### El Reno Late-Planted Grain-Only Wheat Variety Trial

Cooperator: Jerry Lingo  
Extension Educator: Kyle Worthington  
Previous crop: Wheat  
Soil type: Bethany silt loam  
Soil test: pH=5.6, N= 106, P= 63, K= 365

#### Licensee  
Variety | 2022-23 | 2-Year | 3-Year | 2022-23 | Need seed incidence
--- | --- | --- | --- | --- | ---
OGI | Showdown | 56 | 58 | 65 | 5
AgriPro | AP Prolific | 54 | -- | -- | 5
AGSECO | AG Radical | 52 | 58 | -- | 6
PlainsGold | Crescent AX | 49 | 59 | -- | 7
OGI | Big Country | 47 | 44 | 52 | 7
Westbred | WB4422 | 47 | -- | -- | 6
Westbred | WB4632 | 46 | -- | -- | 6
OGI | Green Hammer | 45 | 50 | 55 | 6
LCS | LCS Atomic AX | 45 | 54 | -- | 8
OGI | Doublestop CL+ | 45 | 51 | 56 | 8
PlainsGold | Breck | 42 | -- | -- | 8
KWA | KS Ahearn | 40 | 49 | -- | 9
AgriMAXX | AM Cartwright | 39 | 46 | 52 | 7
OGI | Uncharted | 39 | 48 | 53 | 10
OGI | Gallagher | 37 | 46 | 52 | 8
OGI | OK Corral | 36 | 45 | 52 | 9
Westbred | WB4401 | 36 | 43 | 51 | 10
Croplan | CP7017AX | 36 | 49 | -- | 11
OGI | Butler’s Gold | 35 | -- | -- | 16
AgriPro | AP EverRock | 33 | 42 | -- | 8
OGI | High Cotton | 30 | -- | -- | 11
OGI | Smith’s Gold | 30 | 44 | 49 | 11
OGI | Strad CL+ | 23 | 40 | 49 | 16

#### Experiments

| Licensee | Variety | 2022-23 | 2-Year | 3-Year | 2022-23 | Need seed incidence
--- | --- | --- | --- | --- | --- | ---
OSU | OK18205 | 56 | -- | -- | 5
OSU | OK15DMASBx7 ARS 6-8 | 45 | -- | -- | 8
OSU | OK16107133-19-3 | 42 | -- | -- | 7
OSU | OK15MASBx7 ARS 8-29 | 39 | 49 | 55 | 9

| Mean | 42 | 49 | 53 | 8
| LSD (0.05) | 9 | 7 | 10 | --

**Notes:** Grain yield was adjusted to 12% moisture content. Shaded values were not statistically different from the highest value within a column. The grain-only trial was planted and emerged much later than the optimal time due to lack of moisture in the fall. The late emerged and unacclimated wheat experienced very cold temperatures in late December and early February, which may have differentially reduced spring tillering ability among varieties. Also, freeze injury was not determined in March, which could have accounted for the uncharacteristic declines in grain yield between the dual-purpose and grain-only trials. These differences, therefore, should not be interpreted simply as a response to grazing or no grazing. There was high to moderate pressure of weed infestation across the trial. The weeds present were Wild Buckwheat, Jointed Goatgrass, Italian Ryegrass, and Rescuegrass. Most of them appeared after the rain events in late April and May. Weed pressure was assessed by estimating the percent of weed seeds within a sample. Due to the presence of weed seeds in the grain-only samples,