



Lahoma Regional Intensive Wheat Management Variety Trial

wheat.okstate.edu

Cooperator: OSU North Central Research Station
 Extension Educator: Rick Nelson
 Planting & harvest dates: 10/20/2021 & 06/14/2022
 Previous crop: Wheat
 Management: Grain-only, conventional tillage
 Soil Type: Pond Creek silt loam
 Seeding rate: 1.2 million seeds/acre
 Soil test: pH=5.3, N= 110, P= 118, K= 412
 Nitrogen: 6 lbs/ac 10-34-0 at planting, 40 lbs/ac on 2/14/22, 50 lbs/ac 3/15/22.
 Fungicide: 4 fl oz/ac Tebucure 3.6 at jointing on 3/29/22 and 13 fl oz/ac Nexicor at flag leaf-boot stage on 4/14/22

Licensee	Variety	Grain Yield			Test Weight	Wheat Protein
		2021-22	2020-21	2-Year	2021-22	2021-22
		Fungicide				
		----- bu/ac -----			-- lb/bu --	-- % --
Westbred	WB4422	95	--	--	60.7	14.9
KWA	KS Providence	91	--	--	59.7	14.4
AgriPro	AP Roadrunner	90	84	--	59.5	14.2
LCS	LCS Atomic AX	89	84	--	60.4	14.4
PlainsGold	Canvas	88	73	90	60.6	14.1
AgriPro	AP18 AX	87	81	--	59.2	14.7
OGI	Showdown	86	85	88	60.2	14.1
Croplan	CP7017AX	86	80	--	57.8	13.4
PlainsGold	Crescent AX	86	75	88	60.6	14.1
AgriPro	Bob Dole	85	74	83	61.0	15.1
AgriPro	AP Prolific	85	--	--	60.3	14.4
AGSECO	AG Radical	85	71	--	59.6	14.9
KWA	KS Ahearn	85	--	--	58.8	14.3
LCS	LCS Helix AX	85	76	--	61.1	13.7
AGSECO	AG Golden	85	--	--	59.2	13.6
LCS	LCS Valiant	84	79	--	60.5	14.1
PlainsGold	Breck	83	--	--	61.7	14.4
OGI	Gallagher	83	71	84	59.9	14.4
LCS	LCS Steel AX	83	--	--	59.4	14.0
PlainsGold	Sunshine	82	--	--	60.6	14.4
Westbred	WB4699	82	88	96	59.3	14.0
OGI	Smith's Gold	79	75	81	60.0	14.5
OGI	Duster	79	71	78	58.5	14.1
Westbred	WB4523	79	--	--	58.4	14.5
LCS	LCS Runner	78	--	--	60.0	13.8
Westbred	WB4792	78	82	97	61.1	14.3
LCS	LCS Chrome	78	80	85	59.0	15.3
LCS	LCS Photon AX	78	74	84	61.1	14.9
KWA	KS Western Star	78	73	83	60.6	14.3
Westbred	WB4401	78	77	88	59.1	14.0
LCS	LCS Julep	77	74	--	62.5	15.0
Croplan	CP72166AX	76	--	--	59.6	14.3
PlainsGold	Guardian	75	81	87	60.8	14.4
AgriMAXX	AM Cartwright	75	75	88	58.8	15.1
OGI	Doublestop CL+	75	67	82	61.4	15.5
OGI	Green Hammer	74	82	86	59.9	16.8
AgriPro	SY Achieve CL2	74	79	84	60.0	15.2
OGI	Bentley	74	78	89	58.9	14.9
AGSECO	AG Icon	73	74	87	59.0	15.6
KWA	KS Hamilton	73	83	--	58.1	14.4
OGI	Strad CL+	72	79	95	59.7	16.1
AgriPro	AP EverRock	72	82	86	59.9	15.5
OGI	Butler's Gold	71	--	--	61.0	16.0
OGI	Skydance	71	80	--	61.0	16.2
OGI	OK Corral	70	78	86	56.7	15.0
OGI	Baker's Ann	68	78	85	59.7	15.8
OGI	Uncharted	65	76	79	58.6	15.1
OGI	Big Country	61	82	78	58.3	16.0
OGI	Butler's Gold (late-planted)	47	--	--	60.1	17.5
Experimentals						
	OK15MASBx7 ARS 8-29	85	81	--	58.8	14.0
Mean		79	78	87	59.4	14.7
LSD (0.05)		9	NS	8	1.0	0.9

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 late winter and in the spring, which enhanced realized yield in this particular environment relative to the statewide yield average. There were no diseases observed in this trial. This was the first year to conduct an intensive management (IM) trial at Lahoma. Due to this addition and the use of a different experimental design, data from previous years were not be combined with the current year to provide long-term averages. Data from the trials conducted at Lahoma with and without fungicide in the 2020-2021 growing season are shown only for varieties planted in the 2021-2022 growing season. The 2-year yield averages include the 2020 and 2021 harvest years. Butler's Gold late-planted was planted on 12/3/2021 at 1.4 million seeds/acre. Double-dashes"--" = data not available.