



Cherokee Wheat Variety Trial

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| Cooperator: Kenneth Failes | Extension Educator: Erin Metcalf |
| Planting & harvest dates: 09/28/2023 & 06/15/2024 | Previous crop: wheat |
| Management: Grain-only | Soil Type: Dale silt loam |
| Tillage: conventional tillage | Soil test: pH= 5.9, N = 175, P= 68, K= 665 |

| Licensee | Variety | Grain Yield | | Test Weight | Wheat Protein |
|----------------------|-----------------|-------------------|-----------|-------------|---------------|
| | | 2023-24 | 2-Year | 2023-24 | 2023-24 |
| | | ----- bu/ac ----- | | -- lb/bu -- | -- % -- |
| OGI | Showdown | 68 | 55 | 61.8 | 13.9 |
| OGI | Bentley | 64 | -- | 60.4 | 14.4 |
| AGSECO | AG Radical | 63 | 52 | 60.4 | 13.7 |
| PlainsGold | Canvas | 60 | 53 | 62.7 | 14.9 |
| KWA | KS Providence | 52 | 50 | 60.2 | 15.3 |
| Croplan | CP7017AX | 51 | 48 | 61.7 | 15.6 |
| Westbred | WB4792 | 51 | 46 | 64.2 | 14.8 |
| OGI | Green Hammer | 50 | 42 | 60.7 | 16.3 |
| Westbred | WB4422 | 50 | 44 | 61.7 | 16.0 |
| AgriPro | AP Prolific | 49 | -- | 60.5 | 15.6 |
| LCS | LCS Helix AX | 47 | 42 | 61.3 | 15.4 |
| PlainsGold | Crescent AX | 46 | 45 | 60.5 | 15.4 |
| LCS | LCS Steel AX | 45 | -- | 61.4 | 14.6 |
| AgriPro | Bob Dole | 44 | 41 | 59.4 | 16.3 |
| OGI | High Cotton | 44 | 37 | 60.8 | 16.0 |
| OGI | Uncharted | 44 | 40 | 59.4 | 15.1 |
| OGI | Doublestop CL+ | 41 | 42 | 61.4 | 17.1 |
| OGI | Smith's Gold | 41 | 41 | 62.2 | 15.6 |
| OGI | OK Corral | 39 | 37 | 59.2 | 15.4 |
| AgriPro | SY Wolverine | 37 | 38 | 61.1 | 16.4 |
| OGI | Paradox | 36 | 39 | 60.1 | 14.8 |
| OGI | Iba | 35 | 37 | 62.3 | 14.8 |
| OGI | Strad CL+ | 32 | 36 | 59.6 | 15.9 |
| OGI | Gallagher | 32 | 33 | 60.8 | 16.3 |
| LCS | LCS Atomic AX | 29 | 35 | 60.3 | 15.8 |
| OGI | Breadbox | 26 | -- | 60.4 | 16.5 |
| OGI | Butler's Gold | 24 | 24 | 59.1 | 19.2 |
| Experimentals | | | | | |
| OSU | OK198417C | 51 | -- | 62.8 | 16.1 |
| OSU | OK20708 | 36 | -- | 60.7 | 16.7 |
| OSU | OK16107133-19-3 | 30 | 33 | 59.9 | 18.0 |
| Mean | | 44 | 41 | 60.9 | 15.7 |
| LSD (0.05) | | 10 | 8 | 1.1 | 1.5 |

Notes: Grain yield and protein concentration were adjusted to 12% moisture content. Shaded values were not statistically different from the highest value within a column. The plots experienced severe drought during the season, root/crown rot fungal disease, and freeze damage. In the 2021-2022 season, we utilized a different statistical analysis for grain yield, test weight and protein to reduce the impact of the spatial variability possibly caused by a heavier root rot infestation on the north side of the experiment. Therefore, data from the 2022 harvest year was not combined with other years to provide 3-year averages. The two-year yield averages include the 2023 and 2024 harvest years. Double-dashes "--" = data not available.