# Cherokee Wheat Variety Trial

wheat.okstate.edu

**Cooperator: Kenneth Failes**
**Extension Educator: Tommy Puffinbarger**
**Planting & harvest dates: 10/13/2022 & 06/20/2023**
**Previous crop: Wheat**
**Management: Grain-only**
**Soil Type: Dale silt loam**
**Tillage: Conventional**
**Soil test: pH=6.5, N=132, P= 50, K= 562**

| *Licensee* | *Variety* | *Grain Yield* | | | *Test Weight* | *Wheat Protein* |
|---|---|---|---|---|---|---|
| | | *2022-2023* | *2021-22* | *2020-21* | *2022-23* | *2022-23* |
| | | ---------- *bu/ac* ---------- | | | *-- lb/bu --* | *-- % --* |
| KWA | KS Providence | 49 | -- | -- | 58.5 | 16.7 |
| KWA | KS Ahearn | 47 | 19 | -- | 58.4 | 15.6 |
| PlainsGold | Canvas | 46 | 30 | 71 | 59.6 | 15.0 |
| PlainsGold | Crescent AX | 45 | -- | 71 | 57.4 | 15.3 |
| Croplan | CP7017AX | 44 | 26 | -- | 58.5 | 15.1 |
| LCS | LCS Julep | 44 | 18 | -- | 59.6 | 15.8 |
| OGI | Doublestop CL+ | 43 | 24 | 57 | 59.6 | 17.4 |
| OGI | Showdown | 42 | 21 | 81 | 57.5 | 16.4 |
| OGI | Smith's Gold | 42 | 22 | 65 | 59.3 | 16.3 |
| AgriMAXX | AM Cartwright | 42 | 12 | 54 | 58.9 | 16.6 |
| OGI | Strad CL+ | 41 | 20 | -- | 58.8 | 16.2 |
| LCS | LCS Atomic AX | 41 | 25 | -- | 58.9 | 15.7 |
| Westbred | WB4792 | 40 | -- | 72 | 61.0 | 15.4 |
| AGSECO | AG Radical | 40 | -- | -- | 57.4 | 16.0 |
| AgriPro | SY Wolverine | 40 | -- | -- | 58.6 | 16.5 |
| OGI | Baker's Ann | 39 | 17 | 63 | 58.8 | 16.6 |
| OGI | Iba | 39 | 18 | 72 | 58.9 | 14.9 |
| Westbred | WB4422 | 38 | -- | -- | 60.0 | 16.9 |
| LCS | LCS Helix AX | 38 | 27 | -- | 57.8 | 15.2 |
| AgriPro | Bob Dole | 37 | 19 | 64 | 57.4 | 17.4 |
| OGI | Uncharted | 35 | -- | -- | 57.4 | 15.9 |
| OGI | OK Corral | 35 | 9 | 61 | 54.0 | 17.1 |
| OGI | Gallagher | 35 | 21 | 65 | 58.2 | 16.8 |
| OGI | Green Hammer | 34 | 17 | -- | 58.3 | 19.2 |
| Westbred | WB4401 | 34 | 17 | 62 | 56.3 | 16.2 |
| AgriPro | AP EverRock | 32 | -- | -- | 58.0 | 17.5 |
| OGI | Big Country | 32 | 14 | 64 | 58.7 | 17.3 |
| Westbred | WB4632 | 31 | -- | -- | 58.3 | 16.7 |
| OGI | High Cotton | 31 | -- | -- | 58.2 | 17.1 |
| OGI | Butler's Gold | 25 | 17 | -- | 57.6 | 19.3 |
| | **Experimentals** | | | | | |
| OSU | OK15MASBx7 ARS 8-29 | 43 | -- | -- | 58.5 | 15.5 |
| OSU | OK15DMASBx7 ARS 6-8 | 39 | -- | -- | 59.0 | 16.4 |
| OSU | OK16107133-19-3 | 35 | -- | -- | 58.1 | 17.5 |
| | **Mean** | **39** | **20** | **65** | **58.3** | **16.5** |
| | **LSD (0.05)** | **7** | **3** | **5** | **0.9** | **1.3** |

**Notes:** Grain yield and protein concentration were adjusted to 12% moisture content. Shaded values are not statistically different from the highest value within a column. There was severe drought stress during the season. In 2021-2022, there was severe drought stress, and high pressure of brown wheat mites and fusarium root rots. In 2021-2022, we utilized a different statistical analysis for grain yield, test weight, and protein to reduce the impact of the spatial variability possibly caused by heavier fusarium root rots infestation on the north side of the experiment. Therefore, data from previous years will not be combined with the current year to provide long-term averages. Double-dashes"--" = data not available.

Oklahoma State University
Partial financial support provided by the Oklahoma Wheat Commission and the Oklahoma Wheat Research Foundation