



Chickasha Wheat Variety Trial Standard vs. Intensive Management Comparison

wheat.okstate.edu

Cooperator: OSU South Central Research Station

Planting & harvest dates: 10/25/2021 & 06/16/2022

Management: Grain-only, conventional tillage

Seeding rate: 1.2 million seeds/acre

Nitrogen: 6 lbs/ac 10-34-0 at planting, 87 lbs/ac on 2/15/22, 60 lbs/ac 3/14/22.

Fungicide: 4 fl oz/ac Tebucure 3.6 at jointing on 4/1/22 and 9 fl oz/ac Trivapro at flag leaf-boot stage on 4/14/22

Extension Educator: Alexandria Minor

Previous crop: Austrian winter peas

Soil Type: Dale silt loam

Soil test: pH=6.6, N= 81, P= 43, K= 377

Licensee	Variety	Grain Yield			Test Weight			Wheat Protein		
		Standard	Intensive	Diff	Standard	Intensive	Diff	Standard	Intensive	Diff
		----- bu/ac -----			----- lb/bu -----			----- % -----		
LCS	LCS Atomic AX	76	77	0	57.3	58.0	0.7	coming soon		
PlainsGold	Crescent AX	71	82	12	57.1	58.1	1.1			
LCS	LCS Helix AX	70	77	7	58.8	59.0	0.2			
PlainsGold	Canvas	69	72	3	58.4	58.0	-0.4			
KWA	KS Ahearn	69	74	5	56.3	56.7	0.4			
AGSECO	AG Golden	69	81	12	56.0	56.5	0.5			
PlainsGold	Breck	69	74	5	58.6	57.8	-0.7			
PlainsGold	Sunshine	69	74	5	53.7	56.0	2.3			
Croplan	CP7017AX	69	77	8	56.7	57.0	0.3			
KWA	KS Providence	68	71	3	54.0	56.0	2.0			
AgriPro	AP EverRock	68	75	7	56.4	56.6	0.2			
Westbred	WB4792	68	78	10	60.2	58.8	-1.4			
OGI	Showdown	67	71	4	56.4	57.1	0.7			
OGI	Gallagher	67	75	8	55.6	57.8	2.2			
Westbred	WB4699	67	70	3	55.6	56.1	0.5			
Westbred	WB4422	66	78	11	58.2	58.5	0.3			
AgriPro	AP Roadrunner	66	78	12	55.9	57.1	1.2			
AgriPro	Bob Dole	66	75	9	54.5	57.4	2.8			
OGI	Butler's Gold	66	70	5	58.9	59.2	0.3			
KWA	KS Hamilton	66	71	5	58.0	57.8	-0.2			
LCS	LCS Julep	65	67	2	58.7	56.8	-1.8			
LCS	LCS Steel AX	65	70	5	55.9	55.5	-0.4			
OGI	Smith's Gold	65	71	6	57.8	59.1	1.3			
AgriPro	AP18 AX	65	73	9	56.1	57.5	1.5			
OGI	Duster	64	73	9	55.8	57.6	1.8			
LCS	LCS Valiant	64	72	8	57.5	58.1	0.6			
OGI	Baker's Ann	64	70	6	56.6	57.7	1.1			
LCS	LCS Photon AX	63	67	3	58.8	59.6	0.9			
Westbred	WB4523	63	74	11	55.8	56.1	0.2			
KWA	KS Western Star	63	65	2	57.9	57.5	-0.4			
LCS	LCS Runner	63	73	10	57.3	58.3	1.0			
PlainsGold	Guardian	63	73	10	59.0	59.7	0.8			
Westbred	WB4401	62	67	5	53.3	56.0	2.7			
Croplan	CP72166AX	61	68	6	57.5	58.1	0.6			
AGSECO	AG Radical	61	73	12	55.6	56.2	0.6			
OGI	OK Corral	61	73	13	53.6	55.9	2.3			
AgriPro	AP Prolific	61	73	12	55.9	57.4	1.4			
AgriMAXX	AM Cartwright	60	69	9	55.7	56.9	1.2			
AGSECO	AG Icon	60	69	9	56.5	57.7	1.2			
OGI	Strad CL+	60	64	4	56.4	58.3	1.9			
OGI	Skydance	59	67	7	59.1	59.0	-0.1			
OGI	Green Hammer	59	66	7	57.6	57.9	0.3			
OGI	Uncharted	59	66	7	56.4	56.7	0.4			
AgriPro	SY Achieve CL2	57	66	10	57.9	58.2	0.3			
OGI	Doublestop CL+	57	66	9	59.3	59.3	0.0			
LCS	LCS Chrome	55	66	11	56.0	56.6	0.6			
OGI	Big Country	47	56	9	55.7	57.9	2.2			
Experimentals										
OSU	OK15MASBx7 ARS 8-29	69	76	8	55.8	57.1	1.3			
	OK15DMASBx7 ARS 6-8	50	63	14	56.9	57.7	0.8			
Mean		63	71	8	56.8	57.5	0.8			
LSD (0.05)		6	6	NS	1.1	1.0	1.3			

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. In 2020, there were no harvest results from this location due to late-spring freeze damage. Thus, the 3-year average represent results from 2019, 2021, and 2022 harvest years. Double-dashes"--" = data not available.