



Lahoma Wheat Variety Trial Standard vs. Intensive Management Comparison

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Cooperator: OSU North Central Research Station
Planting & harvest dates: 10/27/2022 & 06/15/2023
Management: Grain-only, conventional tillage
Seeding rate: 1.2 million seeds/acre

Extension Educator: Rick Nelson
Previous crop: Austrian winter peas
Soil Type: Pond Creek silt loam
Soil test: pH=6.5, N= 140, P= 30, K=252

Nitrogen: 6 lbs/ac 10-34-0 at planting, 30 lbs/ac on 2/14/24, 60 lbs/ac 3/14/24

Fungicide: 4 fl oz/ac Tebucure 3.6 at jointing on 3/14/24 and 13 fl oz/ac Nexicor at flag leaf-boot stage on 4/4/24

Licensee	Variety	Grain Yield			Test Weight			Wheat Protein		
		Standard	Intensive	Diff	Standard	Intensive	Diff	Standard	Intensive	Diff
		----- bu/ac -----			----- lb/bu -----			----- % -----		
OGI	Paradox	79	76	-3	61.9	61.2	-0.7	12.0	13.1	1.1
AgriPro	AP24 AX	77	87	10	59.3	61.1	1.8	11.8	12.1	0.3
AgriPro	AP Roadrunner	76	79	3	60.2	60.3	0.1	11.7	13.1	1.4
PlainsGold	Canvas	76	78	2	60.6	62.7	2.1	11.5	11.9	0.4
PlainsGold	CO18035RA	75	85	10	60.6	62.2	1.6	11.8	13.6	1.8
LCS	LCS Radar	74	80	6	61.7	62.1	0.4	12.3	12.8	0.5
OGI	Gallagher	74	79	5	62.5	62.4	-0.1	12.5	13.2	0.7
OGI	Showdown	72	81	9	60.5	61.5	1.0	11.8	12.7	0.9
LCS	LCS Warbird AX	72	85	13	62.1	62.7	0.6	12.0	12.9	0.9
LCS	LCS Galloway AX	72	75	3	61.7	62.7	1.0	13.1	13.1	0.0
OGI	Breadbox	70	79	9	62.2	62.0	-0.2	11.9	12.9	1.0
OGI	Strad CL+	70	78	8	61.8	61.6	-0.2	14.0	14.1	0.1
PlainsGold	Kivari AX	69	86	17	58.9	61.5	2.6	10.8	11.6	0.8
LCS	LCS Steel AX	69	87	18	59.8	61.8	2.0	11.9	13.0	1.1
AGSECO	AG Golden	69	79	10	60.0	60.3	0.3	11.9	12.5	0.6
OGI	High Cotton	68	76	8	62.6	63.3	0.7	12.2	12.7	0.5
OGI	OK Corral	68	75	7	60.6	61.1	0.5	11.4	12.4	1.0
AgriPro	Bob Dole	68	79	11	61.3	62.2	0.9	12.7	13.9	1.2
Croplan	AR Iron Eagle 22AX	67	82	15	60.0	63.0	3.0	11.5	12.2	0.7
OGI	Doublestop CL+	67	64	-3	63.8	63.4	-0.4	15.0	15.0	0.0
Westbred	WB4401	67	71	4	62.8	63.3	0.5	12.0	12.3	0.3
PlainsGold	Byrd CL Plus	67	79	12	60.4	61.3	0.9	12.1	12.3	0.2
Croplan	AR Turret 25	65	68	3	61.7	61.2	-0.5	12.5	13.4	0.9
Croplan	CP7017AX	65	82	17	60.7	62.4	1.7	11.0	12.3	1.3
Croplan	CP7869	65	75	10	61.5	61.3	-0.2	12.6	13.4	0.8
KWA	KS Providence	65	76	11	59.0	59.5	0.5	13.1	14.4	1.3
LCS	LCS Atomic AX	65	66	1	60.4	60.9	0.5	12.2	13.3	1.1
LCS	LCS Helix AX	65	80	15	61.1	62.7	1.6	12.0	12.6	0.6
OGI	Firebox	64	72	8	62.8	63.3	0.5	13.2	13.6	0.4
KWA	KS Mako	64	78	14	61.8	63.4	1.6	11.4	13.0	1.6
AgriPro	AP Bigfoot	64	84	20	59.7	62.3	2.6	11.7	12.7	1.0
Westbred	WB4422	64	71	7	60.0	62.8	2.8	12.0	13.1	1.1
PlainsGold	Whistler	63	86	23	60.9	61.7	0.8	11.1	11.6	0.5
PlainsGold	Crescent AX	63	79	16	61.0	62.1	1.1	11.4	12.7	1.3
OGI	Smith's Gold	63	68	5	62.6	63.1	0.5	12.1	12.8	0.7
LCS	LCS Runner	63	79	16	59.5	61.8	2.3	11.4	12.4	1.0
AgriPro	SY Wolverine	62	84	22	58.7	61.5	2.8	12.2	13.0	0.8
OGI	Big Country	62	70	8	62.2	62.9	0.7	12.5	12.9	0.4
AgriPro	AP Prolific	61	69	8	59.3	60.2	0.9	13.2	14.2	1.0
LCS	LCS Photon AX	61	81	20	59.2	60.9	1.7	11.6	12.8	1.2
Westbred	WB4792	60	75	15	63.9	64.9	1.0	11.3	12.7	1.4
OGI	Uncharted	58	63	5	60.8	61.0	0.2	12.5	13.3	0.8
Croplan	CP7220	58	67	9	62.7	62.6	-0.1	12.3	13.1	0.8
AGSECO	AG Radical	57	67	10	59.2	61.0	1.8	12.2	13.1	0.9
OGI	Green Hammer	55	69	14	62.1	62.4	0.3	13.7	15.0	1.3
Westbred	WB4632	51	87	36	57.4	63.0	5.6	11.5	12.3	0.8
LCS	LCS Julep	49	59	10	60.7	62.0	1.3	12.1	13.6	1.5
OGI	Butler's Gold	44	45	1	63.1	63.5	0.4	14.0	15.0	1.0
	Experimentals			0			0.0			0.0
OSU	OK16107133-19-3	62	64	2	61.5	61.0	-0.5	13.5	13.7	0.2
OSU	OK16107133-19-4	56	58	2	60.1	59.3	-0.8	13.4	13.7	0.3
OSU	OK198417C	66	72	6	63.4	63.4	0.0	12.7	13.6	0.9
OSU	OK20708	80	89	9	61.6	62.3	0.7	12.0	12.6	0.6
	Mean	65	75	10	61.0	62.0	1.0	12.2	13.1	0.9
	LSD (0.05)	9	9	--	1.0	0.8	--	0.8	0.8	--

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. Severe stripe rust pressure was evident at and after heading. Severity ratings were collected on April 18 (around heading). Leaf rust fungal disease was observed at severe pressure after heading. Double-dashes"--" = data not available.