
Oklahoma Small Grains Variety Performance Tests 2014 - 2015



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Partial funding provided by



This publication includes reprints of OSU Cooperative Extension Service
Current Reports CR-2141 and CR-2143

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Funding provided by:

Oklahoma Wheat Commission
Oklahoma Wheat Research Foundation
OSU Cooperative Extension Service
OSU Agricultural Experiment Station
Entry fees from participating seed companies

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**We sincerely thank our variety trial cooperators
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Protein data will be reported in a separate publication later in 2015 and posted at

www.wheat.okstate.edu

2015 WHEAT CROP OVERVIEW

At the time of writing this report, 2015 Oklahoma wheat production is estimated to be approximately 104 million bushels, which is roughly double our 2014 production (Table 1). While this is certainly an improvement over the previous year, 2015 will not be remembered as a banner year for Oklahoma wheat.

	2014	2015
Harvested Acres	2.8 million	3.7 million
Yield (bu/ac)	17	28
Total bushels	48 million	104 million

Most of the Oklahoma wheat crop was sown into limited topsoil moisture with little or no subsoil moisture to serve as backup. There were a few large rainfall events in the fall of 2014, but the smaller, timely rainfalls that fell across much of Oklahoma were just enough to build and maintain an adequate to bumper fall forage crop.

Even though subsoil moisture was never recharged, the wheat crop went into winter dormancy with good potential. Some of the later sown wheat was small, but tillering was adequate and a few small moisture events kept the crop hanging on. Coming out of dormancy in February & March many areas of Oklahoma were poised to make a bumper crop, but it soon became clear the crop was living on borrowed time. Warm winds in early March reduced a wheat crop that appeared to have 60 bu/ac potential to 20 bu/ac potential in about three days. Soon thereafter fields browned and tillers were sloughed.

Rain in late March and early April brought new life to the wheat crop in south central and southwestern Oklahoma. Rain was not as plentiful in north central and northwestern Oklahoma, but there was enough to keep the crop hanging on. Rain started falling in early May, wheat rebounded, and it appeared the Oklahoma wheat crop would be saved in the bottom of the 9th inning. Rains continued throughout May, however, setting records and reducing wheat yield and quality.

Wheat in southwestern Oklahoma was mature by June 1, but rains delayed harvest until mid June. Dry weather allowed most of the Oklahoma wheat crop to be harvested by July 4. Test weights varied from 45 lb/bu to over 65 lb/bu, but most were in the mid 50's. Reductions in test weight were due to a variety of factors. Foliar disease and Fusarium head blight claimed test weight in susceptible varieties. Many wheat fields lodged early resulting in poor grain fill and some sprouting damage. Finally, waterlogged soil conditions were less than optimal for the final half of grainfill, which resulted in shriveled kernels.

Insect problems in 2015 included bird cherry oat aphid, greenbugs, winter grain mite, brown wheat mite, and Hessian fly. Producers were faced with the need to invest money into pesticides to control greenbugs and mites in an extremely drought stressed crop. Many chose not to treat. Hessian fly was troubling for many Oklahoma no-till wheat farmers in 2015. The last few years have been relatively Hessian fly-free, but the resurgence of this insect pest in 2015 reinforced the importance of genetic resistance as the most effective tool for combatting this pest in the southern Great Plains.

While 2014 was virtually disease free, foliar and viral diseases of wheat were plentiful in 2015. Wheat streak mosaic continued its progression into central Oklahoma and several fields in the Enid area were infected with the wheat curl mite-transmitted disease. Free moisture, moderate temperatures, and plentiful disease inoculum made conditions right for Fusarium head blight primarily in eastern Oklahoma, where several fields were affected with varying levels of damage either from the fungus reducing yield and test weight or from the toxin (DON) associated with Fusarium head blight infections..

While both wheat streak mosaic and Fusarium head blight were issues in 2015, the agronomic and economic impact of these two diseases pale in comparison to that of stripe rust. Reports from Texas made it clear that stripe rust inoculum was plentiful and that 2015 had the potential to be a major "stripe rust year". Producers were aware of this potential, but they were confronted with the fact that at the time fungicides should have been applied, our wheat crop was still in the stranglehold of drought. Once rains came and conditions

improved, it was either too late or fields were too wet to apply many of the fungicides available. Perhaps no variety more clearly conveys the impact of stripe rust than Pete. At Chickasha without a fungicide, the stripe rust susceptible variety made just 10 bu/ac with a test weight too low for our machinery to measure. In the Chickasha Intensive Wheat Management trial in the same field, Pete made 78 bu/ac with a 59.7 lb/bu test weight. This stark contrast in production illustrates not only the yield robbing power of stripe rust but also the yield protecting power of foliar fungicides.

Methods

Seed was packaged and planted in the same condition as it was delivered from the respective seed companies. Most seed was treated with an insecticide plus fungicide seed treatment, but the formulation and rate of seed treatment used was not confirmed or reported in this document.

Conventional plots were eight rows wide with six-inch row spacing and were sown with a Hege small plot cone seeder. No-till plots were seven rows wide with 7.5-inch row spacing and were sown with a Great Plains no-till drill modified for cone-seeded, small-plot research. With the exception of dryland locations in the Panhandle, plots were planted 25 feet long and trimmed to 20 feet at harvest with the plot combine. Panhandle dryland locations were 35 feet long at planting and trimmed to 30 feet at harvest. Wheel tracks were included in the plot area for yield calculation, for a total plot width of 59 inches. Experimental design for all sites other than Lahoma and Apache was a randomized complete block with four replications. Lahoma and Apache were a split-block arrangement of a randomized complete block with

four replications where whole plots were fungicide treated or nontreated and sub-plots were wheat variety.

Conventional till plots received 50 lb/ac of 18-46-0 in-furrow at planting. No-till plots received 5 gal/ac of 10-34-0 at planting. The Marshall dual-purpose (DP) trial, Union City, Walters, and forage trials were sown at 120 lb/ac. All other locations were sown at 60 lb/ac. Grazing pressure, nitrogen fertilization, and insect and weed control decisions were made on a location-by-location basis and reflect standard management practices for the area.

Plots were harvested with a Hege 140 or Winterstieger Delta small plot combine. When sample size allowed for grain moisture measurement on individual plots, grain yields were corrected to 12% moisture. Grain moisture at all sites was generally below 11% and maximum and minimum grain moisture for all plots at a location typically ranged no more than 1%. Lamont and Goodwell nonirrigated plots were harvested, but data are not reported as the coefficient of variation (c.v.) exceeded 20.

Additional information on the Web

A copy of this publication as well as additional variety information and more information on wheat management can be found at

Website: www.wheat.okstate.edu

Blog: www.osuwheat.com

Twitter: [@OSU_smallgrains](https://twitter.com/OSU_smallgrains)

2015 Oklahoma Wheat Variety Performance Tests Summary

Variety	Afton	Altus	Alva	Apache	Apache Fungicide	Balko	Buffalo	Cherokee	Chickasha	Chickasha IWM	Goodwell Irrigated	Homestead
	-----grain yield (bu/ac)-----											
1863	-	46	-	-	-	-	-	-	53	79	76	-
Billings	74	46	45	-	-	-	50	41	59	78	66	26
Brawl CL Plus	-	44	45	39	60	69	63	46	40	71	66	26
Byrd	-	36	48	30	61	69	67	44	17	58	37	25
Centerfield	-	37	-	-	-	-	-	-	47	59	66	-
Deliver	-	44	-	-	-	-	-	-	52	64	54	-
Doublestop CL Plus	65	50	48	47	64	68	61	58	41	60	62	30
Duster	56	43	41	31	49	78	60	48	42	59	60	21
Endurance	64	48	46	40	54	69	60	51	37	64	53	26
Everest	68	43	45	44	60	75	48	52	31	76	70	27
Gallagher	64	47	41	50	65	64	50	42	58	75	80	24
Garrison	50	40	46	32	62	62	53	45	20	60	39	26
Greer	-	46	-	50	66	-	-	-	50	80	51	27
Hot Rod	-	42	-	-	-	-	-	-	66	81	92	-
Iba	57	50	49	45	64	75	61	55	48	73	67	27
Jackpot	64	44	37	48	64	55	49	54	44	77	63	27
KanMark	-	57	46	-	-	69	57	42	46	73	69	-
LCS Mint	-	42	52	-	-	78	60	46	28	69	40	30
LCS Pistol	57	48	47	40	60	75	60	51	34	65	68	23
LCS Wizard	52	36	-	-	-	-	-	-	32	67	53	25
NF101	-	42	-	-	-	-	-	-	45	62	52	-
Oakley CL	-	48	-	-	-	-	-	-	52	68	80	-
OK Rising	-	39	-	-	-	-	-	-	37	68	61	-
Pete	-	36	-	-	-	-	-	-	10	78	39	-
Ruby Lee	75	42	42	41	58	53	49	43	25	64	50	28
SY Drifter	-	48	-	-	-	-	-	-	47	64	70	-
SY Flint	-	52	-	-	-	-	-	-	61	76	79	-
SY Llano	-	26	-	48	56	-	-	-	58	70	-	-
SY Monument	-	41	-	-	-	-	-	-	59	74	78	-
SY Southwind	65	43	-	-	-	-	-	-	53	69	67	30
T153	-	37	-	54	59	-	-	-	58	78	89	-
T154	66	40	44	48	59	-	48	54	56	76	81	-
T158	-	44	-	-	-	77	-	-	47	79	66	-
TAM 112	-	33	38	-	-	62	52	45	23	59	34	-
TAM 113	-	43	41	-	-	70	58	46	37	52	42	-
TAM 114	-	45	55	-	-	75	68	53	53	79	56	-
TAM 204	-	44	53	-	-	74	60	46	53	69	84	-
WB-Cedar	67	50	45	-	-	-	50	41	66	80	64	27
WB-Grainfield	-	43	-	62	73	83	-	-	54	74	80	-
WB-Redhawk	65	36	-	-	-	-	-	-	34	76	55	30
WB4458	76	43	46	56	60	63	53	43	63	80	94	29
Winterhawk	-	51	59	49	63	72	67	46	48	65	64	-
Mean	64	43	46	45	61	70	57	48	45	70	64	27
LSD (0.05)	8	10	9	7	6	9	8	10	6	8	13	6

Partial financial support provided by the Oklahoma Wheat Commission and the Oklahoma Wheat Research Foundation

2015 Oklahoma Wheat Variety Performance Tests Summary

	Hooker	Keys	Kildare	Kingfisher	Lahoma	Lahoma Fungicide	Marshall Dual Purpose	Marshall Grain Only	McLoud	Thomas	Union City	Walters
Variety	-----grain yield (bu/ac)-----											
1863	-	-	-	-	62	78	-	-	-	-	-	-
Billings	-	-	31	54	56	64	29	41	55	36	37	-
Brawl CL Plus	58	78	45	50	52	69	35	45	57	27	34	25
Byrd	59	86	33	59	32	70	31	20	53	16	23	24
Centerfield	-	-	-	-	42	54	-	-	-	-	-	-
Deliver	-	-	-	-	53	62	-	-	-	-	-	-
Doublestop CL Plus	54	82	46	57	53	66	38	36	58	36	43	34
Duster	52	81	40	57	45	59	43	34	31	26	36	34
Endurance	53	58	39	54	50	68	38	32	54	23	31	26
Everest	45	71	44	54	43	74	36	42	60	26	35	29
Gallagher	59	73	42	56	62	72	41	43	45	41	49	28
Garrison	52	86	33	44	34	63	19	22	60	15	15	13
Greer	-	-	50	59	49	71	33	39	59	37	38	37
Hot Rod	-	-	-	-	61	70	-	-	-	-	-	-
Iba	50	87	45	55	56	67	37	44	53	30	41	32
Jackpot	48	93	36	59	50	66	30	33	66	32	35	26
KanMark	63	83	-	-	45	65	-	-	-	-	-	-
LCS Mint	54	80	45	-	47	67	27	28	-	-	-	-
LCS Pistol	39	67	40	59	47	65	35	37	51	27	34	35
LCS Wizard	-	-	39	51	34	59	26	27	65	23	29	-
NF101	-	-	-	-	57	69	-	-	-	15	14	11
Oakley CL	-	-	-	-	58	71	-	-	-	-	-	-
OK Rising	-	-	-	-	46	65	-	-	-	-	-	-
Pete	-	-	-	-	35	59	-	-	-	-	-	-
Ruby Lee	43	71	38	54	47	64	34	34	51	21	35	22
SY Drifter	-	-	-	-	47	64	-	-	-	-	-	-
SY Flint	-	-	-	-	55	69	-	-	-	-	-	-
SY Llano	-	-	-	50	52	64	-	-	61	39	42	27
SY Monument	-	-	-	-	64	73	-	-	-	-	-	-
SY Southwind	-	-	39	-	56	65	44	42	-	-	-	-
T153	-	-	-	-	59	72	-	-	-	-	-	25
T154	-	-	-	61	53	60	-	-	58	34	46	23
T158	48	102	-	-	50	61	-	-	-	-	-	-
TAM 112	45	74	-	-	35	62	-	-	-	-	-	-
TAM 113	61	80	-	-	42	54	-	-	-	-	-	-
TAM 114	42	67	-	-	64	72	-	-	-	-	-	-
TAM 204	60	78	-	-	53	78	-	-	-	39	46	27
WB-Cedar	-	-	38	55	61	68	46	53	58	38	50	-
WB-Grainfield	52	103	-	-	64	78	-	-	-	-	-	35
WB-Redhawk	-	-	40	62	46	65	36	34	60	26	23	-
WB4458	51	62	50	62	58	70	35	47	67	41	45	26
Winterhawk	61	88	-	-	47	64	-	-	-	-	-	37
Mean	52	80	41	56	51	67	35	37	56	29	36	27
LSD (0.05)	12	21	8	8	7	7	6	6	9	7	7	5

Partial financial support provided by the Oklahoma Wheat Commission and the Oklahoma Wheat Research Foundation

Afton Wheat Variety Trial

Cooperator: Greg Leonard		Tillage: Minimum-till			
Soil type: Parsons silt loam		Management: Grain only			
Planting date: 10/07/2014		Previous crop: Corn			
Harvest date: 06/11/2015		Soil test: pH = 6.0, P = 143, K = 270			
Source	Variety	Grain Yield			Test Weight
		2014-15	2-Year	3-Year	2014-15
		-----bu/ac-----			--lb/bu--
WestBred	WB4458	76	67	-	60.8
OGI	Ruby Lee	75	66	62	61.6
OGI	Billings	74	69	59	61.4
KWA	Everest	68	61	59	62.1
WestBred	WB-Cedar	67	61	63	60.1
LCS	T154	66	-	-	59.8
WestBred	WB-Redhawk	65	-	-	59.8
OGI	Doublestop CL Plus	65	62	59	61.1
Syngenta	SY Southwind	65	60	-	58.3
OSU	Endurance	64	55	53	58.9
Syngenta	Jackpot	64	61	57	60.3
OGI	Gallagher	64	56	54	59.4
OGI	Iba	57	58	50	59.2
LCS	LCS Pistol	57	-	-	56.5
OGI	Duster	56	60	53	57.2
LCS	LCS Wizard	52	54	-	58.7
OGI	Garrison	50	50	50	58.0
Experimentals					
	OK13625	63	-	-	62.7
	OK09125	60	-	-	57.6
	OK10126	59	60	-	59.3
	OK11D25056	51	-	-	59.7
	OK11231	45	-	-	58.6
Mean		62	60	56	59.6
LSD _(0.05)		8	5	5	1.4

Notes: Grain yields adjusted to 12% moisture. All plots treated with 6.5 oz/ac Prosoaro on 1 May 2015. Wheat emerged late and remained small until late winter.

Altus Regional Wheat Variety Trial

Cooperator: Southwest Res. & Ext. Center	Tillage: Conventional till
Soil type: Hollister silty clay loam	Management: Grain only
Planting date: 10/09/2014	Previous crop: Failed wheat
Harvest date: 06/04/2015	Soil test: pH = 7.0, P = 43, K = 802

Source	Variety	Grain Yield		Test Weight
		2014-15	2-Year	2014-15
		-----bu/ac-----		--lb/bu--
KWA	KanMark	57	-	59.9
Syngenta	SY Flint	52	-	57.7
WestBred	Winterhawk	51	33	60.8
WestBred	WB-Cedar	50	29	59.5
OGI	Doublestop CL Plus	50	37	59.0
OGI	Iba	50	32	59.0
OSU	Endurance	48	35	56.6
Syngenta	SY Drifter	48	-	60.1
KWA	Oakley CL	48	-	57.1
LCS	LCS Pistol	48	-	56.8
OGI	Gallagher	47	27	59.4
Syngenta	Greer	46	29	54.1
KWA	1863	46	-	57.7
OGI	Billings	46	25	59.0
TAMU	TAM 114	45	-	57.6
LCS	T158	44	28	56.3
OSU	Deliver	44	27	60.8
Watley	TAM 204	44	-	54.7
PlainsGold	Brawl CL Plus	44	30	56.7
Syngenta	Jackpot	44	27	54.4
KWA	Everest	43	26	59.5
WestBred	WB-Grainfield	43	33	53.7
AGSECO	TAM 113	43	30	57.9
Syngenta	SY Southwind	43	-	53.2
OGI	Duster	43	30	55.3
WestBred	WB4458	43	28	59.0
LCS	LCS Mint	42	30	58.8
OGI	NF101	42	-	57.0
OGI	Ruby Lee	42	26	58.7
AGSECO	Hot Rod	42	-	54.5
Syngenta	Sy Monument	41	-	57.8
LCS	T154	40	-	56.7
OGI	Garrison	40	28	53.8
OGI	OK Rising	39	-	53.3
LCS	T153	37	22	52.7
OGI	Centerfield	37	23	55.8
LCS	LCS Wizard	36	26	58.9
PlainsGold	Byrd	36	26	54.4
WestBred	WB-Redhawk	36	21	58.0
OGI	Pete	36	22	59.4
Watley	TAM 112	33	-	56.2
Syngenta	SY Llano	26	-	57.4
Experimentals				
	OK09125	56	39	58.6
	LCH13DH-20-87	53	-	58.4
	OK10126	46	-	56.7
	OK11D25056	46	-	51.6
	OK1059060-2C14	44	-	56.3
	OK11231	39	-	58.1
	LCH13DH-14-91	38	-	59.8
	CO11D174	36	-	50.2
	Mean	43	28	57.0
	LSD _(0.05)	10	5	5.3

Notes: Two-year results are average of 2013 and 2015 harvest years. Heavy stripe rust pressure. Severe drought from planting through jointing.

Alva Wheat Variety Trial

Cooperator: Wes Mallory	Tillage: Conventional till
Soil type: Grant silt loam	Management: Grain only
Planting date: 10/22/2014	Previous crop: Wheat
Harvest date: 06/23/2015	Soil test: pH = 5.6, P = 61, K = 459

Source	Variety	Lodging	Grain Yield	Test Weight
			2014-15	2014-15
		0 - 10	--bu/ac--	-----lb/bu-----
WestBred	Winterhawk	1	59	59.0
TAMU	TAM 114	2	55	56.9
Watley	TAM 204	2	53	53.7
LCS	LCS Mint	3	52	50.5
OGI	Iba	1	49	53.1
OGI	Doublestop CL Plus	1	48	55.3
PlainsGold	Byrd	2	48	55.7
LCS	LCS Pistol	4	47	50.8
WestBred	WB4458	0	46	53.2
Syngenta	Greer	1	46	52.4
OSU	Endurance	1	46	53.8
KWA	KanMark	0	46	52.8
OGI	Billings	1	45	52.5
WestBred	WB-Cedar	0	45	54.8
OGI	Gallagher	1	45	52.5
PlainsGold	Brawl CL Plus	2	45	54.9
LCS	T154	1	44	56.4
OGI	Ruby Lee	1	42	55.5
OGI	Garrison	1	41	51.8
OGI	Duster	2	41	50.1
AGSECO	TAM 113	3	41	43.2
Watley	TAM 112	4	38	51.5
Syngenta	Jackpot	1	37	53.9
	Experimentals			
	OK09125	2	56	52.5
	OK1059060-2C14	1	45	50.4
	Mean	2	46	53.1
	LSD _(0.05)		9	7.9

Notes: Lodging on a 0 - 10 scale with 0 indicating no lodging. Moderate stripe rust pressure throughout grainfill.

Apache Wheat Variety Trial

Cooperator: Bryan Vail
Soil type: Hollister silt loam
Planting date: 10/23/2014
Harvest date: 06/06/2015

Tillage: No-till
Management: Grain only
Previous crop: Wheat
Soil test: pH = 5.2, P = 122, K = 446

Source	Variety	Lodging 0 - 10	Grain Yield			Test Weight
			2014-15	2-Year	3-Year	2014-15
			-----bu/ac-----			---lb/bu---
WestBred	WB-Grainfield	6	62	-	-	59.3
WestBred	WB4458	4	56	-	-	60.1
LCS	T153	8	54	45	-	57.2
OGI	Gallagher	7	50	45	50	57.8
Syngenta	Greer	2	50	47	47	57.8
WestBred	Winterhawk	3	49	-	-	58.7
LCS	T154	6	48	42	-	57.3
Syngenta	Jackpot	8	48	44	47	58.2
Syngenta	SY Llano	0	48	-	-	59.8
OGI	Doublestop CL Plus	2	47	-	-	59.7
OGI	Iba	3	45	46	44	57.4
KWA	Everest	5	44	40	47	61.5
OGI	Ruby Lee	4	41	40	46	59.8
OSU	Endurance	2	40	42	41	52.7
LCS	LCS Pistol	8	40	-	-	55.5
PlainsGold	Brawl CL Plus	3	39	-	-	57.9
OGI	Garrison	6	32	38	40	54.1
OGI	Duster	6	31	37	37	51.3
PlainsGold	Byrd	5	30	-	-	49.9
Experimentals						
	OK09125	3	57	53	-	56.7
	OK10126	0	52	52	-	58.3
	OK11D25056	5	42	-	-	54.9
<hr/>						
	Mean	4	46	44	44	57.1
	LSD _(0.05)		7	4	3	4.4

Notes: Grain yields adjusted to 12% moisture. Lodging on a 0 - 10 scale with 0 indicating no lodging.
 Severe stripe rust pressure throughout grainfill.

Apache Fungicide Wheat Variety Trial

Cooperator: Bryan Vail

Tillage: No-till

Soil type: Hollister silt loam

Management: Grain only

Planting date: 10/23/2014

Previous crop: Wheat

Harvest date: 06/06/2015

Soil test: pH = 5.2, P = 122, K = 446

Fungicide: 9 oz/ac Twinline at GS 10.1 on 04/10/2015

Source	Variety	Lodging 0 - 10	Grain Yield			Test Weight
			2014-15	2-Year	3-Year	2014-15
			-----bu/ac-----			---lb/bu---
WestBred	WB-Grainfield	1	73	-	-	59.6
Syngenta	Greer	0	66	57	56	59.6
OGI	Gallagher	2	65	53	57	58.2
Syngenta	Jackpot	2	64	57	58	57.8
OGI	Iba	1	64	60	56	59.0
OGI	Doublestop CL Plus	0	64	-	-	57.0
WestBred	Winterhawk	0	63	-	-	57.8
OGI	Garrison	1	62	55	56	55.6
PlainsGold	Byrd	2	61	-	-	55.9
KWA	Everest	2	60	49	55	58.2
WestBred	WB4458	1	60	-	-	57.5
LCS	LCS Pistol	4	60	-	-	58.2
PlainsGold	Brawl CL Plus	1	60	-	-	60.0
LCS	T153	3	59	49	-	56.2
LCS	T154	1	59	50	-	56.9
OGI	Ruby Lee	3	58	51	56	57.1
Syngenta	SY Llano	0	56	-	-	57.7
OSU	Endurance	0	54	54	53	56.1
OGI	Duster	1	49	49	50	56.9
Experimentals						
	OK09125	1	67	60	-	57.6
	OK10126	0	67	67	-	56.9
	OK11D25056	2	59	-	-	58.5
<hr/>						
	Mean	1	61	55	55	57.6
	LSD _(0.05)		6	5	5	2.5

Notes: Grain yields adjusted to 12% moisture. Lodging on a 0 - 10 scale with 0 indicating no lodging. Severe stripe rust pressure throughout grainfill.

Apache Wheat Variety Trial - Fungicide vs. No Fungicide Comparison

Cooperator: Bryan Vail

Management: No-till grain only

Planting date: 10/23/2014

Soil type: Hollister silt loam

Soil test: pH = 5.2, P = 122, K = 446

Harvest date: 06/06/2015

Previous crop: Wheat

Fungicide: 9 oz/ac Twinline at GS 10.1 on 04/10/2015

Source	Variety	Grain Yield									Test Weight		
		2014-15			2-Year			3-Year			2014-15		
		No Fungicide	Fungicide	Diff.	No Fungicide	Fungicide	Diff.	No Fungicide	Fungicide	Diff.	No Fungicide	Fungicide	Diff.
		-----bu/ac-----									-----lb/bu-----		
WestBred	WB-Grainfield	62	73	11	-	-	-	-	-	-	59.3	59.6	0.3
WestBred	WB4458	56	60	4	-	-	-	-	-	-	60.1	57.5	-2.6
LCS	T153	54	59	5	45	49	3	-	-	-	57.2	56.2	-1.0
OGI	Gallagher	50	65	15	45	53	8	50	57	7	57.8	58.2	0.4
Syngenta	Greer	50	66	17	47	57	10	47	56	9	57.8	59.6	1.8
WestBred	Winterhawk	49	63	14	-	-	-	-	-	-	58.7	57.8	-0.9
LCS	T154	48	59	10	42	50	8	-	-	-	57.3	56.9	-0.4
Syngenta	Jackpot	48	64	16	44	57	13	47	58	12	58.2	57.8	-0.5
Syngenta	SY Llano	48	56	8	-	-	-	-	-	-	59.8	57.7	-2.1
OGI	Doublestop CL Plus	47	64	16	-	-	-	-	-	-	59.7	57.0	-2.8
OGI	Iba	45	64	19	46	60	14	44	56	12	57.4	59.0	1.6
KWA	Everest	44	60	16	40	49	9	47	55	8	61.5	58.2	-3.3
OGI	Ruby Lee	41	58	17	40	51	11	46	56	10	59.8	57.1	-2.8
OSU	Endurance	40	54	14	42	54	13	41	53	12	52.7	56.1	3.4
LCS	LCS Pistol	40	60	20	-	-	-	-	-	-	55.5	58.2	2.7
PlainsGold	Brawl CL Plus	39	60	21	-	-	-	-	-	-	57.9	60.0	2.1
OGI	Garrison	32	62	30	38	55	17	40	56	15	54.1	55.6	1.5
OGI	Duster	31	49	18	37	49	13	37	50	13	51.3	56.9	5.6
PlainsGold	Byrd	30	61	31	-	-	-	-	-	-	49.9	55.9	6.0
	Experimentals												
	OK09125	57	67	10	53	60	7	-	-	-	56.7	57.6	0.9
	OK10126	52	67	15	52	67	15	-	-	-	58.3	56.9	-1.5
	OK11D25056	42	59	16	-	-	-	-	-	-	54.9	58.5	3.7
	Mean	46	61	16	44	55	11	44	55	11	57.1	57.6	0.6
	LSD _(0.05)	7	6	7	4	5	5	3	5	5	4.4	2.5	3.4

Notes: Grain yields adjusted to 12% moisture. Severe stripe rust pressure throughout grainfill. LSD values under "Diff." column can be used to compare any two numbers across columns.

Balko Wheat Variety Trial

Cooperator: Kenton Patzkowsky
Soil type: Ulysses-Richfield complex
Planting date: 10/02/2014
Harvest date: 07/01/2015

Tillage: No-till
Management: Grain only
Previous crop: Wheat/fallow
Fungicide: 4 oz/ac tebuconazole 05/17/15

Source	Variety	Hail injury 0 - 10	Grain Yield		Test Weight
			2014-15	2-Year	2014-15
			-----bu/ac-----		-----lb/bu-----
WestBred	WB-Grainfield	2	83	49	66.8
OGI	Duster	1	78	46	66.4
LCS	LCS Mint	1	78	48	65.5
LCS	T158	1	77	46	64.6
TAMU	TAM 114	1	75	-	66.1
LCS	LCS Pistol	1	75	-	64.6
OGI	Iba	1	75	45	67.1
OGI	Gallagher	1	75	43	65.4
Watley	TAM 204	2	74	-	63.5
WestBred	Winterhawk	1	72	47	65.8
AGSECO	TAM 113	1	70	43	63.9
OSU	Endurance	2	69	42	65.9
KWA	KanMark	1	69	-	65.6
PlainsGold	Byrd	2	69	41	63.0
PlainsGold	Brawl CL Plus	2	69	41	65.5
OGI	Doublestop CL Plus	1	68	42	66.1
OGI	Garrison	0	64	38	62.9
WestBred	WB4458	1	63	36	64.5
Syngenta	Greer	2	62	37	64.7
Watley	TAM 112	3	62	37	65.5
Syngenta	Jackpot	3	55	34	63.8
OGI	Ruby Lee	2	53	33	63.6
Experimentals					
	OK0986130-7C13	1	64	-	64.0
	OK08707W-19C13	2	63	37	63.1
Mean			69	41	64.9
LSD _(0.05)			9	4	0.7

Notes: All plots treated with 4 oz/ac tebuconazole on 17 May 2015. Hail injury rated on a 0 - 10 scale with 0 representing no hail injury and 10 representing complete shatter loss. Severe drought stress from planting until jointing.

Buffalo Wheat Variety Trial

Cooperator: NRCS		Tillage: No-till		
Soil type: St. Paul silt loam		Management: Grain only		
Planting date: 10/15/2014		Previous crop: Wheat		
Harvest date: 06/23/2015		Soil test: pH = 7.2, P = 75, K = 646		
Source	Variety	Lodging	Grain Yield	Test Weight
			2014-15	2014-15
		0 - 10	--bu/ac--	-----lb/bu-----
TAMU	TAM 114	2	68	57.5
WestBred	Winterhawk	2	67	56.0
PlainsGold	Byrd	2	67	55.7
PlainsGold	Brawl CL Plus	1	63	60.0
OGI	Iba	2	61	59.1
OGI	Doublestop CL Plus	2	61	56.7
LCS	LCS Pistol	1	60	54.6
LCS	LCS Mint	1	60	51.1
OSU	Endurance	0	60	55.9
Watley	TAM 204	1	60	52.9
OGI	Duster	2	60	54.0
AGSECO	TAM 113	4	58	50.9
KWA	KanMark	3	57	55.3
WestBred	WB4458	1	53	53.4
Syngenta	Greer	1	53	52.5
Watley	TAM 112	3	52	53.6
OGI	Garrison	1	50	51.7
WestBred	WB-Cedar	1	50	58.4
OGI	Billings	1	50	54.1
Syngenta	Jackpot	3	49	57.6
OGI	Ruby Lee	1	49	55.7
OGI	Gallagher	2	48	52.6
LCS	T154	1	48	55.8
	Experimentals			
	OK09125	2	64	54.4
	Mean	2	57	55.0
	LSD _(0.05)		8	4.8

Notes: Lodging on a 0 - 10 scale with 0 indicating no lodging. Moderate stripe rust pressure throughout grainfill.

Cherokee Wheat Variety Trial

Cooperator: Kenneth Failes		Tillage: Conventional till		
Soil type: Dale silt loam		Management: Dual purpose		
Planting date: 09/29/2014		Previous crop: Wheat		
Harvest date: 06/22/2015		Soil test: pH = 7.2, P = 43, K = 676		
Source	Variety	Lodging	Grain Yield	Test Weight
			2014-15	2014-15
		0 - 10	--bu/ac--	-----lb/bu-----
OGI	Doublestop CL Plus	4	58	57.6
OGI	Iba	2	55	56.8
Syngenta	Jackpot	4	54	56.4
LCS	T154	1	54	57.6
TAMU	TAM 114	1	53	56.5
OGI	Gallagher	2	52	57.6
OSU	Endurance	2	51	55.3
LCS	LCS Pistol	3	51	56.1
OGI	Duster	3	48	56.1
PlainsGold	Brawl CL Plus	1	46	55.7
Syngenta	Winterhawk	1	46	55.6
Watley	TAM 204	1	46	52.4
AGSECO	TAM 113	3	46	50.4
LCS	LCS Mint	2	46	53.3
Watley	TAM 112	3	45	53.6
Syngenta	Greer	3	45	51.8
PlainsGold	Byrd	2	44	54.1
WestBred	WB4458	1	43	54.4
OGI	Ruby Lee	1	43	54.6
KWA	KanMark	6	42	56.0
OGI	Garrison	3	42	53.5
WestBred	WB-Cedar	0	41	55.7
OGI	Billings	1	41	55.2
	Experimentals			
	OK11D25056	1	48	57.0
	OK09125	2	48	53.0
	Mean	2	48	55.0
	LSD _(0.05)		10	2.8

Notes: Plots were heavily grazed from November through early February. Lodging on a 0 - 10 scale with 0 indicating no lodging. Severe stripe rust pressure throughout grainfill.

Chickasha Regional Wheat Variety Trial

Cooperator: OSU South Central Res. Station	Previous crop: Wheat hay	Tillage: Conventional till
Soil type: Dale silt loam	Management: Grain only	Planting date: 10/21/2014
Soil test: pH = 6.5, P = 51, K = 333		Harvest date: 06/05/2015
Nitrogen: 112 lb/ac soil test + 9 lb/ac at planting + 20 lb/ac topdress on 01/14/2015		

Source	Variety	Lodging 0 - 10	Grain Yield			Test Weight
			2014-15	2-Year	3-Year	2014-15
			-----bu/ac-----			--lb/bu--
AGSECO	Hot Rod	1	66	-	-	55.8
WestBred	WB-Cedar	1	66	57	62	55.8
WestBred	WB4458	0	63	52	57	56.9
Syngenta	SY Flint	3	61	-	-	57.0
OGI	Billings	2	59	48	53	56.1
Syngenta	SY Monument	2	59	-	-	54.0
LCS	T153	2	58	50	57	54.6
OGI	Gallagher	1	58	51	58	55.7
Syngenta	SY Llano	2	58	47	-	58.9
LCS	T154	1	56	51	57	55.7
WestBred	WB-Grainfield	3	54	48	60	51.4
Watley	TAM 204	1	53	-	-	50.1
Syngenta	SY Southwind	1	53	46	-	51.4
KWA	1863	5	53	-	-	53.6
TAMU	TAM 114	2	53	-	-	54.2
KWA	Oakley CL	5	52	-	-	53.6
OSU	Deliver	1	52	50	59	53.9
Syngenta	Greer	8	50	47	53	52.6
OGI	Iba	3	48	49	56	54.1
WestBred	Winterhawk	2	48	46	58	53.5
OGI	Centerfield	1	47	44	52	51.7
LCS	T158	1	47	43	54	51.7
Syngenta	SY Drifter	1	47	-	-	56.9
KWA	KanMark	3	46	-	-	51.9
OGI	NF101	5	45	-	-	56.8
Syngenta	Jackpot	4	44	45	50	54.8
OGI	Duster	5	42	46	52	50.6
OGI	Doublestop CL Plus	2	41	40	53	53.7
PlainsGold	Brawl CL Plus	2	40	44	55	50.8
OSU	Endurance	1	37	40	52	48.9
AGSECO	TAM 113	3	37	40	45	49.9
OGI	OK Rising	0	37	-	-	47.2
WestBred	WB-Redhawk	4	34	39	45	48.0
LCS	LCS Pistol	3	34	40	54	51.1
LCS	LCS Wizard	0	32	41	-	50.6
KWA	Everest	8	31	40	54	48.0
LCS	LCS Mint	2	28	36	47	47.5
OGI	Ruby Lee	2	25	34	47	44.7
Watley	TAM 112	8	23	35	-	43.1
OGI	Garrison	4	20	33	45	-
PlainsGold	Byrd	2	17	32	45	-
OGI	Pete	6	10	23	38	-
Experimentals						
	LCH13DH-20-87	0	60	-	-	50.5
	OK13625	3	57	-	-	59.9
	LCH13DH-14-91	2	50	-	-	55.8
	OK11D25056	1	50	-	-	54.2
	OK10126	2	49	44	-	54.8
	OK1059060-2C14	0	44	-	-	53.4
	OK09125	1	39	43	51	48.8
	CO11D174	2	19	-	-	-
	Mean		45	43	52	52.7
	LSD _(0.05)		6	4	4	4.1

Notes: Grain yields adjusted to 12% moisture. Lodging on a 0 - 10 scale with 0 indicating no lodging. Severe stripe rust pressure throughout grainfill.

Chickasha Intensive Wheat Management Variety Trial

Cooperator: OSU South Central Res. Station **Previous crop:** Wheat hay **Tillage:** Conventional till
Soil type: Dale silt loam **Management:** Grain only **Planting date:** 10/21/2014
Soil test: pH = 6.5, P = 51, K = 333 **Harvest date:** 06/05/2015
Nitrogen: 112 lb/ac soil test + 9 lb/ac at planting + 20 lb/ac topdress 01/14/15 + 40 lb/ac topdress 03/13/15
Fungicide: 4 oz/ac Tilt at GS 6 on 03/13/15 + 9 oz/ac Twinline at GS 10.1 on 04/10/15

Source	Variety	Lodging 0 - 10	Grain Yield		Test Weight
			2014-15 -----bu/ac-----	2-Year	2014-15 --lb/bu--
AGSECO	Hot Rod	1	81	-	57.1
WestBred	WB-Cedar	1	80	66	57.8
WestBred	WB4458	1	80	60	58.4
Syngenta	Greer	1	80	62	58.8
KWA	1863	1	79	-	57.5
LCS	T158	2	79	59	58.8
TAMU	TAM 114	4	79	-	54.8
LCS	T153	1	78	60	57.3
OGI	Pete	1	78	59	59.7
OGI	Billings	3	78	58	58.8
Syngenta	Jackpot	1	77	62	58.4
KWA	Everest	1	76	62	60.0
Syngenta	SY Flint	2	76	-	57.7
LCS	T154	1	76	60	57.3
WestBred	WB-Redhawk	2	76	55	55.9
OGI	Gallagher	1	75	57	58.0
Syngenta	SY Monument	2	74	-	53.6
WestBred	WB-Grainfield	3	74	59	55.8
OGI	Iba	1	73	59	56.8
KWA	KanMark	1	73	-	58.5
PlainsGold	Brawl CL Plus	2	71	59	58.8
Syngenta	SY Llano	2	70	52	60.1
Syngenta	SY Southwind	2	69	55	57.6
LCS	LCS Mint	2	69	57	52.8
Watley	TAM 204	1	69	-	51.7
KWA	Oakley CL	3	68	-	56.1
OGI	OK Rising	0	68	-	52.3
LCS	LCS Wizard	1	67	57	55.0
LCS	LCS Pistol	2	65	54	51.7
WestBred	Winterhawk	2	65	56	57.8
Syngenta	SY Drifter	1	64	-	58.3
OGI	Ruby Lee	1	64	56	53.9
OSU	Deliver	2	64	58	55.0
OSU	Endurance	1	64	54	54.4
OGI	NF101	3	62	-	57.4
OGI	Doublestop CL Plus	3	60	52	52.0
OGI	Garrison	1	60	52	51.4
OGI	Duster	3	59	54	53.1
Watley	TAM 112	3	59	51	51.5
OGI	Centerfield	1	59	51	55.0
PlainsGold	Byrd	2	58	51	50.9
AGSECO	TAM 113	4	52	51	53.7
Experimentals					
	OK10126	1	76	58	57.9
	LCH13DH-14-91	1	76	-	59.5
	LCH13DH-20-87	2	75	-	52.1
	OK1059060-2C14	1	75	-	58.1
	OK09125	2	74	60	55.4
	OK13625	3	72	-	57.7
	OK11D25056	2	67	-	56.6
	CO11D174	1	56	-	49.9
Mean			70	57	56.0
LSD _(0.05)			8	6	2.9

Notes: Grain yields adjusted to 12% moisture. Lodging on a 0 - 10 scale with 0 indicating no lodging. Severe stripe rust pressure throughout grainfill.

Chickasha Standard vs. Intensive Wheat Management Comparison

Cooperator: OSU South Central Research Station Previous crop: Wheat hay
 Planting date: 10/02/2014 Harvest date: 06/05/2015 Management: Grain only
 All plots had 121 lb/ac N available at planting + 20 lb/ac N at greenup. Intensive Wheat Management (IWM) plots received 40 lb/ac additional N at jointing, 4 oz/ac Tilt at jointing and 9 oz/ac Twinline at heading

Source	Variety	Grain Yield			Test Weight		
		Standard	IWM	Diff.	Standard	IWM	Diff.
		-----bu/ac-----			-----lb/bu-----		
AGSECO	Hot Rod	66	81	15	55.8	57.1	1.3
WestBred	WB-Cedar	66	80	14	55.8	57.8	2.0
WestBred	WB4458	63	80	16	56.9	58.4	1.5
Syngenta	SY Flint	61	76	15	57.0	57.7	0.7
OGI	Billings	59	78	19	56.1	58.8	2.7
Syngenta	SY Monument	59	74	15	54.0	53.6	-0.4
LCS	T153	58	78	20	54.6	57.3	2.8
OGI	Gallagher	58	75	17	55.7	58.0	2.3
Syngenta	SY Llano	58	70	12	58.9	60.1	1.2
LCS	T154	56	76	19	55.7	57.3	1.6
WestBred	WB-Grainfield	54	74	19	51.4	55.8	4.4
Watley	TAM 204	53	69	16	50.1	51.7	1.6
Syngenta	SY Southwind	53	69	16	51.4	57.6	6.3
KWA	1863	53	79	27	53.6	57.5	3.9
TAMU	TAM 114	53	79	26	54.2	54.8	0.6
KWA	Oakley CL	52	68	16	53.6	56.1	2.5
OSU	Deliver	52	64	12	53.9	55.0	1.1
Syngenta	Greer	50	80	30	52.6	58.8	6.2
OGI	Iba	48	73	25	54.1	56.8	2.7
WestBred	Winterhawk	48	65	17	53.5	57.8	4.3
OGI	Centerfield	47	59	11	51.7	55.0	3.3
LCS	T158	47	79	32	51.7	58.8	7.1
Syngenta	SY Drifter	47	64	17	56.9	58.3	1.4
KWA	KanMark	46	73	26	51.9	58.5	6.6
OGI	NF101	45	62	17	56.8	57.4	0.6
Syngenta	Jackpot	44	77	33	54.8	58.4	3.6
OGI	Duster	42	59	17	50.6	53.1	2.5
OGI	Doublestop CL Plus	41	60	19	53.7	52.0	-1.7
PlainsGold	Brawl CL Plus	40	71	31	50.8	58.8	8.0
OSU	Endurance	37	64	26	48.9	54.4	5.6
AGSECO	TAM 113	37	52	15	49.9	53.7	3.8
OGI	OK Rising	37	68	31	47.2	52.3	5.1
WestBred	WB-Redhawk	34	76	41	48.0	55.9	7.9
LCS	LCS Pistol	34	65	31	51.1	51.7	0.6
LCS	LCS Wizard	32	67	36	50.6	55.0	4.4
KWA	Everest	31	76	45	48.0	60.0	12.1
LCS	LCS Mint	28	69	41	47.5	52.8	5.2
OGI	Ruby Lee	25	64	39	44.7	53.9	9.2
Watley	TAM 112	23	59	36	43.1	51.5	8.4
OGI	Garrison	20	60	40	-	51.4	-
PlainsGold	Byrd	17	58	42	-	50.9	-
OGI	Pete	10	78	68	-	59.7	-
Experimentals							
	LCH13DH-20-87	60	75	15	50.5	52.1	1.6
	OK13625	57	72	15	59.9	57.7	-
	LCH13DH-14-91	50	76	26	55.8	59.5	3.7
	OK11D25056	50	67	17	54.2	56.6	2.5
	OK10126	49	76	27	54.8	57.9	3.1
	OK1059060-2C14	44	75	31	53.4	58.1	4.7
	OK09125	39	74	35	48.8	55.4	6.6
	CO11D174	19	56	38	-	49.9	-
	Mean	45	70	25	52.7	56.0	3.3
	LSD _(0.05)	6	8	15	4.1	2.9	3.2

Notes: Grain yields adjusted to 12% moisture. Severe stripe rust pressure throughout grainfill. LSD values under "Diff." column can be used to compare any two numbers across columns.

Goodwell Irrigated Regional Wheat Variety Trial

Cooperator: OK Panhandle Research & Extension Center	Tillage: Conventional till
Soil type: Richfield clay loam	Management: Grain only
Planting date: 10/06/2014	Total irrigation: 9.6 in
Harvest date: 06/30/2015	Previous crop: Wheat/Fallow
	Soil test: pH = 7.5, P = 33, K = 1130

Source	Variety	Lodging 0 - 10	Grain Yield			Test Weight
			2014-15	2-Year	3-Year	2014-15
			-----bu/ac-----			--lb/bu--
WestBred	WB4458	2	94	79	68	58.9
AGSECO	Hot Rod	7	92	-	-	59.9
LCS	T153	4	89	78	64	61.3
Watley	TAM 204	6	84	-	-	58.2
LCS	T154	7	81	72	61	61.9
OGI	Gallagher	9	80	70	62	58.0
WestBred	WB-Grainfield	0	80	71	66	57.8
KWA	Oakley CL	5	80	-	-	60.7
Syngenta	SY Flint	3	79	-	-	59.0
Syngenta	SY Monument	4	78	-	-	64.0
KWA	1863	2	76	-	-	59.5
Syngenta	SY Drifter	4	70	-	-	58.9
KWA	Everest	4	70	65	57	57.9
KWA	KanMark	6	69	-	-	56.9
LCS	LCS Pistol	0	68	71	-	55.2
Syngenta	SY Southwind	0	67	-	-	55.5
OGI	Iba	10	67	71	65	56.4
LCS	T158	5	66	70	61	53.9
OGI	Billings	5	66	66	57	57.6
OGI	Centerfield	4	66	63	-	56.0
PlainsGold	Brawl CL Plus	4	66	71	63	56.0
WestBred	Winterhawk	5	64	67	63	55.7
WestBred	WB-Cedar	3	64	65	55	61.3
Syngenta	Jackpot	7	63	59	54	57.7
OGI	Doublestop CL Plus	1	62	61	55	57.9
OGI	OK Rising	4	61	-	-	55.2
OGI	Duster	8	60	64	58	60.7
TAMU	TAM 114	5	56	-	-	54.7
WestBred	WB-Redhawk	1	55	50	46	54.6
OSU	Deliver	2	54	59	53	58.6
OSU	Endurance	1	53	56	53	56.5
LCS	LCS Wizard	7	53	58	57	51.8
OGI	NF101	2	52	-	-	56.5
Syngenta	Greer	4	51	55	51	54.9
OGI	Ruby Lee	6	50	54	51	52.9
AGSECO	TAM 113	9	42	53	51	56.0
LCS	LCS Mint	7	40	49	51	47.3
OGI	Garrison	7	39	50	49	54.8
OGI	Pete	3	39	52	46	52.7
PlainsGold	Byrd	7	37	49	49	54.0
Watley	TAM 112	0	34	53	-	50.5
Experimentals						
	LCH13DH-14-91	3	82	-	-	60.6
	OK1059060-2C14	2	82	-	-	59.9
	OK12621	6	72	-	-	57.5
	OK11D25056	2	71	-	-	59.8
	OK10126	7	70	71	-	59.1
	OK08707W-19C13	0	67	66	-	55.3
	LCH13DH-20-87	5	66	-	-	55.0
	CO11D174	3	36	-	-	51.2
	OK0986130-7C13	1	32	-	-	57.0
	Mean	4	64	63	63	56.9
	LSD _(0.05)		13	8	6	6.9

Notes: Grain yields adjusted to 12% moisture. Lodging on a 0 - 10 scale with 0 indicating no lodging. Moderate stripe rust pressure throughout grainfill.

Homestead Wheat Variety Trial

Cooperator: Brook Strader
Soil type: Canadian fine sandy loam
Planting date: 10/17/2014
Harvest date: 06/20/2015

Tillage: No-till
Management: Grain only
Previous crop: Wheat
Soil test: pH = 6.0, P = 38, K = 270

Source	Variety	Grain Yield			Test Weight
		2014-15	2-Year	3-Year	2014-15
		-----bu/ac-----			----lb/bu----
OGI	Doublestop CL Plus	30	29	40	53.4
WestBred	WB-Redhawk	30	-	-	56.6
Syngenta	SY Southwind	30	-	-	51.1
LCS	LCS Mint	30	31	-	47.5
WestBred	WB4458	29	30	-	53.0
OGI	Ruby Lee	28	28	38	53.2
WestBred	WB-Cedar	27	28	32	50.8
Syngenta	Jackpot	27	26	36	48.4
Syngenta	Greer	27	25	36	47.8
OGI	Iba	27	27	38	51.8
KWA	Everest	27	26	37	51.4
OGI	Garrison	26	23	36	50.4
OGI	Billings	26	24	34	47.5
OSU	Endurance	26	25	34	49.5
PlainsGold	Brawl CL Plus	26	27	-	49.2
PlainsGold	Byrd	25	27	-	52.4
LCS	LCS Wizard	25	24	-	52.4
OGI	Gallagher	24	25	36	45.5
LCS	LCS Pistol	23	-	-	46.3
OGI	Duster	21	22	32	43.6
Experimentals					
	OK09125	32	31	41	53.1
	OK11D25056	25	-	-	52.0
	OK13625	24	-	-	48.0
	OK10728W	24	26	-	52.4
Mean		27	27	36	50.3
LSD _(0.05)		6	4	3	NS

Notes: Severe drought stress from planting through jointing. Heavy stripe rust pressure during grain fill.

Hooker Wheat Variety Trial

Cooperator: Dan and Earnest Herald
Soil type: Dalhart fine sandy loam
Planting date: 09/25/2014
Harvest date: 06/30/2015

Tillage: No-till
Management: Grain only
Previous crop: Wheat/fallow

Source	Variety	Grain Yield			Test Weight
		2014-15	2-Year	3-Year	2014-15
		-----bu/ac-----			--lb/bu--
KWA	KanMark	63	-	-	53.1
WestBred	Winterhawk	61	49	44	51.8
AGSECO	TAM 113	61	52	44	52.1
Watley	TAM 204	60	-	-	50.2
PlainsGold	Byrd	59	49	-	53.6
OGI	Garrison	59	47	42	50.7
PlainsGold	Brawl CL Plus	58	48	-	54.5
LCS	LCS Mint	54	48	-	50.5
OGI	Doublestop CL Plus	54	44	-	53.5
OSU	Endurance	53	45	41	53.3
OGI	Duster	52	47	42	53.1
Syngenta	Greer	52	41	37	49.8
WestBred	WB-Grainfield	52	47	-	53.9
WestBred	WB4458	51	48	-	50.0
OGI	Iba	50	47	42	53.4
LCS	T158	48	44	40	52.4
Syngenta	Jackpot	48	43	37	51.1
OGI	Gallagher	45	36	31	47.9
Watley	TAM 112	45	40	-	52.9
OGI	Ruby Lee	43	40	35	51.5
TAMU	TAM 114	42	-	-	52.1
LCS	LCS Pistol	39	-	-	49.4
Experimentals					
	OK08707W-19C13	49	-	-	49.0
	OK11D25056	46	-	-	51.7
	OK0986130-7C13	45	-	-	49.2
	OK1059060-2C14	43	-	-	48.4
	OK12621	40	-	-	49.6
Mean		51	45	40	51.4
LSD _(0.05)		12	7	5	1.7

Notes: Moderate wheat streak mosaic injury. Slight to moderate stripe rust pressure throughout grainfill. Severe drought from planting until jointing. Grain yields adjusted to 12% moisture.

Keyes Wheat Variety Trial

Cooperator: J.B. Stewart

Tillage: No-till

Soil type: Richfield clay loam

Management: Grain only

Planting date: 09/25/2014

Previous crop: Wheat/fallow

Harvest date: 06/30/2015

Source	Variety	Grain Yield	Test Weight
		2014-15	2014-15
		--bu/ac--	----lb/bu----
WestBred	WB-Grainfield	103	67.3
LCS	T158	102	67.1
Syngenta	Jackpot	93	65.3
WestBred	Winterhawk	88	65.5
OGI	Iba	87	66.4
PlainsGold	Byrd	86	64.0
Syngenta	Greer	86	64.8
KWA	KanMark	83	64.6
OGI	Doublestop CL Plus	82	64.1
OGI	Duster	81	65.3
LCS	LCS Mint	80	64.3
AGSECO	TAM 113	80	63.6
PlainsGold	Brawl CL Plus	78	63.6
Watley	TAM 204	78	62.8
Watley	TAM 112	74	66.3
OGI	Garrison	73	62.3
OGI	Gallagher	71	62.5
OGI	Ruby Lee	71	64.5
TAMU	TAM 114	67	64.8
LCS	LCS Pistol	67	65.5
WestBred	WB4458	62	59.4
OSU	Endurance	58	61.8
	Experimentals		
	OK08707W-19C13	80	64.6
	OK0986130-7C13	68	60.4
	Mean	79	64.2
	LSD _(0.05)	21	2.9

Notes: Grain yields adjusted to 12% moisture. Severe drought from sowing until jointing. Light stripe rust pressure throughout grainfill.

Kildare Wheat Variety Trial

Cooperator: Don Schieber
Soil type: Tabler silt loam
Planting date: 10/20/2014
Harvest date: 06/21/2015

Tillage: No-till
Management: Grain only
Previous crop: Wheat
Soil test: pH = 6.3, P = 104, K = 371

Source	Variety	Lodging 0 - 10	Grain Yield			Test Weight
			2014-15	2-Year	3-Year	2014-15
			-----bu/ac-----			---lb/bu---
Syngenta	Greer	2	50	58	57	52.5
WestBred	WB4458	2	50	-	-	52.9
OGI	Doublestop CL Plus	3	46	51	-	40.5
PlainsGold	Brawl CL Plus	2	45	-	-	50.5
LCS	LCS Mint	5	45	-	-	53.9
OGI	Iba	4	45	45	51	53.9
KWA	Everest	4	44	51	54	52.4
OGI	Gallagher	2	42	44	47	53.0
OGI	Duster	3	40	37	40	49.3
WestBred	WB-Redhawk	2	40	52	-	49.1
LCS	LCS Pistol	2	40	-	-	47.4
OSU	Endurance	2	39	41	43	47.6
Syngenta	SY Southwind	4	39	-	-	47.9
LCS	LCS Wizard	2	39	-	-	51.6
OGI	Ruby Lee	2	38	49	53	52.0
WestBred	WB-Cedar	2	38	47	51	48.8
Syngenta	Jackpot	6	36	48	49	49.7
OGI	Garrison	4	33	44	49	48.0
PlainsGold	Byrd	3	33	-	-	42.8
OGI	Billings	3	31	38	43	48.8
Experimentals						
	OK09125	4	53	58	-	53.8
	OK1059060-2C14	3	53	-	-	54.0
	OK10728W	3	50	-	-	51.8
	OK11755W	2	44	-	-	49.3
	OK11D25056	4	42	-	-	52.6
	OK13625	3	37	-	-	52.1
<hr/>						
	Mean	3	42	47	49	50.2
	LSD _(0.05)		8	6	4	8.5

Notes: Lodging on a 0 - 10 scale with 0 indicating no lodging. Severe stripe rust pressure throughout grainfill.

Kingfisher Wheat Variety Trial

Cooperator: Rodney Mueggenborg

Soil type: Tillman silt loam

Planting date: 10/08/2014

Harvest date: 06/09/2015

Tillage: Conventional till

Management: Grain only

Previous crop: Wheat

Soil test: pH = 6.0, P = 35, K = 369

Source	Variety	Grain Yield			Test Weight
		2014-15	2-Year	3-Year	2014-15
		-----bu/ac-----			-----lb/bu-----
WestBred	WB-Redhawk	62	-	-	56.2
WestBred	WB4458	62	45	-	58.9
LCS	T154	61	-	-	59.2
Syngenta	Greer	59	51	49	57.7
PlainsGold	Byrd	59	52	-	57.5
Syngenta	Jackpot	59	48	46	57.7
LCS	LCS Pistol	59	-	-	58.9
OGI	Duster	57	53	50	59.7
OGI	Doublestop CL Plus	57	47	44	60.7
OGI	Gallagher	56	46	44	60.3
OGI	Iba	55	49	48	60.2
WestBred	WB-Cedar	55	43	41	58.5
OSU	Endurance	54	46	44	58.4
OGI	Ruby Lee	54	45	43	58.6
KWA	Everest	54	46	42	60.5
OGI	Billings	54	41	40	59.5
LCS	LCS Wizard	51	38	-	59.4
PlainsGold	Brawl CL Plus	50	40	-	58.9
Syngenta	SY Llano	50	-	-	61.0
OGI	Garrison	44	39	39	57.4
Experimentals					
	OK1059060-2C14	61	-	-	59.8
	OK09125	60	49	49	58.1
	OK11D25056	57	-	-	60.1
Mean		56	46	45	59.0
LSD _(0.05)		8	6	4	1.2

Notes: Grain yields adjusted to 12% moisture. Severe drought from planting until jointing. Heavy stripe rust pressure throughout grainfill.

Lahoma Regional Wheat Variety Trial

Cooperator: North Central Research Station	Tillage: Conventional till
Soil type: Pond Creek silt loam	Management: Grain only
Planting date: 10/20/2014	Previous crop: Wheat
Harvest date: 06/19/2015	Soil test: pH = 5.5, P = 36, K = 338

Source	Variety	Lodging 0 - 10	Grain Yield			Test Weight
			2014-15	2-Year	3-Year	2014-15
			-----bu/ac-----			-----lb/bu-----
Syngenta	SY Monument	1	64	-	-	54.4
WestBred	WB-Grainfield	1	64	53	57	55.8
TAMU	TAM 114	4	64	-	-	57.9
OGI	Gallagher	3	62	58	61	56.6
KWA	1863	4	62	-	-	55.3
WestBred	WB-Cedar	1	61	57	59	56.7
AGSECO	Hot Rod	1	61	-	-	54.6
LCS	T153	0	59	57	57	56.5
KWA	Oakley CL	2	58	-	-	56.2
WestBred	WB4458	0	58	56	58	55.4
OGI	NF101	3	57	-	-	55.2
OGI	Billings	2	56	50	52	56.3
Syngenta	SY Southwind	3	56	49	-	54.2
OGI	Iba	1	56	50	53	56.0
Syngenta	SY Flint	2	55	-	-	50.8
Watley	TAM 204	1	53	-	-	49.1
OSU	Deliver	3	53	53	53	56.4
OGI	Doublestop CL Plus	3	53	48	52	53.7
LCS	T154	1	53	49	54	55.3
Syngenta	SY Llano	1	52	52	-	58.1
PlainsGold	Brawl CL Plus	0	52	47	52	53.8
Syngenta	Jackpot	1	50	47	52	54.3
OSU	Endurance	2	50	46	51	54.8
LCS	T158	2	50	49	54	53.6
Syngenta	Greer	2	49	49	54	48.3
WestBred	Winterhawk	2	47	50	53	51.4
Syngenta	SY Drifter	2	47	-	-	52.5
OGI	Ruby Lee	3	47	48	54	50.9
LCS	LCS Pistol	3	47	48	-	52.6
LCS	LCS Mint	2	47	44	50	49.9
WestBred	WB-Redhawk	2	46	47	51	51.2
OGI	OK Rising	2	46	-	-	52.0
KWA	KanMark	1	45	-	-	53.4
OGI	Duster	5	45	46	49	52.5
KWA	Everest	4	43	42	48	55.0
AGSECO	TAM 113	3	42	42	47	47.8
OGI	Centerfield	1	42	43	48	49.6
OGI	Pete	1	35	38	42	53.4
Watley	TAM 112	6	35	41	-	48.4
LCS	LCS Wizard	0	34	41	47	49.1
OGI	Garrison	5	34	40	44	49.3
PlainsGold	Byrd	3	32	41	48	46.9
Experimentals						
	LCH13DH-20-87	1	67	-	-	53.5
	OK09125	1	56	54	59	53.5
	OK13625	1	54	-	-	59.2
	LCH13DH-14-91	2	54	-	-	56.8
	OK11D25056	1	54	-	-	55.7
	OK10728W	1	53	51	-	53.1
	OK1059060-2C14	2	51	-	-	53.9
	OK10126	1	51	50	-	53.7
	OK11755W	1	48	-	-	52.9
	OK11231	0	46	-	-	53.1
	OK12621	2	41	-	-	47.7
	CO11D174	5	24	-	-	43.0
	Mean	2	50	48	52	53.2
	LSD _(0.05)		7	5	4	4.8

Notes: Grain yields adjusted to 12% moisture. Lodging on a 0 - 10 scale with 0 indicating no lodging. Severe stripe rust pressure throughout grainfill.

Lahoma Regional Wheat Variety Trial - Fungicide Treated

Cooperator: North Central Research Station

Tillage: Conventional till

Soil type: Pond Creek silt loam

Management: Grain only

Planting date: 10/20/2014

Previous crop: Wheat

Harvest date: 06/19/2015

Soil test: pH = 5.5, P = 36, K = 338

Fungicide = 12 oz/A Quilt Xcel+ 1% v/v COC on 15 April 2015

Source	Variety	Grain Yield			Test Weight
		2014-15	2-Year	3-Year	2014-15
		-----bu/ac-----			----lb/bu----
WestBred	WB-Grainfield	78	60	63	57.2
KWA	1863	78	-	-	57.1
Watley	TAM 204	78	-	-	54.7
KWA	Everest	74	59	62	56.8
Syngenta	SY Monument	73	-	-	55.7
TAMU	TAM 114	72	-	-	57.2
LCS	T153	72	61	63	57.1
OGI	Gallagher	72	60	65	58.1
Syngenta	Greer	71	60	64	54.3
KWA	Oakley CL	71	-	-	56.9
WestBred	WB4458	70	62	63	58.1
AGSECO	Hot Rod	70	-	-	56.0
PlainsGold	Byrd	70	61	66	54.9
PlainsGold	Brawl CL Plus	69	55	59	56.7
Syngenta	SY Flint	69	-	-	55.6
OGI	NF101	69	-	-	56.0
WestBred	WB-Cedar	68	56	62	56.2
OSU	Endurance	68	53	57	54.2
OGI	Iba	67	55	59	57.3
LCS	LCS Mint	67	53	59	53.3
Syngenta	Jackpot	66	55	61	56.8
OGI	Doublestop CL Plus	66	53	57	57.4
Syngenta	SY Southwind	65	54	-	55.7
LCS	LCS Pistol	65	54	-	54.5
WestBred	WB-Redhawk	65	53	57	55.6
KWA	KanMark	65	-	-	56.3
OGI	OK Rising	65	-	-	55.3
Syngentat	SY Drifter	64	-	-	57.2
OGI	Billings	64	53	56	57.8
Syngenta	SY Llano	64	57	-	57.4
OGI	Ruby Lee	64	56	63	54.5
WestBred	Winterhawk	64	55	59	55.2
OGI	Garrison	63	52	57	54.0
OSU	Deliver	62	53	55	56.8
Watley	TAM 112	62	53	-	54.5
LCS	T158	61	55	59	57.8
LCS	T154	60	53	59	55.5
OGI	Pete	59	49	53	55.7
OGI	Duster	59	52	56	53.8
LCS	LCS Wizard	59	52	58	56.1
OGI	Centerfield	54	49	54	52.6
AGSECO	TAM 113	54	45	52	49.5
Experimentals					
	LCH13DH-20-87	73	-	-	54.5
	OK09125	72	60	64	54.7
	OK1059060-2C14	70	-	-	55.9
	OK10126	70	60	-	58.2
	OK11D25056	65	-	-	57.7
	OK11755W	64	-	-	55.0
	OK10728W	64	57	-	55.6
	LCH13DH-14-91	63	-	-	58.7
	CO11D174	62	-	-	52.8
	OK11231	61	-	-	56.3
	OK13625	60	-	-	57.4
	OK12621	59	-	-	55.8
Mean		66	55	59	55.8
LSD _(0.05)		7	5	4	1.8

Notes: Grain yields adjusted to 12% moisture. Severe stripe rust pressure throughout grainfill.

Lahoma - Fungicide vs No Fungicide Comparison

Cooperator: North Central Research Station		Tillage: Conventional till			Previous crop: Wheat		
Soil test: pH = 5.5, P = 36, K = 338		Planting: 10/20/2014			Harvest: 06/19/2015		
Fungicide = 12 oz/A Quilt Xcel+ 1% v/v COC on 15 April 2015							
Source	Variety	Grain Yield			Test Weight		
		Standard	Fungicide	Diff.	Standard	Fungicide	Diff.
		-----bu/ac-----			-----lb/bu-----		
Syngenta	SY Monument	64	73	9	54.4	55.7	1
WestBred	WB-Grainfield	64	78	14	55.8	57.2	1
TAMU	TAM 114	64	72	9	57.9	57.2	-1
KWA	1863	62	78	15	55.3	57.1	2
OGI	Gallagher	62	72	9	56.6	58.1	2
WestBred	WB-Cedar	61	68	7	56.7	56.2	-1
AGSECO	Hot Rod	61	70	9	54.6	56.0	1
LCS	T153	59	72	13	56.5	57.1	1
KWA	Oakley CL	58	71	12	56.2	56.9	1
WestBred	WB4458	58	70	13	55.4	58.1	3
OGI	NF101	57	69	12	55.2	56.0	1
OGI	Billings	56	64	8	56.3	57.8	1
Syngenta	SY Southwind	56	65	9	54.2	55.7	1
OGI	Iba	56	67	11	56.0	57.3	1
Syngenta	SY Flint	55	69	15	50.8	55.6	5
Watley	TAM 204	53	78	24	49.1	54.7	6
OSU	Deliver	53	62	9	56.4	56.8	0
OGI	Doublestop CL Plus	53	66	13	53.7	57.4	4
LCS	T154	53	60	7	55.3	55.5	0
Syngenta	SY Llano	52	64	12	58.1	57.4	-1
PlainsGold	Brawl CL Plus	52	69	18	53.8	56.7	3
Syngenta	Jackpot	50	66	16	54.3	56.8	3
OSU	Endurance	50	68	18	54.8	54.2	-1
LCS	T158	50	61	11	53.6	57.8	4
Syngenta	Greer	49	71	23	48.3	54.3	6
WestBred	Winterhawk	47	64	16	51.4	55.2	4
Syngenta	SY Drifter	47	64	17	52.5	57.2	5
OGI	Ruby Lee	47	64	17	50.9	54.5	4
LCS	LCS Pistol	47	65	18	52.6	54.5	2
LCS	LCS Mint	47	67	20	49.9	53.3	3
WestBred	WB-Redhawk	46	65	19	51.2	55.6	4
OGI	OK Rising	46	65	19	52.0	55.3	3
KWA	KanMark	45	65	20	53.4	56.3	3
OGI	Duster	45	59	15	52.5	53.8	1
KWA	Everest	43	74	31	55.0	56.8	2
AGSECO	TAM 113	42	54	12	47.8	49.5	2
OGI	Centerfield	42	54	13	49.6	52.6	3
OGI	Pete	35	59	24	53.4	55.7	2
Watley	TAM 112	35	62	27	48.4	54.5	6
LCS	LCS Wizard	34	59	25	49.1	56.1	7
OGI	Garrison	34	63	30	49.3	54.0	5
PlainsGold	Byrd	32	70	38	46.9	54.9	8
Experimentals							
	LCH13DH-20-87	67	73	6	53.5	54.5	1
	OK09125	56	72	16	53.5	54.7	1
	OK13625	54	60	6	59.2	57.4	-2
	LCH13DH-14-91	54	63	10	56.8	58.7	2
	OK11D25056	54	65	12	55.7	57.7	2
	OK10728W	53	64	11	53.1	55.6	3
	OK1059060-2C14	51	70	19	53.9	55.9	2
	OK10126	51	70	19	53.7	58.2	4
	OK11755W	48	64	16	52.9	55.0	2
	OK11231	46	61	15	53.1	56.3	3
	OK12621	41	59	18	47.7	55.8	8
	CO11D174	24	62	38	43.0	52.8	10
Mean		50	66	16	53.2	55.8	2.7
LSD _(0.05)		7	7	6	4.8	1.8	2.6

Notes: Grain yields adjusted to 12% moisture. Severe stripe rust pressure throughout grainfill.

Marshall Dual Purpose Wheat Variety Trial

Cooperator: Fuxa Farms

Tillage: Conventional till

Soil type: Kirkland silt loam

Management: Dual purpose

Planting date: 09/12/2014

Previous crop: Wheat

Harvest date: 06/07/2015

Soil test: pH = 6.0, P = 53, K = 363

Source	Variety	Grain Yield			Test Weight
		2014-15	2-Year	3-Year	2014-15
		-----bu/ac-----			----lb/bu----
WestBred	WB-Cedar	46	31	36	- 58.3
Syngenta	SY Southwind	44	-	-	- 58.0
OGI	Duster	43	32	37	- 57.5
OGI	Gallagher	41	28	33	- 58.2
OGI	Doublestop CL Plus	38	29	36	- 58.4
OSU	Endurance	38	28	35	- 55.6
OGI	Iba	37	30	37	- 58.5
KWA	Everest	36	27	34	- 59.9
WestBred	WB-Redhawk	36	-	-	- 57.3
LCS	LCS Pistol	35	-	-	- 56.9
WestBred	WB4458	35	25	-	- 58.7
PlainsGold	Brawl CL Plus	35	28	-	- 54.1
OGI	Ruby Lee	34	26	34	- 54.5
Syngenta	Greer	33	25	33	- 54.1
PlainsGold	Byrd	31	26	-	- 54.4
Syngenta	Jackpot	30	24	32	- 56.3
OGI	Billings	29	20	26	- 57.0
LCS	LCS Mint	27	22	-	- 55.4
LCS	LCS Wizard	26	21	-	- 56.0
OGI	Garrison	19	18	27	- 64.0
Experimentals					
	OK09125	35	29	34	53.3
	OK11231	33	-	-	56.4
Mean		35	26	33	56.9
LSD_(0.05)		6	4	3	3.3

Notes: Cattle were removed when Duster reached first hollow stem. Severe drought stress from planting through jointing. Heavy stripe rust pressure during grain fill.

Marshall Grain-Only Wheat Variety Trial

Cooperator: Fuxa Farms
Soil type: Kirkland silt loam
Planting date: 10/24/2014
Harvest date: 06/07/2015

Tillage: Conventional till
Management: Dual purpose
Previous crop: Wheat
Soil test: pH = 6.0, P = 53, K = 363

Source	Variety	Grain Yield			Test Weight
		2014-15	2-Year	3-Year	2014-15
		-----bu/ac-----			-----lb/bu-----
WestBred	WB-Cedar	53	37	42	58.1
WestBred	WB4458	47	34	-	56.3
PlainsGold	Brawl CL Plus	45	35	-	57.0
OGI	Iba	44	32	41	56.3
OGI	Gallagher	43	30	38	53.9
KWA	Everest	42	32	40	56.7
Syngenta	SY Southwind	42	-	-	53.6
OGI	Billings	41	29	36	57.2
Syngenta	Greer	39	32	39	51.6
LCS	LCS Pistol	37	-	-	53.5
OGI	Doublestop CL Plus	36	28	36	55.9
OGI	Duster	34	31	36	51.4
WestBred	WB-Redhawk	34	-	-	50.9
OGI	Ruby Lee	34	28	36	55.2
Syngenta	Jackpot	33	27	34	53.8
OSU	Endurance	32	27	37	48.4
LCS	LCS Mint	28	25	-	52.2
LCS	LCS Wizard	27	25	-	49.8
OGI	Garrison	22	22	32	50.4
PlainsGold	Byrd	20	22	-	57.1
Experimentals					
	OK09125	41	31	40	50.2
	OK13625	40	-	-	57.3
Mean		37	29	37	53.9
LSD_(0.05)		6	4	3	3.3

Notes: Severe drought stress from planting through jointing. Heavy stripe rust pressure during grain fill.

Marshall Grain Only and Dual Purpose Wheat Variety Trials

Cooperator: Fuxa Farms

Tillage: Conventional Till

Previous crop: Wheat

Soil type: Kirkland silt loam

Soil test: pH = 6.0, P = 53, K = 363

Planting date: 09/12/2014 (Dual Purpose) & 10/24/2014 (Grain Only)

Harvest date: 06/07/2015

Source	Variety	Grain Yield									Test Weight		
		2014-15			2-Year			3-Year			2014-15		
		Grain Only	Grazed	<i>Grazing penalty</i>	Grain Only	Grazed	<i>Grazing penalty</i>	Grain Only	Grazed	<i>Grazing penalty</i>	Grain Only	Grazed	<i>Grazing penalty</i>
		-----bu/ac-----									-----lb/bu-----		
WestBred	WB-Cedar	53	46	6	37	31	6	42	36	6	58.1	58.3	0
Syngenta	SY Southwind	42	44	-3	-	-	-	-	-	-	53.6	58.0	-4
OGI	Duster	34	43	-8	31	32	-1	36	37	-1	51.4	57.5	-6
OGI	Gallagher	43	41	2	30	28	3	38	33	5	53.9	58.2	-4
OGI	Doublestop CL Plus	36	38	-3	28	29	-1	36	36	-1	55.9	58.4	-2
OSU	Endurance	32	38	-6	27	28	-1	37	35	2	48.4	55.6	-7
OGI	Iba	44	37	7	32	30	3	41	37	4	56.3	58.5	-2
KWA	Everest	42	36	6	32	27	5	40	34	6	56.7	59.9	-3
WestBred	WB-Redhawk	34	36	-2	-	-	-	-	-	-	50.9	57.3	-6
LCS	LCS Pistol	37	35	2	-	-	-	-	-	-	53.5	56.9	-3
WestBred	WB4458	47	35	13	34	25	9	-	-	-	56.3	58.7	-2
PlainsGold	Brawl CL Plus	45	35	10	35	28	7	-	-	-	57.0	54.1	3
OGI	Ruby Lee	34	34	0	28	26	2	36	34	2	55.2	54.5	1
Syngenta	Greer	39	33	6	32	25	7	39	33	7	51.6	54.1	-2
PlainsGold	Byrd	20	31	-11	22	26	-4	-	-	-	57.1	54.4	3
Syngenta	Jackpot	33	30	4	27	24	3	34	32	2	53.8	56.3	-3
OGI	Billings	41	29	12	29	20	9	36	26	10	57.2	57.0	0
LCS	LCS Mint	28	27	1	25	22	3	-	-	-	52.2	55.4	-3
LCS	LCS Wizard	27	26	1	25	21	4	-	-	-	49.8	56.0	-6
OGI	Garrison	22	19	3	22	18	3	32	27	5	50.4	64.0	-14
	Experimentals												
	OK09125	41	35	6	31	29	2	40	34	6	50.2	53.3	-3
	OK11231	40	33	7	-	-	-	-	-	-	57.3	56.4	1
	Mean	37	35	2	29	26	3	37	33	4	53.9	56.9	-3
	LSD _(0.05)		6			4			3			3.3	

Notes: Cattle were removed when Duster reached first hollow stem. Severe drought stress from planting through jointing. Heavy stripe rust pressure during grain fill.

McCloud Wheat Variety Trial

Cooperator: Gerod McKinley

Soil type: Keokuk silt loam

Planting date: 10/24/2014

Harvest date: 07/01/2015

Tillage: Conventional till

Management: Grain only

Previous crop: Corn

Soil test: pH = 5.9, P = 51, K = 191

Source	Variety	Lodging 0 - 10	Grain Yield			Test Weight
			2014-15	2-Year	3-Year	2014-15
			-----bu/ac-----			--lb/bu--
WestBred	WB4458	4	67	50		52.9
Syngenta	Jackpot	7	66	47	52	55.9
LCS	LCS Wizard	3	65	50		56.6
Syngenta	SY Llano	9	61			60.1
OGI	Garrison	8	60	48	52	53.7
KWA	Everest	8	60	46	51	60.0
WestBred	WB-Redhawk	7	60			52.1
Syngenta	Greer	9	59	45	46	53.1
OGI	Doublestop CL Plus	4	58	44	49	56.3
LCS	T154	7	58			52.1
WestBred	WB-Cedar	7	58	47	49	50.4
PlainsGold	Brawl CL Plus	8	57	46		57.2
OGI	Billings	7	55	43	47	50.2
OSU	Endurance	6	54	43	49	51.1
OGI	Iba	5	53	43	48	52.9
PlainsGold	Byrd	8	53	43		51.8
OGI	Ruby Lee	6	51	44	46	51.8
LCS	LCS Pistol	7	51			52.3
OGI	Gallagher	6	45	39	44	45.4
OGI	Duster	8	31	30	39	48.5
	Experimentals					
	OK09125	6	58			50.6
	OK10126	5	55	42		51.3
	OK13625	9	52			55.5
	Mean		56	44	48	53.1
	LSD _(0.05)		9	5	4.9	6.3

Notes: Grain yields adjusted to 12% moisture. Lodging on a 0 - 10 scale with 0 indicating no lodging. Severe stripe rust pressure throughout grainfill.

Thomas Wheat Variety Trial

Cooperator: Brownie Browne	Tillage: Conventional till
Soil type: Pond Creek silt loam	Management: Grain only
Planting date: 10/31/2014	Previous crop: Wheat
Harvest date: 06/10/2015	Soil test: pH = 5.9, P = 143, K = 515

Source	Variety	Grain Yield		
		2014-15	2-Year	3-Year
		-----bu/ac-----		
OGI	Gallagher	41	28	24
WestBred	WB4458	41	28	-
Watley	TAM 204	39	-	-
Syngenta	SY Llano	39	-	-
WestBred	WB-Cedar	38	26	23
Syngenta	Greer	37	24	20
OGI	Doublestop CL Plus	36	25	-
OGI	Billings	36	24	19
LCS	T154	34	-	-
Syngenta	Jackpot	32	25	22
OGI	Iba	30	20	17
LCS	LCS Pistol	27	-	-
PlainsGold	Brawl CL Plus	27	18	-
KWA	Everest	26	20	19
WestBred	WB-Redhawk	26	-	-
OGI	Duster	26	17	16
OSU	Endurance	23	16	16
LCS	LCS Wizard	23	19	-
OGI	Ruby Lee	21	18	17
PlainsGold	Byrd	16	13	-
OGI	Pete	15	-	-
OGI	Garrison	15	14	14
Experimentals				
	OK09125	42	30	25
	Mean	30	22	19
	LSD _(0.05)	7	3	2

Notes: Grain samples were too small to measure test weight. Soil crusting resulted in thin stand. Severe drought from planting until jointing. Severe stripe rust pressure throughout grainfill.

Union City Wheat Variety Trial

Cooperator: Bornemann Farms	Tillage: Conventional till
Soil type: Pond Creek silt loam	Management: Dual Purpose
Planting date: 09/23/2014	Previous crop: Canola
Harvest date: 06/08/2015	Soil test: pH = 6.1, P = 111, K = 320

Source	Variety	Grain Yield 2014-15 --bu/ac--	Test Weight 2014-15 --lb/bu--
WestBred	WB-Cedar	50	50.3
OGI	Gallagher	49	55.9
LCS	T154	46	52.9
Watley	TAM 204	46	49.9
WestBred	WB4458	45	54.7
OGI	Doublestop CL Plus	43	55.2
Syngenta	SY Llano	42	58.3
OGI	Iba	41	52.6
Syngenta	Greer	38	51.0
OGI	Billings	37	53.9
OGI	Duster	36	49.1
KWA	Everest	35	52.6
OGI	Ruby Lee	35	49.3
Syngenta	Jackpot	35	49.7
PlainsGold	Brawl CL Plus	34	50.4
LCS	LCS Pistol	34	45.5
OSU	Endurance	31	47.7
LCS	LCS Wizard	29	46.8
PlainsGold	Byrd	23	42.3
WestBred	WB-Redhawk	23	45.3
OGI	Garrison	15	-
OGI	Pete	14	46.6
Experimentals			
	OK09125	39	48.8
	Mean	36	50.4
	LSD _(0.05)	7	6.1

Notes: Plots were grazed from mid November through late February. Severe drought stress from planting through jointing. Heavy stripe rust pressure during grain fill. Garrison samples too small for test weight measurement

Walters Wheat Variety Trial

Cooperator: Kinder Farms

Tillage: No-till

Soil type: Tillman-Foard complex

Management: Dual Purpose

Planting date: 09/18/2014

Previous crop: Canola

Harvest date: 06/12/2015

Soil test: pH = 5.3, P = 51, K = 530

Source	Variety	Lodging	Grain Yield		Test Weight
			2014-15	2-Year	2014-15
		0 - 10	-----bu/ac-----		--lb/bu--
WestBred	Winterhawk	1	37	35	56.2
Syngenta	Greer	1	37	32	52.6
LCS	LCS Pistol	0	35	-	58.0
WestBred	WB-Grainfield	0	35	31	49.7
OGI	Doublestop CL Plus	1	34	31	55.0
OGI	Duster	2	34	34	50.4
OGI	Iba	1	32	32	56.9
KWA	Everest	0	29	31	59.1
OGI	Gallagher	1	28	31	54.8
Syngenta	SY Llano	1	27	-	59.8
Watley	TAM 204	0	27	-	48.8
OSU	Endurance	0	26	28	51.8
WestBred	WB4458	0	26	27	55.5
Syngenta	Jackpot	1	26	28	50.2
PlainsGold	Brawl CL Plus	0	25	27	42.9
LCS	T153	1	25	-	61.9
PlainsGold	Byrd	0	24	26	51.7
LCS	T154	0	23	-	51.2
OGI	Ruby Lee	1	22	30	52.6
OGI	Garrison	1	13	20	-
OGI	Pete	0	11	-	-
Experimentals					
	OK1059060-2C14	1	32	-	58.7
	OK11D25056	1	31	-	51.7
	OK11231	3	28	-	53.3
	OK09125	1	28	28	51.2
Mean		1	28	29	53.6
LSD _(0.05)			5	5	7.6

Notes: Grain yields adjusted to 12% moisture. Lodging on a 0 - 10 scale with 0 indicating no lodging. Severe stripe rust pressure throughout grainfill. Sample size was too small to measure test weight for some varieties.

2015 Oklahoma Wheat Variety Performance Tests -- Heading Date and Plant Height

					Chickasha Goodwell			
	Chickasha	Lahoma	Stillwater	Altus	Chickasha	IWM	Irrigated	Lahoma
	-----50% heading-----				-----plant height at harvest - inches-----			
1863	4/16	4/16	4/14	20	32	30	35	24
Billings	4/13	4/15	4/14	22	27	30	39	24
Brawl CL Plus	4/16	4/17	4/15	23	31	35	30	26
Byrd	4/16	4/17	4/15	24	32	31	21	30
Centerfield	4/16	4/17	4/16	20	30	37	35	24
Deliver	4/16	4/17	4/15	20	37	31	39	27
Doublestop CL Plus	4/17	4/17	4/16	26	34	26	39	29
Duster	4/16	4/16	4/16	23	29	27	28	22
Endurance	4/15	4/16	4/15	20	37	34	39	26
Everest	4/13	4/13	4/14	20	27	30	31	23
Gallagher	4/14	4/16	4/14	22	31	34	21	26
Garrison	4/13	4/16	4/15	22	29	28	31	24
Greer	4/16	4/17	4/14	20	31	35	31	28
Hot Rod	4/13	4/15	4/14	21	28	24	22	24
Iba	4/16	4/17	4/15	22	30	35	37	24
Jackpot	4/13	4/14	4/14	24	32	34	16	27
KanMark	4/13	4/16	4/14	17	28	29	22	22
LCS Mint	4/16	4/18	4/15	27	34	28	18	25
LCS Pistol	4/13	4/15	4/14	24	31	31	39	26
LCS Wizard	4/16	4/18	4/16	24	30	33	16	26
NF101	4/13	4/14	4/14	24	29	29	37	30
Oakley CL	4/17	4/18	4/17	24	31	32	28	23
OK Rising	4/13	4/16	4/14	22	38	24	37	30
Pete	4/13	4/14	4/14	19	28	35	39	26
Ruby Lee	4/13	4/15	4/14	24	34	33	31	29
SY Drifter	4/17	4/18	4/16	24	30	31	28	28
SY Flint	4/13	4/15	4/14	23	31	38	35	23
SY Llano	4/13	4/13	4/14	21	27	28	-	23
SY Monument	4/16	4/19	4/16	26	35	32	28	29
SY Southwind	4/16	4/17	4/15	20	28	32	37	22
T153	4/13	4/14	4/14	21	30	30	33	24
T154	4/13	4/15	4/14	19	28	30	24	26
T158	4/14	4/15	4/14	18	32	30	24	24
TAM 112	4/13	4/16	4/14	25	11	28	41	21
TAM 113	4/17	4/18	4/16	22	16	30	8	29
TAM 114	4/17	4/18	4/15	24	27	31	24	24
TAM 204	4/16	4/17	4/14	21	31	38	26	29
WB-Cedar	4/13	4/14	4/14	22	26	30	43	21
WB-Grainfield	4/17	4/18	4/15	24	35	37	39	23
WB-Redhawk	4/13	4/14	4/14	22	32	30	35	24
WB4458	4/13	4/15	4/14	23	33	35	37	28
Winterhawk	4/15	4/17	4/15	20	35	30	24	26
CO11D174	4/17	4/18	4/15	25	31	28	31	26
LCH13DH-20-87	4/21	4/20	4/16	28	35	36	20	31
LCH13DH-14-91	4/13	4/15	4/14	27	33	35	39	28
OK09125	4/16	4/17	4/14	24	35	32	-	25
OK1059060-2C14	4/16	4/16	4/14	21	31	31	37	23
OK10126	4/16	4/18	4/16	20	33	31	24	26
OK11D25056	4/16	4/17	4/14	20	24	37	39	27
OK11231	-	4/20	4/16	26	-	-	-	32
OK12621	-	4/19	4/14	-	-	-	26	27
OK13625	4/14	4/17	4/14	-	27	30	-	26
OK10728W	-	4/16	4/15	-	-	-	-	27
OK11755W	-	4/17	4/17	-	-	-	-	26
OK0986130-7C13	-	-	4/15	-	-	-	39	-
OK08P707W-19C13	-	-	4/14	-	-	-	39	-
Mean				22	30	31	31	26



Current Report

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Fall forage production and date of first hollow stem in winter wheat varieties during the 2014-2015 crop year

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Introduction

Fall forage production potential is just one consideration in deciding which wheat variety to plant. Dual-purpose wheat producers may find varietal characteristics such as grain yield after grazing and disease resistance to be more important selection criteria than slight advantages in forage production potential. Forage-only producers might place more importance on planting an awnless wheat variety or one that germinates readily in hot soil conditions. Ultimately, fall forage production is generally not the most important selection criteria used by Oklahoma wheat growers, but it is one that should be considered.

Fall forage production by winter wheat is determined by genetic potential, management and environmental factors. The purpose of this publication is to quantify some of the genetic differences in forage production potential and grazing duration among the most popular wheat varieties grown in Oklahoma. Management factors such as planting date, seeding rate and soil fertility are very influential and are frequently more important than variety in determining forage production. Environmental factors such as rainfall and temperature also play a heavy role in dictating how much fall forage is produced. All of these factors, along with yield potential after grazing and the individual producer's preferences, will determine which wheat variety is best suited for a particular field.

Site descriptions and methods

The objective of the fall forage variety trials is to give producers an indication of the fall forage production ability of wheat varieties commonly grown throughout the state of Oklahoma. The forage trials are conducted under the umbrella of the Oklahoma State University Small Grains Variety Performance Tests at our Chickasha and Stillwater test sites. Weather data for these two sites are provided in Figures 1 and 2.

A randomized complete block design with four replications was used at each site. Forage was measured by hand clipping two 1-m by 1-row samples approximately ½ inch above the soil surface at random sites within each plot. Samples were then placed in a forced-air dryer for approximately 7 days and weighed. All plots were sown at 120 lb/A in a conventionally-tilled seedbed and received 50 lb/A of 18-46-0 in furrow at planting. Fertility, planting date and harvest date information are provided in Table 1.

Results

A few timely rains make a world of difference for fall wheat forage production. Most wheat was sown into limited topsoil moisture with little or no subsoil moisture to serve as a backup. There were few large rainfall events in the fall of 2014, but the smaller, timely rainfalls that fell across much of Oklahoma were just enough to build and maintain an adequate bumper fall wheat forage crop. Average fall forage production at Stillwater was 2,700 lb/A, approximately 500 lb/A less than in 2013 (Table 2). Average fall forage production at Chickasha was 3,520 lb/A approximately 1,000 lb/A more than in 2013 (Table 3). While the forage production at both locations (approximately 90 miles apart) would be considered very good by any standards, the difference in production between the locations illustrates that slight differences in planting date and rainfall can have an impact on forage production.

First hollow stem data are reported in 'day of year' (day) format (Table 4). To provide reference, keep in mind that March 1 is day 60. Average occurrence of first hollow stem at Stillwater in 2015 was day 65. This was 12 days earlier than 2014 and seven days earlier than in 2013. In 2014, there was only 14 days difference between the earliest and latest varieties in terms of first hollow stem. In contrast, there was 30 days separating the earliest and latest varieties in 2015 and some varieties reached first hollow stem earlier (e.g. Winterhawk) or later (e.g. Pete) than normal. Occurrence of first hollow stem is governed by several variety specific factors, so it is difficult to identify a single cause for the deviation from normal in first hollow stem rankings.

Acknowledgments

The authors want to thank the Oklahoma Wheat Commission and the Oklahoma Wheat Research Foundation for providing partial funding for this research.

Seed Sources and Abbreviations

AGSECO = AGSECO Inc.
KWA = Kansas Wheat Alliance
LCS = Limagrain Cereal Seeds
OGI = Oklahoma Genetics Inc.
OSU = Oklahoma State University
PlainsGold = PlainsGold Seeds
Syngenta = Syngenta Seeds
TAMU = Texas Agrilife Research
Watley = Watley Seeds

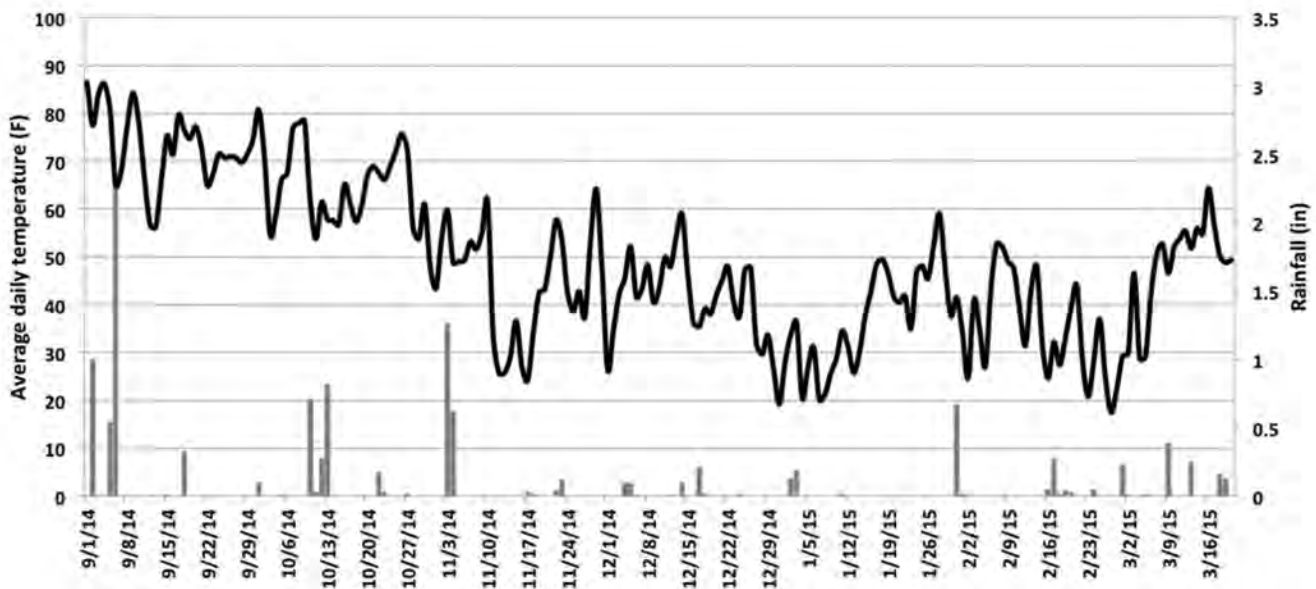


Figure 1. Average daily temperature (line graph) and rainfall (bar chart) from September 1, 2014 to March 20, 2015 at Stillwater, OK. Weather data courtesy Oklahoma Mesonet.

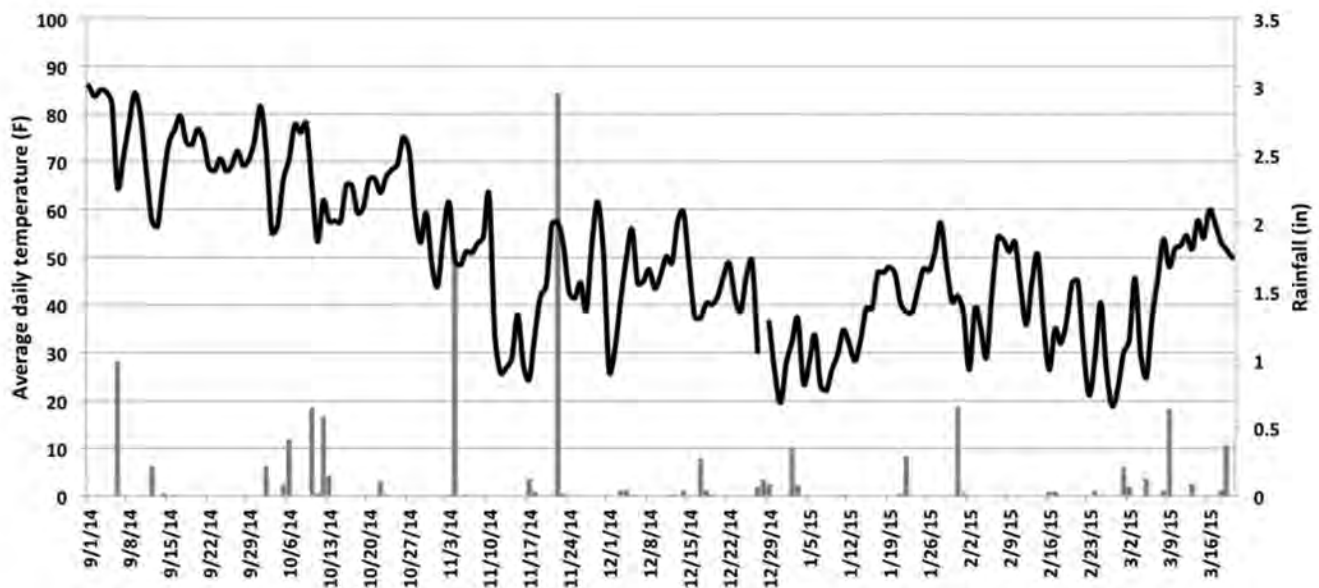


Figure 2. Average daily temperature (line graph) and rainfall (bar chart) from September 1, 2014 to March 20, 2015 at Chickasha, OK. Weather data courtesy Oklahoma Mesonet.

Table 1. Location information.

	<i>Planting date</i>	<i>Sampling date</i>	<i>pH</i>	<i>N</i>	<i>P</i>	<i>K</i>
Chickasha	09/17/14	12/08/14	6.9	151	65	404
Stillwater	09/24/14	12/11/14	5.5	133	58	283

Table 2. Fall forage production by winter wheat varieties at Stillwater, OK during the 2014-2015 production year.

Source	Variety	2014-2015	2-Year	3-Year
-----lbs dry forage/acre-----				
OGI	Gallagher	3,920	3,770	3,420
TAMU	TAM 114	3,440	-	-
OGI	OK Rising	3,350	2,990	-
KWA	1863	3,290	-	-
OGI	Billings	3,150	3,550	3,190
Syngenta	SY Llano	3,130	3,680	-
Watley	TAM 112	3,090	3,170	-
LCS	T158	3,090	3,050	2,850
LCS	T153	3,060	3,000	2,900
OGI	Garrison	3,040	3,220	3,080
OGI	Duster	3,010	3,390	3,130
OSU	Endurance	2,990	3,040	3,050
LCS	LCS Wizard	2,980	3,060	2,990
LCS	LCS Mint	2,940	3,370	2,980
LCS	LCH13DH-14-91	2,870	-	-
Syngenta	Greer	2,840	2,950	2,840
KWA	Oakley CL	2,810	-	-
Watley	TAM 204	2,810	-	-
OGI	Ruby Lee	2,800	2,900	2,670
OGI	Centerfield	2,790	2,960	2,810
OGI	Doublestop CL Plus	2,780	3,020	2,950
Syngenta	Jackpot	2,760	3,240	2,980
OSU	Deliver	2,730	3,150	2,760
PlainsGold	Byrd	2,720	2,690	2,630
OGI	Pete	2,670	2,950	2,770
AGSECO	TAM 113	2,670	3,480	3,020
PlainsGold	Brawl CL Plus	2,650	2,840	2,800
OGI	NF101	2,590	-	-
OGI	Iba	2,580	2,780	2,720
AGSECO	Hot Rod	2,580	-	-
LCS	LCS Pistol	2,550	2,830	2,960
WestBred	Winterhawk	2,540	3,070	2,720
KWA	Everest	2,520	2,820	2,730
LCS	LCH13DH-20-87	2,470	-	-
Syngenta	SY Southwind	2,470	2,820	-
WestBred	WB-Grainfield	2,400	2,690	2,780
KWA	KanMark	2,380	-	-
WestBred	WB-Redhawk	2,370	2,640	2,530
WestBred	WB-Cedar	2,360	3,040	3,000
LCS	T154	2,300	3,070	2,840
WestBred	WB4458	2,270	3,030	2,740
Syngenta	SY Flint	2,270	-	-
Syngenta	SY Monument	2,160	-	-
PlainsGold	CO11D174	2,030	-	-
OSU Experimentals				
	OK10126	3,160	-	-
	OK11D25056	2,610	-	-
	OK13625	2,600	-	-
	OK09125	2,430	2,640	2,510
	OK12621	2,090	-	-
	OK1059060-2C14	1,870	-	-
	OK11231	1,770	-	-
Average		2,700	3,060	2,870
LSD (0.05)		940	590	430

Shaded numbers are not statistically different from the highest-yielding variety within a column.

Table 3. Fall forage production by winter wheat varieties at Chickasha, OK during the 2014-2015 production year.

Source	Variety	2014-		
		2015	2-Year	3-Year
-----lbs dry forage/acre-----				
LCS	T154	3,990	-	-
OGI	Gallagher	3,890	3,400	3,310
Syngenta	SY Llano	3,800	-	-
OGI	NF101	3,790	-	-
WestBred	WB-Redhawk	3,770	-	-
OGI	Duster	3,730	3,330	3,190
OGI	Doublestop			
CL Plus		3,720	3,210	-
OGI	Garrison	3,670	2,920	2,700
KWA	Everest	3,640	3,190	3,040
PlainsGold	Byrd	3,630	3,090	-
OSU	Endurance	3,610	3,120	2,950
PlainsGold	Brawl CL Plus	3,570	3,200	-
WestBred	WB-Cedar	3,550	3,070	2,940
LCS	LCS Pistol	3,540	-	-
LCS	LCS Wizard	3,530	2,990	-
OGI	Pete	3,480	-	-
Watley	TAM 204	3,310	-	-
OGI	Billings	3,270	2,850	-
OGI	Iba	3,220	2,840	2,720
WestBred	WB4458	3,210	2,860	-
Syngenta	Jackpot	3,200	2,870	2,710
Syngenta	Greer	3,180	2,780	2,710
OGI	Ruby Lee	2,740	2,580	2,540
OSU Experimentals				
	OK09125	3,500	3,130	-
	OK1059060-2C14	3,450	-	-
Average		3,520	3,030	2,880
LSD		760	400	280

Shaded numbers are not statistically different from the highest-yielding variety within a column.

Table 4. Occurrence of first hollow stem (day of year) for winter wheat varieties sown in 2014 and measured in 2015 at Stillwater, OK.

Source	Variety	Stillwater	
		--day of year--	
LCS	LCH13DH-14-91	49	
Syngenta	SY Llano	49	
WestBred	WB-Cedar	49	
WestBred	WB-Redhawk	49	
KWA	Everest	57	
OGI	Gallagher	57	
OGI	Iba	57	
LCS	LCS Pistol	57	
LCS	T153	57	
LCS	T154	57	
Watley	TAM 112	57	
WestBred	Winterhawk	57	
PlainsGold	Byrd	61	
OGI	NF101	61	
WestBred	WB4458	61	
KWA	1863	64	
PlainsGold	CO11D174	64	
LCS	LCS Mint	64	
AGSECO	TAM 113	64	
Watley	TAM 204	64	
Syngenta	Greer	68	
Syngenta	Jackpot	68	
Syngenta	SY Flint	68	
Syngenta	SY Southwind	68	
TAMU	TAM 114	68	
OGI	Billings	71	
PlainsGold	Brawl CL Plus	71	
OGI	Duster	71	
AGSECO	Hot Rod	71	
KWA	KanMark	71	
LCS	LCH13DH-20-87	71	
LCS	LCS Wizard	71	
KWA	Oakley CL	71	
WestBred	WB-Grainfield	71	
OSU	Deliver	75	
OGI	Doublestop CL Plus	75	
OGI	Garrison	75	
OGI	Ruby Lee	75	
Syngenta	SY Monument	75	
LCS	T158	75	
OGI	OK Rising	78	
OGI	Centerfield	79	
OSU	Endurance	79	
OGI	Pete	79	
OSU Experimentals			
	OK12621	49	
	OK13625	49	
	OK1059060-2C14	57	
	OK10728W	57	
	OK11D25056	61	
	OK08P707W-19C13	64	
	OK11755W	64	
	OK09125	71	
	OK0986130-7C13	75	
	OK10126	75	
	OK11231	75	
Average		65	

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