



Lahoma Wheat Variety Trial

Standard vs. Intensive Management Comparison

wheat.okstate.edu

Cooperator: OSU North Central Research Station
 Planting & harvest dates: 10/20/2021 & 06/14/2022
 Management: Grain-only, conventional tillage
 Seeding rate: 1.2 million seeds/acre

Extension Educator: Rick Nelson
 Previous crop: Wheat
 Soil Type: Pond Creek silt loam
 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		
		Standard	Intensive	Diff	Standard	Intensive	Diff	Standard	Intensive	Diff
		----- bu/ac -----			----- lb/bu -----			----- % -----		
Westbred	WB4422	93	95	1	59.6	60.7	1.1	15.1	14.9	-0.2
AGSECO	AG Golden	92	85	-7	59.3	59.2	-0.1	12.8	13.6	0.9
AgriPro	AP Prolific	90	85	-5	60.5	60.3	-0.2	14.1	14.4	0.4
LCS	LCS Helix AX	89	85	-4	61.1	61.1	0.0	13.6	13.7	0.1
Croplan	CP7017AX	88	86	-2	57.8	57.8	-0.1	13.4	13.4	0.0
AGSECO	AG Radical	87	85	-2	59.3	59.6	0.4	14.3	14.9	0.6
OGI	Showdown	85	86	1	59.4	60.2	0.8	13.7	14.1	0.4
PlainsGold	Canvas	85	88	3	59.8	60.6	0.8	13.9	14.1	0.2
LCS	LCS Steel AX	84	83	-1	58.7	59.4	0.6	13.8	14.0	0.2
AgriMAXX	AM Cartwright	83	75	-8	58.9	58.8	-0.1	14.3	15.1	0.8
PlainsGold	Breck	82	83	2	61.4	61.7	0.3	14.1	14.4	0.3
OGI	Bentley	81	74	-8	58.7	58.9	0.3	14.1	14.9	0.8
AgriPro	Bob Dole	80	85	5	60.3	61.0	0.7	14.9	15.1	0.2
Westbred	WB4699	80	82	2	58.7	59.3	0.6	13.5	14.0	0.5
PlainsGold	Sunshine	79	82	3	60.4	60.6	0.2	14.2	14.4	0.3
KWA	KS Ahearn	79	85	6	57.8	58.8	1.1	13.9	14.3	0.4
Westbred	WB4401	79	78	-1	59.6	59.1	-0.6	13.6	14.0	0.4
KWA	KS Western Star	78	78	-1	59.7	60.6	0.9	13.6	14.3	0.8
AgriPro	AP Roadrunner	78	90	12	58.2	59.5	1.3	14.2	14.2	0.1
LCS	LCS Runner	78	78	0	60.0	60.0	0.0	13.6	13.8	0.2
LCS	LCS Valiant	78	84	7	60.3	60.5	0.2	14.5	14.1	-0.4
AgriPro	AP18 AX	78	87	10	58.3	59.2	1.0	14.5	14.7	0.3
LCS	LCS Atomic AX	78	89	12	59.8	60.4	0.6	14.3	14.4	0.1
PlainsGold	Crescent AX	77	86	9	60.3	60.6	0.3	13.8	14.1	0.3
LCS	LCS Julep	77	77	0	62.0	62.5	0.5	15.1	15.0	-0.1
Croplan	CP72166AX	76	76	0	59.7	59.6	0.0	14.0	14.3	0.3
LCS	LCS Photon AX	76	78	2	59.9	61.1	1.2	15.1	14.9	-0.2
KWA	KS Providence	76	91	15	58.5	59.7	1.2	14.9	14.4	-0.5
OGI	Gallagher	76	83	8	59.4	59.9	0.5	14.7	14.4	-0.4
OGI	OK Corral	75	70	-6	57.5	56.7	-0.8	14.3	15.0	0.6
OGI	Smith's Gold	75	79	4	60.1	60.0	-0.1	14.4	14.5	0.2
Westbred	WB4792	75	78	3	60.2	61.1	0.9	13.9	14.3	0.4
LCS	LCS Chrome	75	78	3	58.9	59.0	0.1	15.6	15.3	-0.2
OGI	Baker's Ann	74	68	-6	59.4	59.7	0.3	14.9	15.8	0.9
AGSECO	AG Icon	74	73	-1	58.5	59.0	0.5	15.7	15.6	-0.1
OGI	Duster	73	79	6	57.8	58.5	0.6	14.2	14.1	-0.1
Westbred	WB4523	73	79	6	58.0	58.4	0.4	13.5	14.5	1.0
KWA	KS Hamilton	72	73	1	58.5	58.1	-0.3	14.0	14.4	0.4
PlainsGold	Guardian	71	75	4	60.4	60.8	0.4	14.8	14.4	-0.3
OGI	Doublestop CL+	71	75	4	61.7	61.4	-0.3	16.1	15.5	-0.6
OGI	Skydance	71	71	0	61.1	61.0	-0.1	15.6	16.2	0.5
OGI	Strad CL+	68	72	5	59.0	59.7	0.8	16.8	16.1	-0.6
AgriPro	AP EverRock	67	72	5	59.0	59.9	0.9	14.8	15.5	0.7
OGI	Green Hammer	66	74	8	59.1	59.9	0.8	17.1	16.8	-0.3
OGI	Uncharted	65	65	0	58.4	58.6	0.3	15.1	15.1	-0.1
OGI	Butler's Gold	64	71	7	60.5	61.0	0.5	15.9	16.0	0.1
AgriPro	SY Achieve CL2	63	74	11	59.8	60.0	0.2	15.4	15.2	-0.2
OGI	Big Country	61	61	0	57.8	58.3	0.5	15.8	16.0	0.2
OGI	Butler's Gold (late-planted)	48	47	-1	59.8	60.1	0.3	17.0	17.5	0.5
Experimentals										
	OK15MASBx7 ARS 8-29	85	85	0	58.8	59.1	0.4	13.9	14.0	0.1
	Mean	76	79	2	59.4	59.8	0.4	14.6	14.7	0.2
	LSD (0.05)	9	9	NS	1.0	0.8	NS	0.5	0.9	NS

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.