



Chickasha Standard vs. Intensive Wheat Management Comparison

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AGRICULTURE

Cooperator: OSU South Central Research Station

Planting & harvest dates: 10/20/15 & 6/10/16

Previous crop: Austrian winter pea

Soil type: Dale silt loam

Management: Grain-only, conventional tillage

Soil test: pH = 6.7, P = 51, K = 396

All plots had 150 lb/ac N available at planting. Intensive Wheat Management (IWM) plots received 40 lb/ac additional N at jointing, 4 oz/ac Tilt at jointing, and 6.8 oz/ac Approach Prima at heading

Source	Variety	2016 Grain Yield			2016 Test Weight		
		Standard	IWM	Diff.	Standard	IWM	Diff.
		-----bu/ac-----			-----lb/bu-----		
OGI	Billings	83	94	12	58.5	59.8	1.2
AGSECO	AG Robust	80	94	14	59.4	58.7	-0.8
KWA	Larry	77	84	7	58.0	58.1	0.1
KWA	Joe	76	75	-1	57.0	57.6	0.6
LCS	LCS Chrome†	75	84	9	55.5	55.4	-0.1
KWA	Tatanka	74	82	8	58.5	57.9	-0.6
Syngenta	SY Flint†	74	91	17	59.9	59.5	-0.3
KWA	1863	73	84	10	60.0	59.1	-0.9
OGI	Gallagher	73	93	21	59.3	59.9	0.6
AGSECO	TAM 114	72	90	18	59.8	60.9	1.0
Syngenta	SY Llano	72	85	13	60.7	60.4	-0.3
WestBred	WB4458	72	91	20	58.8	60.2	1.4
Syngenta	SY Monument	71	80	10	57.1	53.6	-3.5
LCS	T158	71	89	18	59.4	58.9	-0.5
WestBred	WB4515	70	103	33	57.9	60.7	2.8
KWA	Zenda	70	85	15	59.7	60.6	1.0
WestBred	WB-Cedar	69	96	27	57.7	59.4	1.7
Watley	TAM 204	68	101	33	56.8	57.9	1.1
KWA	Oakley CL	66	69	2	56.4	56.0	-0.4
WestBred	WB4721	65	72	6	56.9	56.9	0.0
Syngenta	SY Drifter†	64	84	20	60.0	59.3	-0.7
WestBred	WB4303	62	103	41	55.8	57.5	1.7
KWA	KanMark	61	87	26	57.3	58.9	1.6
Syngenta	SY Grit	61	95	35	56.2	59.3	3.1
WestBred	Winterhawk	60	90	29	58.2	60.2	2.1
WestBred	WB-Grainfield	60	75	14	54.0	54.9	0.9
OGI	Iba	60	81	20	57.1	59.0	1.9
Syngenta	SY Razor	60	73	13	61.6	60.7	-0.9
OGI	OK Rising	57	80	23	56.0	56.2	0.2
OGI	Duster	56	67	11	56.6	55.6	-1.0
OGI	Doublestop CL Plus	56	75	19	59.1	60.4	1.3
OGI	Bentley†	54	84	30	53.1	54.9	1.8
Dyna-Gro	Long Branch	52	55	3	50.2	51.3	1.1
OGI	NF 101	49	77	28	58.2	60.3	2.2
LCS	LCS Pistol	47	70	23	56.5	56.0	-0.5
OSU	Endurance	47	74	28	55.0	59.0	4.0
PlainsGold	Brawl CL Plus	42	87	45	54.0	59.8	5.8
LCS	LCS Mint	40	79	39	53.3	58.1	4.8
LCS	LCS Wizard	36	87	51	57.3	59.9	2.6
Watley	TAM 112	33	72	40	52.3	57.5	5.3
PlainsGold	Avery†	27	82	55	52.8	56.0	3.1
PlainsGold	Byrd	26	91	65	53.4	59.6	6.2
KWA	Everest	25	85	61	58.8	58.7	-0.1
OGI	Ruby Lee	23	92	68	54.8	60.7	5.8
Experimentals							
	OK12912C	78	90	12	57.6	61.6	4.0
	OK11D25056	75	84	9	59.5	58.7	-0.8
	OK09915C-1	69	77	9	60.1	60.2	0.1
	Mean	60	84	24	57.1	58.4	1.3
	LSD (0.05)	7	9	9	2.1	2.5	2.4

Notes: Grain yields adjusted to 12% moisture. Shaded values are not statistically different from the highest value within a column. Boldfaced values in the "Diff." column represent a statistical difference between the standard and IWM averages for that variety. Severe stripe rust pressure during grain fill.

† Varieties tested and reported as experimental lines in previous trial(s): Avery = CO11D174; Bentley = OK09125; LCS Chrome = LCH13DH-20-87; SY Drifter = AP09T7631; SY Flint = 06BC722#25.