

Certified Seed Only and PVPA: Wheat Varieties

In the past few years many if not most companies have moved to implement additional protections on their wheat varieties. This includes limiting planting to Certified Seed Only (CSO). This is an effort to better recapture the cost of developing and releasing a new wheat variety. This cost can be several million dollars in great part because wheat breeding programs test potentially hundreds of crosses through many generations over multiple locations to find one that is commercially viable. As part of the farmer purchase of a CSO variety farmers are required to sign a Stewardship Agreement with the variety developer. The key regulation is the farmer may NOT save any seed for planting a future crop. This is a contractual matter, not a legal one. If 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 these terms then simply do not purchase a CSO variety. There are other good variety choices.

Some state 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 Plant Variety Protection Act (1994) allows a farmer to save his or her own harvested grain to the extent of their own acres they intend to plant the next cropping season. The primary reason is to reduce wheat seed purchase costs, which can be substantial over large acreages. PVPA expires at 20 years. Most wheat variety developers also use patents as a means to govern the use and reuse of their varieties. This provision is generally regarded as stronger than PVPA. Texas A&M AgriLife will be updating a previous guide on wheat and PVPA in August 2023. For a 2005 AgriLife review of PVPA see <https://varietytesting.tamu.edu/wp-content/uploads/sites/17/legacy-files/wheat/docs/plantvarietyprotectionact.pdf>

Texas A&M AgriLife Online Information for Texas Wheat

For further AgriLife wheat information for the Texas High Plains and statewide visit the online wheat pages at:

- <https://amarillo.tamu.edu/amarillo-center-programs/agronomy/wheat-publications/>
- <http://varietytesting.tamu.edu/wheat>

2023 Texas Location Agronomic Data:

High Plains

Location ¹	Cooperator(s)	Yield limiting issues	Planting date	Fertilizer (Total lb N/ac)	Water*	Seeding Rate
Bushland Dryland	Texas A&M AgriLife Research & Extension Center	ABANDONED Drought and Wind Injury	10/6/2022	None	D	600K Seeds/ac
Bushland Irrigated	Texas A&M AgriLife Research & Extension Center	Drought, Inoperable Irrig. System to April, Russian Wheat Aphids	10/31/2022	70	IL	1.1 M Seed/ac
Cotton Center	Jay Ray Sageser	Abandoned; poor stand due to heavy cotton stubble	11/2/2022	N/A	IL	1.1M Seeds/ac
Dalhart	3B Farms	ABANDONED Hail	11/8/2022	N/A	IL	1.1M Seeds/ac
Dumas	Reznik Farms	Late Emergence, Drought	11/7/2022	N/A	IL	1.1M Seeds/ac
Groom	James Weinheimer	Drought Wind	9/16/2022	N/A	D	600K Seeds/ac
Lubbock	Texas A&M AgriLife Research & Extension Center	Harvested but poor data due to Drought	10/20/2022	N/A	D	600K Seeds/ac
Nazareth	Clay Cogburn	ABANDONED Drought	11/2/2022	N/A	D	600K Seeds/ac
Olton	Dustin McFaddin	None	10/21/2022	~75	IF	1.1M Seeds/ac
Perryton	Ramon Vera	ABANDONED Drought	11/22/2022	N/A	D	600K Seeds/ac

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

¹All locations conventionally tilled.

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

Rank†	Variety	Source	Avg. Yld (bu/A)	Yield (bu/a)			Test Wt (lb/bu)
				Bushland	Dumas	Olton	
1	Monarch§	CSU	90.2	103.6	79.5	87.5	58.4
2	TAM 114	TAMU	89.7	100.7	89.9	78.5	59.4
3	TAM 205	TAMU	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	Syngenta	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	Syngenta	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	CSU	83.7	90.5	80.7	80.0	58.9
14	TAM 116¶ (TX14A001035)	TAMU	83.6	91.8	78.9	80.2	59.6
15	TAM 115	TAMU	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	TAMU	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	CSU	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	CSU	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	Syngenta	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	TX15M8024	TAMU	76.8	85.2	73.7	71.6	58.3
29	TAM 204**	TAMU	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
Coefficient of Variation (%CV)			---	8.3	6.2	13.6	---
Least Significant Diff. (LSD, 0.05)			---	10.5	5.5	10.0	---
Mean			82.2	91.1	77.6	78.0	58.9

†Varieties ranked according to 3-location yield average.

**Awnless variety.

§Hard white winter wheat.

‡Historical check (1970s).

¶New release, minimal seed available until fall 2024.

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

Rank†	Variety	Source	Yield (bu/ac)				2023 Test Wt.
			4-Year	3-Year	2-Year	2023	(lb/bu)
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)	TAMU	87.1	84.1	73.8	91.8	59.8
4	TAM 114	TAMU	87.1	90.9	84.6	100.7	61.3
5	Canvas	CSU	85.8	83.2	75.7	89.0	59.0
6	TAM 115	TAMU	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	Syngenta	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	TAMU	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	TAMU	80.3	81.8	71.5	93.5	62.3
13	TAM 204**	TAMU	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	Syngenta		77.1	64.1	86.4	60.1
16	TX15M8024	TAMU		75.0	62.8	85.2	58.2
17	TX16M9216	TAMU		74.8	66.2	85.7	58.8
18	Monarch§	CSU			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	Syngenta				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	CSU				91.7	59.2
29	TX18A001132	TAMU				90.8	60.6
30	Guardian	CSU				90.5	58.5
31	OK15MASBx7ARS8-29	OSU				88.1	59.4
Coefficient of Variation (%CV)			21.2	23.0	25.2	8.3	1.4
Least Significant Diff. (LSD, 0.05)			22.1	25.2	26.4	10.5	1.3
Mean			83.4	83.6	73.0	91.1	59.6

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

**Awnless variety.

‡Historical check (1970s)

§Hard white winter wheat.

¶New release, minimal seed available until fall 2024.

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

Rank†	Variety	Source	Yield (bu/ac)				Test Wt. (lb/bu)
			4-Year	3-Year	2-Year	2023	2023
1	CP7017AX	Croplan	85.1	80.0	91.3	85.0	56.9
2	TAM 114	TAMU	83.8	76.7	88.9	89.9	55.5
3	TAM 205	TAMU	83.0	79.3	81.6	90.8	58.2
4	Canvas	CSU	80.6	76.4	83.0	71.5	55.1
5	SY Wolverine	Syngenta	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)	TAMU	77.3	71.7	83.1	78.9	57.1
8	TAM 115	TAMU	75.9	74.3	78.4	75.2	58.6
9	TAM 112	TAMU	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**	TAMU	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	Syngenta		64.1	72.8	72.2	55.5
17	TX15M8024	TAMU		61.0	70.6	73.7	56.0
18	LCS Helix AX	Limagrain			88.7	81.2	56.8
19	Monarch§	CSU			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	Syngenta				83.5	56.5
26	Guardian	CSU				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	CSU				70.9	55.1
Coefficient of Variation (%CV)			19.4	21.2	10.0	6.2	1.0
Least Significant Diff. (LSD, 0.05)			19.5	21.0	11.0	5.5	1.0
Mean			77.0	71.2	80.2	77.6	56.2

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

**Awnless variety.

‡ Historical check (1970s)

§ Hard white winter wheat.

¶ New release, minimal seed available until fall 2024.

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

Rank†	Variety	Developer/ Marketer	2-Year: 2021 & 2023			2023		
			Avg Yield (bu/A)	Avg Test (lbs./bu)	Avg Height (inches)	Yield (bu/A)	Test Wt (lb/bu)	Height (inches)
1	Showdown	OSU	82.0	57.4	31	85.2	60.6	36
2	AP Roadrunner	Syngenta	80.1	57.0	31	85.4	60.5	33
3	TAM 115	TAMU / Watley	80.0	59.8	30	80.9	62.2	34
4	TAM 205	TAMU / Adaptive	79.0	59.5	31	79.6	61.9	33
5	TX16M9216	TAMU	78.2	58.0	32	81.3	61.3	35
6	Kivari AX	CSU	77.8	57.4	30	77.1	60.5	33
7	TAM 116¶ (TX14A001035)	TAMU / Adaptive	76.8	59.0	28	80.2	61.9	31
8	Breakthrough	OSU	74.5	58.4	28	78.1	61.1	32
9	AP EverRock	Syngenta	74.4	57.0	27	75.1	60.6	28
10	TAM 114	TAMU / Adaptive	74.3	58.3	29	78.5	61.3	33
11	Guardian	CSU	74.1	58.4	31	80.0	61.0	33
12	SY Wolverine	Syngenta	73.8	57.6	29	74.0	61.2	30
13	WB4792	WestBred	73.1	59.7	29	72.6	62.7	33
14	OK Corral**	OSU	72.1	56.1	30	78.3	58.7	33
15	CP7017AX	Croplan	71.5	57.7	29	79.8	61.4	31
16	TAM 112	TAMU / Watley	70.8	58.3	29	74.3	60.9	31
17	Canvas	CSU	70.3	58.4	30	76.9	61.2	32
18	TX15M8024	TAMU	68.6	57.4	32	71.6	60.6	35
19	Dyna-Gro 7322**¶ (TX14V70214)	TAMU / JoMar	67.2	57.2	30	71.8	60.7	33
20	TAM 204**	TAMU / Watley	61.5	56.5	30	66.2	59.7	32
21	TAM W-101‡	TAMU	56.2	57.1	28	52.7	59.6	30
22	High Cotton (OK18510)	OSU				88.8	61.5	36
23	LCS Atomic AX	LimaGrain				88.1	60.5	32
24	Monarch§	CSU				87.5	60.3	29
25	LCS Julep	LimaGrain				85.8	61.7	35
26	TX18A001119	TAMU				85.1	62.5	32
27	WB4422	Westbred				84.0	61.6	33
28	OK15MASBx7ARS8-29	OSU				83.6	61.3	34
29	TX18A001132	TAMU				81.1	60.1	32
30	AP Prolific	Syngenta				75.7	61.2	35
31	LCS Helix AX	LimaGrain				73.3	60.9	32
32	LCS Steel AX	LimaGrain				69.6	59.4	35
Coefficient of Variation (%CV)			---	---	---	13.6	1.7	2.6
Least Significant Diff. (LSD, 0.05)			---	---	---	10.5	0.8	2.2
Mean			73.2	57.9	30	78.2	60.9	31

†Varieties ranked according to 2-year then 2023 yield average.

**Awnless variety.

‡Historical check (1970s)

§Hard white winter wheat.

¶New release, minimal seed available until fall 2024.

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

Rank [†]	Variety	Source	Yield (bu/ac)			Test Wt. (lb/bu)
			3-Year 2020 2021 2023	2-Year 2021 2023	2023	2023
1	TAM 115	TAMU	63.8	75.5	64.7	60.5
2	WB4792	Westbred	63.8	72.1	58.6	59.5
3	Canvas	CSU	61.8	72.0	60.3	59.0
4	TAM 116¶ (TX14A001035)	TAMU	61.7	69.6	59.0	58.5
5	TAM 205	TAMU	59.3	67.7	50.6	58.3
6	TAM 204**	TAMU	58.9	67.3	51.0	57.5
7	Dyna-Gro7322¶*** (TX14V70214)	Nutrien	58.5	65.0	51.3	58.0
8	Showdown	OSU	56.7	66.3	53.3	57.5
9	TAM 112	TAMU	56.1	63.4	52.9	57.9
10	TAM 114	TAMU	53.7	60.3	50.0	58.2
11	TAM W-101‡	TAMU	46.9	53.3	46.7	56.0
12	Guardian	CSU		68.6	59.1	58.4
13	OK Corral**	OSU		66.3	55.6	57.5
14	TX15M8024	TAMU		62.5	53.9	57.5
15	TX16M9216	TAMU		60.2	49.1	58.6
16	LCS Julep	Limagrain			69.0	58.3
18	Kivari AX	CSU			63.1	58.2
18	SY Wolverine	Syngenta			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			.§	,
Coefficient of Variation (%CV)			25.9	18.6	6.2	1.0
Least Significant Diff. (LSD, 0.05)			6.5	17.7	5.5	1.0
Mean			59.6	66.0	53.3	58.0

[†]Varieties ranked according to 3-year, 2-year then 2023 yield average.

**Awnless variety. ¶New release, minimal seed available until fall 2024.

‡Historical check (1970s).

§Bad shattering of grain during delayed harvest.

2023 Texas Location Agronomic Data: Blacklands

Location	Cooperator(s)	Yield limiting issues	Planting date	Fertilizer (Total lb N/ac)	Seeding Rate	Pesticide applied (date)
Hillsboro	P&M Farms	Hessian fly	11/10/2022	110	68 lbs/ac (SRWW) 750K Seed/ac (HRWW)	None
McGregor	Texas A&M Agrilife Research Farm	Hessian fly	11/9/2022	130	68 lbs/ac (SRWW) 750K Seed/ac (HRWW)	Metribuzin (12/14/2022)

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

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

Rank [†]	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)
			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)	TAMU	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	TX15M8024*	TAMU	52.9	55.5	50.2	60.9
8	Dyna-Gro 7322¶§ (TX14V70214)	TAMU	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
LSD (0.05)			6.2	7.7	9.9	1.1
CV (%)			10.9	9.0	12.9	1.5
Mean			49.3	52.1	46.4	60.1

†Varieties ranked according to 2-location yield average

¶New release, minimal seed available until fall 2024.

*Experimental line.

§Awnless variety.

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

Rank [†]	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)	TAMU	49.4	44.7	44.4	49.2	62.0
4	TX15M8024*	TAMU	49.4	45.7	49.6	50.2	60.6
5	Dyna-Gro 7322¶§ (TX14V70214)	TAMU	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
	LSD (0.05)		4.0	4.5	6.0	9.9	0.9
	CV (%)		10.0	10.4	10.3	12.9	0.8
	Mean		48.5	45.7	50.0	46.4	60.2

†Varieties ranked according to 4-year, 3-year, 2-year, then 2023 average.

¶New release, minimal seed available until fall 2024.

*Experimental line.

§Awnless variety.

2023 Uniform Wheat Variety
Trial: HRWW, McGregor

Rank [†]	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)	TAMU	47.0	41.1	48.0	63.4	61.2
3	TX15M8024*	TAMU	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)	TAMU	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
	LSD (0.05)		3.2	3.0	3.8	7.7	2.0
	CV (%)		9.9	9.0	8.5	9.0	1.9
	Mean		44.9	41.7	47.2	52.1	60.0

†Varieties ranked according to 4-year, 3-year, 2-year, then 2023 average.

¶New release, minimal seed available until fall 2024.

*Experimental line.

§Awnless variety.

2023 Uniform Wheat Variety Trial: SRWW, Blacklands
Regional Summary

Rank [†]	Variety	Source	Yield (bu/a)			Test Wt (lb/bu) 2023
			AVG	McGregor	Hillsboro	
1	GA12230-20E36	SunGrains- Univ. of Georgia	72.2	73.2	71.2	60.5
2	GA131218-20E15	SunGrains- Univ. 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- Univ. 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	FLA16124LDH-51	SunGrains- Univ. 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- Univ. 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- Univ. 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	.
LSD (0.05)			6.0	8.8	8.1	1.2
CV (%)			10.7	10.4	11.0	1.3
Mean			48.9	45.5	52.4	60.5

†Varieties ranked according to 2-location yield average

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2023 Uniform Wheat Variety Trial: SRWW, Hillsboro, TX

Rank [†]	Variety	Source	Yield (bu/a)				Test Wt (lb/bu)
			4-Year	3-Year	2-Year	2023	2023
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	SunGrains- 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	SunGrains- 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	SunGrains- Univ. of Georgia				71.2	61.2
26	GA131218-20E15	SunGrains- Univ. of Georgia				70.3	62.4
27	AGS 3022	Stratton Seed				66.4	62.5
28	TX20D5116	SunGrains- TAMU				65.7	60.5
29	GA151313-20E48	SunGrains- Univ. of Georgia				65.0	62.2
30	FLLA16124LDH-51	SunGrains- Univ. of Florida				62.7	63.9
31	GA161240-20LE6	SunGrains- Univ. of Georgia				61.2	61.7
32	LA14234CBW-31	SunGrains- 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	SunGrains- LSU				57.3	62.4
36	AgriMAXX 535	AgriMAXX				56.3	59.5
37	LA14159SB-BR1-1	SunGrains- LSU				55.2	62.2
38	FL15105-LDH043	SunGrains- Univ. of Florida				54.5	62.8
39	LA14272CBB-3-1-4	SunGrains- LSU				53.0	63.2
40	Delta Grow 1700	Delta Grow				52.0	59.5
41	LA14272CBW-15-1-2	SunGrains- LSU				51.6	62.1
42	Dyna-Gro 9290	Dyna-Gro				50.7	59.8
43	TX2017DDH193	SunGrains- TAMU				47.9	61.9
44	Viking 822	Viking Seeds				46.6	57.9
45	USG 3783	Uni-South Genetics				46.6	58.9
46	LA15298GBB-5-1-4	SunGrains- LSU				44.7	63.2
47	Blackland 2167	Blackland Seeds				43.8	59.0
48	LA13019c-23-3-1-3	SunGrains- 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	.
LSD (0.05)			3.8	4.3	5.8	8.1	1.3
CV (%)			8.4	9.6	10.6	11.0	1.2
Mean			54.7	47.8	47.6	45.5	60.8

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

2023 Uniform Wheat Variety Trial: SRWW, McGregor, TX

Rank [†]	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	SunGrains- 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	SunGrains- 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	SunGrains- TAMU				77.3	60.9
26	GA151313-20E48	SunGrains- Univ. of Georgia				75.6	62.1
27	GA131218-20E15	SunGrains- Univ. of Georgia				73.6	60.7
28	GA12230-20E36	SunGrains- Univ. of Georgia				73.2	59.8
29	AGS 3022	Stratton Seed				71.6	61.5
30	FLLA16124LDH-51	SunGrains- Univ. of Florida				71.3	61.9
31	LA14234CBW-31	SunGrains -LSU				65.8	61.3
32	TX2017DDH193	SunGrains- TAMU				65.7	61.3
33	LA14269SB-BR32-4-1-1	SunGrains- LSU				65.1	61.7
34	GA161240-20LE6	SunGrains- Univ. of Georgia				64.4	61.0
35	LA14272CBB-3-1-4	SunGrains- LSU				64.0	62.8
36	LA14159SB-BR1-1	SunGrains- LSU				63.1	61.9
37	LA14272CBW-15-1-2	SunGrains- LSU				60.6	61.2
38	LA15298GBB-5-1-4	SunGrains- 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	SunGrains- 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	SunGrains- Univ. 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	.
LSD (0.05)			6.4	6.8	5.7	8.8	1.6
CV (%)			13.5	13.6	9.7	10.4	1.4
Mean			57.8	53.4	51.1	52.4	59.7

[†]Varieties ranked according to 4-year, 3-year, 2-year, then 2023 yield averages.

2023 Texas Location Agronomic Data: Central & South Texas

Location ¹	Cooperator(s)	Yield limiting issues	Planting date	Fertilizer (Total lb N/ac)	Water*	Pesticide applied (date)
Castroville	Rolling Mangold	ABANDONED. Disease & hail	11/16/2022	50	IL	N/A
College Station	Texas A&M Univ. Research Farm	DATA NOT SHOWN. Lodging	11/2/2022	90	D	Metribuzin (12/8/2022)

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

*Irrigation: IL = Irrigated Limited, D = Dryland

2023 Texas Location Agronomic Data: Southern Rolling Plains

Location ¹	Cooperator(s)	Yield limiting issues	Planting date	Fertilizer (Total lb N/ac)	Seeding Rate	Pesticide applied (date)
Abilene	Darrell Cross	Drought	11/14/2022	40	650K Seed/ac	15 oz/ac Axial Bold (2/13) 16 oz/ac MCPA, 0.1 oz/ac Ally (3/27)
Brady	Lance Helberg	Drought	10/27/2022	40	650K Seed/ac	-
San Angelo	Cory Book	Drought	11/15/2022	40	650K Seed/ac	4 oz/ac propiconazole, 15 oz/ac Axial Bold, 10 oz/ac MCPE (3/2)

¹All locations were planted to 7" row spacing and were conventionally tilled EXCEPT for Brady which was no-till.

2023 Uniform Wheat Variety Trial: HRWW, Southern Rolling Plains Regional Summary

Rank†	Variety	Source	Yield (bu/ac)				Test Wt. (lb/bu)
			AVG	Abilene	Brady	San Angelo	2023
1	WB 4595	WestBred	34.0	32.1	42.5	27.3	62.1
2	Canvas	CSU	32.7	27.9	46.0	24.2	60.1
3	Kivari AX	CSU	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	Syngenta	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)	Dyna-Gro	28.9	26.4	35.0	25.1	58.6
11	TAM 116¶ (TX14A001035)	TAMU	28.5	27.3	29.8	28.3	59.5
12	TX15M8024	TAMU	27.6	33.8	33.2	16.0	59.0
13	Guardian	CSU	25.9	28.7	34.4	14.7	59.2
14	WB 4422	WestBred	25.7	32.0	26.8	18.3	60.4
15	WB 4792	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	TAMU	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	TAMU	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
Coefficient of Variation (%CV)			20.8	11.9	19.8	19.7	3.84
Least Significant Diff. (LSD, 0.05)			5.2	5.7	10.2	6.9	2.12
Mean			27.2	28.8	31.3	21.4	59.3

†Varieties ranked according to 3-location yield average.

¶New release, only minimal seed available until fall 2024.

**Awnless variety.

‡Historical check (1970s).

2023 Uniform Wheat Variety Trial: HRWW, Abilene, TX

Rank [†]	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)	
			4-Year	3-Year	2-Year	2023	2023
1	TAM 205	TAMU	43.7	46.7	45.5	27.5	60.4
2	TAM 115	TAMU	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	Syngenta		45.5	46.5	30.4	57.8
9	WB 4595	WestBred			49.5	32.1	60.1
10	TX15M8024	TAMU			47.5	33.8	60.8
11	TAM 116¶ (TX14A001035)	TAMU			45.1	27.3	60.3
12	Dyna-Gro 7322¶** (TX14V70214)	Dyna-Gro			44.0	26.4	58.7
13	CP7017AX	Croplan				36.8	59.1
14	Kivari AX	CSU				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	CSU				28.7	59.2
19	Smith's Gold	OSU				28.7	60.4
20	Canvas	CSU				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
Coeff. of Variation (%CV)			13.2	10.8	9.2	5.7	2.9
Least Signif. Diff. (LSD, 0.05)			4.55	4.7	4.9	11.9	2.8
Mean			41.7	44.4	44.2	25.8	59.5

†Varieties ranked according to 4-year, 3-year, 2-year then annual 2023 yield average.

¶New release, only minimal seed available until fall 2024.

**Awnless variety.

‡Historical check (1970s).

2023 Uniform Wheat Variety Trial: HRWW, Brady, TX

Rank†	Variety	Source	4-Year	Yield (bu/a)	3-Year	2-Year	2023	Test Wt (lb/bu)
							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	TAMU		28.3	27.2	29.9	63.7	
4	Green Hammer	OSU			33.7	38.8	60.1	
5	Bob Dole	Syngenta			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	TAMU			26.7	25.2	63.0	
9	Smith's Gold	OSU			26.4	28.9	61.8	
10	Canvas	CSU				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)	Dyna-Gro				35.0	58.9	
14	Guardian	CSU				34.4	62.9	
15	Kivari AX	CSU				34.0	60.9	
16	TX18A001119	TAMU				33.5	62.2	
17	TX15M8024	TAMU				33.2	60.1	
18	CP7017AX	Croplan				32.3	59.8	
19	OK15MASBx7ARS8- 29	OSU				30.8	58.2	
20	TAM 116¶ (TX14A001035)	TAMU				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	
Coefficient of Variation (%CV)			17.5	20.7	18.7	19.8	4.1	
Least Significant Difference (LSD, 0.05)			4.6	5.5	6.2	10.2	4.0	
Mean			30.7	27.3	28.3	31.3	60.2	

†Varieties ranked according to 4-year, 3-year, 2-year then annual 2023 yield average.

¶New release, only minimal seed available until fall 2024.

**Awnless variety.

‡Historical check (1970s).

2023 Uniform Wheat Variety Trial: HRWW, San Angelo, TX

Rank [†]	Variety	Source	Yield (bu/a)			Test Wt (lb/bu)
			3YR	2YR	2023	2023
1	WB 4595	Westbred	44.1	29.5	27.3	62.6
2	TAM 116¶ (TX14A001035)	TAMU	42.0	30.9	28.3	58.5
3	Bob Dole	Syngenta	41.3	32.1	29.0	59.5
4	WB 4792	WestBred	41.3	29.5	15.7	61.4
5	TAM 115	TAMU	39.6	29.9	19.5	60.5
6	Showdown	OSU	39.5	27.7	23.1	57.1
7	TAM 205	TAMU	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	TX15M8024	TAMU	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	CSU		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	CSU		24.7	14.7	55.2
19	WB 4422	Westbred		23.8	18.3	59.9
20	Kivari AX	CSU			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
CV			17.7	22.2	19.7	3.5
LSD (0.05)			6.3	7.1	6.9	3.4
Mean			38.2	27.8	21.4	58.2

[†]Varieties ranked according to 4-year, 3-year, 2-year then annual 2023 yield average.

¶New release, only minimal seed available until fall 2024.

**Awnless variety.

‡Historical check (1970s).

2023 Texas Location Agronomic Data: Northern Rolling Plains

Location ¹	Cooperator(s)	Yield limiting issues	Planting date	Fertilizer (Total lb N/ac)	Seeding Rate	Pesticide applied (date)
Chillicothe	Chillicothe Research Station	Winter drought	11/10/2022	52	650K Seed/ac	--
Munday	Mike Urbanzck	ABANDONED Drought	11/8/2022	110	650K Seed/ac	15oz/ac Axial Bold, 3.2 oz/ac Liberate, 0.1 oz/ac Generic Ally, and 8 oz/ac Salvo

¹All locations were planted to 7" row spacing and were conventionally tilled EXCEPT for Munday, no-tilled.

2023 Uniform Wheat Variety Trial: HRWW, Chillicothe, TX

Variety	Source	Yield (bu/a)				Test Wt (lb/bu) 2023
		4-Year	3-Year	2-Year	2023	
1 WB4792	Westbred	50.6	47.7	48.4	37.8	63.9
2 Bob Dole	Syngenta	48.9	46.1	47.4	35.9	60.2
3 TAM 115	TAMU	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	TAMU	43.5	40.2	44.7	31.5	61.8
6 TAMW-101	TAMU	34.9	34.7	38.2	30.7	60.5
<i>Dyna-Gro 7322¶</i>						
7 <i>(TX14V70214)</i>	Dyna-Gro		45.0	47.4	40.1	59.2
8 WB4595	TAMU		46.5	47.2	38.4	63.5
TAM 116¶						
9 <i>(TX14A001035)</i>	TAMU		44.3	45.0	31.2	63.0
10 TX15M8024	TAMU		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	CSU				40.6	62.2
14 High Cotton	OSU				39.7	61.3
15 Canvas	CSU				39.6	61.6
16 TX18A001132	TAMU				37.9	59.4
17 Showdown	OSU				37.7	60.6
18 Kivari AX	CSU				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
OK15MASBx7AR						
22 S8-29	OSU				34.0	60.1
23 <i>OK Corral</i>	OSU				33.7	57.7
24 Gallagher	OSU				31.9	60.9
25 Uncharted	OSU				30.3	60.1
CV		4.9	7.3	7.9	11.8	-
LSD (0.05)		4.0	5.1	6.0	7.0	-
Mean		45.6	43.9	45.4	35.9	61.2

¶New release, only minimal seed available until fall 2024.

2022 data were not included in the multi-year summary due to invalid data.

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

Italicized varieties are awnless varieties.

Bold value is the highest value within a year.

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

2023 Texas Location Agronomic Data: Northern Rolling Plains Dual Purpose

Location ¹	Cooperator(s)/ County Agent	Yield limiting issues	Planting date	Fertilizer (Total lb N/ac)	Seeding Rate	Pesticide applied (date)
Foard	Ronnie Allen/Michael Bowman	Winter drought	10/20/2022	90	1.4M seeds/ac	Huskie at 18 oz/ac and Axial Bold at 15 oz/ac on 2/27/2023
Haskell	Mike Urbanzck/Blake Davis and Josh Kouns	ABANDONED Drought	11/8/2022	110	1.4M seeds/ac	15oz/ac Axial Bold, 3.2 oz/ac Liberate, 0.1 oz/ac Generic Ally, and 8 oz/ac Salvo
Wilbarger	Bruce Gillis/Langdon Reagan	Late harvesting due to the prolonged rain	11/2/2022	90	1.4M seeds/ac	Huskie at 18 oz/ac and Axial Bold at 15 oz/ac on 2/27/2023

¹All locations were planted to 7" row spacing and were conventionally tilled EXCEPT for Munday, no-tilled. Soil test and forage results at Haskell County trial are available at <https://agrilife.org/txrollingplainsagronomy/wheat-3/>.

2023 Dual-Purpose Wheat Variety Trial: HRWW, Foard County, Texas

Variety	Forage (lb/ac)			Dual-Purpose Grain (bu/ac)			Grain only (bu/ac)		Height (in)	Test weight
	3YR	2YR	2023*	3YR	2YR	2023	2YR	2023	2023	2023
Green Hammer	1579	1538	1342	38	41	43	41	37	24	61
WB4595	1005	1114	1185	40	43	47	50	45	25	62
WB4792	948	1008	1111	39	42	44	53	36	20	62
TAM 115	828	771	922	33	33	41	39	42	26	61
TAM 205		1124	914		40	40	45	35	25	60
WB4632			1355			51		47	23	60
Strad CL Plus			1355			40		42	26	60
<i>OK Corral</i>			1270			.		.	28	58
Smith's Gold			1221			44		41	23	60
High Cotton (OK18510)			1218			58		46	21	59
Bob Dole			963			48		47	26	61
WB4422			840			63		51	23	63
<i>p_{0.05}</i>	NS	NS	0.0200	NS	NS	0.0227	NS	NS	-	NS
Mean	1090	1111	1141	38	40	47	45	43	24	60

*Forage was clipped on 2/6/2023.

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

Italicized varieties are awnless varieties.

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 Dual-Purpose Wheat Variety Trial: HRWW, Wilbarger County, Texas

Variety	Forage (lb/ac)			Dual-Purpose Grain (bu/ac)			Grain only (bu/ac)		Height (in)	Test weight
	3YR	2YR	2023*	3YR	2YR	2023	2YR	2023	2023	2023
Green Hammer	2868	2412	2440	50	52	52	54	39	33	53
WB4792	2510	2311	2138	57	53	34	58	44	27	48
WB4595	2499	2481	2240	62	62	56	61	32	28	53
TAM 115	2008	1347	2251	52	51	38	47	32	28	50
TAM 205		2318	2503		46	30	42	23	28	50
<i>OK Corral</i>		2399	2007		.	.	.	.	26	.
Smith's Gold			3292			40		32	28	49
WB4632			2599			40		23	23	51
Bob Dole			2537			43		36	34	53
High Cotton (OK18510)			2302			43		31	26	51
Strad CL Plus			2223			34		27	29	50
WB4422			2092			49		41	29	51
<i>p_{0.05}</i>	NS	0.0131	NS	NS	NS	NS	NS	NS	-	NS
Mean	2471	2211	2385	55	53	42	53	33	28	50.7

*Forage was clipped on 1/23/2023 and 3/1/2023.

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

Italicized varieties are awnless varieties.

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 harvesting, and prolonged wet conditions.

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

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¶	Watch	Bob Dole			details.	details.	details.
		SY Wolverine	Dyna-Gro 7322						
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		*Dyna-Gro 1800			
			*TAM 205						

*New Pick, 2023-2024. ΔNew release, little seed. ¶Certified Seed Only (CSO). Signed license agreement—cannot save own seed for planting. †Soft red winter wheat. ∞Hard white winter wheat.

Texas A&M AgriLife Extension, in collaboration with our wheat breeding program colleagues in Texas A&M AgriLife Research, offer these wheat varieties for 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, <http://amarillo.tamu.edu>
- Texas South Plains: Dr. Calvin Trostle, Extension agronomist, Lubbock, (806) 777-0247, 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, <http://vernon.tamu.edu>
- Southern Rolling Plains/Concho Valley: Dr. Reagan Noland, Extension agronomist, San Angelo, (325) 657-7330, reagan.noland@ag.tamu.edu
- Northeast Texas: Dr. David Drake, Extension IPM agent, Commerce, (325) 716-3364, 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
- South Texas: Dr. Joshua McGinty, Extension agronomist, Corpus Christi, (361) 265-9203, joshua.mcginity@ag.tamu.edu, <http://agrilife.org/coastalbend>