



Lahoma Regional Wheat Variety Trial - Fungicide vs. No Fungicide Comparison

wheat.okstate.edu

Cooperator: OSU North Central Research Station

Ext. Educator: Rick Nelson

Planting & harvest dates: 10/11/17 & 6/11/18

Management: Grain-only, conventional tillage

Fungicide = 13 fl oz/ac Nexicor at heading on 4/28/18

Previous crop: Wheat

Soil type: Pond Creek silt loam

Soil test: pH = 5.6, P = 53, K = 407

Licensee	Variety	2017-18 Grain Yield			2017-18 Test Weight		
		No fungicide	Fungicide	Diff.	No fungicide	Fungicide	Diff.
		-----bu/ac-----			-----lb/bu-----		
WestBred	WB4269	49	53	4	57.9	58.5	0.6
OGI	Bentley	48	48	0	55.7	56.0	0.3
OGI	Ruby Lee	45	47	2	59.0	58.5	-0.5
AGSECO	AG Gallant	42	42	0	58.7	58.9	0.2
CROPLAN	CP78-26	41	39	-2	55.7	55.0	-0.7
Watley	TAM 112	40	41	1	59.4	59.5	0.1
PlainsGold	Langin	39	40	1	57.2	57.8	0.6
WestBred	WB4721	39	40	1	59.7	59.6	-0.1
Dyna-Gro	Long Branch	39	45	6	54.3	55.3	1.0
LCS	T158	38	39	1	58.1	58.9	0.8
OGI	Stardust	37	28	-9	58.7	58.4	-0.3
LCS	LCS Mint	37	36	-1	58.6	58.7	0.1
WestBred	WB4515	35	33	-2	59.4	58.8	-0.6
OGI	Doublestop CL Plus	35	33	-2	60.1	59.1	-1.0
OGI	Smith's Gold	35	34	-1	57.8	57.7	-0.1
LCS	LCS Pistol	35	32	-3	56.5	57.8	1.3
OGI	Gallagher	35	35	0	55.2	56.2	1.0
LCS	LCS Chrome	35	30	-5	55.7	56.1	0.4
AGSECO	AG Icon	34	29	-5	56.8	57.5	0.7
AgriPro	SY Benefit	33	32	-1	57.5	57.9	0.4
OGI	Spirit Rider	33	35	2	57.8	59.5	1.8
Watley	TAM 204	33	27	-6	51.3	53.7	2.4
KWA	Joe	32	35	3	56.8	58.1	1.3
KWA	Oakley CL	32	30	-2	57.5	57.9	0.4
WestBred	WB4458	31	29	-2	58.1	57.5	-0.6
OGI	Lonerider	30	27	-3	53.6	53.7	0.1
KWA	Larry	30	27	-3	56.8	56.8	0.0
OGI	Iba	30	27	-3	58.0	58.3	0.3
LCS	LCS Avenger	29	34	5	56.1	55.1	-1.0
AGSECO	TAM 114	29	30	1	58.4	59.4	1.0
AgriPro	SY Rugged	28	25	-3	55.6	56.5	0.9
WestBred	WB4303	28	27	-1	55.0	53.5	-1.5
WestBred	WB-Grainfield	28	27	-1	57.0	57.4	0.4
AgriPro	SY Flint	28	21	-7	58.1	58.8	0.7
WestBred	Winterhawk	27	28	1	58.4	58.6	0.2
AgriPro	SY Achieve CL2	27	24	-3	56.9	57.1	0.2
KWA	Zenda	27	30	3	57.9	58.0	0.1
OGI	Duster	26	25	-1	56.6	57.0	0.4
AgriMAXX	AM Eastwood	26	26	0	56.1	56.4	0.3
AgriPro	SY Monument	25	23	-2	56.7	57.2	0.5
AgriPro	SY Grit	22	19	-3	54.7	53.8	-0.9
OGI	NF 101	22	24	2	56.3	57.0	0.7
AgriPro	Bob Dole	20	19	-1	56.0	56.2	0.2
Experimentals							
	OK13209	32	32	0	58.0	58.6	0.6
	OK12716	31	29	-2	57.0	56.8	-0.2
	OK13621	31	31	0	57.2	58.1	0.9
	OK12D22004-016	28	25	-3	58.9	56.3	-2.6
	OK14319	25	21	-4	56.6	56.3	-0.3
	OCW04S717T-6W	23	23	0	51.1	52.3	1.2
	OCW05S616T-2	22	23	1	54.8	55.9	1.1
	OK12206-2	20	20	0	49.4	52.7	3.3
Mean		32	31	-1	56.8	57.1	0.3
LSD _(0.05)		8	8	NS	1.8	1.5	NS

Notes: Grain yields adjusted to 12% moisture. Shaded values are not statistically different from the highest value within a column. NS = not significant. Negative yield and test weight responses to the fungicide application are statistically non-significant and should be regarded as no response. Freeze injury occurred during early April. There was low foliar disease pressure during grain-fill, but Fusarium foot rot (dryland root rot) symptoms began appearing in early May, with sudden and dramatic symptom expression occurring between May 18 and May 21 and persisting throughout the remainder of grain-fill.

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