



Lahoma Regional Intensive Wheat Management Variety Trial

wheat.okstate.edu

Cooperator: OSU North Central Research Station
 Extension Educator: Rick Nelson
 Planting & harvest dates: 10/27/2022 & 06/15/2023
 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=5.2, N= 146, P= 111, K= 352
 Nitrogen: 6 lbs/ac 10-34-0 at planting, 96 lbs/ac on 8/11/22, 50 lbs/ac 3/15/23
 Fungicide: 2.9 fl oz/ac Tebucure 3.6 at jointing on 3/22/23 and 6.5 fl oz/ac Trivapro
 at flag leaf-boot stage on 4/14/23

Licensee	Variety	Grain Yield		Test Weight	Wheat Protein
		2022-23	2-Year	2022-23	2022-23
		----- bu/ac -----		-- lb/bu --	-- % --
KWA	KS Providence	85	88	59.6	14.8
OGI	Gallagher	85	84	60.6	14.7
PlainsGold	Canvas	83	85	60.6	14.8
Westbred	WB4632	82	--	60.0	14.2
OGI	Showdown	82	84	59.9	14.9
AgriPro	AP Prolific	82	83	59.6	15.0
OGI	OK Corral	82	76	58.8	15.1
PlainsGold	Breck	81	82	61.0	15.2
LCS	LCS Galloway AX	81	--	60.2	15.5
OGI	Green Hammer	80	77	60.2	16.8
PlainsGold	Kivari AX	79	--	60.6	14.7
KWA	KS Ahearn	79	82	60.2	15.6
Westbred	WB4422	79	87	60.9	16.3
OGI	Big Country	78	69	59.7	15.8
LCS	LCS Julep	78	77	61.2	15.8
AgriPro	Bob Dole	77	81	60.3	16.0
PlainsGold	Crescent AX	77	81	59.2	14.9
AgriPro	SY Wolverine	77	--	59.6	15.6
AgriMAXX	AM Cartwright	76	76	59.5	14.9
Westbred	WB4401	76	77	58.6	14.5
AGSECO	AG Golden	76	80	59.5	13.4
OGI	Iba	76	--	60.1	13.7
AGSECO	AG Radical	75	80	59.4	15.7
OGI	Bentley	75	74	59.5	15.4
Croplan	CP7266AX	75	76	59.5	15.1
OGI	Doublestop CL+	75	75	60.9	17.0
AgriPro	AP Longjack	74	--	59.1	15.3
Croplan	CP7017AX	74	80	58.7	15.1
OGI	High Cotton	74	--	60.0	14.8
LCS	LCS Helix AX	74	79	60.1	14.8
LCS	LCS Atomic AX	73	81	59.5	15.4
LCS	LCS Chrome	73	75	60.1	15.6
OGI	Strad CL+	71	72	60.7	16.5
OGI	Smith's Gold	70	75	60.1	15.4
OGI	Baker's Ann	69	69	59.7	15.4
AgriPro	AP Bigfoot	69	--	59.7	15.3
LCS	LCS Photon AX	69	73	60.0	15.9
LCS	LCS Steel AX	67	75	59.0	15.6
Westbred	WB4523	66	72	57.9	14.7
AgriPro	AP EverRock	66	69	59.5	16.8
OGI	Uncharted	65	65	59.3	15.5
OGI	Butler's Gold	64	67	59.7	17.7
Westbred	WB4792	62	70	61.2	15.2
OGI	Butler's Gold (late-planted)	35	41	58.5	19.4
Experimentals					
OSU	OK15MASBx7 ARS 8-29	83	84	61.1	14.2
OSU	OK15DMASBx7 ARS 6-8	75	--	60.7	15.2
OSU	OK16107133-19-3	64	--	60.0	16.6
Mean		74	76	59.9	15.4
LSD (0.05)		7	10	0.9	0.5

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 rain later in the spring, which enhanced realized yield in this particular environment relative to the statewide yield average. Septoria fungal disease was observed at moderate pressure and leaf rust appeared later in the season at low pressure. This is the second year to conduct an intensive management (IM) trial at Lahoma. Due to this addition and the use of a different experimental design, data from the 2021 harvest year were not utilized to provide 3-year averages. Butler's Gold late-planted was planted on 12/5/2022 at 1.4 million seeds/acre. Double-dashes"--" = data not available.