

# 2023 Texas Small Grains Variety Trial Results



2023

# Texas Small Grains Variety Trials

[varietytesting.tamu.edu](http://varietytesting.tamu.edu)

## Texas A&M AgriLife Extension Service

Russ Garetson, Reagan Noland, Jourdan Bell, Calvin Trostle, Emi Kimura,  
David Drake, Jonathan Ramirez, Brandon Gerrish

## Texas A&M AgriLife Research- Amarillo

Jackie Rudd, Jason Baker, Shannon Baker, Carla Naylor

## Texas A&M AgriLife Research- College Station

Amir Ibrahim, Bryan Simoneaux, Geraldine Opena, Daniel Hathcoat

## Texas A&M AgriLife Research- Commerce

Russell Sutton

## Texas A&M- Commerce

Amy Braley

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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) and Soft Red Winter Wheat (SRWW).

During the 2022-23 wheat production season, Texas producers planted 6.4 million acres of wheat and harvested 2.0 million acres for grain. (National Agricultural Statistics Service, NASS).

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 and disease 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 2023-24 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 20<sup>th</sup> 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 A&M AgriLife “Texas Row Crops Newsletter”

Posting at <https://agrilife.org/texasrowcrops/>, check ‘Previous Articles’

Calvin Trostle, Ph.D., Professor & Extension Agronomist, TAMU Dept. of Soil & Crop Sciences,  
Lubbock, (806) 746-6101, [ctrostle@ag.tamu.edu](mailto:ctrostle@ag.tamu.edu)

David Drake, Ph.D., Integrated Pest Management Extension Agent, Hunt Co., Commerce, (903)  
468-3295, [david.drake@ag.tamu.edu](mailto:david.drake@ag.tamu.edu)

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### **Certified Seed Only (CSO) and Plant Variety Protection Act: Wheat Varieties**

*What farmers can and cannot do regarding saving grain for planting seed*

In the past few years, many if not most wheat seed companies have implemented additional protections on many if not most of their wheat varieties. This includes limiting planting to Certified Seed Only (CSO). This means a CSO variety can only be planted in certified seed form, which must be purchased from the developer or their licensees and designated seed dealers. This is an effort to better recapture the cost of developing and releasing a new wheat variety with the most recent breeding improvements. The development cost can be several million dollars per released variety. Wheat breeding programs potentially make tens of thousands of observations and thousands of crosses through many generations over multiple locations to find one cultivar that will be released (Fig. 1). This is an expensive, time-consuming process.



**Fig. 1.** An advanced replicated Texas A&M AgriLife Research wheat breeding nursery at Bushland, TX, June 2023. This field is an intermediate step between initial single plant breeding crosses/single row plots vs. broad regional testing at many sites leading to final selection of a cultivar for release as a new variety. (Photo courtesy Shannon Baker.)

As a condition of the farmer’s purchase of a CSO variety farmers must sign a Stewardship Agreement with the variety developer. The key agreement condition is the farmer may NOT

save any grain as seed for planting a future crop. This is a contractual matter, not a regulatory or legal matter (unless the variety also has a utility patent, see below). The developer of a CSO variety who finds a farmer in violation of a CSO agreement has the right to seek civil recourse through the court system. If a farmer is unwilling to agree to CSO terms, then they simply should not purchase a CSO variety. Fortunately, there are other good non-CSO variety choices.

Some university breeding programs including Colorado State (via their PlainsGold brand) also have adopted CSO on some varieties. Currently no AgriLife TAM varieties are CSO but there is no assurance this provision may remain in the future.

## **The Historical Plant Variety Protection Act (PVPA)**

Texas farmers are likely somewhat familiar with seed law in the form of PVPA. In wheat, PVPA allows a farmer to save grain from a variety they have purchased. They may condition/treat the amount of seed he/she can reasonably expect to plant the next cropping season from their saved grain. It is illegal to sell this saved grain to anyone else as planting seed without permission of the developer. Relabeling a PVPA variety as 'VNS, variety not stated' and selling it to another party is also prohibited. For a 2005 AgriLife Extension review of PVPA see <https://varietytesting.tamu.edu/wp-content/uploads/sites/17/legacy-files/wheat/docs/plantvarietyprotectionact.pdf>

Texas A&M AgriLife will be updating the above previous guide on wheat and PVPA for the 2023 wheat planting season.

### Utility patent

Texas A&M AgriLife agricultural law Extension specialist Tiffany Dowell-Lashmet has blogged about PVPA vs. another form of seed protection, the utility patent. You can read the blog at <https://agrilife.org/texasaglaw/files/2022/01/Overview-of-Seed-Saving-Laws.pdf> (Nov 2021). A utility patent, though more expensive than PVPA, is a stronger protection of 20 years on the developer's intellectual property. Dr. Bryan Gensch, executive director, Texas Seed Trade Association, notes that utility patents are more comprehensive and expensive to implement than standard PVPA. The main advantage is the U.S. court system more widely and readily recognizes—"understands"—the long history of patent protection in contrast to the few recent decades of PVPA.

Most wheat variety developers may also use utility patents as a means to govern the use and reuse of their varieties. A utility patent is not a requirement to designate a variety as CSO, which could simply be the developer's conditions for purchase and enforcement of a contractual agreement for no saved seed. A utility patent, however, would provide a stronger legal basis for requiring and enforcing a CSO grower agreement. Utility patents, PVPA, and

contractual developer/grower agreements rely on the seed developer (intellectual property owner) to enforce infringements through civil courts.



One recent example of an apparent violation of CSO in Texas was revealed in an AgriLife grower variety survey estimated that there were >20,000 acres of a specific wheat variety planted. Yet a company representative share they sold only 8,000 to 9,000 units (about one unit per acre for seeding). This suggests that farmers were saving seed in violation of their Stewardship Agreement. If caught, a farmer can face major civil penalties well beyond the actual value of the seed.

### **Planting Choice of CSO Seed vs. Saving PVPA Seed**

Varieties with CSO designation may cost a little more to plant than other purchased varieties (certified or not). But they likely represent the best genetics a company or university seed program has to offer and may have utility patent traits such as CoAXiom® herbicide tolerance. It is possible farmers will likely not choose CSO varieties for drought-prone dryland regions. Saving seed under PVPA for on-farm use is one way to reduce economic risk for drier, low-yielding environments.

Texas A&M AgriLife does not endorse or discourage saving of seed under PVPA for your own use. We do encourage farmers to ensure good quality seed if saving grain for planting. This includes high germination (>95%) and a test weight or >58 lbs./bu (60 lbs./bu is standard). As a general rule of thumb, we suggest farmers using legal seed saving, consider switching out to certified seed after saving seed twice (purchase certified seed every third year). In general Texas A&M AgriLife agrees with the adage “Certified seed doesn’t cost, it pays.” Certified seed more likely ensures genetic purity, strong germination and seedling vigor, and minimal risk of seed-borne disease, or contaminant weed seed.

As of this writing companies we are aware of marketing some or most of their seed under CSO conditions include:

- WestBred (Bayer)
- SY and AgriPro brands (Syngenta)
- Dyna-Gro
- Croplan
- PlainsGold (Colorado State Univ.)
- LCS (LimaGrain)
- Agri-South Genetics

This list may not be complete. Check with your seed supplier. If you choose a CSO please read fully the Stewardship Agreement. Again, currently no Texas A&M AgriLife “TAM” varieties are CSO.

## **Elevator-Run Seed Legality (Not!)**

Can a farmer purchase bulk wheat grain from an elevator and use it as planting seed? Legally, the answer is 'No.' There will likely be many PVPA varieties (including all TAM lines) and some CSO varieties commingled together and from many different fields. It is possible the farmer knows that much of that grain is TAM varieties like 113, 114, 115, etc. That intent is a violation of federal seed law. This has been established in landmark court cases including a Corn Belt example where a farmer bought elevator-run soybeans knowing the soybean grain would be Roundup Ready. Monsanto took the farmer to court and won their case. The farmer's attempt to circumvent seed law and save some money ultimately cost him many fold more than he would have saved.

You don't have to guess. Texas A&M AgriLife would never recommend this practice, even if all you wanted was wheat seed to plant for basic ground cover. Elevator-run seed is not genetically pure, has no assurance of seed quality, and could contain seed-borne diseases that could derive from just one variety in any of 20 or more fields in that elevator bin. These are not problems you want to bring home to your farm.

## **Final Consideration for CSO Wheat Varieties**

Our intent is for Texas farmers to become more aware of the impetus for CSO wheat varieties. The decision is yours if you want to plant one on your farm. CSO varieties from most of the companies listed above are among Texas A&M AgriLife Picks for the planting season (see <http://lubbock.tamu.edu/wheat>) Ask your preferred seed dealer if the variety you are interested in is CSO. Review the Stewardship Agreement. Then make your decision. If you routinely do not save grain to plant as seed in the next wheat crop, then CSO may be a moot point.

## **Does "Certified Seed Only" Apply to Other Small Grains?**

I am not aware of CSO in other small grains with one exception (triticale). All are grown in Texas as seed blocks under developer/company supervision. Wheat and rye are the two small grains that are routinely used in cover crops.

- Oats. Significant Texas acres are harvested for grain and also hay. Oats are not grazed much.
- Barley. There are a few hundred acres grown in the Texas High Plains for grain for malting. Another High Plains elevator contracts a few thousand acres for grain for dairies. Barley is otherwise sometimes planted due to its tolerance to salty soils and salty irrigation water.
- Rye. Grown a little for hay but mostly as a cover crop.

- Triticale. This small grain is a cross between rye and wheat. It is grown mostly for silage. Some nearly beardless triticale varieties (including the TriCal brand) have a company stewardship agreement with growers does not permit saving seed.

### **For Further Information**

- Certified Seed and the Laws on “Brown Bagging.” (~2021) Texas Foundation Seed Service (a unit of Texas A&M AgriLife Research), [https://foundationseed.tamu.edu/?page\\_id=114](https://foundationseed.tamu.edu/?page_id=114).
- Edwards, J. (2017). Farmer-Saved Wheat Seed in Oklahoma: Questions and Answers. (2017). PSS-2139. Oklahoma State Univ. Extension.

## 2023-2024 Texas Wheat Picks List

Courtesy Texas A&M Dept. of Soil & Crop Sciences (Coordinated and summarized by Dr. Calvin Trostle)

High Plains Picks List			N. Rolling Plains Grain Picks	Abilene/Concho Valley	Blacklands/NE Texas Picks List		South Texas Picks List		
Dryland	Limited Irrigation	Full Irrigation	Dryland	Picks List	HRWW	SRWW†	HRWW	SRWW	HRSW
TAM 113	TAM 114	TAM 114	WB4792¶	WB4792¶	TAM 304	GW 6000	Limited	Limited	Limited
	TAM 115		WB4595¶	*WB4595¶	Gallagher	Dyna-Gro 9811	results	results	results
*TAM 116Δ	*TAM 116Δ	*TAM 116Δ	TAM 115	*TAM 115	WB4418¶	*GW 2032	for past	for past	for past
TAM 205	TAM 205	TAM 205	Bob Dole	TAM 114	Bob Dole		3 years.	3 years.	3 years.
WB4792¶	WB4792¶	WB4792¶	TAM 205	TAM 205					
*Canvas				Gallagher			Call for	Call for	Call for
	*CP7017AX¶	*CP7017AX¶	<b>Watch</b>	*Bob Dole			details.	details.	details.
		SY Wolverine	*Dyna-Gro 7322Δ‡						
High Plains Watch List			N. Rolling Plains <u>Dual Purpose</u> Picks	Abilene/Concho Valley Watch List	Blacklands/NE Texas Watch List		South Texas Watch List		
Dryland	Limited Irrigation	Full Irrigation	Dryland		HRWW	SRWW	HRWW	HRSW	SRWW
Kivari AX¶	Kivari AX¶	Monarch¶∞	WB4792¶	*TAM 116Δ	*Butler's Gold	*Dyna-Gro 9332			
	Monarch¶∞		WB4595¶	Green Hammer	WB4523¶	AGS 3022			
			Green Hammer	*Showdown		*DG 1800			
			*TAM 205						

\*New Pick, 2023-2024. ΔNew release, little seed. ¶Certified Seed Only (CSO). License bars saving own seed for planting. †Soft red winter wheat. ∞Hard white winter wheat. ‡Beardless.

Texas A&M AgriLife Extension, in collaboration with our wheat breeding program colleagues in Texas A&M AgriLife Research, highlights these wheat varieties to producers. Wheat Picks are based on a minimum of three years of data (and at least two years for a 'Watch List' designation) over multiple regional locations. These wheat varieties are not strictly a list of recommended wheat grain varieties. But given the data, these are varieties we would choose to include on our farm. If you are planting other varieties, and you like them, continue to plant them. But consider trying one of these regional varieties on some of your acres, especially a variety that complements your other wheat variety's maturity and insect/disease resistances.

For further information, view Texas A&M AgriLife wheat info. at <http://varietytesting.tamu.edu/wheat> or contact these individuals/Center websites:

- Texas Panhandle: Dr. Jourdan Bell, Extension agronomist, Amarillo, (806) 677-5600, [jourdan.bell@ag.tamu.edu](mailto:jourdan.bell@ag.tamu.edu), <http://amarillo.tamu.edu>
- Texas South Plains: Dr. Calvin Trostle, Extension agronomist, Lubbock, (806) 777-0247, [ctrostle@ag.tamu.edu](mailto:ctrostle@ag.tamu.edu), <http://lubbock.tamu.edu>
- Northern Rolling Plains: Dr. Emi Kimura, Extension agronomist, Vernon, (940) 552-9941, [emi.kimura@ag.tamu.edu](mailto:emi.kimura@ag.tamu.edu), <http://vernon.tamu.edu>
- Southern Rolling Plains/Concho Valley: Dr. Reagan Noland, Extension agronomist, San Angelo, (325) 657-7330, [reagan.noland@ag.tamu.edu](mailto:reagan.noland@ag.tamu.edu)
- Northeast Texas: Dr. David Drake, Extension IPM agent, Commerce, (325) 716-3364, [david.drake@ag.tamu.edu](mailto:david.drake@ag.tamu.edu)
- Central Texas/Blacklands: Dr. Brandon Gerrish, State Extension small grains specialist, College Station, (979) 845-3041, [brandon.gerrish@ag.tamu.edu](mailto:brandon.gerrish@ag.tamu.edu)
- South Texas: Dr. Joshua McGinty, Extension agronomist, Corpus Christi, (361) 265-9203, [joshua.mcginty@ag.tamu.edu](mailto:joshua.mcginty@ag.tamu.edu), <http://agrilife.org/coastalbend>

Variety	Previous Name	Company	Class <sup>1</sup>	Year Released	Maturity	Height	Winter Hardiness	Test Weight	Protein	Quality	Standability	Leaf <sup>2</sup> Rust	Stripe Rust	Stem Rust	Wheat Streak Mosaic	Soil-Borne Mosaic	Fusarium (Scab)	Hessian Fly
Amigos	TX15M8024	Adaptive Genetics	HRW	2023	Medium-Late	Tall	--	Good	--	Very Good	--	1	1	1	--	--	--	1
AP EverRock	--	AgriPro	HRW	2021	Medium Early	Medium Short	Very Good	Very Good	Acceptable	Very Good	Excellent	2	4	2	5	1	5	8
AP Prolific	--	AgriPro	HRW	2023	Medium	Medium	Very Good	Excellent	Acceptable	Acceptable	Good	2	2	2	4	1	4	8
AP Roadrunner	--	AgriPro	HRW	2021	Medium Late	Medium	Very Good	Good	Acceptable	Excellent	Good	2	2	8	4	1	7	3
Bob Dole	--	AgriPro	HRW	2018	Medium	Tall	Good	Very Good	Excellent	Excellent	Good	2	1	3	6	1	6	8
Breakthrough	--	Oklahoma State University	HRW	--	--	--	--	Excellent	Average	Acceptable	Very Good	7	7	--	2	1	--	8
Butlers Gold	--	Oklahoma State University	HRW	--	--	--	--	Excellent	Excellent	Excellent	Very Good	2	1	--	--	1	--	9
Canvas	--	PlainsGold	HRW	2018	Medium	Medium Short	--	Very Good	Good	Very Good	Excellent	6	3	2	3	--	--	--
CP7017AX	--	Croplan	HRW	--	Medium	Medium	Excellent	Good	Good	--	Very Good	5	3	1	--	--	1	--
Dyna-Gro 7322	TX14V70214	Nutrien	HRW**	2023	Medium	Medium-Tall	--	Good	--	Acceptable	--	1	4	1	--	1	--	9
Gallagher	OK07214	Oklahoma State University	HRW	2013	--	--	--	Good	Average	Excellent	Fair	3	4	--	--	1	--	2
Green Hammer	--	Oklahoma State University	HRW	2018	--	--	--	Very Good	Excellent	Excellent	Very Good	1	2	--	--	1	--	4
Guardian	--	PlainsGold	HRW	--	Medium	Medium	--	Excellent	Excellent	Very Good	Fair	4	3	2	1	--	--	--
High Cotton	OK18510	Oklahoma State University	HRW	2023	--	--	--	Very Good	Very Good	Acceptable	Very Good	3	2	--	--	1	--	8
Kivari AX	--	PlainsGold	HRW	2020	Medium Early	Medium	--	Good	Fair	Very Good	Fair	8	8	--	3	--	--	--
LCS Atomic AX	--	Limagrain	HRW	--	Early	Medium	Very Good	Good	--	Acceptable	Excellent	2	1	9	--	1	3	--
LCS Helix AX	--	Limagrain	HRW	--	Medium Early	Medium	Very Good	Excellent	--	Acceptable	Very Good	4	2	1	--	1	3	--
LCS Julep	--	Limagrain	HRW	--	Late	Medium Tall	Very Good	Good	--	Acceptable	Very Good	4	7	4	5	1	8	--
LCS Photon AX	--	Limagrain	HRW	--	Medium	Medium Tall	Very Good	Excellent	--	Desirable	Average	8	9	9	5	6	9	9
LCS Steel AX	--	Limagrain	HRW	--	Late	Medium Tall	Excellent	Very Good	--	Desirable	Excellent	2	8	8	--	1	1	9
Monarch	--	PlainsGold	HWW	2018	Medium	Medium Short	--	Good	Fair	Very Good	Excellent	5	5	2	4	--	--	--
OK Corral	--	Oklahoma State University	HRW	--	--	--	--	Average	Average	Very Good	Excellent	2	1	--	--	1	--	1
Showdown	--	Oklahoma State University	HRW	2018	--	--	--	Average	Average	Desirable	Good	5	1	--	--	1	--	1
Smith's Gold	--	Oklahoma State University	HRW	2017	--	--	--	Very Good	Good	Excellent	Good	5	1	--	--	1	--	2
SY Wolverine	--	AgriPro	HRW	2019	Medium Early	Medium Short	Very Good	Very Good	Good	Acceptable	Excellent	2	6	2	4	1	7	8
TAM 111	--	AgriPro	HRW	2003	Medium	Medium	--	Excellent	--	--	Good	6	7	2	--	8	--	--
TAM 112	--	Watley Seeds	HRW	2005	Medium Early	Medium	--	Good	--	Very Good	--	9	9	1	1	--	--	9
TAM 113	TX02A0252	Adaptive Genetics	HRW	2012	Medium	Medium	--	Good	--	Good	Excellent	1	4	1	--	9	--	9
TAM 114	TX07A001505	Adaptive Genetics	HRW	2014	Medium	Medium	--	Very Good	Good	Excellent	Excellent	3	1	1	1	--	--	9
TAM 115	TX11A001295	Watley Seeds	HRW	2019	Late	Med-Tall	--	Excellent	--	Very Good	--	1	1	1	1	--	--	9
TAM 116	TX14A001035	Adaptive Genetics	HRW	2023	Medium Early	Medium	--	Excellent	--	Acceptable	--	1	1	1	--	9	--	9
TAM 204	TX06V7266	Watley Seeds	HRW**	2014	Medium	Short	--	Poor	--	Less Desirable	--	9	5	1	1	1	--	3
TAM 205	TX12V7415	Adaptive Genetics	HRW	2019	Late	Medium Short	--	Excellent	--	Excellent	--	1	--	1	1	1	5	9
TAM 304	--	Scott Seed	HRW	2007	Early	Short	--	Fair	--	Acceptable	--	7	7	1	--	--	--	9
TAM W-101	--	TAMU	HRW	1971	Medium Early	Medium Short	--	Good	--	Acceptable	--	8	7	1	--	--	--	9
Uncharted	--	Oklahoma State University	HRW	--	--	--	--	Very Good	Average	Desirable	Good	1	3	--	--	1	--	7
WB4418	--	WestBred	HRW	2018	Medium	Medium	Excellent	Very Good	Very Good	Very Good	Excellent	4	4	--	5	2	7	4
WB4422	--	WestBred	HRW	2022	Medium	Med-Tall	Excellent	Excellent	Very Good	Very Good	Excellent	3	8	6	6	2	6	6
WB4523	--	WestBred	HRW	2022	Medium	Med-Short	Excellent	Very Good	Good	Very Good	Excellent	5	2	4	7	3	5	6
WB4595	--	WestBred	HRW	2019	Medium	Medium	Excellent	Excellent	Very Good	Good	Very Good	6	5	--	4	6	7	7
WB4632	--	WestBred	HRW	2023	Medium	Medium	--	Very Good	Very Good	Very Good	Very Good	5	6	--	8	3	5	6
WB4699	--	WestBred	HRW	2019	Medium-Late	Short	Very Good	Good	Good	Good	Excellent	3	6	--	5	3	4	6
WB4792	--	WestBred	HRW	2019	Medium-Late	Medium-Tall	Very Good	Excellent	Very Good	Very Good	Very Good	3	4	--	4	6	8	7

S - Susceptible, MS - Moderately Susceptible, MR - Moderately Resistant, I - Intermediate, and R - Resistant.

\*\*Awnless.

<sup>1</sup>HRW= Hard Red Winter, HWW= Hard White Winter

<sup>2</sup>Pathogen ratings based on a scale from 1-9 with 1=Resistant, 9=Susceptible

Variety	Company	Class	Year Released	Maturity	Height	Winter Hardiness	Test Weight	Standability	Barley								
									Leaf Rust	Stripe Rust	Stem Rust	Leaf Blotch	Glume Blotch	Yellow Dwarf	Fusarium (Scab)	Powdery Mildew	Hessian Fly
AgriMaxx 492	AgriMaxx	SRW	--	Very Early/Early	Medium	Fair	Excellent	Excellent	1	1	--	4	2	3	5	1	--
AgriMaxx 514	AgriMaxx	SRW	--	Medium	Medium	Very Good	Good	Good	3	1	--	2	3	2	2	3	--
AgriMaxx 516	AgriMaxx	SRW	--	Med/Med-Late	Medium	Excellent	Very Good	Very Good	2	2	--	2	3	2	1	3	--
AgriMaxx 535	AgriMaxx	SRW	--	Medium	Medium	Good	Excellent	Excellent	2	1	--	3	4	4	3	2	--
AGS 2055	AGSouth Genetics	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AGS 3022	AGSouth Genetics	SRW	--	Very Early	Short	--	Very Good	Good	4	4	--	--	4	4	4	4	4
Blackland 1828	Blackland Seeds	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Blackland 2034	Blackland Seeds	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Blackland 2167	Blackland Seeds	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Blackland 2248	Blackland Seeds	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Blackland 2255	Blackland Seeds	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Delta Grow 1000	Delta Grow Seed	SRW	--	Medium Early	Med-Tall	--	Very Good	Excellent	1	1	1	--	--	2	9	--	--
Delta Grow 1200	Delta Grow Seed	SRW	--	Medium	Medium	--	Very Good	Excellent	2	1	1	--	--	1	9	--	--
Delta Grow 1700	Delta Grow Seed	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Delta Grow 1800	Delta Grow Seed	SRW	--	Early	Medium	--	Excellent	Excellent	1	1	2	--	--	2	9	--	--
Delta Grow 3500	Delta Grow Seed	SRW	--	Medium Early	Medium	--	Excellent	Excellent	1	1	--	--	--	1	1	--	--
Dyna-Gro 9002	Dyna-Gro Seeds	SRW	--	Medium	Tall	Excellent	Very Good	Very Good	3	3	--	2	--	--	3	--	1
Dyna-Gro 9120	Dyna-Gro Seeds	SRW	2021	Early	Medium	Excellent	Excellent	Excellent	3	3	--	4	--	7	4	--	9
Dyna-Gro 9172	Dyna-Gro Seeds	SRW	--	Medium	Medium	Excellent	Very Good	Excellent	2	2	--	3	3	2	2	3	8
Dyna-Gro 9290	Dyna-Gro Seeds	SRW	2022	Very Early	Medium	Excellent	Very Good	Very Good	2	2	--	3	1	5	3	2	8
Dyna-Gro 9332	Dyna-Gro Seeds	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dyna-Gro 9393	Dyna-Gro Seeds	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dyna-Gro 9481	Dyna-Gro Seeds	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dyna-Gro 9701	Dyna-Gro Seeds	SRW	--	Medium Early	Med-Tall	Very Good	Very Good	Excellent	2	2	--	2	3	3	2	3	1
Dyna-Gro 9811	Dyna-Gro Seeds	SRW	--	Medium Early	Med-Tall	Excellent	Very Good	Very Good	2	2	--	2	2	3	5	3	4
GoWheat 2032	Stratton Seed Co.	SRW	--	Medium	--	--	Good	Good	4	4	--	--	--	--	4	--	--
GoWheat 6000	Stratton Seed Co.	SRW	--	Medium	--	--	--	Very Good	4	--	--	--	--	--	4	--	--
GoWheat LA754	Stratton Seed Co.	SRW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Progeny #Bingo	Progeny	SRW	--	--	Medium	--	Excellent	Excellent	5	3	--	3	5	3	3	5	--
Progeny #Buster	Progeny	SRW	--	--	Medium	--	Excellent	Excellent	3	3	--	3	3	3	5	3	--
Progeny #Chad	Progeny	SRW	--	--	Medium	--	Good	Good	1	1	--	3	3	3	3	1	--
Progeny #Turbo	Progeny	SRW	--	--	Medium	--	Excellent	Excellent	1	3	--	5	3	3	3	3	--
USG 3463	UniSouth Genetics	SRW	--	Medium	Medium	Good	Fair	Very Good	3	5	--	3	3	3	2	2	--
USG 3472	UniSouth Genetics	SRW	--	Medium	Medium	Very Good	Fair	Very Good	2	2	--	2	3	2	2	3	--
USG 3783	UniSouth Genetics	SRW	--	Medium-Late	Medium	Good	Very Good	Excellent	1	1	--	2	2	2	3	1	--
Viking 822	Albert Lea Seed	SRW	--	Medium Early	Med-Tall	--	--	Excellent	--	--	--	--	--	--	--	--	--
WB2606	Westbred	SRW	--	Medium Late	Medium	Excellent	Excellent	Excellent	4	3	--	--	--	--	3	4	6

S - Susceptible, MS - Moderately Susceptible, MR - Moderately Resistant, I - Intermediate, and R - Resistant.

\*\*Awnless.

<sup>1</sup>Pathogen ratings based on a scale from 1-9 with 1=Resistant, 9=Susceptible



### Cultural Data for 2023 TAMU HRW Trial Locations

Region	Site Information							
	Location <sup>1</sup>	Cooperator	Yield Limiting Issue	Planting Date	Fertilizer (lb N/ac)	Water	Seeding Rate	
High Plains	Irrigated	Bushland	TAMU AgriLife Research & Extension	Inoperable Irrigation, Russian Wheat Aphids	10/31/2022	70	Limited Irrigation	1.1 M Seeds/ac
		Cotton Center	Jay Ray Sageser	Abandoned- Poor stands due to cotton stubble	11/2/2022	N/A	Limited Irrigation	1.1 M Seeds/ac
		Dalhart	3B Farms	Abandoned- Hail	11/8/2022	N/A	Limited Irrigation	1.1 M Seeds/ac
		Dumas	Reznik Farms	Late Emergence, Drought	11/7/2022	N/A	Limited Irrigation	1.1 M Seeds/ac
		Olton	Dustin McFaddin	None	10/21/2022	75	Full Irrigation	1.1 M Seeds/ac
	Dryland	Bushland	TAMU AgriLife Research & Extension	Abandoned- Drought and Wind Injury	10/6/2022	None	Dryland	600K Seeds/ac
		Groom	James Weinheimer	Dought and wind	9/16/2022	None	Dryland	600K Seeds/ac
		Lubbock	TAMU AgriLife Research & Extension	Harvested but not published due to high CV	10/20/2022	None	Dryland	600K Seeds/ac
		Nazareth	Clay Cogburn	Abandoned- Drought	11/2/2022	None	Dryland	600K Seeds/ac
		Perryton	Ramon Vera	Abandoned- Drought	11/22/2022	None	Dryland	600K Seeds/ac
Rolling Plains	Northern	Chillicothe	Chillicothe Research Station	Drought	11/10/2022	52	Dryland	650K Seeds/ac
		Munday	Mike Urbanzck	Abandoned- Drought	11/8/2022	110	Dryland	650K Seeds/ac
	Southern	Abilene	Darrell Cross	Drought	11/14/2022	40	Dryland	650K Seeds/ac
		Brady	Lance Helberg	Drought	10/27/2022	40	Dryland	650K Seeds/ac
		San Angelo	Cory Book	Drought	11/15/2022	40	Dryland	650K Seeds/ac
Blacklands	Ennis	--	Abandoned-Not Planted	--	--	Dryland	750K Seeds/ac	
	Greenville	--	Abandoned-Not Planted	--	--	Dryland	750K Seeds/ac	
	Hillsboro	P&M Farms	Hessian Fly	11/10/2022	110	Dryland	750K Seeds/ac	
	McGregor	TAMU AgriLife Research Farm	Hessian Fly	11/9/2022	130	Dryland	750K Seeds/ac	
	Muenster	--	Abandoned-Not Planted	--	--	Dryland	750K Seeds/ac	
South Texas	Castroville	Rollin Mangold	Abandoned- Disease and hail	11/16/2022	50	Limited Irrigation	750K Seeds/ac	
	College Station	TAMU Research Farm	Trial harvested but not shown due to high CV	11/2/2022	90	Dryland	750K Seeds/ac	

<sup>1</sup>All locations were planted into conventionally tilled seedbeds.

**Cultural Data for 2023 TAMU SRW Trial Locations**

Region	Site Information						
	Location <sup>1</sup>	Cooperator	Yield Limiting Issue	Planting Date	Fertilizer (lb N/ac)	Water	Seeding Rate
Blacklands	Ennis	--	Abandoned-Not Planted	--	--	Dryland	68 lbs/acre
	Greenville	--	Abandoned-Not Planted	--	--	Dryland	68 lbs/acre
	Hillsboro	P&M Farms	Hessian Fly	11/10/2022	110	Dryland	68 lbs/acre
	McGregor	TAMU AgriLife Research Farm	Hessian Fly	11/9/2022	130	Dryland	68 lbs/acre
	Muenster	--	Abandoned-Not Planted	--	--	Dryland	68 lbs/acre

<sup>1</sup>All locations were planted into conventionally tilled seedbeds.



**2023 Uniform Wheat Variety Trial: HRWW, High Plains Irrigated Regional Summary**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt
			AVG	Bushland	Dumas	Olton	(lb/bu) 2023
1	Monarch§	PlainsGold	90.2	103.6	79.5	87.5	58.4
2	TAM 114	Adaptive Genetics	89.7	100.7	89.9	78.5	59.4
3	TAM 205	Adaptive Genetics	88.0	93.5	90.8	79.6	60.8
4	High Cotton (OK18510)	OSU	87.3	95.9	77.2	88.8	59.9
5	WB4422	Westbred	86.4	96.1	79.1	84.0	59.3
6	CP7017AX	Croplan	86.4	94.4	85.0	79.8	59.8
7	AP Prolific	AgriPro	86.2	99.5	83.5	75.7	59.4
8	LCS Julep	Limagrain	86.2	95.8	77.0	85.8	58.8
9	Showdown	OSU	86.2	97.4	75.9	85.2	58.5
10	OK15MASBx7ARS8-29	OSU	85.8	88.1	85.7	83.6	58.5
11	SY Wolverine	AgriPro	85.5	93.6	89.0	74.0	60.0
12	TX18A001119	TAMU	84.8	91.8	77.6	85.1	60.2
13	Guardian	PlainsGold	83.7	90.5	80.7	80.0	58.9
14	TAM 116 (TX14A001035)	Adaptive Genetics	83.6	91.8	78.9	80.2	59.6
15	TAM 115	Watley Seeds	83.5	94.3	75.2	80.9	60.5
16	WB4792	Westbred	82.5	99.6	75.2	72.6	59.2
17	TX18A001132	TAMU	82.5	90.8	75.5	81.1	58.9
18	TAM 112	Watley Seeds	81.7	91.0	79.7	74.3	60.0
19	Breakthrough	OSU	80.0	86.7	75.2	78.1	59.4
20	LCS Atomic AX	Limagrain	80.0	72.9	78.9	88.1	58.8
21	TX16M9216	TAMU	80.0	85.7	72.9	81.3	58.6
22	Kivari AX	PlainsGold	79.9	91.7	70.9	77.1	58.3
23	Dyna-Gro 7322* (TX14V70214)	Nutrien	79.2	91.5	74.4	71.8	58.2
24	Canvas	PlainsGold	79.1	89.0	71.5	76.9	58.5
25	OK Corral*	OSU	78.5	89.4	67.7	78.3	56.2
26	AP EverRock	AgriPro	77.9	86.4	72.2	75.1	58.7
27	LCS Helix AX	Limagrain	77.5	78.0	81.2	73.3	59.4
28	Amigos (TX15M8024)	Adaptive Genetics	76.8	85.2	73.7	71.6	58.3
29	TAM 204*	Watley Seeds	74.9	85.2	73.3	66.2	56.4
30	LCS Steel AX	Limagrain	72.5	86.5	61.5	69.6	57.3
31	TAM W101	TAMU	71.8	87.1	75.7	52.7	58.4
	<b>LSD (0.05)</b>		---	<b>10.5</b>	<b>5.5</b>	<b>10.0</b>	---
	<b>CV (%)</b>		---	<b>8.3</b>	<b>6.2</b>	<b>13.6</b>	---
	<b>Mean</b>		<b>82.2</b>	<b>91.1</b>	<b>77.6</b>	<b>78.0</b>	<b>58.9</b>

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 3-location yield average

§Hard White Winter Wheat

**2023 Uniform Wheat Variety Trial: HRWW, Bushland (Irrigated)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-Year	3-Year	2-Year	2023	2023
1	WB4792	Westbred	95.1	94.2	81.8	99.6	58.3
2	CP7017AX	Croplan	87.2	87.1	79.6	94.4	61.1
3	TAM 116 (TX14A001035)	Adaptive Genetics	87.1	84.1	73.8	91.8	59.8
4	TAM 114	Adaptive Genetics	87.1	90.9	84.6	100.7	61.3
5	Canvas	PlainsGold	85.8	83.2	75.7	89.0	59.0
6	TAM 115	Watley Seeds	84.4	87.2	76.7	94.3	60.6
7	OK Corral*	OSU	83.6	83.2	74.7	89.4	55.5
8	SY Wolverine	AgriPro	83.5	82.5	70.0	93.6	61.1
9	Dyna-Gro 7322* (TX14V70214)	Nutrien	83.4	86.3	79.5	91.5	59.3
10	TAM 112	Watley Seeds	80.5	79.2	69.4	91.0	61.3
11	Showdown	OSU	80.3	87.1	75.7	97.4	59.7
12	TAM 205	Adaptive Genetics	80.3	81.8	71.5	93.5	62.3
13	TAM 204*	Watley Seeds	76.3	75.5	66.6	85.2	55.7
14	TAM W-101	TAMU	64.4	64.6	62.9	87.1	59.4
15	AP EverRock	AgriPro		77.1	64.1	86.4	60.1
16	Amigos (TX15M8024)	Adaptive Genetics		75.0	62.8	85.2	58.2
17	TX16M9216	TAMU		74.8	66.2	85.7	58.8
18	Monarch§	PlainsGold			83.5	103.6	58.6
19	LCS Steel AX	Limagrain			77.5	86.5	58.8
20	WB4422	Westbred			75.0	96.1	59.6
21	LCS Helix AX	Limagrain			68.8	78.0	60.3
22	Breakthrough	OSU			68.7	86.7	60.5
23	LCS Atomic AX	Limagrain			66.4	72.9	59.6
24	AP Prolific	AgriPro				99.5	60.5
25	High Cotton (OK18510)	OSU				95.9	60.9
26	LCS Julep	Limagrain				95.8	58.2
27	TX18A001119	TAMU				91.8	60.7
28	Kivari AX	PlainsGold				91.7	59.2
29	TX18A001132	TAMU				90.8	60.6
30	Guardian	PlainsGold				90.5	58.5
31	OK15MASBx7ARS8-29	OSU				88.1	59.4
	<b>LSD (0.05)</b>		22.1	25.2	26.4	10.5	1.3
	<b>CV (%)</b>		21.2	23.0	25.2	8.3	1.4
	<b>Mean</b>		83.4	83.6	73.0	91.1	59.6

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

§Hard white winter wheat.

**2023 Uniform Wheat Variety Trial: HRWW, Dumas (Irrigated)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt
			4-Year	3-Year	2-Year	2023	(lb/bu)
1	CP7017AX	Croplan	85.1	80.0	91.3	85.0	56.9
2	TAM 114	Adaptive Genetics	83.8	76.7	88.9	89.9	55.5
3	TAM 205	Adaptive Genetics	83.0	79.3	81.6	90.8	58.2
4	Canvas	PlainsGold	80.6	76.4	83.0	71.5	55.1
5	SY Wolverine	AgriPro	79.7	75.7	90.7	89.0	57.7
6	WB4792	Westbred	78.4	72.8	80.2	75.2	56.7
7	TAM 116 (TX14A001035)	Adaptive Genetics	77.3	71.7	83.1	78.9	57.1
8	TAM 115	Watley Seeds	75.9	74.3	78.4	75.2	58.6
9	TAM 112	Watley Seeds	74.6	73.9	82.7	79.7	58.0
10	Showdown	OSU	73.2	71.5	81.9	75.9	55.1
11	OK Corral*	OSU	72.4	65.3	73.7	67.7	54.3
12	TAM 204*	Watley Seeds	71.9	66.0	75.4	73.3	53.7
13	TAM W-101	TAMU	71.6	65.1	77.5	75.7	56.2
14	Dyna-Gro7322* (TX14V70214)	Nutrien	70.4	62.8	76.0	74.4	54.6
15	TX16M9216	TAMU		64.4	81.7	72.9	55.7
16	AP EverRock	AgriPro		64.1	72.8	72.2	55.5
17	Amigos (TX15M8024)	Adaptive Genetics		61.0	70.6	73.7	56.0
18	LCS Helix AX	Limagrain			88.7	81.2	56.8
19	Monarch§	PlainsGold			86.2	79.5	56.3
20	WB4422	Westbred			83.8	79.1	56.7
21	LCS Atomic AX	Limagrain			81.5	78.9	56.2
22	Breakthrough	OSU			80.2	75.2	56.7
23	LCS Steel AX	Limagrain			77.7	61.5	53.7
24	OK15MASBx7ARS8-29	OSU				85.7	54.8
25	AP Prolific	AgriPro				83.5	56.5
26	Guardian	PlainsGold				80.7	57.0
27	TX18A001119	TAMU				77.6	57.6
28	High Cotton (OK18510)	OSU				77.2	57.3
29	LCS Julep	Limagrain				77.0	56.3
30	TX18A001132	TAMU				75.5	56.0
31	Kivari AX	PlainsGold				70.9	55.1
	<b>LSD (0.05)</b>		19.5	21.0	11.0	5.5	1.0
	<b>CV (%)</b>		19.4	21.2	10.0	6.2	1.0
	<b>Mean</b>		77.0	71.2	80.2	77.6	56.2

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

§Hard white winter wheat.

**2023 Uniform Wheat Variety Trial: HRWW, Olton (Irrigated)**

Rank <sup>†</sup>	Variety	Source	Height (in)	Yield (bu/a)		Test Wt (lb/bu)	
				2-Year	2023	2-Year	2023
1	Showdown	OSU	36	82.0	85.2	57.4	60.6
2	AP Roadrunner	AgriPro	33	80.1	85.4	57.0	60.5
3	TAM 115	Watley Seeds	34	80.0	80.9	59.8	62.2
4	TAM 205	Adaptive Genetics	33	79.0	79.6	59.5	61.9
5	TX16M9216	TAMU	35	78.2	81.3	58.0	61.3
6	Kivari AX	PlainsGold	33	77.8	77.1	57.4	60.5
7	TAM 116 (TX14A001035)	Adaptive Genetics	31	76.8	80.2	59.0	61.9
8	Breakthrough	OSU	32	74.5	78.1	58.4	61.1
9	AP EverRock	AgriPro	28	74.4	75.1	57.0	60.6
10	TAM 114	Adaptive Genetics	33	74.3	78.5	58.3	61.3
11	Guardian	PlainsGold	33	74.1	80.0	58.4	61.0
12	SY Wolverine	AgriPro	30	73.8	74.0	57.6	61.2
13	WB4792	WestBred	33	73.1	72.6	59.7	62.7
14	OK Corral*	OSU	33	72.1	78.3	56.1	58.7
15	CP7017AX	Croplan	31	71.5	79.8	57.7	61.4
16	TAM 112	Watley Seeds	31	70.8	74.3	58.3	60.9
17	Canvas	PlainsGold	32	70.3	76.9	58.4	61.2
18	Amigos (TX15M8024)	Adaptive Genetics	35	68.6	71.6	57.4	60.6
19	Dyna-Gro 7322* (TX14V70214)	Nutrien	33	67.2	71.8	57.2	60.7
20	TAM 204*	Watley Seeds	32	61.5	66.2	56.5	59.7
21	TAM W-101	TAMU	30	56.2	52.7	57.1	59.6
22	High Cotton (OK18510)	OSU	36		88.8		61.5
23	LCS Atomic AX	Limagrain	32		88.1		60.5
24	Monarch§	PlainsGold	29		87.5		60.3
25	LCS Julep	Limagrain	35		85.8		61.7
26	TX18A001119	TAMU	32		85.1		62.5
27	WB4422	Westbred	33		84.0		61.6
28	OK15MASBx7ARS8-29	OSU	34		83.6		61.3
29	TX18A001132	TAMU	32		81.1		60.1
30	AP Prolific	AgriPro	35		75.7		61.2
31	LCS Helix AX	Limagrain	32		73.3		60.9
32	LCS Steel AX	Limagrain	35		69.6		59.4
	<b>LSD (0.05)</b>		2.2	--	10.5	--	0.8
	<b>CV (%)</b>		2.6	--	13.6	--	1.7
	<b>Mean</b>		31	73.2	78.2	57.9	60.9

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 2-year, then 2023 yield averages.

§Hard white winter wheat.

**2023 Uniform Wheat Variety Trial: HRWW, Groom (Dryland)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)
			3-Year <sup>‡</sup>	2-Year	2023	2023
1	TAM 115	Watley Seeds	63.8	75.5	64.7	60.5
2	WB4792	Westbred	63.8	72.1	58.6	59.5
3	Canvas	PlainsGold	61.8	72.0	60.3	59.0
4	TAM 116 (TX14A001035)	Adaptive Genetics	61.7	69.6	59.0	58.5
5	TAM 205	Adaptive Genetics	59.3	67.7	50.6	58.3
6	TAM 204*	Watley Seeds	58.9	67.3	51.0	57.5
7	Dyna-Gro 7322* (TX14V70214)	Nutrien	58.5	65.0	51.3	58.0
8	Showdown	OSU	56.7	66.3	53.3	57.5
9	TAM 112	Watley Seeds	56.1	63.4	52.9	57.9
10	TAM 114	Adaptive Genetics	53.7	60.3	50.0	58.2
11	TAM W-101	TAMU	46.9	53.3	46.7	56.0
12	Guardian	PlainsGold		68.6	59.1	58.4
13	OK Corral*	OSU		66.3	55.6	57.5
14	Amigos (TX15M8024)	Adaptive Genetics		62.5	53.9	57.5
15	TX16M9216	TAMU		60.2	49.1	58.6
16	LCS Julep	Limagrain			69.0	58.3
17	Kivari AX	CSU			63.1	58.2
18	SY Wolverine	AgriPro			58.8	57.4
19	TX18A001119	TAMU			57.8	59.9
20	TX18A001132	TAMU			54.8	58.0
21	OK15MASBx7ARS8-29	OSU			54.3	57.9
22	WB4422	Westbred			53.8	59.2
23	High Cotton (OK18510)	OSU			53.4	58.3
24	Breakthrough	OSU			50.6	58.0
25	LCS Atomic AX	Limagrain			39.1	56.8
26	LCS Helix AX	Limagrain			38.1	56.3
27	LCS Photon AX	Limagrain			30.9	55.7
28	LCS Steel AX	Limagrain			§	§
	<b>LSD (0.05)</b>		6.5	17.7	5.5	1.0
	<b>CV (%)</b>		25.9	18.6	6.2	1.0
	<b>Mean</b>		59.6	66.0	53.3	58.0

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 3-year, 2-year, then 2023 yield averages.

<sup>‡</sup>3-year average based on 2020, 2021, and 2023 yields.

<sup>§</sup>Data not shown due to bad shattering of grain during delayed harvest.

**2023 Uniform Wheat Variety Trial: HRWW, Chillicothe (Dryland)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt
			4-Year	3-Year	2-Year	2023	(lb/bu)
1	WB4792	Westbred	50.6	47.7	48.4	37.8	63.9
2	Bob Dole	AgriPro	48.9	46.1	47.4	35.9	60.2
3	TAM 115	Watley Seeds	48.2	48.1	50.5	39.9	63.9
4	Green Hammer	OSU	47.4	44.9	45.0	39.6	62.0
5	TAM 205	Adaptive Genetics	43.5	40.2	44.7	31.5	61.8
6	TAMW-101	TAMU	34.9	34.7	38.2	30.7	60.5
7	Dyna-Gro 7322* (TX14V70214)	Nutrien		45.0	47.4	40.1	59.2
8	WB4595	Westbred		46.5	47.2	38.4	63.5
9	TAM 116 (TX14A001035)	Adaptive Genetics		44.3	45.0	31.2	63.0
10	Amigos (TX15M8024)	Adaptive Genetics		42.0	45.7	37.1	61.0
11	Smith's Gold	OSU			43.4	33.2	61.6
12	TX16M9216	TAMU			42.2	33.3	60.1
13	Guardian	PlainsGold				40.6	62.2
14	High Cotton (OK18510)	OSU				39.7	61.3
15	Canvas	PlainsGold				39.6	61.6
16	TX18A001132	TAMU				37.9	59.4
17	Showdown	OSU				37.7	60.6
18	Kivari AX	PlainsGold				36.7	60.8
19	WB4422	Westbred				36.5	60.8
20	TX18A001119	TAMU				35.8	62.1
21	CP7017AX	Croplan				35.3	60.6
22	OK15MASBx7ARS8-29	OSU				34.0	60.1
23	OK Corral*	OSU				33.7	57.7
24	Gallagher	OSU				31.9	60.9
25	Uncharted	OSU				30.3	60.1
	<b>LSD (0.05)</b>		4.0	5.1	6.0	7.0	---
	<b>CV (%)</b>		4.9	7.3	7.9	11.8	---
	<b>Mean</b>		45.6	43.9	45.4	35.9	61.2

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

**2023 Uniform Wheat Variety Trial: Southern Rolling Plains Regional Summary**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt
			AVG	Abilene	Brady	San Angelo	2023 (lb/bu)
1	WB4595	WestBred	34.0	32.1	42.5	27.3	62.1
2	Canvas	PlainsGold	32.7	27.9	46.0	24.2	60.1
3	Kivari AX	PlainsGold	31.7	34.9	34.0	26.1	58.9
4	Green Hammer	OSU	31.5	32.3	38.8	23.4	59.1
5	Showdown	OSU	30.7	33.8	35.2	23.1	58.0
6	Bob Dole	AgriPro	30.6	30.4	32.6	29.0	58.3
7	CP7017AX	Croplan	30.6	36.8	32.3	22.6	58.1
8	TX18A001119	TAMU	29.6	29.1	33.5	26.0	59.6
9	High Cotton (OK18510)	OSU	29.3	29.3	38.7	19.8	59.6
10	Dyna-Gro 7322* (TX14V70214)	Nutrien	28.9	26.4	35.0	25.1	58.6
11	TAM 116 (TX14A001035)	Adaptive Genetics	28.5	27.3	29.8	28.3	59.5
12	Amigos (TX15M8024)	Adaptive Genetics	27.6	33.8	33.2	16.0	59.0
13	Guardian	PlainsGold	25.9	28.7	34.4	14.7	59.2
14	WB4422	WestBred	25.7	32.0	26.8	18.3	60.4
15	WB4792	WestBred	25.5	32.4	28.5	15.7	61.8
16	Uncharted	OSU	25.5	25.3	27.8	23.5	57.6
17	TAM 115	Watley Seeds	25.4	26.7	29.9	19.5	62.2
18	Smith's Gold	OSU	25.3	28.7	28.9	18.3	60.7
19	TAM 205	Adaptive Genetics	24.5	27.5	25.2	20.7	60.9
20	OK15MASBx7ARS8-29	OSU	24.4	23.9	30.8	18.6	58.8
21	Gallagher	OSU	24.3	21.6	34.9	16.3	59.2
22	TX18A001132	TAMU	24.2	23.6	25.6	23.4	59.3
23	TX16M9216	TAMU	22.5	26.6	25.6	15.2	59.2
24	TAM W-101	TAMU	21.2	27.3	15.8	20.4	57.4
25	OK Corral*	OSU	19.7	22.6	16.8	19.6	55.6
<b>LSD (0.05)</b>			20.8	11.9	19.8	19.7	3.8
<b>CV (%)</b>			5.2	5.7	10.2	6.9	2.1
<b>Mean</b>			27.2	28.8	31.3	21.4	59.3

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 3-location yield average

2023 Uniform Wheat Variety Trial: HRWW, Abilene (Dryland)

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-Year	3-Year	2-Year	2023	2023
1	TAM 205	Adaptive Genetics	43.7	46.7	45.5	27.5	60.4
2	TAM 115	Watley Seeds	42.7	44.3	45.6	26.7	62.4
3	Gallagher	OSU	40.6	44.0	41.5	21.6	57.1
4	TAM W-101	TAMU	39.9	42.7	44.0	27.3	59.4
5	WB 4792	WestBred		49.8	48.0	32.4	60.9
6	Showdown	OSU		48.3	48.9	33.8	58.4
7	Green Hammer	OSU		46.8	46.8	32.3	58.7
8	Bob Dole	AgriPro		45.5	46.5	30.4	57.8
9	WB 4595	WestBred			49.5	32.1	60.1
10	Amigos (TX15M8024)	Adaptive Genetics			47.5	33.8	60.8
11	TAM 116 (TX14A001035)	Adaptive Genetics			45.1	27.3	60.3
12	Dyna-Gro 7322* (TX14V70214)	Nutrien			44.0	26.4	58.7
13	CP7017AX	Croplan				36.8	59.1
14	Kivari AX	PlainsGold				34.9	59.3
15	WB 4422	WestBred				32.0	61.3
16	High Cotton (OK18510)	OSU				29.3	61.8
17	TX18A001119	TAMU				29.1	59.8
18	Guardian	PlainsGold				28.7	59.2
19	Smith's Gold	OSU				28.7	60.4
20	Canvas	PlainsGold				27.9	58.9
21	TX16M9216	TAMU				26.6	59.7
22	Uncharted	OSU				25.3	60.2
23	OK15MASBx7ARS8-29	OSU				23.9	59.2
24	TX18A001132	TAMU				23.6	58.3
25	OK Corral*	OSU				22.6	56.2
	<b>LSD (0.05)</b>		4.6	4.7	4.9	11.9	2.8
	<b>CV (%)</b>		13.2	10.8	9.2	5.7	2.9
	<b>Mean</b>		41.7	44.4	44.2	25.8	59.5

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.



**2023 Uniform Wheat Variety Trial: HRWW, Brady (Dryland)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-Year	3-Year	2-Year	2023	2023
1	Gallagher	OSU	37.9	33.5	30.6	34.9	61.3
2	TAM W-101	TAMU	23.4	20.1	18.5	15.8	56.8
3	TAM 115	Watley Seeds		28.3	27.2	29.9	63.7
4	Green Hammer	OSU			33.7	38.8	60.1
5	Bob Dole	AgriPro			32.6	32.6	57.6
6	Showdown	OSU			30.2	35.2	58.6
7	WB 4792	WestBred			28.9	28.5	63.2
8	TAM 205	Adaptive Genetics			26.7	25.2	63.0
9	Smith's Gold	OSU			26.4	28.9	61.8
10	Canvas	PlainsGold				46.0	63.2
11	WB 4595	WestBred				42.5	63.8
12	High Cotton (OK18510)	OSU				38.7	58.5
13	Dyna-Gro 7322* (TX14V70214)	Nutrien				35.0	58.9
14	Guardian	PlainsGold				34.4	62.9
15	Kivari AX	PlainsGold				34.0	60.9
16	TX18A001119	TAMU				33.5	62.2
17	Amigos (TX15M8024)	Adaptive Genetics				33.2	60.1
18	CP7017AX	Croplan				32.3	59.8
19	OK15MASBx7ARS8-29	OSU				30.8	58.2
20	TAM 116 (TX14A001035)	Adaptive Genetics				29.8	59.6
21	Uncharted	OSU				27.8	55.2
22	WB 4422	WestBred				26.8	59.9
23	TX16M9216	TAMU				25.6	60.7
24	TX18A001132	TAMU				25.6	60.4
25	OK Corral*	OSU				16.8	55.6
	<b>LSD (0.05)</b>		4.6	5.5	6.2	10.2	4
	<b>CV (%)</b>		17.5	20.7	18.7	19.8	4.1
	<b>Mean</b>		30.7	27.3	28.3	31.3	60.2

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

**2023 Uniform Wheat Variety Trial: HRWW, San Angelo (Dryland)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)
			3-Year	2-Year	2023	2023
1	WB 4595	Westbred	44.1	29.5	27.3	62.6
2	TAM 116 (TX14A001035)	Adaptive Genetics	42.0	30.9	28.3	58.5
3	Bob Dole	AgriPro	41.3	32.1	29.0	59.5
4	WB 4792	Westbred	41.3	29.5	15.7	61.4
5	TAM 115	Watley Seeds	39.6	29.9	19.5	60.5
6	Showdown	OSU	39.5	27.7	23.1	57.1
7	TAM 205	Adaptive Genetics	37.5	28.8	20.7	59.4
8	Green Hammer	OSU	36.4	25.2	23.4	58.5
9	Dyna-Gro 7322* (TX14V70214)	Nutrien	33.6	28.7	25.1	58.2
10	TAM W-101	TAMU	32.8	25.7	20.4	56.1
11	Amigos (TX15M8024)	Adaptive Genetics	31.8	21.6	16.0	56.1
12	CP7017AX	Croplan		34.6	22.6	55.4
13	Uncharted	OSU		30.8	23.5	57.5
14	Canvas	PlainsGold		27.4	24.2	58.6
15	Smith's Gold	OSU		27.0	18.3	59.9
16	OK Corral*	OSU		26.1	19.6	55.1
17	TX16M9216	TAMU		24.9	15.2	57.0
18	Guardian	PlainsGold		24.7	14.7	55.2
19	WB 4422	Westbred		23.8	18.3	59.9
20	Kivari AX	PlainsGold			26.1	56.5
21	TX18A001119	TAMU			26.0	56.8
22	TX18A001132	TAMU			23.4	59.1
23	High Cotton (OK18510)	OSU			19.8	58.5
24	OK15MASBx7ARS8-29	OSU			18.6	59.0
25	Gallagher	OSU			16.3	59.2
	<b>LSD (0.05)</b>		<b>6.3</b>	<b>7.1</b>	<b>6.9</b>	<b>3.4</b>
	<b>CV (%)</b>		<b>17.7</b>	<b>22.2</b>	<b>19.7</b>	<b>3.5</b>
	<b>Mean</b>		<b>38.2</b>	<b>27.8</b>	<b>21.4</b>	<b>58.2</b>

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 3-year, 2-year, then 2023 yield averages.

**2023 Uniform Wheat Variety Trial: HRWW, Blacklands Regional Summary**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)			Test Wt
			AVG	McGregor	Hillsboro	2023
1	Bob Dole	AgriPro	58.9	53.4	64.3	59.8
2	Butler's Gold	OSU	57.3	55.3	59.4	61.2
3	TX17M1572	TAMU	56.9	59.6	54.2	59.4
4	TAM 116 (TX14A001035)	Adaptive Genetics	56.3	63.4	49.2	61.6
5	TX16M9216	TAMU	56.3	53.6	58.9	62.0
6	WB4523	Westbred	53.1	59.3	46.8	59.4
7	Amigos (TX15M8024)	Adaptive Genetics	52.9	55.5	50.2	60.9
8	Dyna-Gro 7322*	Nutrien	51.1	52.7	49.5	59.5
9	WB4418	Westbred	50.8	51.5	50.0	58.6
10	TX18A001132	TAMU	50.6	54.5	46.7	61.2
11	Showdown	OSU	48.9	53.7	44.2	59.4
12	TAM 304	Scott Seed	47.3	48.6	46.0	57.3
13	High Cotton (OK18510)	OSU	46.3	53.2	39.3	61.4
14	Uncharted	OSU	46.3	52.4	40.1	58.8
15	TX14M7088-18AZ530	TAMU	43.4	46.0	40.9	59.0
16	TX18A001119	TAMU	43.3	49.3	37.2	63.1
17	Smith's Gold	OSU	41.6	50.2	33.0	62.1
18	WB4632	Westbred	37.7	36.0	39.4	58.8
19	WB4699	Westbred	37.3	42.3	32.2	58.3
<b>LSD (0.05)</b>			6.2	7.7	9.9	1.1
<b>CV (%)</b>			10.9	9.0	12.9	1.5
<b>Mean</b>			49.3	52.1	46.4	60.1

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 2-location yield average

**2023 Uniform Wheat Variety Trial: SRWW, Blacklands Regional Summary**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)			Test Wt
			AVG	McGregor	Hillsboro	(lb/bu)
1	GA12230-20E36	SunGrains- University of Georgia	72.2	73.2	71.2	60.5
2	GA131218-20E15	SunGrains- University of Georgia	71.9	73.6	70.3	61.5
3	TX20D5116	SunGrains- TAMU	71.5	77.3	65.7	60.7
4	GA151313-20E48	SunGrains- University of Georgia	70.3	75.6	65.0	62.2
5	AGS 3022	Stratton Seeds	69.0	71.6	66.4	62.0
6	Delta Grow 1800	Delta Grow	68.4	70.6	66.2	61.6
7	FLLA16124LDH-51	SunGrains- University of Florida	67.0	71.3	62.7	62.9
8	Dyna-Gro 9332	Dyna-Gro	65.6	73.9	57.3	64.5
9	GW 2032	Stratton Seeds	64.8	67.3	62.4	61.9
10	LA14234CBW-31	SunGrains- LSU	63.1	65.8	60.4	61.7
11	AGS 2055	Stratton Seeds	62.8	70.4	55.2	61.8
12	GA161240-20LE6	SunGrains- University of Georgia	62.8	64.4	61.2	61.4
13	Delta Grow 3500	Delta Grow	61.8	60.0	63.6	62.4
14	Dyna-Gro 9811	Dyna-Gro	61.2	66.2	56.2	60.4
15	LA14269SB-BR32-4-1-1	SunGrains- LSU	61.2	65.1	57.3	62.1
16	GW 6000	Stratton Seeds	59.8	65.2	54.4	60.3
17	LA14159SB-BR1-1	SunGrains- LSU	59.1	63.1	55.2	62.0
18	LA14272CBB-3-1-4	SunGrains- LSU	58.5	64.0	53.0	63.0
19	PROGENY #TURBO	Progeny	57.6	56.3	58.9	59.7
20	TX18D3212	SunGrains- TAMU	57.6	72.5	42.7	62.1
21	TX2017DDH193	SunGrains- TAMU	56.8	65.7	47.9	61.6
22	TX17D2337	SunGrains- TAMU	56.3	66.4	46.2	61.6
23	LA14272CBW-15-1-2	SunGrains- LSU	56.1	60.6	51.6	61.7
24	Dyna-Gro 9002	Dyna-Gro	55.5	58.5	52.5	57.8
25	AgriMAXX 535	AgriMAXX	54.7	53.1	56.3	59.8
26	Dyna-Gro 9290	Dyna-Gro	53.2	55.7	50.7	59.4
27	AgriMAXX 492	AgriMAXX	52.7	61.3	44.2	61.1
28	Dyna-Gro 9481	Dyna-Gro	52.6	47.6	57.7	59.0
29	LA15298GBB-5-1-4	SunGrains- LSU	52.1	59.4	44.7	62.8
30	FL15105-LDH043	SunGrains- University of Florida	50.7	47.0	54.5	61.8
31	PROGENY #CHAD	Progeny	50.4	49.1	51.8	59.5
32	Delta Grow 1700	Delta Grow	49.8	47.6	52.0	59.0
33	GW LA754	Stratton Seeds	47.7	44.3	51.1	60.0
34	LA13019c-23-3-1-3	SunGrains- LSU	47.6	51.8	43.5	60.6
35	USG 3783	Uni-South Genetics	46.7	46.8	46.6	58.7
36	Dyna-Gro 9393	Dyna-Gro	46.0	44.9	47.2	57.9
37	Viking 822	Viking Seeds	45.0	43.4	46.6	57.8
38	PROGENY #BUSTER	Progeny	43.0	45.7	40.2	61.1
39	Blackland 2167	Blackland Seeds	42.8	41.8	43.8	57.7
40	Blackland 2255	Blackland Seeds	40.1	45.6	34.5	58.5
41	Dyna-Gro 9701	Dyna-Gro	39.5	41.0	38.0	57.6
42	Blackland 1828	Blackland Seeds	37.1	45.9	28.3	57.9
43	Delta Grow 1000	Delta Grow	35.1	37.2	33.1	57.3
44	Dyna-Gro 9120	Dyna-Gro	29.9	36.9	22.9	.
45	Blackland 2248	Blackland Seeds	29.6	29.3	29.8	.
46	WB2606	Westbred	28.5	44.4	12.7	.
47	Dyna-Gro 9172	Dyna-Gro	25.7	28.2	23.2	.
48	AgriMAXX 516	AgriMAXX	25.3	27.0	23.6	56.7
49	Delta Grow 1200	Delta Grow	25.1	30.5	19.7	.
50	Blackland 2034	Blackland Seeds	23.7	29.7	17.7	.
51	USG 3463	Uni-South Genetics	23.1	27.2	18.9	.
52	USG 3472	Uni-South Genetics	22.3	28.2	16.3	.
53	AgriMAXX 514	AgriMAXX	21.8	27.6	15.9	.
54	AgriMAXX EXP 2301	AgriMAXX	20.9	19.7	22.0	.
55	PROGENY#BINGO	Progeny	17.4	25.4	9.4	.
<b>LSD (0.05)</b>			<b>1.2</b>	<b>8.8</b>	<b>8.1</b>	<b>1.2</b>
<b>CV (%)</b>			<b>10.7</b>	<b>10.4</b>	<b>11.0</b>	<b>1.3</b>
<b>Mean</b>			<b>48.9</b>	<b>45.5</b>	<b>52.4</b>	<b>60.5</b>

**2023 Uniform Wheat Variety Trial: HRWW, Hillsboro (Dryland)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-Year	3-Year	2-Year	2023	2023
1	Bob Dole	AgriPro	57.1	56.6	60.1	64.3	60.5
2	WB4418	Westbred	50.6	49.3	53.6	50.0	59.4
3	TAM 116 (TX14A001035)	Adaptive Genetics	49.4	44.7	44.4	49.2	62.0
4	Amigos (TX15M8024)	Adaptive Genetics	49.4	45.7	49.6	50.2	60.6
5	Dyna-Gro 7322* (TX14V70214)	Nutrien	48.4	42.8	49.1	49.5	59.6
6	TAM 304	Scott Seed	44.1	39.9	45.3	46.0	57.6
7	WB4699	Westbred	40.4	34.1	38.3	32.2	58.8
8	TX16M9216	TAMU		52.8	58.2	58.9	61.9
9	WB4523	Westbred			50.9	46.8	58.6
10	Butler's Gold	OSU				59.4	62.4
11	TX17M1572	TAMU				54.2	59.8
12	TX18A001132	TAMU				46.7	61.2
13	Showdown	OSU				44.2	59.1
14	TX14M7088-18AZ530	TAMU				40.9	59.8
15	Uncharted	OSU				40.1	59.4
16	WB4632	Westbred				39.4	59.1
17	High Cotton (OK18510)	OSU				39.3	60.3
18	TX18A001119	TAMU				37.2	62.4
19	Smith's Gold	OSU				33.0	61.0
	<b>LSD (0.05)</b>		4.0	4.5	6.0	9.9	0.9
	<b>CV (%)</b>		10.0	10.4	10.3	12.9	0.8
	<b>Mean</b>		48.5	45.7	50.0	46.4	60.2

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

**2023 Uniform Wheat Variety Trial: SRWW, Hillsboro (Dryland)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt
			4-Year	3-Year	2-Year	2023	(lb/bu)
1	GW 6000	Stratton Seed	62.2	59.1	59.2	54.4	60.5
2	GW 2032	Stratton Seed	59.4	54.8	60.7	62.4	62.5
3	AGS 2055	Stratton Seed	58.7	56.9	58.6	55.2	61.9
4	Dyna-Gro 9332	Dyna-Gro	58.2	56.0	58.9	57.3	64.7
5	GW LA754	Stratton Seed	51.8	48.5	48.3	51.1	60.9
6	AgriMAXX 492	AgriMAXX	50.0	44.7	41.0	44.2	61.5
7	WB2606	Westbred	42.7	35.4	31.4	12.7	.
8	TX17D2337	TAMU		53.2	52.2	46.2	60.8
9	USG 3472	Uni-South Genetics		43.1	37.3	16.3	.
10	Blackland 1828	Blackland Seeds		39.0	32.4	28.3	57.8
11	AgriMAXX 514	AgriMAXX		35.6	28.7	15.9	.
12	Delta Grow 3500	Delta Grow			62.0	63.6	63.3
13	Delta Grow 1800	Delta Grow			59.3	66.2	61.6
14	Dyna-Gro 9002	Dyna-Gro			55.9	52.5	56.9
15	Dyna-Gro 9393	Dyna-Gro			55.4	47.2	58.6
16	Dyna-Gro 9811	Dyna-Gro			53.9	56.2	61.0
17	Dyna-Gro 9701	Dyna-Gro			47.8	38.0	57.8
18	PROGENY #BUSTER	Progeny			47.7	40.2	60.4
19	PROGENY #CHAD	Progeny			47.5	51.8	59.5
20	TX18D3212	TAMU			46.2	42.7	61.6
21	Dyna-Gro 9172	Dyna-Gro			42.5	23.2	.
22	Dyna-Gro 9120	Dyna-Gro			40.0	22.9	.
23	Blackland 2034	Blackland Seeds			40.0	17.7	.
24	Delta Grow 1200	Delta Grow			34.7	19.7	.
25	GA12230-20E36	University of Georgia				71.2	61.2
26	GA131218-20E15	University of Georgia				70.3	62.4
27	AGS 3022	Stratton Seed				66.4	62.5
28	TX20D5116	TAMU				65.7	60.5
29	GA151313-20E48	University of Georgia				65.0	62.2
30	FLLA16124LDH-51	University of Florida				62.7	63.9
31	GA161240-20LE6	University of Georgia				61.2	61.7
32	LA14234CBW-31	LSU				60.4	62.0
33	PROGENY #TURBO	Progeny				58.9	60.7
34	Dyna-Gro 9481	Dyna-Gro				57.7	59.8
35	LA14269SB-BR32-4-1-1	LSU				57.3	62.4
36	AgriMAXX 535	AgriMAXX				56.3	59.5
37	LA14159SB-BR1-1	LSU				55.2	62.2
38	FL15105-LDH043	University of Florida				54.5	62.8
39	LA14272CBB-3-1-4	LSU				53.0	63.2
40	Delta Grow 1700	Delta Grow				52.0	59.5
41	LA14272CBW-15-1-2	LSU				51.6	62.1
42	Dyna-Gro 9290	Dyna-Gro				50.7	59.8
43	TX2017DDH193	TAMU				47.9	61.9
44	Viking 822	Albert Lea Seed				46.6	57.9
45	USG 3783	Uni-South Genetics				46.6	58.9
46	LA15298GBB-5-1-4	LSU				44.7	63.2
47	Blackland 2167	Blackland Seeds				43.8	59.0
48	LA13019c-23-3-1-3	LSU				43.5	60.7
49	Blackland 2255	Blackland Seeds				34.5	59.4
50	Delta Grow 1000	Delta Grow				33.1	57.1
51	Blackland 2248	Blackland Seeds				29.8	.
52	AgriMAXX 516	AgriMAXX				23.6	56.1
53	AgriMAXX EXP 2301	AgriMAXX				22.0	.
54	USG 3463	Uni-South Genetics				18.9	.
55	PROGENY#BINGO	Progeny				9.4	.
	<b>LSD (0.05)</b>		<b>3.8</b>	<b>4.3</b>	<b>5.8</b>	<b>8.1</b>	<b>1.3</b>
	<b>CV (%)</b>		<b>8.4</b>	<b>9.6</b>	<b>10.6</b>	<b>11.0</b>	<b>1.2</b>
	<b>Mean</b>		<b>54.7</b>	<b>47.8</b>	<b>47.6</b>	<b>45.5</b>	<b>60.8</b>

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

**2023 Uniform Wheat Variety Trial: HRWW, McGregor (Dryland)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-Year	3-Year	2-Year	2023	2023
1	Bob Dole	AgriPro	47.5	42.0	48.9	53.4	59.2
2	TAM 116 (TX14A001035)	Adaptive Genetics	47.0	41.1	48.0	63.4	61.2
3	Amigos (TX15M8024)	Adaptive Genetics	46.8	46.8	44.0	52.5	61.3
4	WB4418	Westbred	45.5	45.5	41.4	50.0	57.8
5	Dyna-Gro 7322* (TX14V70214)	Nutrien	45.1	45.1	40.5	47.7	59.3
6	TAM 304	Scott Seed	43.0	43.0	39.3	45.1	57.1
7	WB4699	Westbred	42.5	42.5	35.3	41.9	57.7
8	TX16M9216	TAMU		44.5	52.2	53.6	62.0
9	WB4523	Westbred			52.6	59.3	60.2
10	TX17M1572	TAMU				59.6	58.9
11	Butler's Gold	OSU				55.3	60.0
12	TX18A001132	TAMU				54.5	61.1
13	Showdown	OSU				53.7	59.6
14	High Cotton (OK18510)	OSU				53.2	62.5
15	Uncharted	OSU				52.4	58.2
16	Smith's Gold	OSU				50.2	63.2
17	TX18A001119	TAMU				49.3	63.8
18	TX14M7088-18AZ530	TAMU				46.0	58.2
19	WB4632	Westbred				36.0	58.5
<b>LSD (0.05)</b>			3.2	3.0	3.8	7.7	2.0
<b>CV (%)</b>			9.9	9.0	8.5	9.0	1.9
<b>Mean</b>			44.9	41.7	47.2	52.1	60.0

\*Awnless variety.

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

**2023 Uniform Wheat Variety Trial: SRWW, McGregor (Dryland)**

Rank <sup>†</sup>	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-Year	3-Year	2-Year	2023	2023
1	Dyna-Gro 9332	Dyna-Gro	68.7	66.2	69.5	73.9	64.3
2	AGS 2055	Stratton Seed	60.7	58.0	63.4	70.4	61.6
3	GW 2032	Stratton Seed	59.4	58.2	62.5	67.3	61.3
4	GW 6000	Stratton Seed	58.9	57.1	59.3	65.2	60.2
5	AgriMAXX 492	AgriMAXX	55.9	50.4	50.3	61.3	60.6
6	WB2606	Westbred	55.7	51.0	46.1	44.4	59.8
7	GW LA754	Stratton Seed	45.1	42.3	44.4	44.3	59.1
8	TX17D2337	TAMU		68.4	65.4	66.4	62.3
9	Blackland 1828	Blackland Seeds		48.5	42.7	45.9	57.9
10	USG 3472	Uni-South Genetics		45.7	40.4	28.2	57.1
11	AgriMAXX 514	AgriMAXX		41.5	34.1	27.6	55.8
12	TX18D3212	TAMU			62.4	72.5	62.7
13	Delta Grow 3500	Delta Grow			61.4	60.0	61.4
14	Delta Grow 1800	Delta Grow			59.5	70.6	61.7
15	Dyna-Gro 9811	Dyna-Gro			57.7	66.2	59.9
16	Dyna-Gro 9002	Dyna-Gro			54.9	58.5	58.7
17	PROGENY #BUSTER	Progeny			49.6	45.7	61.9
18	Dyna-Gro 9393	Dyna-Gro			49.5	44.9	57.2
19	Dyna-Gro 9120	Dyna-Gro			45.4	36.9	59.1
20	PROGENY #CHAD	Progeny			44.2	49.1	59.5
21	Dyna-Gro 9701	Dyna-Gro			43.4	41.0	57.5
22	Dyna-Gro 9172	Dyna-Gro			40.7	28.2	56.8
23	Delta Grow 1200	Delta Grow			39.9	30.5	57.7
24	Blackland 2034	Blackland Seeds			38.5	29.7	56.2
25	TX20D5116	TAMU				77.3	60.9
26	GA151313-20E48	University of Georgia				75.6	62.1
27	GA131218-20E15	University of Georgia				73.6	60.7
28	GA12230-20E36	University of Georgia				73.2	59.8
29	AGS 3022	Stratton Seed				71.6	61.5
30	FLLA16124LDH-51	University of Florida				71.3	61.9
31	LA14234CBW-31	LSU				65.8	61.3
32	TX2017DDH193	TAMU				65.7	61.3
33	LA14269SB-BR32-4-1-1	LSU				65.1	61.7
34	GA161240-20LE6	University of Georgia				64.4	61.0
35	LA14272CBB-3-1-4	LSU				64.0	62.8
36	LA14159SB-BR1-1	LSU				63.1	61.9
37	LA14272CBW-15-1-2	LSU				60.6	61.2
38	LA15298GGB-5-1-4	LSU				59.4	62.3
39	PROGENY #TURBO	Progeny				56.3	58.7
40	Dyna-Gro 9290	Dyna-Gro				55.7	59.0
41	AgriMAXX 535	AgriMAXX				53.1	60.1
42	LA13019c-23-3-1-3	LSU				51.8	60.4
43	Delta Grow 1700	Delta Grow				47.6	58.5
44	Dyna-Gro 9481	Dyna-Gro				47.6	58.2
45	FL15105-LDH043	University of Florida				47.0	60.7
46	USG 3783	Uni-South Genetics				46.8	58.5
47	Blackland 2255	Blackland Seeds				45.6	57.7
48	Viking 822	Viking Seeds				43.4	57.7
49	Blackland 2167	Blackland Seeds				41.8	56.4
50	Delta Grow 1000	Delta Grow				37.2	57.5
51	Blackland 2248	Blackland Seeds				29.3	54.9
52	USG 3463	Uni-South Genetics				27.2	.
53	AgriMAXX 516	AgriMAXX				27.0	57.3
54	PROGENY#BINGO	Progeny				25.4	.
55	AgriMAXX EXP 2301	AgriMAXX				19.7	.
	<b>LSD (0.05)</b>		<b>6.4</b>	<b>6.8</b>	<b>5.7</b>	<b>8.8</b>	<b>1.6</b>
	<b>CV (%)</b>		<b>13.5</b>	<b>13.6</b>	<b>9.7</b>	<b>10.4</b>	<b>1.4</b>
	<b>Mean</b>		<b>57.8</b>	<b>53.4</b>	<b>51.1</b>	<b>52.4</b>	<b>59.7</b>

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.





**Cultural Data for 2023 TAMU Wheat Dual-Purpose Trial Locations**

Region	Site Information						
	Location <sup>1</sup>	Cooperator	Yield Limiting Issue	Planting Date	Fertilizer (lb N/ac)	Water	Seeding Rate
Rolling Plains	Foard	Ronnie Allen/ Michael Bowman	Drought	10/20/2022	90	Dryland	1.4M seeds/ac
	Haskell	Mike Urbanzck/ Blake Davis and Josh Kouns	Abandoned- Drought	11/8/2022	110	Dryland	1.4M seeds/ac
	Wilbarger	Bruce Gillis/ Langdon Reagan	Late harvest due to prolonged rain	11/2/2022	90	Dryland	1.4M seeds/ac

<sup>1</sup>All locations were planted into conventionally tilled seedbeds.

**2023 Wheat Dual-Purpose Variety Trial- Foard (Dryland)**

Rank <sup>†</sup>	Variety	Source	Forage Yield (DM lbs/ac)			Dual- Purpose Grain (bu/ac)			Grain Only (bu/ac)		Height (in)	TW (lbs/bu)
			3YR	2 YR	2023 <sup>‡</sup>	3YR	2YR	2023	2YR	2023	2023	2023
<b>1</b>	<b><u>Green Hammer</u></b>	OSU	<b>1579</b>	<b>1538</b>	1342	38	41	43	41	37	24	61
<b>2</b>	<b><u>WB4595</u></b>	Westbred	1005	1114	1185	40	<b>43</b>	47	50	45	25	62
<b>3</b>	<b><u>WB4792</u></b>	Westbred	948	1008	1111	<b>39</b>	42	44	<b>53</b>	36	20	62
<b>4</b>	TAM 115	Watley Seeds	828	771	922	33	33	41	39	42	26	61
<b>5</b>	<b><u>TAM 205</u></b>	Adaptive Genetics		1124	914			40	40	45	35	60
<b>6</b>	WB4632	Westbred			<b>1355</b>			51		47	23	60
<b>7</b>	Strad CL Plus	OSU			<b>1355</b>			40		42	26	60
<b>8</b>	OK Corral*	OSU			1270			.		.	<b>28</b>	58
<b>9</b>	Smith's Gold	OSU			1221			44		41	23	60
<b>10</b>	High Cotton (OK18510)	OSU			1218			58		46	21	59
<b>11</b>	Bob Dole	AgriPro			963			48		47	26	61
<b>12</b>	WB4422	Westbred			840			<b>63</b>		<b>51</b>	23	<b>63</b>
	<i>P 0.05</i>		NS	NS	0.02	NS	NS	0.023	NS	NS	-	NS
	<b>Mean</b>		1090	1111	1141	38	40	47	45	43	24	60

\*Awnless/Beardless Variety

<sup>†</sup>Varieties ranked by 3-Year, 2-Year, then 2023 forage yields.

<sup>‡</sup>Forage was clipped on 2/6/2023

Highlighted values are significantly the same as the highest values at  $p < 0.05$ .

Bold value is the highest value within a year.

No rusts were observed in 2023.

Awnless variety was damaged by wild hogs. Grain yields are not reported.

**Note:** One forage cutting in February had no influence on the grain yield in the dual-purpose practice as compared to the grain-only practice.

Therefore, no grain yield advantage was observed in the grain-only practice.

**Picks list for 2023-2024 dual-purpose variety includes Green Hammer, WB4595, WB4792, and TAM 205.**

**2023 Wheat Dual-Purpose Variety Trial- Wilbarger (Dryland)**

Rank <sup>†</sup>	Variety	Source	Forage Yield (DM lbs/ac)			Dual- Purpose Grain (bu/ac)			Grain Only (bu/ac)		Height (in)	TW (lbs/bu)
			3YR	2 YR	2023 <sup>‡</sup>	3YR	2YR	2023	2YR	2023	2023	2023
1	<b>Green Hammer</b>	OSU	<b>2868</b>	2412	2440	50	52	52	54	39	33	<b>53</b>
2	<b>WB4792</b>	Westbred	2510	2311	2138	57	53	34	58	<b>44</b>	27	48
3	<b>WB4595</b>	Westbred	2499	<b>2481</b>	2240	<b>62</b>	<b>62</b>	<b>56</b>	<b>61</b>	32	28	<b>53</b>
4	TAM 115	Watley Seeds	2008	1347	2251	52	51	38	47	32	28	50
5	<b>TAM 205</b>	Adaptive Genetics		2318	2503		46	30	42	23	28	50
6	OK Corral*	OSU		2399	2007		.	.	.	.	26	.
7	Smith's Gold	OSU			<b>3292</b>			40		32	28	49
8	WB4632	Westbred			2599			40		23	23	51
9	Bob Dole	AgriPro			2537			43		36	<b>34</b>	<b>53</b>
10	High Cotton (OK18510)	OSU			2302			43		31	26	51
11	Strad CL Plus	OSU			2223			34		27	29	50
12	WB4422	Westbred			2092			49		41	29	51
	<i>P</i> 0.05		NS	0.013	NS	NS	NS	NS	NS	NS	-	NS
	<b>Mean</b>		2471	2211	2385	55	53	42	53	33	28	50.7

\*Awnless/Beardless Variety

<sup>†</sup>Varieties ranked by 3-Year, 2-Year, then 2023 forage yields.

<sup>‡</sup>Forage was clipped on 1/23/2023 and 3/1/2023.

Highlighted values are significantly the same as the highest values at  $p < 0.05$ .

Bold value is the highest value within a year.

No rusts were observed in 2023.

Awnless variety was damaged by wild hogs. Grain yields are not reported.

**Note:** Although there were two forage clippings (January and March) in dual-purpose system in 2023, average grain yields were greater in the dual-purpose system as compared to the grain-only system. The reason for the yield difference may be due to the better ground in the dual-purpose system than the grain-only system. In addition, the March cutting did not affect the developing grain head above the first hollow stem. Low test weight may have been caused by summer drought, late harvest, and prolonged wet conditions.

**Picks list for 2023-2024 dual-purpose variety includes Green Hammer, WB4595, WB4792, and TAM 205.**



**Cultural Data for 2023 TAMU Forage Trial Locations**

Region	Site Information						
	Location <sup>1</sup>	Cooperator	Yield Limiting Issue	Planting Date	Fertilizer (lb N/ac)	Water	Seeding Rate
High Plains	Bushland	TAMU AgriLife Research & Extension	Drought	9/19/2022	N/A	Limited Irrigation	1.2M Seeds/ac
Rolling Plains	Eula	--	Drought	10/21/2022	N/A	Dryland	1M Seeds/ac
	Millersview	Mickey Dillard	Drought	10/21/2022	N/A	Dryland	1M Seeds/ac
	San Angelo	TAMU AgriLife Research & Extension	Drought	10/14/2022	N/A	Dryland	1M Seeds/ac
Blacklands	McGregor	TAMU AgriLife Research Farm	Drought	10/21/2022	130	Dryland	1.2M Seeds/ac
South Texas	College Station	TAMU Brazos Bottom Research Farm	Drought	10/19/2022	50	Dryland	1.2M Seeds/ac

<sup>1</sup>All locations were planted into conventionally tilled seedbeds.



**2023 Statewide Cool-Season Forage Variety Trial- Bushland (Irrigated)**

Rank	Variety	Species	Source	Dry Matter Yield (lb/a)			
				Clip 1 7-Dec	Clip 2 17-Mar	Clip 3 17-May	Total 2023
1	Trical Exp 0220	Triticale	Trical Superior Forage	3018	2057	6911	11986
2	TAM 114	HRW	Warner Seeds	2465	2208	5678	10350
3	TX20AT2015	Triticale	TAMU	2664	2794	4804	10262
4	Trical Exp 0209	Triticale	Trical Superior Forage	2790	1864	5383	10037
5	Trical Flex 719	Triticale	Trical Superior Forage	2652	1898	5315	9865
6	TX20AT2014	Triticale	TAMU	2771	1974	5006	9751
7	Titan	Triticale	Watley Seed	3133	1978	4622	9733
8	TX20AT2005	Triticale	TAMU	2870	1602	5136	9608
9	Trical Exp 0305	Triticale	Trical Superior Forage	2783	1505	5287	9575
10	WB4422	HRW	Westbred	2679	1673	5212	9564
11	WB4792	HRW	Westbred	2600	1712	5079	9392
12	TAM 205	HRW	Warner Seeds	2505	1869	4955	9328
13	Trical Exp 22W01	HRW	Trical Superior Forage	2785	1688	4535	9008
14	Dyna-Gro 7322	HRW*	Nutrien	2590	1848	4380	8819
15	TX20AT2018	Triticale	TAMU	2778	1809	4223	8809
16	Trical Gunner	Triticale	Trical Superior Forage	2640	1300	4624	8564
17	TX16VT68295	Triticale	TAMU	2725	1754	3879	8358
18	Trical 20T06	Triticale	Trical Superior Forage	2341	1523	4374	8238
19	Trical 22T01	Triticale	Trical Superior Forage	2821	1117	3618	7555
20	APB717003	HRW	Trical Superior Forage	2587	1282	723	4592
21	APB717019	HRW	Arizona Plant Breeders	2528	909	578	4015
22	APB470308	HRW	Arizona Plant Breeders	2610	706	320	3636
23	APB470298	HRW	Arizona Plant Breeders	2310	734	257	3302
<b>LSD (0.05)</b>				286	546	1190	1398
<b>CV(%)</b>				8	24	20	12
<b>Mean</b>				2680	1644	4126	8450

\*Awnless/Beardless

**2023 Statewide Cool-Season Forage Variety Trial- Bushland (Irrigated)**

Rank <sup>†</sup>	Variety	Species	Source	Dry Matter Yield (lb/a)			
				4-Year AVG	3-Year AVG	2-Year AVG	2023 Total
1	TX14VT70526	Triticale	TAMU	6825	7224	6234	9733
2	TX16VT68295	Triticale	TAMU	6252	6436	5843	8358
3	Dyna-Gro 7322	HRW*	Nutrien	5328	5460	5672	8818
4	Trical Gunner	Triticale	Trical Superior Forage		5929	5643	8564
5	TAM 114	HRW	Adaptive Genetics			6496	10350
6	TX20AT2015	Triticale	TAMU			6112	10262
7	TX20AT2018	Triticale	TAMU			5295	8809
8	Trical 20T06	Triticale	Trical Superior Forage			5271	8238
9	Trical EXP 220	Triticale	Trical				11986
10	Trical EXP 209	Triticale	Trical				10037
11	Trical Flex 719	Triticale	Trical Superior Forage				9865
12	TX20AT2014	Triticale	TAMU				9751
13	TX20AT2005	Triticale	TAMU				9608
14	Trical EXP 305	Triticale	Trical Superior Forage				9575
15	WB4422	HRW	Westbred				9564
16	WB4792	HRW	Westbred				9392
17	TAM 205	HRW	Adaptive Genetics				9328
18	Trical EXP 22W01	HRW	Trical Superior Forage				9008
19	Trical 22T01	Triticale	Trical Superior Forage				7555
20	APB717003	HRS	Arizona Plant Breeders				4592
21	APB717019	HRS	Arizona Plant Breeders				4015
22	APB470308	HRS	Arizona Plant Breeders				3636
23	APB470298	HRS	Arizona Plant Breeders				3302
	<b>LSD (0.05)</b>			794	973	NS	1398
	<b>CV(%)</b>			14	14	13	12
	<b>Mean</b>			6135	6262	5821	8450

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 total yield.

\*Awnless/Beardless

**2023 Statewide Cool-Season Forage Variety Trial- Eula (Dryland)**

Rank	Variety	Species	Source	Dry Matter Yield (lb/a)			
				Clip 1 Jan	Clip 2 Pre-Jointing	Clip 3 Headed	Total 2023
1	Trical 22W01	HRW	Trical Superior Forage	424	367	2683	3475
2	TAM 114	HRW	Warner Seed	215	319	2826	3359
3	TAM 204	HRW	Scott Seed	118	255	2588	2961
4	Dyna-Gro 7322	HRW*	Nutrien	153	199	2545	2896
5	Gallagher	HRW	OSU	157	303	2388	2848
6	Green Hammer	HRW	OSU	232	411	2189	2832
7	Weathermaster 135	HRW	Scott Seed	75	267	2468	2810
8	TX16VT68295	Triticale	TAMU	235	274	2221	2730
9	WB4422	HRW	Westbred	94	194	2433	2722
10	Titan	Triticale	Watley Seed	496	399	1782	2677
11	Trical Exp 0209	Triticale	Trical Superior Forage	351	330	1991	2673
12	WB4792	HRW	Westbred	249	314	2041	2604
13	OK Corral	HRW	OSU	213	230	2137	2580
14	Trical Exp 5621	Triticale	Trical Superior Forage	322	344	1885	2552
15	Trical Exp 0220	Triticale	Trical Superior Forage	310	128	2029	2467
16	Buckaroo	Barley	Turner Seed	318	221	1791	2330
17	TAM 205	HRW	Warner Seed	47	45	2135	2228
18	Trical 131	Triticale	Trical Superior Forage	223	322	1656	2201
19	Trical 21T01	Triticale	Trical Superior Forage	389	298	1475	2163
20	Trical 813	Triticale	Trical Superior Forage	338	235	1236	1809
<b>LSD (0.05)</b>				234	195	755	948
<b>CV(%)</b>				57	43	21	22
<b>Mean</b>				248	273	2125	2646

\*Awnless/Beardless

**2023 Statewide Cool-Season Forage Variety Trial- Millersview (Dryland)**

Rank	Variety	Species	Source	Dry Matter Yield (lb/a)			
				Clip 1 Jan	Clip 2 Pre-Jointing	Clip 3 Headed	Total 2023
1	Dyna-Gro 7322	HRW*	Nutrien	121	680	5011	5813
2	WB4792	HRW	Westbred	96	547	4948	5591
3	TX16VT68295	Triticale	TAMU	67	901	4351	5320
4	Green Hammer	HRW	OSU	82	550	4556	5187
5	Trical Exp 0209	Triticale	Trical Superior Forage	123	859	4202	5183
6	OK Corral	HRW	OSU	85	584	4491	5160
7	Weathermaster 135	HRW	Scott Seed	66	449	4421	4936
8	TAM 114	HRW	Warner Seed	54	618	4152	4823
9	Gallagher	HRW	OSU	57	576	4176	4808
10	TAM 205	HRW	Warner Seed	79	462	4264	4806
11	Trical 131	Triticale	Trical Superior Forage	76	773	3928	4778
12	Trical 22W01	HRW	Trical Superior Forage	67	440	4002	4509
13	Trical 21T01	Triticale	Trical Superior Forage	52	522	3671	4245
14	Trical Exp 5621	Triticale	Trical Superior Forage	86	736	3338	4160
15	WB4422	HRW	Westbred	61	405	3535	4001
16	TAM 204	HRW	Scott Seed	43	615	3330	3987
17	Titan	Triticale	Watley Seed	30	508	3375	3913
18	Buckaroo	Barley	Turner Seed	231	805	2711	3747
19	Trical 813	Triticale	Trical Superior Forage	32	488	2930	3451
20	Trical Exp 0220	Triticale	Trical Superior Forage	104	680	1764	2548
21	Bob	Oat	Specialty Seed	33	97	2063	2183
22	Trical Cadillac	Oat	Trical Superior Forage	19	77	--	84
<b>LSD (0.05)</b>				71	218	899	936
<b>CV(%)</b>				52	23	14	13
<b>Mean</b>				78	562	3772	4238

\*Awnless/Beardless



**2023 Statewide Cool-Season Forage Variety Trial- Millersview (Dryland)**

Rank <sup>†</sup>	Variety	Species	Source	Dry Matter Yield (lb/a)			
				4-Year <sup>‡</sup> AVG	3-Year AVG	2 Year AVG	2023 Total
1	TAM 114	HRW	Adaptive Genetics	4000	3681	3928	4823
2	Weathermaster 135	HRW	Scott Seed	3329	3240	3666	4936
3	Gallagher	HRW	OSU		3416	3695	4808
4	TAM 205	HRW	Adaptive Genetics		3250	3621	4806
5	TX16VT68295	Triticale	TAMU			4068	5320
6	TX14VT70526	Triticale	TAMU			3421	3913
7	Trical 813	Triticale	Trical Superior Forage			3083	3451
8	Dyna-Gro 7322	HRW*	Nutrien				5813
9	WB4792	HRW	Westbred				5591
10	Green Hammer	HRW	OSU				5187
11	Trical EXP 209	Triticale	Trical Superior Forage				5183
12	OK Corral	HRW	OSU				5160
13	Trical 131	Triticale	Trical Superior Forage				4778
14	Trical 22W01	HRW	Trical Superior Forage				4509
15	Trical 21T01	Triticale	Trical Superior Forage				4245
16	Trical EXP 5621	Triticale	Trical Superior Forage				4160
17	WB4422	HRW	Westbred				4001
18	TAM 204	HRW*	Watley Seeds				3987
19	Buckaroo	Barley	Turner				3747
20	Trical EXP 220	Triticale	Trical Superior Forage				2548
21	Bob	Oat	Producers				2183
22	Trical Cadillac	Oat	Trical Superior Forage				84
	<b>LSD (0.05)</b>			533	NS	798	936
	<b>CV(%)</b>			15	16	15	13
	<b>Mean</b>			3664	3397	3640	4238

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 total yield.

<sup>‡</sup>4-year average based on 2019, 2020, 2021, and 2023 yields.

\*Awnless/Beardless



**2023 Statewide Cool-Season Forage Variety Trial- San Angelo (Dryland)**

Rank	Variety	Species	Source	Dry Matter Yield (lb/a)		
				Clip 1 Jan	Clip 2 Pre-Jointing	Total 2023
1	Gallagher	HRW	OSU	707	661	1367
2	Trical Exp 0220	Triticale	Trical Superior Forage	376	930	1306
3	TAM 114	HRW	Warner Seeds	792	492	1284
4	WB4792	HRW	Westbred	707	553	1260
5	OK Corral	HRW	OSU	762	475	1238
6	TAM 204	HRW*	Scott Seed	484	751	1235
7	Green Hammer	HRW	OSU	602	615	1217
8	Trical Exp 0209	Triticale	Trical Superior Forage	578	633	1211
9	Trical 21T01	Triticale	Trical Superior Forage	564	638	1202
10	TX16VT68295	Triticale	TAMU	547	636	1183
11	Weathermaster 135	HRW	Scott Seed	591	580	1171
12	Dyna-Gro 7322	HRW*	Nutrien	627	512	1139
13	Trical 813	Triticale	Trical Superior Forage	465	658	1122
14	WB4422	HRW	Westbred	663	458	1121
15	Trical 22W01	HRW	Trical Superior Forage	604	492	1097
16	Trical Exp 5621	Triticale	Trical Superior Forage	383	703	1086
17	Titan	Triticale	Watley Seed	543	540	1083
18	Buckaroo	Barley	Turner Seed	630	420	1050
19	TAM 205	HRW	Warner Seeds	451	508	959
20	Bob	Oat	Specialty Seed	465	466	931
21	Trical 131	Triticale	Trical Superior Forage	383	409	792
22	Trical Cadillac	Oat	Trical Superior Forage	432	200	631
	<b>LSD (0.05)</b>			183	279	391
	<b>CV(%)</b>			20	30	21
	<b>Mean</b>			562	560	1122

\*Awnless/Beardless



**2023 Statewide Cool-Season Forage Variety Trial- McGregor (Dryland)**

Rank	Variety	Species	Source	Dry Matter Yield (lb/a)		
				Clip 1 10-Mar	Clip 2 21-Apr	Total 2023
1	Dyna-Gro 7322	HRW*	Nutrien	10357	5461	15818
2	Titan	Triticale	Watley Seed	13363	1893	15256
3	TX16VT68295	Triticale	TAMU	10366	3219	13585
4	TAMO 412	Oat	TAMU	7668	4240	11909
5	TAMO 606	Oat	TAMU	6726	3094	9821
6	APB717003	Wheat	Arizona Plant Breeders	7142	1619	8761
7	TX16OCS7048	Oat	TAMU	3864	4723	8587
8	TX17OCS8075	Oat	TAMU	3368	4701	8068
9	TX15OCS6163	Oat	TAMU	2968	4946	7914
10	TX16OCS7093	Oat	TAMU	2954	4321	7274
11	SSI30-06	Wheat	Specialty Seeds	1885	4833	6719
12	APB717019	Wheat	Arizona Plant Breeders	4130	2524	6654
13	APB470308	Wheat	Arizona Plant Breeders	3934	2585	6518
14	APB470298	Wheat	Arizona Plant Breeders	2414	2241	4656
<b>LSD (0.05)</b>				1951	1330	2043
<b>CV(%)</b>				20	22	13
<b>Mean</b>				5796	3600	9396

\*Awnless/Beardless

**2023 Statewide Cool-Season Forage Variety Trial- College Station (Dryland)**

Rank	Variety	Species	Source	Dry Matter Yield (lb/a)		
				Clip 1 9-Mar	Clip 2 20-Apr	Total 2023
1	Titan	Triticale	Watley Seed	1481	9371	10852
2	TX16OCS7093	Oat	TAMU	2551	7686	10237
3	TX15OCS6163	Oat	TAMU	1721	7793	9514
4	TAMO 606	Oat	TAMU	2816	6333	9148
5	TX16VT68295	Triticale	TAMU	1359	7788	9147
6	Trical Cadillac	Oat	Trical Superior Forage	3220	5837	9057
7	Dyna-Gro 7322	HRW*	Nutrien	1146	7550	8696
8	Trical Exp 0305	Triticale	Trical Superior Forage	2509	6172	8681
9	TX17OCS8075	Oat	TAMU	165	8254	8419
10	Trical Exp 22W01	Wheat	Trical Superior Forage	870	6982	7852
11	TAMO 412	Oat	TAMU	682	6698	7380
12	TX16OCS7048	Oat	TAMU	2052	5267	7319
13	Trical 21T01	Triticale	Trical Superior Forage	3200	3733	6933
14	Trical Exp 0209	Triticale	Trical Superior Forage	1352	4681	6033
15	SSI30-06	HRW	Specialty Seeds	848	3338	4186
16	Trical Exp 0220	Triticale	Trical Superior Forage	250	3226	3476
<b>LSD (0.05)</b>				980	4397	4827
<b>CV(%)</b>				36	42	36
<b>Mean</b>				1639	6294	7933

\*Awnless/Beardless



**2023 Statewide Cool-Season Forage Variety Trial- College Station (Dryland)**

Rank <sup>†</sup>	Variety	Species	Source	Dry Matter Yield (lb/a)			
				4-Year AVG	3-Year AVG	2 Year AVG	2023 Total
1	TX15OCS6163	Oat	TAMU	5680	5829	6589	9515
2	TAMO 606	Oat	TAMU	5444	5293	5880	9148
3	Dyna-Gro 7322	HRW*	Nutrien	4865	5129	5702	8696
4	TAMO 412	Oat	TAMU	4671	4698	5350	7380
5	TX14VT70526	Triticale	TAMU		6267	6947	10852
6	Trical Cadillac	Oat	Trical Superior Forage			6109	9057
7	TX17OCS8075	Oat	TAMU			5986	8419
8	TX16OCS7093	Oat	TAMU				10237
9	TX16VT68295	Triticale	TAMU				9147
10	Trical EXP 305	Triticale	Trical Superior Forage				8681
11	Trical EXP 22W01	HRW	Trical Superior Forage				7852
12	TX16OCS7048	Oat	TAMU				7319
13	Trical 21T01	Triticale	Trical Superior Forage				6933
14	Trical Exp 0209	Triticale	Trical Superior Forage				6033
15	SSI30-06	HRW	Specialty Seeds				4186
16	Trical Exp 0220	Triticale	Trical Superior Forage				3476
	<b>LSD (0.05)</b>			NS	NS	NS	4827
	<b>CV(%)</b>			29	31	33	36
	<b>Mean</b>			5165	5443	6081	7933

<sup>†</sup>Varieties ranked according to 4-year, 3-year, 2-year, then 2023 total yield.

\*Awnless/Beardless

**2022-2023 Texas A&M AgriLife Small Grain Silage Trial at Bushland**

Planted 31-Oct-22  
 Seeding Rate (Wheat and Triticale) 1,200,000 seeds/ac  
 Seeding Rate (Rye) 800,000 seeds/ac  
 Irrigation 7 inches  
 Precipitation 12.4 inches  
**Contact:** Jourdan Bell; jourdan.bell@ag.tamu.edu ; 806-341-8925

Entry	Variety	Species	Company/Developer	Status	Boot					Heading Date	Days from Boot to SD	Soft-Dough				
					Harvest Date	Ht (in.)	% Moisture at Harvest	Yield (lbs/ac) DM Basis	Yield (tons/ac) DM Basis			Harvest Date	Ht (in.)	% Moisture at Harvest	Yield (lbs/ac) DM Basis	Yield (tons/ac) DM Basis
1	Dyna-Gro 7322 (TX14V702)	Wheat	Nutrien/AgriLife	Released	4/29/2023	17.7	74.2	3535	1.8	5/2/2023	36	6/5/2023	30.2	60.3	10929	5.5
2	TAM 114	Wheat	Adaptive Genetics/AgriLife	Released	4/29/2023	18.7	75.8	3859	1.9	5/4/2023	36	6/5/2023	31.0	61.3	10737	5.4
3	TAM 115	Wheat	Watley Seed/AgriLife	Released	5/2/2023	21.0	75.5	4764	2.4	5/7/2023	34	6/5/2023	32.3	61.9	11584	5.8
4	TAM 204	Wheat	Watley Seed/AgriLife	Released	4/29/2023	18.9	74.8	4684	2.3	5/3/2023	32	6/5/2023	30.3	63.9	8870	4.4
6	AP Longjack	Wheat	AgriPro/Syngenta	Released	4/29/2023	15.3	75.6	3305	1.7	5/2/2023	33	6/5/2023	29.3	61.0	10410	5.2
7	AP Prolific	Wheat	AgriPro/Syngenta	Released	4/29/2023	18.3	75.9	4314	2.2	5/2/2023	32	6/5/2023	31.2	65.3	9941	5.0
8	AP EverRock	Wheat	AgriPro/Syngenta	Released	4/29/2023	16.0	72.6	3773	1.9	4/30/2023	34	6/5/2023	27.3	61.3	8961	4.5
9	Amplify SF	Wheat (solid stem)	CSU	Released	5/2/2023	22.3	77.3	4328	2.2	5/9/2023	32	6/5/2023	32.7	63.6	10640	5.3
10	Fortify SF	Wheat (solid stem)	CSU	Released	5/1/2023	20.1	73.9	4078	2.0	5/5/2023	33	6/5/2023	30.7	63.0	10014	5.0
11	Windom SF	Wheat (solid stem)	CSU	Released	4/30/2023	17.2	74.5	4241	2.1	5/5/2023	36	6/5/2023	29.2	65.3	10052	5.0
12	TX16VT68295	Triticale	AgriLife	Experimental	4/29/2023	24.3	78.7	4296	2.1	5/4/2023	40	6/12/2023	43.0	60.8	12275	6.1
13	TX20AT2005	Triticale	AgriLife	Experimental	5/7/2023	35.7	82.7	5969	3.0	5/9/2023	48	6/21/2023	52.0	54.5	13080	6.5
14	TX20AT2014	Triticale	AgriLife	Experimental	5/5/2023	36.0	81.6	5422	2.7	5/11/2023	48	6/21/2023	46.7	54.9	12829	6.4
15	TX20AT2015	Triticale	AgriLife	Experimental	5/2/2023	32.7	78.8	6555	3.3	5/9/2023	46	6/16/2023	45.0	54.8	13884	6.9
16	TX20AT2018	Triticale	AgriLife	Experimental	5/2/2023	34.3	78.6	5600	2.8	5/9/2023	43	6/16/2023	44.7	58.0	12787	6.4
17	Thundertall	Triticale	Ehmke	Released	5/7/2023	37.5	79.9	6146	3.1	5/16/2023	51	6/21/2023	53.3	53.9	14447	7.2
18	Thundertall II	Triticale	Ehmke	Released	5/7/2023	38.5	78.7	7330	3.7	5/16/2023	47	6/21/2023	55.3	57.0	15177	7.6
19	ThunderCale V	Triticale	Ehmke	Released	5/2/2023	25.2	81.4	5563	2.8	5/9/2023	39	6/12/2023	42.0	66.3	13683	6.8
20	SlickTrit II	Triticale	Watley Seed	Released	5/10/2023	34.0	79.0	7317	3.7	5/12/2023	52	6/21/2023	54.7	55.2	15517	7.8
21	Titan	Triticale	Watley Seed/AgriLife	Released	5/1/2023	26.6	79.5	4946	2.5	5/6/2023	44	6/16/2023	47.3	56.5	12688	6.3
22	T-23	Triticale (facultative)	Watley Seed	Released	5/2/2023	30.0	79.9	5451	2.7	5/11/2023	41	6/12/2023	45.0	62.5	13335	6.7
23	ThunderGreen	Rye	Ehmke	Released	5/7/2023	28.0	87.2	4423	2.2	5/9/2023	50	6/21/2023	44.0	63.6	12859	6.4
24	Aviator	Rye	Adaptive Genetics/KWS	Released	5/3/2023	32.2	83.5	5443	2.7	5/9/2023	44	6/15/2023	37.7	65.4	12652	6.3
25	Aviator	Rye	KWS	Released	5/2/2023	32.7	83.4	5585	2.8	5/9/2023	46	6/16/2023	44.3	64.0	12596	6.3
26	Progas	Rye	KWS	Released	5/1/2023	23.8	82.2	4962	2.5	5/6/2023	42	6/16/2023	38.7	62.7	12762	6.4
27	Propower	Rye	KWS	Released	5/7/2023	29.0	83.1	4806	2.4	5/11/2023	41	6/12/2023	41.0	68.3	10698	5.3
30	Surge	Triticale	TriCal	Released	5/7/2023	27.3	83.7	4635	2.3	5/9/2023	46	6/16/2023	41.3	61.4	12951	6.5
31	Thor	Triticale	TriCal	Released	5/12/2023	32.3	77.9	6342	3.2	5/16/2023	49	6/21/2023	49.3	53.4	14074	7.0
32	TAM 114	Wheat	Adaptive Genetics/AgriLife	Released	4/30/2023	18.7	75.7	3849	1.9	5/5/2023	31	6/5/2023	33.0	61.6	11162	5.6
33	TAM 205	Wheat	Adaptive Genetics/AgriLife	Released	4/29/2023	18.0	75.6	3794	1.9	5/2/2023	33	6/5/2023	30.8	59.5	10265	5.1
					<b>Mean</b>	25.9	78.6	4947	2.5			<b>Average</b>	39.8	60.7	12062	6.0
					<b>CV (%)</b>	8.6	1.7		13.6			<b>cv</b>	9.2	4.4		10.9
					<b>p-value</b>	<0.0001	<0.0001		<0.0001			<b>p-value</b>	<0.0001	<0.0001		<0.0001
					<b>LSD*</b>	3.9	2.3		0.6			<b>LSD*</b>	6.0	4.3		1.1

\*Fishers LSD

\*Fishers LSD

**2022-2023 Small Grain Silage Trial at Bushland**

Forage Nutritive Value at Boot and Soft-Dough

All forage constituents reported on a DM Basis

Samples processed by Dairy One Forage Testing Laboratory; Ithaca, NY

Contact: Jourdan Bell; jourdan.bell@ag.tamu.edu ; 806-341-8925

Entry	Variety	Type	Company/Source	Yield (tons/ac) DM		% Crude Protein		% Soluble Protein		% Lignin		% Starch		% WSC		% Calcium		% Phosphorus	
				Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough
1	TX14V70214	wheat	AgriLife	1.77	5.46	16.9	12.1	44.0	49.7	1.87	2.80	0.20	22.07	27.3	8.2	0.21	0.10	0.26	0.28
2	TAM 114	wheat	Watley Seed	1.93	5.37	17.7	11.3	45.3	49.0	2.30	3.53	0.20	16.80	24.4	8.7	0.31	0.19	0.29	0.24
3	TAM 115	wheat	Watley Seed	2.38	5.79	17.5	12.5	46.7	50.0	3.00	2.93	0.20	17.50	23.0	6.5	0.27	0.22	0.28	0.25
4	TAM 204	wheat	Watley Seed	2.34	4.43	18.8	12.5	46.0	49.0	2.67	3.07	0.27	18.83	23.8	8.5	0.32	0.27	0.30	0.28
6	AP Longjack	wheat	AgriPro/Syngenta	2.16	5.20	17.8	11.6	47.3	48.3	2.23	3.20	0.20	19.37	25.8	7.7	0.28	0.18	0.30	0.27
7	AP Prolific	wheat	AgriPro/Syngenta	1.89	4.97	17.5	10.7	48.0	51.3	3.03	3.40	0.20	16.23	24.4	10.6	0.29	0.22	0.29	0.25
8	AP EverRock	wheat	AgriPro/Syngenta	2.16	4.48	17.0	12.8	47.7	51.7	2.00	3.80	0.20	20.70	25.4	9.1	0.25	0.19	0.28	0.33
9	Amplify SF	wheat (solid stem)	CSU	2.04	5.32	17.2	11.5	45.7	53.0	2.83	3.23	0.20	12.13	22.9	8.7	0.24	0.28	0.28	0.23
10	Fortify SF	wheat (solid stem)	CSU	2.12	5.01	16.3	10.1	46.3	57.3	2.13	4.10	0.20	10.30	26.6	11.8	0.22	0.24	0.27	0.23
11	Windom AF	wheat (solid stem)	CSU	2.15	5.03	15.8	12.1	43.0	54.3	2.20	3.10	0.20	17.50	26.3	7.3	0.16	0.20	0.26	0.28
13	TX20AT2005	triticale	AgriLife	2.71	6.54	15.7	9.4	41.3	57.7	3.63	4.40	0.20	16.57	12.5	6.3	0.29	0.28	0.33	0.21
15	TX20AT2015	triticale	AgriLife	2.80	6.94	15.3	9.2	48.0	56.0	3.27	4.80	0.20	15.37	19.7	6.1	0.27	0.35	0.30	0.16
16	TX20AT2018	triticale	AgriLife	3.07	6.39	16.4	10.2	43.3	53.7	3.20	3.87	0.20	15.00	17.8	5.9	0.22	0.24	0.30	0.20
17	Thundertall	triticale	Ehmke	3.67	7.22	16.1	8.3	44.0	60.7	3.37	5.10	0.27	12.37	15.7	6.1	0.19	0.32	0.36	0.14
18	Thundertall II	triticale	Ehmke	2.78	7.59	17.2	10.3	43.3	56.7	3.50	3.87	0.27	15.83	14.0	7.1	0.24	0.28	0.35	0.26
19	ThunderCale V	triticale	Ehmke	3.66	6.84	17.9	10.5	47.0	57.3	3.57	3.73	0.20	13.73	18.5	6.1	0.24	0.27	0.35	0.22
20	SlickTrit II	triticale	Watley Seed	2.47	7.76	15.3	8.8	43.3	52.3	4.00	5.00	0.20	14.03	14.4	4.6	0.24	0.33	0.36	0.13
21	Tamcale 7526	triticale	AgriLife/Watley Seed	2.73	6.34	16.4	10.3	49.3	58.3	2.87	3.47	0.20	15.03	21.5	7.1	0.27	0.28	0.32	0.22
22	T-23	triticale (facultative)	Watley Seed	2.21	6.67	17.6	9.9	46.3	58.0	3.53	3.70	0.20	16.17	17.8	7.1	0.26	0.18	0.32	0.23
23	ThunderGreen	Rye	Ehmke	2.72	6.43	23.1	10.6	40.3	51.7	3.50	4.13	0.20	14.63	10.6	9.0	0.39	0.24	0.50	0.28
24	Aviator	Rye	Warner Seeds	2.79	6.33	19.6	9.7	43.3	55.3	2.80	4.33	0.20	13.20	15.1	8.8	0.22	0.18	0.38	0.19
			<b>Mean</b>	2.47	6.03	17.1	10.8	45.2	53.6	2.87	3.77	0.21	15.83	20.8	7.7	0.26	0.24	0.32	0.23
			<b>CV (%)</b>	13.60	10.90	6.0	11.7	16.6	7.3	18.60	16.30	18.60	30.49	8.1	25.4	27.90	30.52	10.10	24.65
			<b>p-value</b>	<0.0001	<0.0001	0.0320	0.0006	<0.0001	0.0031	0.0899	0.0004	0.1379	0.4631	<0.0001	0.0136	0.5099	0.0531	<0.0001	0.0337
			<b>LSD (Fishers LSD)</b>	0.60	1.10	2.2	2.1	4.7	6.5	NS	1.01	NS	NS	NS	3.2	NS	0.12	0.05	0.09

Entry	Variety	Type	Company/Source	% Potassium		% ADF		% aNDF		% NDFD30		% IVTD30		% TDN		tons TDN/ac			
				Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough	Boot	Soft-Dough		
1	TX14V70214	wheat	AgriLife	2.59	1.41	24.5	25.6	42.9	44.6	69.0	48.0	86.7	76.7	74.3	68.7	1.31	3.75		
2	TAM 114	wheat	Watley Seed	3.00	1.23	26.8	31.0	45.0	51.1	69.0	49.3	86.3	73.7	72.3	66.0	1.40	3.54		
3	TAM 115	wheat	Watley Seed	2.89	1.41	27.2	29.2	45.5	51.1	65.0	47.3	84.0	73.0	71.0	65.7	1.69	3.80		
4	TAM 204	wheat	Watley Seed	2.81	1.50	25.5	26.2	43.5	45.6	67.7	47.7	85.7	76.0	72.3	67.3	1.69	2.99		
6	AP Longjack	wheat	AgriPro/Syngenta	2.88	1.11	25.2	27.5	43.1	47.6	69.0	46.3	86.7	74.7	72.7	64.3	1.20	3.35		
7	AP Prolific	wheat	AgriPro/Syngenta	3.11	1.22	26.4	29.0	44.6	48.0	67.3	46.0	85.7	74.0	71.0	65.7	1.53	3.26		
8	AP EverRock	wheat	AgriPro/Syngenta	2.52	1.23	26.5	26.9	44.7	45.1	65.0	47.0	84.0	76.3	73.3	65.3	1.38	2.93		
9	Amplify SF	wheat (solid stem)	CSU	3.00	1.40	28.9	32.1	45.8	54.3	65.7	48.0	84.3	72.0	70.3	63.3	1.52	3.37		
10	Fortify SF	wheat (solid stem)	CSU	2.89	1.16	26.1	34.3	44.9	56.1	67.7	46.3	85.3	70.0	73.3	62.0	1.50	3.10		
11	Windom AF	wheat (solid stem)	CSU	2.69	1.31	26.6	30.7	45.5	50.0	66.3	47.7	84.7	73.7	73.3	65.3	1.56	3.28		
13	TX20AT2005	triticale	AgriLife	2.78	1.59	34.5	34.4	57.8	54.7	61.7	40.7	77.7	67.7	65.7	58.0	1.96	3.79		
15	TX20AT2015	triticale	AgriLife	2.56	1.69	30.9	34.3	52.1	57.1	62.7	42.3	80.7	67.3	68.7	56.7	2.25	3.93		
16	TX20AT2018	triticale	AgriLife	2.67	1.49	31.4	33.3	53.0	55.2	61.3	42.3	79.7	68.3	69.0	59.0	1.93	3.77		
17	Thundertall	triticale	Ehmke	3.19	1.78	32.2	38.0	53.9	58.8	64.7	40.7	80.7	65.3	67.0	54.3	2.06	3.92		
18	Thundertall II	triticale	Ehmke	3.13	1.58	33.1	33.2	55.0	53.7	63.0	44.7	79.7	70.7	67.3	60.0	2.47	4.55		
19	ThunderCale V	triticale	Ehmke	2.99	1.69	29.9	34.5	49.2	55.4	66.3	47.0	83.3	70.3	68.3	62.0	1.90	4.24		
20	SlickTrit II	triticale	Watley Seed	3.07	1.64	35.0	37.7	55.5	60.1	62.3	43.0	79.0	65.3	64.7	55.3	2.37	4.29		
21	Tamcale 7526	triticale	AgriLife/Watley Seed	3.10	1.73	28.8	32.0	48.6	51.8	64.7	42.0	82.7	69.7	70.0	61.3	1.73	3.89		
22	T-23	triticale (facultative)	Watley Seed	2.77	1.57	30.3	32.5	49.5	54.0	65.0	45.7	82.7	70.7	68.3	62.7	1.86	4.18		
23	ThunderGreen	Rye	Ehmke	3.45	1.84	30.2	32.4	51.6	53.1	71.0	47.0	84.7	71.7	68.3	64.3	1.51	4.14		
24	Aviator	Rye	Warner Seeds	2.91	1.60	31.3	34.0	50.4	55.1	65.3	46.3	82.7	70.3	70.0	63.7	1.90	4.03		
			<b>Mean</b>	2.88	1.50	29.0	31.8	48.4	52.5	65.7	45.8	83.2	71.4	70.2	62.6	1.75	3.72		
			<b>CV (%)</b>	6.60	15.80	4.8	13.7	2.6	11.7	4.3	5.1	1.9	5.1	2.0	5.8				
			<b>p-value</b>	0.0006	0.0027	<0.0001	0.0503	<0.0001	0.1441	0.0110	<0.0001	<0.0001	0.0053	<0.0001	0.0002				
			<b>LSD (Fishers LSD)</b>	0.33	NS	2.4	NS	2.2	NS	4.9	3.8	2.7	6.0	2.4	6.0				