & Delinting	1301 Old Hwy 77/81 S., Hillsboro	(254) 582-8314
		C	Haiduk, Harry P.	6202 McCoy, Amarillo	(806) 674-7110
		C	Holubec, David	135 PR 555, Melvin	(325) 286-4284
		C	Justin Seed Co., Inc.	Box 6, Justin	(940) 648-2751
		C	Scott Seed Co.	Box 1732, Hereford	(806) 364-3484
		F	Texas Ag Exp Station	11914 Hwy. 70, Vernon	(940) 552-6226
		C	Turner Seed Co., Bob	211 CR 151, Breckenridge	(800) 072-2861
		C	Ward Seed, Gayland	US Hwy. 60, Hereford	(806) 258-7394
		C	Warner Seeds, Inc.	P.O. Box 1877, Hereford	(806) 364-4470
		C,R,F	Watley Seed Company	Box 51, Spearman	(806) 659-3838
		C	West Gaines Seed, Inc.	Box 1020, Seminole	(432) 758-3628
TAM 304 ²	HRWW	F	Texas Ag Exp Station	11914 Hwy. 70, Vernon	(940) 552-6226
		C	Cen-Tex Seed & Delinting	1301 Old Hwy 77/81 S., Hillsboro	(254) 582-8314
		C,R	Scott Seed Co.	Box 1732, Hereford	(806) 364-3484
TAM 305 ²	HRWW	C	Cen-Tex Seed & Delinting	1301 Old Hwy 77/81 S., Hillsboro	(254) 582-8314
		R	Scott Seed Co.	Box 1732, Hereford	(806) 364-3484
		F	Texas Ag Exp Station	11914 Hwy. 70, Vernon	(940) 552-6226
Underwood ²	HRWW	C	Igo & Igo Farms	209 Yucca Terrace, Plainview	(806) 889-3511
WB4269	HRWW	C	Cen-Tex Seed & Delinting	1301 Old Hwy 77/81 S., Hillsboro	(254) 582-8314
		F	Monsanto	P.O. Box 417, Dumas	(806) 935-5623
WB4303	HRWW	C	Cen-Tex Seed & Delinting	1301 Old Hwy 77/81 S., Hillsboro	(254) 582-8314
WB4458 ²	HRWW	C	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
WB4515	HRWW	C	Holubec, David	135 PR 555, Melvin	(325) 286-4284
WB4721	HRWW	C	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
WB-Cedar	HRWW	C	Cen-Tex Seed & Delinting	1301 Old Hwy 77/81 S., Hillsboro	(254) 582-8314
		C	Kimbrell Partners, LLC	Box 888, Sunray	(806) 922-3276
		C	Steven Beakley	817 Bassinger Rd., Ennis	(214) 808-1910

2018-19 Wheat Variety Distributor List CONTINUED

Variety	Class [†]	Seed Type [†]	Distributor	Address	Phone Number
Winterhawk ¹	HRWW	C	Abilene Ag Service & Supply, Inc.	303 South 14th St., Abilene	(325) 677-4371
		C	Ward Seed, Gayland	US Hwy. 60, Hereford	(806) 258-7394
Espresso ¹	HRSW	C,F	Atkison Seed & Supply	Box 656, Comfort	(830) 995-2186
		C	King Co., Douglass W.	Box 200320, San Antonio	(210) 661-4191
SY Goliad ²	HRSW	F	Pogue Agri Partners	Drawer 389, Kenedy	(830) 583-3456
WB9518	HRSW	C	King Co., Douglass W.	Box 200320, San Antonio	(210) 661-4191
Coker 9553 ²	SRWW	C	Bayer & Sons, J.H.	3307 Fm. 2739, Muenster	(940) 759-2924

[§] Information obtained from the 2018 Spring Seed Directory

¹This variety is protected by the **United States Plant Variety Protection Act**. Must have consent of owner for propagation.

²This variety is protected by **Title V of the Federal Seed Act. Unauthorized Propagation Prohibited**
Protected Variety - To Be Sold By Variety Name Only as a Class of Certified Seed – U.S.

³This variety will be grown under the **Single Seed Use Agreement**.

⁴This variety is **Patent Protected**.

[†] HRWW = Hard Red Winter Wheat, SRWW = Soft Red Winter Wheat, HRSW = Hard Red Spring Wheat

[†] C = Certified seed, R = Registered seed, F = Foundation seed

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