**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. 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 Producers**

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**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Location1** | **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 | ABANDONDED  Drought | 11/22/2022 | N/A | D | 600K  Seeds/ac |

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

1All locations conventionally tilled.

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Rank†** | **Variety** | **Source** | **Avg. Yield (bu/A)** | **Yield (bu/a)** | | | **Test Wt** |
| **Bushland** | **Dumas** | **Olton** | **(lb/bu)** |
| 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.

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | |  | **Yield (bu/ac)** | | | | **2023 Test Wt.** |
| **Rank**† | **Variety** | | **Source** | **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. | | | | | | | | |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Yield (bu/ac)** | | | | **Test Wt. (lb/bu)** |
| **Rank**† | **Variety** | **Source** | **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. |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A white sign with black text  Description automatically generated  **2023 Uniform Wheat Variety Trial: HRWW, Olton, TX (Irrigated)** | | | | | | | | |
|  |  |  | **2-Year: 2021 & 2023** | | | **2023** | | |
|  |  | **Developer/** | **Avg Yield** | **Avg Test** | **Avg Height** | **Yield** | **Test Wt** | **Height** |
| **Rank†** | **Variety** | **Marketer** | **(bu/A)** | **(lbs./bu)** | **(inches)** | **(bu/A)** | **(lb/bu)** | **(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. | | |  |  |  |  |  |  |

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Yield (bu/ac)** | | | | | | | | **Test Wt. (lb/bu)** | | | |
|  |  |  | **3-Year** | | **2-Year** | | |  | | | |  | | |
| **Rank**† | **Variety** | **Source** | **2020**  **2021**  **2023** | | **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.

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Yield (bu/a)** | | | **Test Wt (lb/bu)** |
| **Rank†** | **Variety** | **Source** | **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.

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Yield (bu/a)** | |  |  | **Test Wt (lb/bu)** |
| **Rank†** | **Variety** | **Source** | **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.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A white sign with black text  Description automatically generated  **2023 Uniform Wheat Variety Trial: HRWW, McGregor** | | | | | | | |
|  |  |  |  | **Yield (bu/a)** | |  | **Test Wt (lb/bu)** |
| **Rank†** | **Variety** | **Source** | **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.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| A black text on a white background  Description automatically generated    **2023 Uniform Wheat Variety Trial: SRWW, Blacklands Regional Summary** | | | | | | |
|  |  |  | **Yield (bu/a)** | | | **Test Wt (lb/bu)** |
| **Rank†** | **Variety** | **Source** | **AVG** | **McGregor** | **Hillsboro** | **2023** |
| **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** | FLLA16124LDH-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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A black text on a white background  Description automatically generated  **2023 Uniform Wheat Variety Trial: SRWW, Hillsboro, TX** | | | | | | | |
|  |  |  |  | **Yield**  **(bu/a)** | |  | **Test Wt (lb/bu)** |
| **Rank†** | **Variety** | **Source** | **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.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| A black text on a white background  Description automatically generated  **2023 Uniform Wheat Variety Trial: SRWW, McGregor, TX** | | | | | | | |
|  |  |  |  | **Yield**  **(bu/a)** | |  | **Test Wt (lb/bu)** |
| **Rank†** | **Variety** | **Source** | **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**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Location1** | **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**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Location1** | | **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.

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | **Yield (bu/ac)** | | | | **Test Wt. (lb/bu)** |
| **Rank**† | | **Variety** | **Source** | | **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).

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**2023 Uniform Wheat Variety Trial: HRWW, Abilene, TX**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Yield (bu/a)** |  | **Test Wt (lb/bu)** | |
| **Rank**† | **Variety** | **Source** | **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).

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**2023 Uniform Wheat Variety Trial: HRWW, Brady, TX**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | |  | | |  |  | **Yield (bu/a)** |  | **Test Wt (lb/bu)** | |
| **Rank**† | **Variety** | | **Source** | | | | **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 | | | 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).

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Yield (bu/a)** | | | **Test Wt (lb/bu)** |
| **Rank**† | **Variety** | **Source** | **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**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Location1** | **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.

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**2023 Uniform Wheat Variety Trial: HRWW, Chillicothe, TX**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **Yield (bu/a)** |  | **Test Wt**  **(lb/bu)** | |
|  | **Variety** | **Source** | **4-Year** | **3-Year** | **2-Year** | **2023** | **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 |
| 7 | *Dyna-Gro 7322¶*  *(TX14V70214)* | Dyna-Gro |  | 45.0 | 47.4 | 40.1 | 59.2 |
| 8 | WB4595 | TAMU |  | 46.5 | 47.2 | 38.4 | 63.5 |
| 9 | TAM 116¶ (TX14A001035) | 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 |
| 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 |
|  | **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**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Location1** | **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/>.

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Forage (lb/ac)** | | |  | **Dual-Purpose Grain (bu/ac)** | | |  | **Grain only (bu/ac)** | |  | **Height (in)** | **Test weight** |
| **Variety** | **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 |
| *OK Corral* |  |  | 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** |
| ***p0.05*** | **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.**

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

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Forage (lb/ac)** | | |  | **Dual-Purpose Grain (bu/ac)** | | |  | **Grain only (bu/ac)** | |  | **Height (in)** | **Test weight** |
| **Variety** | **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 |
| *OK Corral* |  | 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 |
| ***p0.05*** | **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 Dual Purpose 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](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
* 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>