



Chickasha Wheat Variety Trial

Standard vs. Intensive Management Comparison

wheat.okstate.edu

Cooperator: South Central Research Station

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Planting date: 10/16/2023

Previous crop: Austrian winter peas

Harvest date: 6/14/2024

Soil type: Dale silt loam

Tillage: Conventional

Soil test: pH= 7.5, N= 93, P= 46, K= 314

Nitrogen: 6 lbs/ac 10-34-0 at planting, 40 lbs/ac 2/19/24, and 60 lbs/ac on 3/14/24

Fungicide: 2.5 oz/ac Tebucure 3.6 at jointing 3/14/24 and 9 oz/ac at flag leaf-boot stage on 4/3/24

Licensee	Variety	Grain Yield			Test Weight			Protein		
		Standard	Intensive	Diff	Standard	Intensive	Diff	Standard	Intensive	Diff
		----- bu/ac -----			----- lb/bu -----			----- % -----		
OGI	Paradox	86	91	5	56.7	56.5	-0.2	12.6	11.9	-0.7
OGI	Breadbox	83	81	-2	57.2	56.7	-0.5	12.7	11.2	-1.5
Westbred	WB4401	81	92	11	59.2	59.0	-0.2	11.4	11.1	-0.3
Westbred	WB4792	80	92	12	57.7	58.8	1.1	11.6	11.4	-0.2
OGI	High Cotton	80	90	10	59.1	58.6	-0.5	12.1	12.1	0.0
AgriPro	AP Prolific	80	84	4	55.7	55.2	-0.5	12.5	13.3	0.8
OGI	Uncharted	79	77	-2	57.3	56.9	-0.4	12.5	12.4	-0.1
OGI	Showdown	79	95	16	56.4	57.2	0.8	11.7	12.2	0.5
KWA	KS Providence	77	76	-1	56.0	56.0	0.0	12.3	12.3	0.0
LCS	LCS Radar	77	91	14	57.7	58.3	0.6	12.5	12.4	-0.1
OGI	Strad CL+	76	85	9	56.7	57.1	0.4	12.2	13.1	0.9
AgriPro	AP Roadrunner	76	89	13	54.7	56.0	1.3	12.2	12.4	0.2
AGSECO	AG Golden	75	91	16	55.1	56.0	0.9	11.0	11.7	0.7
OGI	Gallagher	74	82	8	56.5	56.9	0.4	11.8	12.1	0.3
LCS	LCS Warbird AX	73	74	1	57.8	58.0	0.2	13.0	11.7	-1.3
OGI	Doublestep CL+	73	70	-3	59.0	58.6	-0.4	13.1	12.6	-0.5
KWA	KS Mako	72	94	22	56.9	58.6	1.7	11.9	12.1	0.2
OGI	Green Hammer	72	73	1	57.7	58.4	0.7	13.4	13.1	-0.3
OGI	Firebox	72	82	10	59.0	59.1	0.1	13.0	13.3	0.3
AgriPro	Bob Dole	71	79	8	57.1	57.0	-0.1	12.5	12.7	0.2
PlainsGold	Canvas	71	89	18	55.9	57.2	1.3	11.8	12.4	0.6
Croplan	CP7869	71	77	6	56.7	57.2	0.5	12.4	11.6	-0.8
PlainsGold	Crescent AX	70	75	5	58.8	58.9	0.1	11.9	12.2	0.3
AgriPro	AP24 AX	70	83	13	56.3	56.5	0.2	10.6	11.8	1.2
LCS	LCS Helix AX	70	82	12	58.8	59.3	0.5	12.3	12.0	-0.3
Armor	AR Turret 25	70	83	13	57.0	57.1	0.1	12.7	12.0	-0.7
OGI	Smith's Gold	69	78	9	58.9	58.9	0.0	12.3	12.3	0.0
PlainsGold	CO18035RA	68	88	20	55.5	57.4	1.9	11.9	11.9	0.0
LCS	LCS Atomic AX	66	79	13	56.1	56.5	0.4	13.2	12.3	-0.9
OGI	Big Country	66	71	5	58.1	57.8	-0.3	12.6	12.1	-0.5
LCS	LCS Steel AX	66	93	27	54.9	57.5	2.6	12.0	11.7	-0.3
AgriPro	AP Bigfoot	65	82	17	56.2	57.2	1.0	11.2	12.1	0.9
Croplan	CP7220	65	84	19	57.1	57.3	0.2	11.5	11.4	-0.1
Armor	AR Iron Eagle 22AX	64	98	34	54.4	57.7	3.3	11.3	11.9	0.6
LCS	LCS Galloway AX	63	76	13	57.9	58.3	0.4	12.6	12.9	0.3
AgriPro	SY Wolverine	62	94	32	52.6	54.4	1.8	12.9	12.4	-0.5
LCS	LCS Runner	62	82	20	56.0	57.2	1.2	11.0	11.6	0.6
LCS	LCS Photon AX	66	79	13	54.3	57.3	3.0	12.4	11.8	-0.6
Croplan	CP7017AX	61	98	37	54.7	57.8	3.1	11.6	11.6	0.0
Westbred	WB4422	59	101	42	52.8	58.8	6.0	12.8	13.0	0.2
PlainsGold	Byrd CL Plus	57	90	33	53.3	57.7	4.4	12.5	11.4	-1.1
Westbred	WB4632	57	99	42	53.9	57.4	3.5	11.5	11.3	-0.2
PlainsGold	Kivari AX	57	82	25	52.5	55.8	3.3	11.5	11.6	0.1
OGI	Butler's Gold (late-planted)	56	54	-2	59.1	58.5	-0.6	12.3	13.7	1.4
LCS	LCS Julep	46	85	39	54.2	58.6	4.4	12.5	12.1	-0.4
PlainsGold	Whistler	42	84	42	53.7	57.1	3.4	10.1	11.1	1.0
AGSECO	AG Radical	39	85	46	50.0	54.8	4.8	13.0	12.2	-0.8
OGI	OK Corral	--	80		56.1	56.6	0.5	11.7	11.3	-0.4
Experimentals										
OSU	OK16107133-19-4	82	93	11	56.3	56.5	0.2	12.0	11.6	-0.4
OSU	OK20708	80	88	8	56.5	57.0	0.5	11.7	11.7	0.0
OSU	OK198417C	79	88	9	58.8	59.5	0.7	12.5	12.1	-0.4
OSU	OK16107133-19-3	76	72	-4	57.2	56.7	-0.5	11.9	12.3	0.4
Mean		69	84	16	56.3	57.4	1.1	12.1	12.1	0.0
LSD (0.05)		9	12	--	1.2	1.2	--	1.3	1.3	--

Notes: Grain yield was adjusted to 12% moisture content. Shaded values were not statistically different from the highest value within a column. Butler's Gold late-planted was planted on 12/04/2023. Lodging was evaluated at harvest on a 0 to 5 scale with 0 indicating no lodging and 5 plot completely lodged. * Brackling was observed. OK Corral had a 20% yield loss due to deer damage and yield data was removed from standard management trial. Stripe and leaf rust fungal diseases were observed at moderate to severe pressure in the season. Disease severity ratings were collected on April 30 (around anthesis). The trial received 3.8" rainfall between harvest maturity and the time it could be harvested, thus driving down test weight. Double-dashes "--" = data not available.