



# Chickasha Standard vs. Intensive Wheat Management Comparison

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**Cooperator: OSU South Central Res. Station Ext. Educator: David Nowlin**

Planting & harvest dates: 10/21/16 & 6/5/17

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 94 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 13 oz/ac Nexicor at heading

Source	Variety	2016-17 Grain Yield			2016-17 Test Weight		
		Standard	IWM	Diff.	Standard	IWM	Diff.
		-----bu/ac-----			-----lb/bu-----		
AGSECO	Hot Rod	45	54	9	53.8	54.2	0.4
WestBred	WB-Cedar	40	58	18	56.1	57.6	1.5
AGSECO	TAM 114	39	61	22	55.1	57.0	1.9
WestBred	WB4269 <sup>†</sup>	38	57	18	55.8	56.7	1.0
Syngenta	Bob Dole <sup>†</sup>	37	49	12	55.2	56.4	1.3
OGI	Duster	37	56	19	54.6	56.7	2.2
KWA	Zenda	36	46	10	56.1	56.2	0.2
OGI	NF 101	36	52	16	54.7	56.3	1.6
OGI	Smith's Gold <sup>‡</sup>	34	54	20	55.2	58.0	2.7
KWA	Joe	34	50	16	53.9	56.1	2.3
Syngenta	SY Razor	33	42	9	56.5	58.0	1.5
OGI	Doublestop CL Plus	33	48	15	56.2	57.7	1.5
OGI	Ruby Lee	33	49	16	55.6	57.0	1.4
WestBred	WB4515	33	58	25	55.3	57.6	2.3
Syngenta	SY Drifter	32	41	9	56.4	57.1	0.7
WestBred	Winterhawk	30	58	27	54.6	58.0	3.3
LCS	LCS Wizard	30	47	17	54.7	57.6	2.9
WestBred	WB-Grainfield	30	61	31	53.5	56.6	3.1
AGSECO	AG Icon <sup>†</sup>	30	41	11	53.9	56.5	2.7
OGI	Iba	30	53	23	54.2	57.3	3.1
WestBred	WB4303	29	51	21	52.5	55.2	2.7
WestBred	WB4721	29	52	23	55.0	57.2	2.2
OSU	Endurance	29	41	12	53.9	56.4	2.5
LCS	LCS Chrome	29	39	10	49.2	51.4	2.2
OGI	Gallagher	28	48	19	54.8	56.9	2.1
Syngenta	SY Llano	27	43	16	56.1	58.3	2.2
LCS	LCS Pistol	27	48	21	53.6	56.0	2.4
Syngenta	SY Rugged <sup>†</sup>	27	42	15	52.8	55.4	2.5
Syngenta	SY Achieve CL2 <sup>†</sup>	27	53	26	53.1	57.8	4.7
LCS	T158	26	56	30	52.6	57.1	4.5
AGSECO	AG Robust	26	36	10	53.6	55.4	1.8
KWA	Tatanka	25	49	24	53.0	57.2	4.2
OGI	Billings	25	44	19	54.2	56.6	2.4
Dyna-Gro	Long Branch	24	45	21	48.8	52.3	3.5
Syngenta	SY Benefit <sup>†</sup>	22	50	28	52.8	57.3	4.5
Syngenta	SY Flint	21	46	24	54.0	55.8	1.8
WestBred	WB4458	20	45	25	51.5	55.7	4.2
Syngenta	SY Grit	20	48	28	52.9	57.5	4.6
OGI	Bentley	18	47	28	50.0	55.6	5.6
OGI	Stardust	18	39	22	50.4	56.1	5.7
KWA	Larry	16	42	26	51.0	56.3	5.3
Watley	TAM 204	14	42	28	50.8	53.2	2.5
LCS	LCS Mint	14	32	18	51.6	54.6	3.0
<b>Experimentals</b>							
	OK13209	34	48	14	56.4	57.7	1.3
	OK13621	29	54	25	53.5	57.4	3.9
	OK12716R/W	27	54	27	51.7	56.4	4.7
	OK12D22002-077	19	43	24	52.0	56.4	4.4
	Mean	29	48	20	53.7	56.4	2.7
	LSD (0.05)	7	7	7	2.0	1.3	1.6

**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 vs. intensive management averages for that variety. Lodging on a 1 - 5 scale with 1 indicating no lodging. Severe leaf rust and low stripe rust pressure during grain fill. Wheat streak mosaic and barley yellow dwarf were also present during grain fill. All plots were treated with 3.8 oz/ac lambda-cyhalothrin on 3/14/17.

<sup>†</sup> Variety entered into the 2016-17 trials as experimental line: AG Icon = KS080448C\*102; Bob Dole = KS061193K-2; SY Achieve CL2 = 07CL041-1; SY Benefit = 06BC362-8; SY Rugged = AP11T2222; WB4269 = H4N12-0038.

<sup>‡</sup> Variety tested and reported as an experimental line in previous trial(s): Smith's Gold = OK11D25056.

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