



Current Report

Oklahoma Cooperative Extension Fact Sheets are also available on our website at: <http://www.osuextra.com>

2015 Small Grains Variety Performance Tests

Jeff Edwards
Small Grains Extension Specialist

Robert Calhoun
Senior Agriculturalist

Romulo Lollato
Graduate Assistant

Giovana Cruppe
Graduate Assistant

Brett Carver
Wheat Breeder

Bob Hunger
Extension Plant Pathologist

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

Table 1. Oklahoma wheat production for 2014 and 2015 as estimated by OK NASS, July 2015.

	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 fall 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 appearing 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 at such a late time. 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 more than 65 lb/bu, but most were in the mid-50 lb/bu range. 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 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 the 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 6-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 was a randomized complete block with four replications, with the exception Lahoma and Apache. 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 percent moisture. Grain moisture at all sites was generally below 11 percent. Maximum and minimum grain moisture for all plots at a location typically ranged no more than 1 percent. 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

Funding provided by:

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

Area Extension Staff

Mark Gregory
OSU Area Agronomist – Southwest District

Brian Pugh
OSU Area Agronomist – Northeast District

County Extension Staff

Thomas Puffinbarger, Alfalfa County Extension Educator
Loren Sizelove, Beaver County Extension Educator
David Nowlin, Caddo County Extension Educator
Sug Farrington, Cimarron County Extension Educator
Ron Wright, Custer County Extension Educator
Rick Nelson, Garfield County Extension Educator
Kassie Junghanns, Grant County Extension Educator
Darrell McBee, Harper County Extension Educator
Gary Strickland, Jackson County Extension Educator
Corbin Dewitt, Kay County Extension Educator
Zack Meyer, Kingfisher County Extension Educator
Jeff Parmley, Ottawa County Extension Educator
Mindy Hittle, Texas County Extension Educator
Greg Highfill, Woods County Extension Educator

Station Superintendents

Erich Wehrenberg, Agronomy Research Station, Stillwater
Richard Austin, North Central Research Station, Lahoma
Cameron Murley, Oklahoma Panhandle Research and Extension Center, Goodwell
Michael Pettijohn, South Central Research Station, Chickasha
Rocky Thacker, Southwest Research and Extension Center, Altus

Student Workers

Abigael Hughes, Jose Pinto

We sincerely thank our variety trial cooperators for donation of land, time, and resources. Variety trial cooperators not otherwise listed in this document include:

Kirby Farms, Lamont, OK

PARTICIPATING SEED COMPANIES**AGSECO, Inc.**

Steve Ahring, P.O. Box 7, Girard, KS 66743
Phone: 800-962-5429
Email: steve@delangeseed.com
www.agseco.com
Varieties: Hot Rod, TAM 113

Colorado Wheat Research Foundation (PlainsGold)

Darrell Hanavan, 4026 S. Timberline Rd. Ste. 100, Fort Collins, CO 80525
Phone: (970) 449-6994
Email: dhanavan@coloradowheat.org
Varieties: Byrd, Brawl CL Plus, CO11D174

Kansas Wheat Alliance (KWA)

Daryl Strouts, 1990 Kimball Ave.
Manhattan, KS 66502
Phone: (785) 320-4080
Email: kwa@kansas.net
www.kswheatalliance.org
Varieties: 1863, Everest, KanMark, Oakley CL

Limagrain Cereal Seeds (LCS)

Marla Barnett, 6414 N Sheridan, Wichita, KS 67204
Phone: (316) 253-6839
Email: marla.barnett@limagrain.com
www.limagraincerealseeds.com
Varieties: LCS Mint, LCS Pistol, LCS Wizard, T153, T154, T158, LCH11-1117, LCH13DH-20-87, LCH13DH-14-91,

Monsanto/WestBred

John Fenderson, 1616 E. Glencoe Rd., Stillwater, OK 74075
Phone: (620) 243-4263
Email: john.m.fenderson@monsanto.com
www.westbred.com
Varieties: WB4458, WB-Cedar, WB-Grainfield, WB-Redhawk, Winterhawk

Oklahoma Genetics Inc. (OGI)

Mark Hodges, P.O. Box 2113, Stillwater, OK 74076
Phone: (405) 744-7741
www.okgenetics.com
Varieties: Billings, Centerfield, Doublestop CL Plus, Duster, Iba, Gallagher, Garrison, NF101, OK Bullet, OK Rising, Pete, Ruby Lee

Oklahoma Foundation Seed Services (OSU)

Jeff Wright, 2902 W. 6th Ave., Stillwater, OK 74074
Phone: (405) 744-7741
www.oklahomaseed.com
Varieties: Endurance, Deliver

Syngenta Seeds

Greg Gungoll, 1517 Osage Ave., Enid, OK 73703
Phone: (405) 714-2839
Email: greg.gungoll@syngenta.com
www.agriproheat.com
Varieties: Greer, Jackpot, SY Drifter, SY Flint, SY Llano, SY Southwind

Watley Seed

Andy Watley, Box 51, Spearman, TX 79081
Phone: (806) 659-3838
Email: watleyseed@valornet.com
www.watleyseed.com
Varieties: TAM 112, TAM 204

**Wheat protein data are available
in Extension Current Report
CR-2135 Protein Content of Winter Wheat Varieties in
Oklahoma, 2015.**

2015 Oklahoma Wheat Variety Trial Yield Summary

Variety	Afton	Altus	Alva	Apache		Balko	Buffalo	Cherokee	Chickasha	Chickasha IWM	Goodwell	Homestead
				Apache	Fungicide							
-----grain yield (bu/ac)-----												
1863	-	46	-	-	-	-	-	-	53	79	76	-
Billings	74	46	45	-	-	-	41	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	70	70	-
SY Flint	-	52	-	-	-	-	-	-	61	76	79	-
SY Liano	-	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

2015 Oklahoma Wheat Variety Trial Yield Summary (cont'd)

Variety	Hooker	Keyes	Kildare	Kingfisher	Lahoma		Marshall		McLoud	Thomas	Union City	Walters
					Fungicide	Dual Purpose	Grain Only	grain yield (bu/ac)				
1863	-	-	-	-	62	78	-	-	-	-	-	-
Billings	-	31	54	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	59	49	71	33	39	59	37	38	37
Hot Rod	-	-	-	-	61	70	-	-	-	-	-	-
lba	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
KarnMark	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

Afton Wheat Variety Trial

Cooperator: Greg Leonard
 Soil type: Parsons silt loam
 Planting date: 10/07/2014
 Harvest date: 06/11/2015

Tillage: Minimum-till
 Management: Grain only
 Previous crop: Corn
 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
Ogl	Ruby Lee	75	66	62	61.6
Ogl	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
Ogl	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
Ogl	Gallagher	64	56	54	59.4
Ogl	Iba	57	58	50	59.2
LCS	LCS Pistol	57	-	-	56.5
Ogl	Duster	56	60	53	57.2
LCS	LCS Wizard	52	54	-	58.7
Ogl	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 Prosaro on 1 May 2015. Wheat emerged late and remained small until late winter.

Altus 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
 Soil type: Grant silt loam
 Planting date: 10/22/2014
 Harvest date: 06/23/2015

Tillage: Conventional till
 Management: Grain only
 Previous crop: Wheat
 Soil test: pH = 5.6, P = 61, K = 459

Source	Variety	Lodging 0 - 10	Grain Yield	Test Weight
			2014-15 --bu/ac--	2014-15 -----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
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
 Soil type: Hollister silt loam
 Planting date: 10/23/2014
 Harvest date: 06/06/2015
 Fungicide: 9 oz/ac Twinline at GS 10.1 on 04/10/2015

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

Source	Variety	Lodging	Grain Yield			Test Weight
			2014-15	2-Year	3-Year	2014-15
		0 - 10	-----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
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
 Soil type: Hollister silt loam
 Previous crop: Wheat
 Management: No-till grain only
 Soil test: pH = 5.2, P = 122, K = 446
 Fungicide: 9 oz/ac Twinline at GS 10.1 on 04/10/2015
 Planting date: 10/23/2014
 Harvest date: 06/06/2015

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

Cherokee Wheat Variety Trial

Cooperator: Kenneth Failes
 Soil type: Dale silt loam
 Planting date: 09/29/2014
 Harvest date: 06/22/2015

Tillage: Conventional till
 Management: Dual purpose
 Previous crop: Wheat
 Soil test: pH = 7.2, P = 43, K = 676

Source	Variety	Lodging 0 - 10	Grain Yield	Test Weight
			2014-15 --bu/ac--	2014-15 ----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 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

Previous crop: Wheat/Fallow

Harvest date: 06/30/2015

Total rainfall: 15.2 in

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
 Soil type: Richfield clay loam
 Planting date: 09/25/2014

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

Harvest date: 06/30/2015

Source	Variety	<i>Grain Yield</i>	<i>Test Weight</i>
		<u>2014-15</u> --bu/ac--	<u>2014-15</u> ----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 -----bu/ac-----	3-Year	2014-15 ---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
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 Trials

Cooperator: North Central Research Station

Soil type: Pond Creek silt loam

Planting date: 10/20/2014

Harvest date: 06/19/2015

Tillage: Conventional till

Management: Grain only

Previous crop: Wheat

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

Source	Variety	Lodging 0 - 10	Grain Yield			Test Weight
			2014-15 -----bu/ac-----	2-Year	3-Year	2014-15 -----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
Syngenta	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
 Soil type: Kirkland silt loam
 Planting date: 09/12/2014
 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	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: 09/12/2014
 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 -----lb/bu-----
		2014-15	2-Year	3-Year	
		-----bu/ac-----			
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
 Soil type: Kirkland silt loam
 Planting date: 09/12/2014 (Dual Purpose) & 10/24/2014 (Grain Only)

Tillage: Conventional Till
 Previous crop: Wheat
 Soil test: pH = 6.0, P = 53, K = 363
 Harvest date: 06/07/2015

Source	Variety	2014-15				2-Year				3-Year				Test Weight			
		Grain		Grazing	penalty	Grain		Grazing	penalty	Grain		Grazing	penalty	Grain		Grazing	penalty
		Only	Grazed			Only	Grazed			Only	Grazed			Only	Grazed		
WestBred	WB-Cedar	53	46	6	31	6	42	36	6	58.1	58.3	0	58.1	58.3	0		
Syngenta	SY Southwind	42	44	-3	-	-	-	--	-	53.6	58.0	-4	53.6	58.0	-4		
OGI	Duster	34	43	-8	31	32	36	37	-1	51.4	57.5	-6	51.4	57.5	-6		
OGI	Gallagher	43	41	2	30	28	38	33	3	53.9	58.2	-4	53.9	58.2	-4		
OGI	Doublestop CL Plus	36	38	-3	28	29	36	36	-1	55.9	58.4	-2	55.9	58.4	-2		
OSU	Endurance	32	38	-6	27	28	37	35	2	48.4	55.6	-7	48.4	55.6	-7		
OGI	Iba	44	37	7	32	30	41	37	4	56.3	58.5	-2	56.3	58.5	-2		
KWA	Everest	42	36	6	32	27	40	34	6	56.7	59.9	-3	56.7	59.9	-3		
WestBred	WB-Redhawk	34	36	-2	-	-	-	--	-	50.9	57.3	-6	50.9	57.3	-6		
LCS	LCS Pistol	37	35	2	-	-	-	--	-	53.5	56.9	-2	53.5	56.9	-2		
WestBred	WB4458	47	35	13	34	25	9	--	9	56.3	58.7	-2	56.3	58.7	-2		
PlainsGold	Brawl CL Plus	45	35	10	35	28	7	--	7	57.0	54.1	3	57.0	54.1	3		
OGI	Ruby Lee	34	34	0	26	2	36	34	2	55.2	54.5	1	55.2	54.5	1		
Syngenta	Greer	39	33	6	32	7	39	33	7	51.6	54.1	-2	51.6	54.1	-2		
PlainsGold	Byrd	20	31	-11	22	26	-4	--	-4	57.1	54.4	3	57.1	54.4	3		
Syngenta	Jackpot	33	30	4	27	24	3	32	2	53.8	56.3	-3	53.8	56.3	-3		
OGI	Billings	41	29	12	29	20	9	26	10	57.2	57.0	0	57.2	57.0	0		
LCS	LCS Mint	28	27	1	25	22	3	--	3	52.2	55.4	-3	52.2	55.4	-3		
LCS	LCS Wizard	27	26	1	25	21	4	--	4	49.8	56.0	-6	49.8	56.0	-6		
OGI	Garrison	22	19	3	22	18	3	27	5	50.4	64.0	-14	50.4	64.0	-14		
Experimentals	OK09125	41	35	6	31	29	2	34	6	50.2	53.3	-3	50.2	53.3	-3		
Experimentals	OK11231	40	33	7	-	-	-	--	-	57.3	56.4	1	57.3	56.4	1		
Mean		37	35	2	29	26	3	33	4	53.9	56.9	-3	53.9	56.9	-3		
LSD (0.05)		6			4			3		3.3			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
 Soil type: Pond Creek silt loam
 Planting date: 10/31/2014
 Harvest date: 06/10/2015

Tillage: Conventional till
 Management: Grain only
 Previous crop: Wheat
 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
 Soil type: Pond Creek silt loam
 Planting date: 09/23/2014
 Harvest date: 06/08/2015

Tillage: Conventional till
 Management: Dual Purpose
 Previous crop: Canola
 Soil test: pH = 6.1, P = 111, K = 320

Source	Variety	<u>Grain Yield</u>	<u>Test Weight</u>
		2014-15 --bu/ac--	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
 Soil type: Tillman-Foard complex
 Planting date: 09/18/2014
 Harvest date: 06/12/2015

Tillage: No-till
 Management: Dual Purpose
 Previous crop: Canola
 Soil test: pH = 5.3, P = 51, K = 530

Source	Variety	Lodging 0 - 10	Grain Yield		Test Weight
			2014-15 -----bu/ac-----	2-Year	2014-15 --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

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

	<i>Chickasha</i>	<i>Lahoma</i>	<i>Stillwater</i>	<i>Altus</i>	<i>Chickasha</i>	<i>Chickasha</i>	<i>Goodwell</i>	<i>Lahoma</i>
	-----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

The Oklahoma Cooperative Extension Service Bringing the University to You!

The Cooperative Extension Service is the largest, most successful informal educational organization in the world. It is a nationwide system funded and guided by a partnership of federal, state, and local governments that delivers information to help people help themselves through the land-grant university system.

Extension carries out programs in the broad categories of agriculture, natural resources and environment; family and consumer sciences; 4-H and other youth; and community resource development. Extension staff members live and work among the people they serve to help stimulate and educate Americans to plan ahead and cope with their problems.

Some characteristics of the Cooperative Extension system are:

- The federal, state, and local governments cooperatively share in its financial support and program direction.
- It is administered by the land-grant university as designated by the state legislature through an Extension director.
- Extension programs are nonpolitical, objective, and research-based information.
- It provides practical, problem-oriented education for people of all ages. It is designated to take the knowledge of the university to those persons who do not or cannot participate in the formal classroom instruction of the university.
- It utilizes research from university, government, and other sources to help people make their own decisions.
- More than a million volunteers help multiply the impact of the Extension professional staff.
- It dispenses no funds to the public.
- It is not a regulatory agency, but it does inform people of regulations and of their options in meeting them.
- Local programs are developed and carried out in full recognition of national problems and goals.
- The Extension staff educates people through personal contacts, meetings, demonstrations, and the mass media.
- Extension has the built-in flexibility to adjust its programs and subject matter to meet new needs. Activities shift from year to year as citizen groups and Extension workers close to the problems advise changes.

Oklahoma State University, in compliance with Title VI and VII of the Civil Rights Act of 1964, Executive Order 11246 as amended, and Title IX of the Education Amendments of 1972 (Higher Education Act), the Americans with Disabilities Act of 1990, and other federal and state laws and regulations, does not discriminate on the basis of race, color, national origin, genetic information, sex, age, sexual orientation, gender identity, religion, disability, or status as a veteran, in any of its policies, practices or procedures. This provision includes, but is not limited to admissions, employment, financial aid, and educational services. The Director of Equal Opportunity, 408 Whitehurst, OSU, Stillwater, OK 74078-1035; Phone 405-744-5371; email: eeo@okstate.edu has been designated to handle inquiries regarding non-discrimination policies: Director of Equal Opportunity. Any person (student, faculty, or staff) who believes that discriminatory practices have been engaged in based on gender may discuss his or her concerns and file informal or formal complaints of possible violations of Title IX with OSU's Title IX Coordinator 405-744-9154.

Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Director of Oklahoma Cooperative Extension Service, Oklahoma State University, Stillwater, Oklahoma. This publication is printed and issued by Oklahoma State University as authorized by the Vice President, Dean, and Director of the Division of Agricultural Sciences and Natural Resources and has been prepared and distributed at a cost of \$3.00 per copy. Revised 1015 GH.