



# Lahoma Regional Intensive Wheat Management Variety Trial

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**Cooperator:** OSU North Central Research Station      **Extension Educator:** Rick Nelson  
**Planting & harvest dates:** 10/11/2023 & 06/06/2024      **Previous crop:** Austrian winter peas  
**Management:** Grain-only, conventional tillage      **Soil Type:** Pond Creek silt loam  
**Seeding rate:** 1.2 million seeds/acre      **Soil test:** pH=6.5, N= 140, P= 30, K=252  
**Nitrogen:** 6 lbs/ac 10-34-0 at planting, 30 lbs/ac on 2/14/24, 60 lbs/ac 3/14/24  
**Fungicide:** 4 fl oz/ac Tebucure 3.6 at jointing on 3/14/24 and 13 fl oz/ac Nexicor at flag leaf-boot stage on 4/4/24

| Licensee             | Variety            | Grain Yield       |        |        | Test Weight | Wheat Protein |
|----------------------|--------------------|-------------------|--------|--------|-------------|---------------|
|                      |                    | 2023-24           | 2-Year | 3-year | 2023-24     | 2023-24       |
|                      |                    | ----- bu/ac ----- |        |        | -- lb/bu -- | -- % --       |
| Westbred             | WB4632             | 87                | 85     | --     | 63.0        | 12.3          |
| LCS                  | LCS Steel AX       | 87                | 77     | 79     | 61.8        | 13.0          |
| AgriPro              | AP24 AX            | 87                | --     | --     | 61.1        | 12.1          |
| PlainsGold           | Whistler           | 86                | --     | --     | 61.7        | 11.6          |
| PlainsGold           | Kivari AX          | 86                | 82     | --     | 61.5        | 11.6          |
| LCS                  | LCS Warbird AX     | 85                | --     | --     | 62.7        | 12.9          |
| PlainsGold           | CO18035RA          | 85                | --     | --     | 62.2        | 13.6          |
| AgriPro              | SY Wolverine       | 84                | 80     | --     | 61.5        | 13.0          |
| AgriPro              | AP Bigfoot         | 84                | 76     | --     | 62.3        | 12.7          |
| Croplan              | AR Iron Eagle 22AX | 82                | --     | --     | 63.0        | 12.2          |
| Croplan              | CP7017AX           | 82                | 78     | 80     | 62.4        | 12.3          |
| LCS                  | LCS Photon AX      | 81                | 75     | 76     | 60.9        | 12.8          |
| OGI                  | Showdown           | 81                | 82     | 83     | 61.5        | 12.7          |
| LCS                  | LCS Helix AX       | 80                | 77     | 80     | 62.7        | 12.6          |
| LCS                  | LCS Radar          | 80                | --     | --     | 62.1        | 12.8          |
| PlainsGold           | Byrd CL Plus       | 79                | --     | --     | 61.3        | 12.3          |
| AGSECO               | AG Golden          | 79                | 77     | 80     | 60.3        | 12.5          |
| LCS                  | LCS Runner         | 79                | --     | --     | 61.8        | 12.4          |
| AgriPro              | AP Roadrunner      | 79                | --     | --     | 60.3        | 13.1          |
| AgriPro              | Bob Dole           | 79                | 78     | 80     | 62.2        | 13.9          |
| OGI                  | Breadbox           | 79                | --     | --     | 62.0        | 12.9          |
| PlainsGold           | Crescent AX        | 79                | 78     | 80     | 62.1        | 12.7          |
| OGI                  | Gallagher          | 79                | 82     | 82     | 62.4        | 13.2          |
| PlainsGold           | Canvas             | 78                | 80     | 83     | 62.7        | 11.9          |
| OGI                  | Strad CL+          | 78                | 74     | 74     | 61.6        | 14.1          |
| KWA                  | KS Mako            | 78                | --     | --     | 63.4        | 13.0          |
| OGI                  | High Cotton        | 76                | 75     | --     | 63.3        | 12.7          |
| KWA                  | KS Providence      | 76                | 80     | 84     | 59.5        | 14.4          |
| OGI                  | Paradox            | 76                | 79     | 81     | 61.2        | 13.1          |
| LCS                  | LCS Galloway AX    | 75                | 78     | --     | 62.7        | 13.1          |
| Westbred             | WB4792             | 75                | 69     | 72     | 64.9        | 12.7          |
| OGI                  | OK Corral          | 75                | 78     | 75     | 61.1        | 12.4          |
| Croplan              | CP7869             | 75                | --     | --     | 61.3        | 13.4          |
| OGI                  | Firebox            | 72                | 73     | --     | 63.3        | 13.6          |
| Westbred             | WB4401             | 71                | 74     | 75     | 63.3        | 12.3          |
| Westbred             | WB4422             | 71                | 75     | 82     | 62.8        | 13.1          |
| OGI                  | Big Country        | 70                | 74     | 70     | 62.9        | 12.9          |
| AgriPro              | AP Prolific        | 69                | 75     | 79     | 60.2        | 14.2          |
| OGI                  | Green Hammer       | 69                | 75     | 75     | 62.4        | 15.0          |
| Croplan              | AR Turret 25       | 68                | --     | --     | 61.2        | 13.4          |
| OGI                  | Smith's Gold       | 68                | 69     | 73     | 63.1        | 12.8          |
| AGSECO               | AG Radical         | 67                | 71     | 76     | 61.0        | 13.1          |
| Croplan              | CP7220             | 67                | --     | --     | 62.6        | 13.1          |
| LCS                  | LCS Atomic AX      | 66                | 70     | 76     | 60.9        | 13.3          |
| OGI                  | Doublestop CL+     | 64                | 69     | 71     | 63.4        | 15.0          |
| OGI                  | Uncharted          | 63                | 64     | 64     | 61.0        | 13.3          |
| LCS                  | LCS Julep          | 59                | 68     | 71     | 62.0        | 13.6          |
| OGI                  | Butler's Gold      | 45                | 55     | 60     | 63.5        | 15.0          |
| <b>Experimentals</b> |                    |                   |        |        |             |               |
| OSU                  | OK16107133-19-3    | 64                | 64     | --     | 61.0        | 13.7          |
| OSU                  | OK16107133-19-4    | 58                | --     | --     | 59.3        | 13.7          |
| OSU                  | OK198417C          | 72                | --     | --     | 63.4        | 13.6          |
| OSU                  | OK20708            | 89                | --     | --     | 62.3        | 12.6          |
| <b>Mean</b>          |                    | 75                | 75     | 76     | 62.0        | 13.1          |
| <b>LSD (0.05)</b>    |                    | 9                 | 7      | 7      | 0.8         | 0.8           |

**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. Stripe and leaf rust fungal diseases were observed at severe pressure in the season. Double-dashes"--" = data not available.