



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

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<b>Planting &amp; harvest dates:</b> 11/21/2022 & 06/20/2023	<b>Previous crop:</b> Wheat
<b>Management:</b> Grain-only	<b>Soil type:</b> Bethany silt loam
<b>Tillage:</b> Conventional	<b>Soil test:</b> pH=5.6, N= 106, P= 63, K= 365

Licensee	Variety	Grain Yield			Weed seed incidence
		2022-23	2-Year	3-Year	2022-23
		----- bu/ac -----			-- % --
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
<b>Experimentals</b>					
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
<b>Mean</b>		<b>42</b>	<b>49</b>	<b>53</b>	<b>8</b>
<b>LSD (0.05)</b>		<b>9</b>	<b>7</b>	<b>10</b>	<b>--</b>

**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,