



# Chickasha Regional Wheat Variety Trial

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Cooperator: OSU South Central Research Station      Extension Educator: Denise Wood  
 Planting & harvest dates: 10/21/2022 & 06/07/2023      Previous crop: Austrian winter peas  
 Management: Grain-only      Soil Type: Dale silt loam  
 Tillage: Conventional      Soil test: pH=6.6, N= 56, P= 35, K= 221

Licensee	Variety	Grain Yield			Test Weight	Wheat Protein	Leaf Rust
		2022-23	2-Year	3-Year	2022-23	2022-23	
		----- bu/ac -----			-- lb/bu --	-- % --	-- CI --
AgriPro	Bob Dole	87	76	61	60.2	13.5	2
Westbred	WB4422	86	76	--	59.0	13.6	2
AgriPro	AP Prolific	85	73	--	60.3	13.8	16
Westbred	WB4632	84	--	--	58.5	12.8	8
PlainsGold	Breck	83	76	--	61.6	13.2	2
OGI	Big Country	83	65	63	58.9	14.5	2
KWA	KS Providence	83	75	--	58.9	13.3	2
PlainsGold	Kivari AX	83	--	--	58.6	12.3	50
OGI	Gallagher	82	75	59	59.0	13.7	4
AGSECO	AG Golden	82	76	--	57.1	12.8	24
OGI	Showdown	82	75	61	59.1	13.2	8
LCS	LCS Steel AX	81	73	--	59.8	13.3	4
OGI	Doublestop CL+	80	68	64	61.8	15.3	2
LCS	LCS Julep	80	73	59	61.2	13.7	50
AgriMAXX	AM Cartwright	79	70	60	58.2	14.1	2
PlainsGold	Canvas	78	74	63	58.8	13.6	8
OGI	OK Corral	78	69	58	57.8	13.6	16
LCS	LCS Helix AX	77	74	61	60.1	12.9	--
AgriPro	AP Bigfoot	77	--	--	59.1	13.2	--
LCS	LCS Chrome	76	66	61	58.8	14.9	0
Westbred	WB4401	76	69	55	57.7	12.9	4
PlainsGold	Crescent AX	76	73	56	59.5	13.1	4
OGI	Smith's Gold	76	70	58	59.7	13.7	0
Croplan	CP7017AX	75	72	59	57.5	13.2	24
LCS	LCS Atomic AX	75	76	59	58.9	13.1	--
KWA	KS Ahearn	75	72	58	56.7	13.9	2
AgriPro	AP EverRock	73	70	--	58.6	13.1	--
Croplan	CP7266AX	73	67	--	60.0	13.3	40
OGI	High Cotton	73	--	--	60.1	13.3	2
AGSECO	AG Radical	72	67	52	57.0	15.4	2
OGI	Green Hammer	72	66	54	59.7	15.8	2
LCS	LCS Photon AX	72	68	54	59.8	14.0	8
Westbred	WB4523	72	67	--	57.3	13.2	0
Westbred	WB4792	72	70	57	59.5	13.3	4
AgriPro	AP Longjack	71	--	--	58.6	14.7	0
OGI	Strad CL+	71	65	59	59.0	15.3	2
LCS	LCS Galloway AX	71	--	--	58.7	14.8	4
OGI	Uncharted	70	65	56	59.3	13.8	0
OGI	Butler's Gold	70	68	--	60.4	14.5	--
<b>Experimentals</b>							
OSU	OK19225	86	--	--	62.0	13.9	2
OSU	OK15MASBx7 ARS 8-29	83	76	--	59.5	13.3	0
OSU	OK16107133-19-3	80	--	--	60.6	14.2	40
OSU	OK15DMASBx7 ARS 6-8	66	58	--	60.1	14.8	2
<b>Mean</b>		<b>77</b>	<b>71</b>	<b>58</b>	<b>59.2</b>	<b>13.8</b>	<b>9</b>
<b>LSD (0.05)</b>		<b>7</b>	<b>6</b>	<b>6</b>	<b>1.2</b>	<b>0.6</b>	<b>--</b>

**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 crop experienced drought stress during the season and received a few timely rains in the spring, which enhanced realized yield in this particular environment relative to the statewide yield average. The rainfall events that occurred during the grain filling period resulted in increased pressure of Leaf rust and Septoria fungal diseases. Leaf rust was rated utilizing the Coefficient of Infection (CI) method. Coefficient of Infection = Severity (%) \* Constant for infection response. The greater the value the more susceptible a variety is to leaf rust. Double-dashes"--" = data not available.