



OKLAHOMA SMALL GRAINS VARIETY PERFORMANCE TESTS 2006-2007



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Partial funding provided by



OKLAHOMA STATE UNIVERSITY DEPARTMENT OF PLANT AND SOIL SCIENCES

PRODUCTION TECHNOLOGY REPORT

PT-2007-6

Vol.19 No. 6

ACKNOWLEDGMENTS

The assistance of the following individuals, companies, and organizations is gratefully acknowledged

Funding was provided by

Oklahoma Wheat Commission & Oklahoma Wheat Research Foundation
USDA-CSREES
Southern Region SARE

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The following donated materials (seed, fertilizer, etc.) for variety trials

AgriPro Wheat, Vernon, TX
Johnston Enterprises, Enid, OK
WestBred LLC, Haven, KS

Farmer cooperators for each location are listed in the heading of variety trial results. In addition, we thank the following who donated land, resources and time, but whose variety trial location was not harvestable due to environmental factors such as freeze injury.

Brook Strader, Homestead, OK
Don Schieber, Kildare, OK
Jackson Farms, Apache, OK
Kirby Farms, Lamont, OK

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This and other wheat-related publications can be
found at:

www.wheat.okstate.edu

2007 WHEAT CROP OVERVIEW

The weather pendulum swung from one extreme to another during the 2006-2007 wheat production season. Most of the state was very dry during wheat sowing in the fall of 2006. In contrast, the 2007 harvest will go down as one of the wettest in history.

Wheat sowing generally went according to schedule in north-central Oklahoma. Crop emergence, however, did not. The majority of fields in this area of the state did not receive enough rainfall to induce wheat germination until January of 2007. As a result, grazing was not an option for most north-central Oklahoma wheat farmers.

Southwest Oklahoma wheat farmers were also hampered by dry conditions early in the fall of 2007. A few timely rainfalls in November and plenty of carryover soil nitrogen, though, helped salvage wheat forage production in this region of the state. In fact, wheat forage production at our El Reno test site was well over 1 ton per acre.

Eastern Oklahoma farmers had adequate moisture last fall and generally obtained a satisfactory stand of wheat. Fields in this region and most of northern Oklahoma were snow and/or ice covered during late December and early January. The moisture from these ice and snow events outweighed any tissue damage resulting from the cold temperatures. In fact, the snow and ice probably reduced the amount of tissue damage to wheat by insulating the crop from cold, blowing winds.

Ice and snow gave way to warmer-than-average temperatures during late winter and early spring. For example, average temperature for the month of March in Alfalfa and Kay counties was 9° F above the 35-year average. This, along with adequate moisture, allowed the late-emerging wheat in north-central Oklahoma to tiller much better than expected. This breathed new life into some

fields that had been written off as non-salvageable.

Warm temperatures also advanced phenological development of the 2006-2007 wheat crop. By the time April 1 rolled around all but the latest-emerging fields in southwest and northeast Oklahoma were nearing or past the boot stage and many fields were partially headed. Freeze could not have hit at a worse time.

Temperatures the weekend of April 5 dipped well below freezing across much of the state. Hardest hit was northeastern Oklahoma where temperatures dropped well into the teens and stayed there for several hours. The vast majority of wheat in this part of the state was a total loss.

Initial evaluation of wheat in central and northern Oklahoma indicated that these areas had largely escaped freeze injury. Some fields of early varieties such as Overley displayed significant injury, but wheat heads and flag leaves in most fields remained green and showed little evidence of freeze injury.

The only symptomology observed in many of these fields was swollen or bent nodes a few centimeters above the soil surface. This stem injury appeared benign at first but later proved to be the downfall for much of the Oklahoma wheat belt. Fields that displayed this type of injury in mid-April were severely lodged by late-May. Many were never harvested. Those that were harvested produced low test weights and poor kernel size.

Wet conditions prevailed during the entire harvest season of 2007. Many fields that showed great promise earlier in the year were never harvested due to wet soil conditions and poor test weight.

The one bright spot in 2006-2007 was the Oklahoma Panhandle. With the exception of a few weeks in May, this region had adequate moisture during the entire growing season.

The leaf rust that devastated much of the Oklahoma crop did not appear in the Panhandle until late in the growing season and did not affect yield much. Nitrogen limited production in some fields, as yields were almost double what they have been the past couple of years and most farmers have become accustomed to fertilizing for lower yield potential.

Hessian fly was a major issue for many wheat producers again in 2006-2007. The common thread among several of the Hessian fly-infested fields was proximity to no-till continuous wheat. Other insect problems in 2006-2007 included fall armyworm, aphids, and true armyworm. Wheat farmers in the Panhandle also had to contend with Russian Wheat Aphid in a few fields.

Barley yellow dwarf virus was commonly observed in many wheat fields in the spring of 2007. There were also many look-alike symptoms in fields that laboratory analysis proved not to be barley yellow dwarf related. Some of these symptoms were probably caused by wet, cool conditions-others perhaps by heavy foliar disease pressure. The exact cause for yellowing in many of these fields, however, was never positively identified.

Foliar disease was present during much of the production season. Powdery mildew was present in susceptible varieties such as Jagger and Jagalene. Leaf rust was observed in many wheat fields as early as November of 2006. Leaf rust remained a major foliar disease problem throughout the production season and many fields were treated with a fungicide after flag leaf emergence. The variety Jagger, which was resistant to leaf rust when originally released, was hit hard by the disease in 2007. Newer varieties such as Overlay and OK Bullet resisted the disease for much of the season but were showing some active rust pustules by mid May.

Black chaff was present in some Oklahoma wheat fields in 2007, which is a rare occurrence in Oklahoma. Likewise black (sooty) head mold was observed in Oklahoma wheat fields. Subsequent infection of maturing and mature grains resulted in black point in the grain harvested from many of these fields.

Methods

Locations. The OSU small grains research crew beat the weather and harvested several locations literally just before it rained. Unfortunately some locations never dried and could not be harvested. These included Apache, Homestead, Lahoma, Lamont, and Kildare. Similarly, our plots at Haskell were devastated by the April freeze and any hopes of harvesting were dashed by persistent rain.

Cultural Practices. Conventional plots were eight rows wide with six-inch row spacing. No-till plots were seven rows wide with 7.5 inch row spacing. Plots were either 20 or 40 feet long depending on location. 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 El Reno, Marshall DP, Frederick, and Cherokee locations were sown at 120 lb/ac and all other locations were sown at 60 lb/ac. Grazing pressure, nitrogen fertilization, insect and weed control decisions were all made on a location-by-location basis and reflect standard management practices for the area.

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

www.wheat.okstate.edu

Table 1. Fall forage production by winter wheat varieties sown in 2006 at El Reno and Stillwater, OK.

Seed source	Variety	Location				Average
		Stillwater	El Reno	El Reno	No-till diff [†]	
			Conv. Till	No Till		
lb/ac						
Oklahoma	Duster	2400 [‡]	3650	2790	-860	2950
Oklahoma	Okfield	2480	3470	2590	-880	2850
Oklahoma	Centerfield	2380	3580	2420	-1160	2790
AgriPro	Fannin	2460	3590	2120	-1470	2720
Kansas	Fuller	2450	3410	2210	-1200	2690
Westbred	Shocker	2210	3310	2520	-790	2680
Oklahoma	2174	2420	3530	2080	-1450	2680
Oklahoma	Deliver	2530	3390	2060	-1330	2660
Johnstons	JEI 110	2350	3240	2330	-910	2640
AgriPro	Doans	2400	3330	2170	-1160	2630
Kansas	Danby	2380	3460	2020	-1440	2620
Oklahoma	OK Bullet	2270	3070	2430	-640	2590
Kansas	Overley	2210	3200	2350	-850	2590
Oklahoma	Endurance	2240	3290	2190	-1100	2570
AgriPro	Cutter	2200	3320	2160	-1160	2560
Agseco	Protection CL	2310	3250	2080	-1170	2550
AgriPro	Jagalene	2310	3240	2080	-1160	2540
Westbred	Santa Fe	2020	3300	2230	-1070	2520
AgriPro	TAM 111	2290	2970	2150	-820	2470
Kansas	Jagger	2200	2940	2190	-750	2440
	Average	2330	3330	2260	-1070	2640
	LSD	310	490	490	500	330

[†] No-till difference = no-till forage minus conventional-till forage

[‡] Shaded numbers are not statistically different from the highest-yielding variety within a column

Table 2. Fall forage production by winter wheat varieties sown in 2004, 2005, and 2006 at El Reno, OK.

Seed source	Variety	2006	2-Year	3-Year
			Average	Average
		lb/ac		
Oklahoma	Deliver	3390 [†]	2870	2860
Johnstons	JEI 110	3240	2980	2800
Oklahoma	Endurance	3290	2840	2800
AgriPro	Cutter	3320	2690	2760
Oklahoma	2174	3530	2860	2750
AgriPro	Jagalene	3240	2650	2580
Kansas	Overley	3200	2500	2460
Kansas	Jagger	2940	2580	2430
AgriPro	Fannin	3590	3140	-
Oklahoma	OK Bullet	3070	2960	-
AgriPro	TAM 111	2970	2430	-
Average		3330	2770	2680
LSD		490	410	390

[†] Shaded numbers are not statistically different from the highest-yielding variety within a column

Table 3. Occurrence of first hollow stem (day of year) for winter wheat varieties sown in 2006 at El Reno and Stillwater, OK.

Seed source	Variety	El Reno			No-till diff [†]
		Stillwater	Conv. Till	No Till	
		DOY [‡]			
Oklahoma	Duster	64	68	72	4
Oklahoma	Okfield	71	72	71	-1
Oklahoma	Centerfield	74	57	65	8
AgriPro	Fannin	57	75	75	0
Kansas	Fuller	57	57	65	8
Westbred	Shocker	59	57	65	8
Oklahoma	2174	74	75	75	0
Oklahoma	Deliver	71	75	75	0
Johnstons	JEI 110	71	70	72	2
AgriPro	Doans	71	68	72	4
Kansas	Danby	74	57	60	3
Oklahoma	OK Bullet	68	70	70	0
Kansas	Overley	57	57	65	8
Oklahoma	Endurance	74	68	72	4
AgriPro	Cutter	57	69	74	5
Agseco	Protection CL	54	57	59	2
AgriPro	Jagalene	57	57	66	9
Westbred	Santa Fe	57	59	61	2
AgriPro	TAM 111	71	72	75	3
Kansas	Jagger	57	68	69	1
Average		65	65	69	4

[†] No-till difference = no-till DOY minus conventional till DOY

[‡] DOY = Day Of Year; for example, March 1 is DOY # 60

2007 Oklahoma Wheat Variety Trial Summary

Variety	Alva	Balko	Buffalo	Cherokee	Cimarron County	Elk City	El Reno Conv Till DP	El Reno Conv Till GO	El Reno No-Till DP	El Reno No-Till GO	Frederick	Gage	Goodwell Irrigated	Goodwell Non-irr.	Hooker	Kingfisher	Marshall DP	Marshall GO	Olustee
	-----bu/ac-----																		
2174	30	82	55	36	-	45	11	16	14	15	35	38	61	70	-	39	11	23	47
Avalanche (W)	-	81	-	-	70	-	-	-	-	-	-	-	64	67	59	-	-	-	-
Centerfield	36	83	56	34	-	46	15	12	12	13	44	40	66	58	-	33	9	25	47
Cutter	23	86	48	19	-	36	12	21	14	23	41	37	64	76	-	42	14	21	48
Danby (W)	29	98	57	26	81	48	20	23	17	20	41	53	73	73	62	47	15	23	46
Deliver	36	84	64	34	-	63	19	22	17	20	44	49	66	72	-	40	20	32	48
Doans	34	84	62	28	-	58	23	21	30	28	53	42	66	64	-	40	20	36	51
Duster	35	93	65	28	78	44	19	27	18	26	47	50	69	84	72	52	22	32	48
Endurance	34	94	65	40	75	53	19	25	20	25	45	52	68	77	70	45	20	29	50
Fannin	31	85	57	30	-	54	7	19	8	21	49	37	66	75	-	42	14	32	51
Fuller	32	88	65	35	-	61	17	26	20	30	54	55	76	78	-	52	19	40	60
Guymon (W)	-	89	-	-	-	-	-	-	-	-	-	-	67	68	-	-	-	-	-
Ike	-	78	-	-	-	-	-	-	-	-	-	-	60	71	-	-	-	-	-
Intrada (W)	-	91	-	-	65	-	-	-	-	-	-	-	65	73	60	-	-	-	-
Jagalene	19	87	49	18	73	35	8	18	12	20	34	40	69	75	58	42	11	21	50
Jagger	21	84	51	20	67	40	8	19	11	22	39	38	68	67	61	40	9	22	54
JEI 110	29	87	57	27	-	50	12	22	12	15	51	44	64	73	-	47	12	31	55
Lakin (W)	-	94	-	-	-	-	-	-	-	-	-	-	66	68	-	-	-	-	-
Neosho	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK Bullet	33	92	63	29	77	59	17	22	19	28	45	49	73	78	67	50	21	37	59
Okfield	25	83	54	32	-	38	16	16	13	15	40	43	62	65	-	43	12	24	44
Overley	35	92	62	31	-	55	15	32	19	32	53	43	72	77	-	50	16	28	64
ProtectionCL	19	80	50	22	-	37	7	19	9	20	42	36	68	71	-	44	13	26	56
Santa Fe	33	92	64	33	-	56	14	22	14	28	47	43	77	71	-	49	20	32	59
Shocker	34	80	58	34	-	56	15	22	13	24	45	38	64	67	-	46	21	29	54
Stanton	-	83	-	-	-	-	-	-	-	-	-	-	62	78	-	-	-	-	-
TAM 110	-	89	-	-	72	-	-	-	-	-	-	-	60	68	58	-	-	-	-
TAM 111	28	98	60	-	72	43	13	24	14	18	40	49	74	75	65	48	18	28	45
TAM 112	-	97	-	-	76	-	-	-	-	-	-	-	73	72	75	-	-	-	-
Trego (W)	-	91	-	-	76	-	-	-	-	-	-	-	61	70	60	-	-	-	-
OK Bullet 06ERU	30	89	61	29	-	55	13	-	-	-	45	49	67	71	-	51	20	37	56
OK00611W	32	-	-	-	-	-	-	-	-	-	-	-	64	76	-	-	-	-	-
OK02125	28	-	-	29	-	-	16	-	-	-	48	-	65	-	-	44	17	31	-
OK02522W	31	91	62	30	-	63	18	-	-	-	51	47	66	75	-	51	19	37	58
OK03305	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-	-	-	61
OK03522	-	-	60	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-	-
OK04505	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK05737W	-	92	63	32	-	61	15	-	-	-	44	-	71	70	-	53	20	33	-
OK05905C	26	-	-	-	-	-	-	-	-	-	33	41	-	-	-	-	-	-	-
Mean	30	88	59	29	74	51	15	21	15	22	44	44	67	72	64	46	16	30	53
LSD (0.05)	3	9	9	5	5	4	4	3	3	3	7	6	10	14	6	6	4	4	3

Wheat Variety Comparison Chart

Production Technology Vol. 18, No. 6 rev. 1

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July, 2007

Source	Entry	Lodging	First Hollow Stem	Maturity	High-temp germ. sensitivity	Coleoptile Length	Acid Soil Tolerance	Hessian Fly	Wheat Streak Mosaic†	Septoria	Soil-borne Mosaic	Leaf Rust	Stripe Rust	Powdery Mildew	Tan Spot	Variety Protection
HARD RED WINTER WHEAT VARIETIES																
AgriPro	AP502 CL	3	VE	VE	2	1	4	S	-	3	3	4	4	1	2	P-94
AgriPro	Cutter	4	VE	M	4	3	1	S	3	3	1	4	1	4	4	P-94
AgriPro	Doans	2	M	M	-	-	2	S	-	2	2	1	1	2	-	P-94
AgriPro	Dumas	1	E	E	2	4	4	S	-	3	4	3	-	3	2	P-94
AgriPro	Fannin	2	VE	VE	3	1	1	-	-	-	1	1	1	2	-	P-94
AgriPro	Jagalene	2	E	E	3	2	2	S	3	2	1	4	1	4	3	P-94
AGSECO	7853	3	VE	M	3	4	2	-	-	2	1	3	-	2	-	N
CSU	Above	2	VE	VE	2	2	4	-	3	3	4	4	4	1	2	P-94
CSU	Hatcher	3	-	M	-	2	3	-	-	-	-	3	2	-	-	P-94
CSU	Ripper	1	-	VE	-	2	4	S	-	-	-	4	4	-	-	P-94
KSU	Karl 92	3	E	E	2	4	3	-	-	2	1	4	-	1	2	P
KSU	2137	1	L	L	3	4	1	S	3	3	2	3	4	2	3	P-94
KSU	2145	2	E	E	2	2	3	PR	4	2	1	1	2	3	4	P-94
KSU	Fuller	2	VE	E	-	-	3	-	3	3	1	1	1	3	3	A-94
KSU	Ike	3	VL	L	2	2	4	PR	-	1	4	4	-	2	-	P-94
KSU	Jagger	3	VE	VE	1	2	1	S	3	1	1	4	1	4	2	P-94
KSU	Overley	1	VE	VE	4	3	2	S	3	2	1	3	1	4	2	A-94
NE	Scout 66	4	-	L	-	1	4	-	-	3	4	4	-	3	-	N
OSU	Triumph 64	4	L	M	4	1	4	-	-	4	4	4	-	3	1	N
OSU	2174	1	VL	L	4	3	3	PR	4	2	1*	2	2	1	4	P-94
OSU	Chisholm	2	L	E	3	3	3	PR	-	3	4	4	1	3	4	N
OSU	Centerfield	2	L	M	4	3	3	PR	-	-	2	2	2	1	4	A-94
OSU	Custer	2	E	E	1	3	4	-	-	3	4	3	4	1	3	N
OSU	Deliver	3	L	M	2	4	4	-	-	2	1	1	1	1	3	A-94
OSU	Duster	3	M	M	1	3	1	R	-	3	1	1	2	2	4	A-94
OSU	Endurance	2	VL	M	1	2	1	S	4	3	2*	2	2	2	3	A-94
OSU	OK Bullet	1	E	E	1	2	2	S	3	2	2	3	1	3	3	A-94
OSU	Ok101	2	E	VE	1	4	1	S	-	3	2	3	3	4	4	N
OSU	Ok102	1	VL	L	4	1	3	PR	-	3	1	2	4	2	4	N
OSU	Okfield	2	M	L	4	1	3	PR	-	3	4	3	3	1	3	A-94
TX	Lockett	4	E	VL	1	-	2	S	-	-	4	2	3	-	-	P-94
TX	TAM 107	3	E	M	3	2	4	-	-	3	4	4	-	1	-	P
TX	TAM 110	2	VE	VE	2	1	4	S	3	3	4	4	4	1	4	P-94
TX	TAM 111	3	M	M	3	1	3	S	3	2	3	3	1	3	3	P-94
TX	TAM 112	4	-	E	-	1	1	S	3	-	-	3	4	1	-	P-94
TX	TAM 303	2	-	E	-	1	-	S	-	-	-	1	3	1	-	A-94
WestBred	Shocker	2	VE	E	4	3	2	S	4	2	1	1	2	2	2	P-94
WestBred	Santa Fe	2	VE	E	1	2	2	S	3	1	1	1	2	3	2	P-94
HARD WHITE WHEAT VARIETIES																
KSU	Danby	3	VL	M	4	3	3	-	3	4	4	4	1	4	4	A-94
KSU	Heyne	3	VE	M	1	-	1	-	-	2	1	1	-	2	-	P-94
KSU	Lakin	2	VL	M	1	4	3	-	-	4	2	3	4	4	3	P-94
KSU	RonL	3	L	M	-	3	4	S	1	4	1	3	1	2	4	P-94
KSU	Trego	4	L	M	2	3	4	S	3	3	2	4	4	3	4	P-94
OSU	Guymon	3	VE	L	1	4	3	S	-	2	1	3	4	3	3	A-94
OSU	Intrada	4	E	E	1	3	3	S	-	3	2	3	3	4	2	N

General:

1 = Excellent
4 = Poor

Maturity & First Hollow Stem

VE = Very Early
E = Early
M = Medium
L = Late
VL = Latest

Coleoptile:

1 = Longest
4 = Shortest

Hessian Fly

S = Susceptible
PR = Partially resistant
R = Resistant

Variety Protection:

N = Not protected
P = Protected PVPA - 1970
P - 94 = Protected PVPA - 1994
A-94 = PVPA - 1994 applied for

* reaction presented is to soilborne mosaic; reaction to spindle streak is a '3'

† Ratings for wheat streak mosaic virus adapted from K-STATE publication MF-991, Erick De Wolf author.

Acknowledgments: The authors greatly appreciate the input of Erick De Wolf, KSU; Jackie Rudd, TAMU; Sid Perry, WestBred; Scott Haley, CSU; David Worrall, AgriPro; and Joe Martin, KSU for their comments and input in the revision of this publication

Oklahoma State University, Department of Plant and Soil Sciences, Production Technology Report PT 2006-6 rev. 1

Jeff Edwards - Small Grains Extension; Bob Hunger - Plant Pathology Extension; Brett Carver - Wheat Breeding; and Tom Royer - Extension Entomologist

Alva Variety Trial

Cooperator: Wes Mallory

Tillage: Conventional till

Soil type: Grant silt loam

Management: Grain only

Planting date: 10-26-06*

Soil test information: pH = 5.3, P = 84, K = 623

Source	Variety	Grain Yield			Test Weight
		2006-07	2-Year	3-Year	2006-07
		-----bu/ac-----			---lb/bu---
Oklahoma	Centerfield	36	-	-	52
Oklahoma	Deliver	36	30	34	53
Oklahoma	Duster	35	31	-	52
Kansas	Overley	35	33	41	53
WestBred	Shocker	34	-	-	52
AgriPro	Doans	34	-	-	53
Oklahoma	Endurance	34	30	37	51
WestBred	Santa Fe	33	31	-	53
Oklahoma	OK Bullet	33	31	35	54
Kansas	Fuller	32	-	-	53
AgriPro	Fannin	31	29	36	55
Oklahoma	2174	30	27	31	53
Johnstons	JEI 110	29	27	-	50
Kansas	Danby (W)	29	-	-	54
Texas	TAM 111	28	28	-	53
Oklahoma	Okfield	25	26	30	51
AgriPro	Cutter	23	25	32	50
Kansas	Jagger	21	26	32	48
Agseco	Protection CL	19	-	-	45
AgriPro	Jagalene	19	24	30	49
Experimentals					
	OK00611W	32	30	-	53
	OK02522W	31	28	-	53
	OK Bullet 06ERU	30	-	-	54
	OK04505	29	-	-	52
	OK02125	28	-	-	51
	OK05905C	26	-	-	52
Mean		30	29	34	52
LSD _(0.05)		3	2	3	1

(W) = Hard white wheat variety

* Due to extremely dry soil conditions, wheat did not emerge until early 2007.

Balko Variety Trial

Cooperator: **Kenton Patzkowsky**
 Soil type: **Ulysses-Richfield complex**
 Planting date: **10-03-06**

Tillage: **No-till**
 Management: **Grain only**
 Soil test information: **pH = 7.8, P = 119, K = 1642**

Source	Variety	Grain Yield			Test Weight
		2006-07	2-Year	3-Year	2006-07
		-----bu/ac-----			-----lb/bu-----
Kansas	Danby (W)	98	59	-	62
Texas	TAM 111	98	59	56	60
Texas	TAM 112	97	-	-	61
Oklahoma	Endurance	94	53	48	57
Kansas	Lakin	94	54	45	59
Oklahoma	Duster	93	56	-	58
Oklahoma	OK Bullet	92	56	52	60
Kansas	Overley	92	54	50	58
WestBred	Santa Fe	92	54	-	58
Oklahoma	Intrada (W)	91	53	48	60
Kansas	Trego (W)	91	56	50	59
Oklahoma	Guymon (W)	89	53	48	59
Texas	TAM 110	89	53	47	58
Kansas	Fuller	88	-	-	58
AgriPro	Jagalene	87	53	49	58
Johnstons	JEI 110	87	51	-	58
AgriPro	Cutter	86	53	49	59
AgriPro	Fannin	85	49	46	60
Oklahoma	Deliver	84	48	46	59
AgriPro	Doans	84	-	-	60
Kansas	Jagger	84	50	48	56
Oklahoma	Centerfield	83	-	-	57
Oklahoma	Okfield	83	51	47	58
Kansas	Stanton	83	50	46	58
Oklahoma	2174	82	48	44	59
Colorado	Avalanche (W)	81	52	44	59
Agseco	Protection CL	80	-	-	56
WestBred	Shocker	80	-	-	58
Kansas	Ike	78	48	-	59
Experimentals					
	OK05737W	92	-	-	59
	OK02522W	91	-	-	59
	OK Bullet 06ERU	89	-	-	59
Mean		88	53	48	59
LSD _(0.05)		9	5	3	1

(W) = Hard white wheat variety

Buffalo Variety Trial

Cooperator: NRCS

Tillage: Conventional till

Soil type: St. Paul silt loam

Management: Grain only

Planting date: 10-23-06

Soil test information: pH = 5.3, P = 84, K = 623

Source	Variety	Grain Yield			Test Weight
		2006-07	2-Year	3-Year	2006-07
		-----bu/ac-----			-----lb/bu-----
Oklahoma	Duster	65	50	-	56
Oklahoma	Endurance	65	49	46	55
Kansas	Fuller	65	-	-	56
Oklahoma	Deliver	64	48	47	56
WestBred	Santa Fe	64	-	-	55
Oklahoma	OK Bullet	63	48	-	58
AgriPro	Doans	62	-	-	58
Kansas	Overley	62	48	44	57
Texas	TAM 111	60	46	-	56
WestBred	Shocker	58	-	-	56
Kansas	Danby (W)	57	-	-	57
AgriPro	Fannin	57	41	41	56
Johnstons	JEI 110	57	46	-	55
Oklahoma	Centerfield	56	-	-	55
Oklahoma	2174	55	43	40	56
Oklahoma	Okfield	54	42	-	53
Kansas	Jagger	51	42	42	54
Agseco	Protection CL	50	47	-	53
AgriPro	Jagalene	49	41	41	54
AgriPro	Cutter	48	39	40	54
Experimentals					
	OK05737W	63	-	-	57
	OK02522W	62	-	-	57
	OK Bullet 06ERU	61	-	-	58
	OK03522	60	-	-	56
Mean		59	45	43	56
LSD _(0.05)		9	5	3	1

(W) = Hard white wheat variety

Cherokee Variety Trial

Cooperator: Kenneth Failes

Tillage: Conventional till

Soil type: Dale silt loam

Management: Grain Only*

Planting date: 10-17-06

Soil test information: pH = 5.9, P = 63, K = 639

Source	Variety	Grain Yield**			Test Weight
		2006-07	2-Year	3-Year	2006-07
		-----bu/ac----			-----lb/bu-----
Oklahoma	Endurance	40	22	30	51
Oklahoma	2174	36	20	26	51
Kansas	Fuller	35	-	-	52
Oklahoma	Deliver	34	18	23	53
Oklahoma	Centerfield	34	-	-	50
WestBred	Shocker	34	-	-	50
WestBred	Santa Fe	33	21	-	52
Oklahoma	Okfield	32	20	24	50
Kansas	Overley	31	22	30	52
AgriPro	Fannin	30	17	24	52
Oklahoma	OK Bullet	29	20	28	53
AgriPro	Doans	28	-	-	55
Oklahoma	Duster	28	18	-	50
Johnstons	JEI 110	27	18	-	49
Kansas	Danby (W)	26	-	-	53
Agseco	Protection CL	22	-	-	45
Kansas	Jagger	20	20	30	47
AgriPro	Cutter	19	14	25	47
AgriPro	Jagalene	18	16	25	47
AgriPro	Neosho	16	10	-	47
Experimentals					
	OK05737W	32	-	-	50
	OK02522W	30	17	-	52
	OK Bullet 06ERU	29	-	-	52
	OK02125	29	-	-	48
Mean		29	18	27	50
LSD _(0.05)		5	3	3	2

(W) = Hard white wheat variety

*Management was dual-purpose in 2005-06 and 2004-05

** All plots were severely lodged ($\geq 60\%$) prior to harvest

Cimarron County Variety Trial

Cooperator: J.B. Stewart

Tillage: No-till

Management: Grain only

Planting date: 9-29-06

Soil test information: Not Available

Source	Variety	<u>Grain Yield</u>	<u>Test Weight</u>
		2006-07	2006-07
		-----bu/ac-----	-----lb/bu-----
Kansas	Danby (W)	81	61
Oklahoma	Duster	78	60
Oklahoma	OK Bullet	77	61
Texas	TAM 112	76	60
Kansas	Trego (W)	76	61
Oklahoma	Endurance	75	59
AgriPro	Jagalene	73	61
Texas	TAM 110	72	58
Texas	TAM 111	72	60
Colorado	Avalanche (W)	70	62
Kansas	Jagger	67	59
Oklahoma	Intrada (W)	65	62
Mean		74	60
LSD _(0.05)		5	1

(W) = Hard white wheat variety

Elk City Variety Trial

Cooperator: Carl Simon

Tillage: Conventional till

Soil type: Grandfield sandy loam

Management: Dual purpose*

Planting date: 09-27-06

Soil test information: pH = 5.1, P = 48, K = 334

Source	Variety	Grain Yield			Test Weight
		2006-07	2-Year	3-Year	2006-07
		-----bu/ac-----			-----lb/bu-----
Oklahoma	Deliver	63	46	46	59
Kansas	Fuller	61	-	-	60
Oklahoma	OK Bullet	59	50	50	61
AgriPro	Doans	58	-	-	61
WestBred	Santa Fe	56	44	-	60
WestBred	Shocker	56	35	-	60
Kansas	Overley	55	43	45	60
AgriPro	Fannin	54	42	45	58
Oklahoma	Endurance	53	42	42	56
Johnstons	JEI 110	50	38	50	55
Kansas	Danby (W)	48	-	-	59
Oklahoma	Centerfield	46	-	-	56
Oklahoma	2174	45	37	32	58
Oklahoma	Duster	44	37	-	55
Texas	TAM 111	43	-	-	55
Kansas	Jagger	40	38	42	55
Oklahoma	Okfield	38	35	35	53
Agseco	Protection CL	37	-	-	53
AgriPro	Cutter	36	36	41	53
AgriPro	Jagalene	35	35	39	55
Experimentals					
	OK02522W	63	-	-	60
	OK05737W	61	-	-	59
	OK03305	56	-	-	60
	OK Bullet 06ERU	55	-	-	61
Mean		51	39	41	58
LSD _(0.05)		4	3	2	1

* Grazing pressure was very light in 2006-07 and 2005-06

El Reno Variety Trial

Cooperator: Bornemann Farms
 Soil type: Pond creek silt loam
 Planting date: 9-12-06

Tillage: Conventional till and No-till
 Management: Dual purpose
 Soil test information: pH = 6.0, P = 120, K = 355

Source	Variety	Conventional Till							No-till						
		2006-07		Multi-year			Test weight		2006-07		Test weight				
		Dual- purpose*	Grain- only	Diff.	2-Year	3-Year	Dual- purpose	Grain- only	Dual- purpose	Grain- only	Diff.	Dual- purpose	Grain- only		
		----bu/ac----					--lb/bu--				----bu/ac----			--lb/bu--	
AgriPro	Doans	23	21	-2	-	-	54	56	30	28	-2	56	57		
Kansas	Danby (W)	20	23	3	-	-	52	55	17	20	3	49	52		
Oklahoma	Deliver	19	22	3	27	36	52	54	17	20	3	51	54		
Oklahoma	Duster	19	27	8	28	28	50	51	18	26	8	47	51		
Oklahoma	Endurance	19	25	6	26	36	50	56	20	25	5	51	54		
Kansas	Fuller	17	26	9	-	-	50	54	20	30	10	51	54		
Oklahoma	OK Bullet	17	22	5	29	29	52	55	19	28	9	51	56		
Oklahoma	Okfield	16	16	0	26	26	48	50	13	15	2	44	48		
Oklahoma	Centerfield	15	12	-3	-	-	49	51	12	13	1	47	50		
Kansas	Overley	15	32	17	28	35	50	54	19	32	13	52	55		
WestBred	Shocker	15	22	7	-	-	49	51	13	24	11	46	51		
WestBred	Santa Fe	14	22	8	24	-	49	51	14	28	14	48	51		
Texas	TAM 111	13	24	11	25	-	48	53	14	18	4	46	49		
AgriPro	Cutter	12	21	9	24	32	48	52	14	23	9	49	51		
Johnstons	JEI 110	12	22	10	20	12	47	50	12	15	3	44	46		
Oklahoma	2174	11	16	5	21	29	48	52	14	15	1	47	51		
AgriPro	Jagalene	8	18	10	22	30	48	50	12	20	8	49	51		
Kansas	Jagger	8	19	11	21	30	44	49	11	22	11	47	51		
AgriPro	Fannin	7	19	12	15	25	52	54	8	21	13	50	55		
Agseco	Protection CL	7	19	12	-	-	43	46	9	20	11	42	48		
Experimentals															
	OK02522W	18	-	-	27	-	50	-	-	-	-	-	-		
	OK02125	16	-	-	-	-	50	-	-	-	-	-	-		
	OK05737W	15	-	-	-	-	48	-	-	-	-	-	-		
	OK Bullet 06ERU	13	-	-	-	-	47	-	-	-	-	-	-		
Mean		14	21	7	24	29	49	52	15	22	7	48	52		
LSD _(0.05)		4	3	4	5	5	2		3	3	4	2	2		
LSD (CT vs. NT) = 4															

* Dual-purpose plots were grazed from 21 November 2006 to 20 February 2007 for a total of 92 days. Stocking rate was 1.18 head per acre. Average daily gain was 2.39 lb/hd/day for a total average gain of 220 lb per head.

Frederick Variety Trial

Cooperator: Cassidy Farms

Tillage: No till

Soil type: Tillman & Foard Silt Loam

Management: Grain only

Planting date: 10-03-06

Soil test information: pH = 6.9, P = 33, K = 546

Source	Variety	Grain Yield		Test Weight
		2006-07	2-Year*	2006-07
		-----bu/ac-----		-----lb/bu-----
Kansas	Fuller	54	-	58
AgriPro	Doans	53	-	61
Kansas	Overley	53	38	57
Johnstons	JEI 110	51	-	58
AgriPro	Fannin	49	34	59
Oklahoma	Duster	47	-	58
WestBred	Santa Fe	47	-	56
Oklahoma	Endurance	45	34	59
Oklahoma	OK Bullet	45	-	61
WestBred	Shocker	45	-	57
Oklahoma	Centerfield	44	-	60
Oklahoma	Deliver	44	33	60
Agseco	Protection CL	42	-	55
AgriPro	Cutter	41	30	58
Kansas	Danby (W)	41	-	62
Oklahoma	Okfield	40	-	58
Texas	TAM 111	40	-	59
Kansas	Jagger	39	30	55
Oklahoma	2174	35	31	60
AgriPro	Jagalene	34	28	58
Experimentals				
	OK02522W	51	-	60
	OK02125	48	-	58
	OK Bullet 06ERU	45	-	60
	OK05737W	44	-	58
	OK05905C	33	-	60
Mean		44	32	59
LSD _(0.05)		7	5	1

* Variety trial was abandoned in 2005-06 due to extreme drought. 2-Year data is an average of 2004-05 and 2006-07 data

Gage Variety Trial

Cooperator: Curtis Torrance

Tillage: Conventional till

Soil type: St. Paul silt loam

Management: Grain only*

Planting date: 9-14-06

Soil test information: pH = 7.1, P = 56, K = 623

Source	Variety	Grain Yield			Test Weight
		2006-07	2-Year*	3-Year*	2006-07
		-----bu/ac-----			-----lb/bu-----
Kansas	Fuller	55	-	-	58
Kansas	Danby (W)	53	-	-	59
Oklahoma	Endurance	52	32	38	59
Oklahoma	Duster	50	31	-	58
Oklahoma	Deliver	49	31	35	59
Oklahoma	OK Bullet	49	34	34	59
Texas	TAM 111	49	32	38	58
Johnstons	JEI 110	44	28	-	56
Oklahoma	Okfield	43	27	27	56
Kansas	Overley	43	27	35	59
WestBred	Santa Fe	43	28	-	58
AgriPro	Doans	42	-	-	60
Oklahoma	Centerfield	40	26	34	58
AgriPro	Jagalene	40	25	33	57
Oklahoma	2174	38	24	28	58
Kansas	Jagger	38	25	32	57
WestBred	Shocker	38	-	-	59
AgriPro	Cutter	37	-	-	58
AgriPro	Fannin	37	22	30	59
Agseco	Protection CL	36	-	-	56
Experimentals					
	OK Bullet 06ERU	49	-	-	59
	OK02522W	47	-	-	57
	OK05905C	41	-	-	57
Mean		44	26	31	58
LSD _(0.05)		6	3	3	1

*Plots were grazed in 2005-06

Goodwell Irrigated Variety Trial

Cooperator: Oklahoma Panhandle Research & Extension Center

Tillage: No-till

Soil type: Richfield clay loam

Management: Grain only*

Planting date: 9-29-06

Soil test information: Not Available

Source	Variety	Grain Yield		Test Weight
		2006-07	2-Year*	2006-07
		----bu/ac----		----lb/bu----
WestBred	Santa Fe	77	-	61
Kansas	Fuller	76	-	61
Texas	TAM 111	74	84	62
Kansas	Danby (W)	73	-	63
Oklahoma	OK Bullet	73	79	62
Texas	TAM 112	73	-	62
Kansas	Overley	72	82	62
Oklahoma	Duster	69	-	62
AgriPro	Jagalene	69	75	62
Oklahoma	Endurance	68	70	61
Kansas	Jagger	68	81	61
Agseco	Protection CL	68	-	60
Oklahoma	Guymon (W)	67	67	63
Oklahoma	Centerfield	66	-	60
Oklahoma	Deliver	66	71	61
AgriPro	Doans	66	-	63
AgriPro	Fannin	66	74	62
Kansas	Lakin	66	57	61
Oklahoma	Intrada (W)	65	67	64
Colorado	Avalanche (W)	64	65	63
AgriPro	Cutter	64	74	62
Johnstons	JEI 110	64	-	60
WestBred	Shocker	64	-	61
Oklahoma	Okfield	62	65	60
Kansas	Stanton	62	53	61
Oklahoma	2174	61	56	62
Kansas	Trego (W)	61	54	62
Kansas	Ike	60	60	61
Texas	TAM 110	60	63	60
Experimentals				
	OK05737W	71	-	62
	OK Bullet 06ERU	67	-	62
	OK02522W	66	-	61
	OK02125	65	-	61
	OK00611W	64	-	61
Mean		67	61	61
LSD _(0.05)		10	6	1

*Plots were lost due to hail damage in 2005-06; therefore, 2-Year average is the average of 2006-07 and 2004-05

Goodwell Nonirrigated Variety Trial

Cooperator: Oklahoma Panhandle Research & Extension Center

Tillage: No-till

Soil type: Richfield clay loam

Management: Grain only*

Planting date: 9-26-06

Soil test information: pH = 7.6, P = 51, K = 1121

Source	Variety	Grain Yield		Test Weight
		2006-07	2-Year*	2006-07
		----bu/ac----		----lb/bu----
Oklahoma	Duster	84	-	60
Kansas	Fuller	78	-	60
Oklahoma	OK Bullet	78	61	61
Kansas	Stanton	78	52	60
Oklahoma	Endurance	77	57	59
Kansas	Overley	77	59	59
AgriPro	Cutter	76	58	60
AgriPro	Fannin	75	59	61
AgriPro	Jagalene	75	55	60
Texas	TAM 111	75	62	59
Kansas	Danby (W)	73	-	61
Oklahoma	Intrada (W)	73	55	62
Johnstons	JEI 110	73	-	59
Oklahoma	Deliver	72	55	57
Texas	TAM 112	72	-	59
Kansas	Ike	71	55	59
Agseco	Protection CL	71	-	57
WestBred	Santa Fe	71	-	58
Oklahoma	2174	70	52	60
Kansas	Trego (W)	70	47	60
Oklahoma	Guymon (W)	68	51	61
Kansas	Lakin	68	46	58
Texas	TAM 110	68	58	58
Colorado	Avalanche (W)	67	53	61
Kansas	Jagger	67	56	58
WestBred	Shocker	67	-	58
Oklahoma	Okfield	65	49	58
AgriPro	Doans	64	-	61
Oklahoma	Centerfield	58	-	59
Experimentals				
	OK00611W	76	-	61
	OK02522W	75	-	60
	OK Bullet 06ERU	71	-	60
	OK05737W	70	-	60
Mean		72	52	60
LSD _(0.05)		14	9	2

*Plots were lost due to hail damage in 2005-06; therefore, 2-Year average is the average of 2006-07 and 2004-05

Hooker Variety Trial

Cooperator: Ernest Herald

Tillage: Conventional till

Soil type: Dalhart fine sandy loam

Management: Grain only

Planting date: 10-02-06

Soil test information: Not available

Source	Variety	Grain Yield		Test Weight
		2006-07	2-Year	2006-07
		-----bu/ac-----		-----lb/bu-----
Texas	TAM 112	75	-	62
Oklahoma	Duster	72	-	62
Oklahoma	Endurance	70	52	62
Oklahoma	OK Bullet	67	53	62
Texas	TAM 111	65	47	62
Kansas	Danby (W)	62	-	62
Kansas	Jagger	61	47	59
Oklahoma	Intrada (W)	60	44	62
Kansas	Trego (W)	60	48	62
Colorado	Avalanche (W)	59	-	62
AgriPro	Jagalene	58	46	62
Texas	TAM 110	58	48	61
Mean		64	48	62
LSD _(0.05)		6	4	1

(W) = Hard white wheat variety

Kingfisher Variety Trial

Cooperator: Rodney Mueggenborg

Tillage: Conventional till

Soil type: Renfro clay loam

Management: Grain only

Planting date: 10-06-06

Soil test information: pH = 5.8, P = 36, K = 454

Source	Variety	Grain Yield			Test Weight
		2006-07	2-Year	3-Year	2006-07
		-----bu/ac----			-----lb/bu-----
Kansas	Fuller	52	-	-	62
Oklahoma	Duster	52	36	-	61
Kansas	Overley	50	41	45	61
Oklahoma	OK Bullet	50	39	-	62
WestBred	Santa Fe	49	40	-	60
Texas	TAM 111	48	34	-	61
Johnstons	JEI 110	47	38	-	59
Kansas	Danby (W)	47	-	-	63
WestBred	Shocker	46	-	-	61
Oklahoma	Endurance	45	38	43	62
Agseco	Protection CL	44	-	-	57
Oklahoma	Okfield	43	37	-	60
AgriPro	Jagalene	42	36	42	60
AgriPro	Fannin	42	32	38	63
AgriPro	Cutter	42	39	43	61
Kansas	Jagger	40	38	44	58
AgriPro	Doans	40	-	-	63
Oklahoma	Deliver	40	32	36	62
Oklahoma	2174	39	33	37	61
Oklahoma	Centerfield	33	30	-	60
Experimentals					
	OK05737W	53	-	-	59
	OK03522	51	-	-	62
	OK02522W	51	39	-	59
	OK Bullet 06ERU	51	-	-	61
	OK02125	44	-	-	61
Mean		46	36	41	61
LSD _(0.05)		6	4	5	1

(W) = Hard white wheat variety

Marshall Variety Trial

Cooperator: Henry Fuxa

Tillage: Conventional till

Soil type: Kirkland silt loam

Management: Grain only and Dual purpose

Planting date: Dual purpose = 09-05-06; Grain only = 10-09-06

Soil test information: pH = 5.1, P = 60 , K = 384

Source	Variety	Grain Yield									Test Weight	
		2006-07			2-Year*			3-Year			2006-07	
		Dual- purpose	Grain- only	<i>Diff.</i>	Grazed	Non- grazed	<i>Diff.</i>	Grazed	Non- grazed	<i>Diff.</i>	Dual- purpose	Grain- only
-----bu/ac-----												
Oklahoma	Duster	22	32	10	24	34	10	-	-	-	49	51
WestBred	Shocker	21	29	8	-	-	-	-	-	-	45	51
Oklahoma	OK Bullet	21	37	16	26	34	8	-	-	-	51	55
WestBred	Santa Fe	20	32	12	20	33	13	-	-	-	48	50
Oklahoma	Endurance	20	29	9	22	31	9	18	31	13	51	53
AgriPro	Doans	20	36	16	-	-	-	-	-	-	55	59
Oklahoma	Deliver	20	32	12	18	25	7	18	31	13	46	48
Kansas	Fuller	19	40	21	-	-	-	-	-	-	49	53
Texas	TAM 111	18	28	10	18	22	4	-	-	-	44	46
Kansas	Overley	16	28	12	19	31	12	18	35	17	48	56
Kansas	Danby (W)	15	23	8	-	-	-	-	-	-	47	47
AgriPro	Fannin	14	32	18	14	30	16	13	30	17	52	55
AgriPro	Cutter	14	21	7	19	28	9	18	29	11	42	44
Agseco	Protection CL	13	26	13	-	-	-	-	-	-	40	46
Oklahoma	Okfield	12	24	12	16	26	10	-	-	-	44	48
Johnstons	JEI 110	12	31	19	13	29	16	-	-	-	42	49
AgriPro	Jagalene	11	21	10	16	29	13	17	28	11	45	46
Oklahoma	2174	11	23	12	16	26	10	15	28	13	47	51
Kansas	Jagger	9	22	13	15	29	14	14	29	15	45	49
Oklahoma	Centerfield	9	25	16	-	-	-	-	-	-	46	48
Experimentals												
	OK05737W	20	33	13	-	-	-	-	-	-	47	52
	OK Bullet 06ERU	20	37	17	-	-	-	-	-	-	51	54
	OK02522W	19	37	18	20	31	11	-	-	-	48	53
	OK02125	17	31	14	-	-	-	-	-	-	48	50
Mean		16	30	13	18	29	11	16	30	14	47	51
LSD (0.05)			4			4			3		4	2

* Due to insect damage and overall poor growth, the early-sown (normally dual-purpose) plots were not grazed in 2005-06.

** Dual-purpose plots were grazed from 6 December 2006 to 5 March 2007. Average daily gain was 2.67 lb/hd/day. Total gain was 238 lb/steer or 128 lb beef/ac. Grazing data courtesy Dr. Gerald Horn.

Olustee Variety Trial

Cooperator: Larry Bassel

Tillage: Conventional till

Soil type: Foard silt loam

Management: Grain only

Planting date: 10-24-06

Soil test information: pH = 6.5, P = 52, K = 1115

Source	Variety	Grain Yield		Test Weight
		2006-07	2-Year	2006-07
		----bu/ac----		----lb/bu----
Kansas	Overley	64	61	60
Kansas	Fuller	60	-	60
Oklahoma	OK Bullet	59	-	62
WestBred	Santa Fe	59	-	59
Agseco	Protection CL	56	-	57
Johnstons	JEI 110	55	-	58
Kansas	Jagger	54	56	58
WestBred	Shocker	54	-	60
AgriPro	Doans	51	-	62
AgriPro	Fannin	51	46	61
Oklahoma	Endurance	50	51	60
AgriPro	Jagalene	50	54	60
AgriPro	Cutter	48	50	60
Oklahoma	Deliver	48	46	61
Oklahoma	Duster	48	-	58
Oklahoma	2174	47	43	61
Oklahoma	Centerfield	47	-	60
Kansas	Danby (W)	46	-	61
Texas	TAM 111	45	-	59
Oklahoma	Okfield	44	-	57
Experimentals				
	OK03305	61	-	61
	OK02522W	58	-	59
	OK Bullet 06ERU	56	-	61
Mean		53	51	60
LSD _(0.05)		3	3	1

(W) = Hard white wheat variety

Plant height, lodging score, and heading date for selected variety trials in Oklahoma in 2007

Variety	Lodging						Shattering		Plant Height			Heading date*						
	Alva	Balko	Buffalo	Elk City	Marshall GO	Marshall DP	Balko	Buffalo	Buffalo	Kingfisher	Balko	Ei Reno GO	Ei Reno DP	Ei Reno NT GO	Ei Reno NT DP	Lahoma	Stillwater early-sown	Stillwater late-sown
	0 - 10 scale**						inches											
2145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4/18	4/18
2174	1	0	0	6	4	1	0	0	31	35	39	4/21	4/21	4/21	4/21	5/1	4/24	4/24
Avalanche	-	0	-	-	-	-	0	-	-	-	42	-	-	-	-	-	4/24	4/23
Centerfield	3	0	2	4	5	0	1	0	28	36	40	4/20	4/19	4/20	4/18	4/30	4/23	4/23
Custer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4/18	4/7
Cutter	8	0	4	9	10	10	1	0	33	41	42	4/20	4/20	4/20	4/21	5/2	4/24	4/23
Danby	6	0	0	7	10	3	0	0	32	35	43	4/21	4/20	4/21	4/22	5/1	4/23	4/20
Deliver	5	0	4	8	6	0	0	1	28	37	40	4/19	4/17	4/19	4/19	4/28	4/22	4/22
Doans	6	0	1	6	2	0	0	0	31	37	42	4/19	4/17	4/19	4/18	4/27	4/22	4/21
Duster	4	0	2	9	9	2	0	0	31	35	39	4/18	4/17	4/18	4/19	4/29	4/21	4/7
Endurance	3	0	1	7	7	3	0	0	30	38	39	4/20	4/19	4/20	4/18	4/27	4/21	4/18
Fannin	2	0	2	7	9	2	1	5	29	36	38	4/7	4/16	4/16	4/19	4/24	4/5	4/4
Fuller	2	0	1	5	9	0	1	0	30	37	38	4/16	4/17	4/16	4/19	4/30	4/18	4/18
Guymon	-	0	-	-	-	-	0	-	-	-	39	-	-	-	-	-	4/23	4/23
Ike	-	0	-	-	-	-	0	-	-	-	41	-	-	-	-	-	4/30	5/1
Intrada	-	2	-	-	-	-	0	-	-	-	38	-	-	-	-	-	4/22	4/22
Jagalene	6	0	1	8	10	8	0	0	31	36	40	4/18	4/20	4/18	4/21	5/1	4/22	4/21
Jagger	5	1	1	6	9	4	0	0	29	34	39	4/5	4/17	4/5	4/20	4/29	4/18	4/6
JEI 110	2	0	2	7	2	1	0	0	27	33	36	4/21	4/19	4/22	4/21	5/1	4/22	4/21
Lakin	-	0	-	-	-	-	0	-	-	-	40	-	-	-	-	-	4/22	4/18
Neosho	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5/1	4/23	4/23
OK Bullet	1	0	0	1	3	2	0	0	33	39	43	4/19	4/20	4/20	4/21	5/1	4/21	4/21
Ok101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4/22	4/22
Ok102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4/21	4/23
Okfield	4	0	1	7	8	3	0	0	34	42	43	4/21	4/21	4/21	4/21	5/2	4/22	4/20
Overley	2	0	1	1	2	1	1	6	30	38	41	4/5	4/17	4/5	4/20	4/22	4/5	4/4
Protection CL	4	0	1	6	6	4	1	3	31	38	41	4/5	4/18	4/5	4/19	4/24	4/5	4/3
Santa Fe	3	0	0	4	10	5	0	3	30	37	39	4/17	4/19	4/5	4/18	4/29	4/16	4/6
Shocker	2	0	1	6	3	3	0	4	31	36	38	4/5	4/17	4/5	4/20	4/27	4/5	4/4
Stanton	-	0	-	-	-	-	0	-	-	-	44	-	-	-	-	-	4/21	4/21
TAM 110	-	2	-	-	-	-	0	-	-	-	41	-	-	-	-	-	4/6	4/3
TAM 111	1	0	0	7	9	8	0	0	32	40	42	4/21	4/20	4/21	4/21	-	4/24	4/23
TAM 112	-	0	-	-	-	-	0	-	-	-	39	-	-	-	-	-	4/6	4/4
Trego	-	0	-	-	-	-	0	-	-	-	40	-	-	-	-	-	4/23	4/22
OK Bullet 06ERU	1	0	0	1	7	1	0	0	33	37	43	-	4/21	-	4/21	4/29	4/22	4/20
OK00611W	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4/21	4/18
OK02125	2	-	-	-	9	6	-	-	-	39	-	-	4/18	-	-	-	4/18	4/7
OK02522W	1	0	0	0	0	0	1	0	32	39	41	-	4/20	-	-	4/29	4/21	4/18
OK03305	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	4/30	4/21	4/18
OK03522	-	-	3	-	-	-	-	0	28	38	-	-	-	-	-	-	4/5	4/5
OK04505	2	-	-	-	-	-	-	-	-	-	-	-	4/20	-	-	4/30	4/21	4/21
OK05737W	-	0	0	2	3	0	0	0	31	37	43	-	-	-	-	-	4/17	4/18
OK05905C	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4/21	4/21

*A heavy freeze occurred the weekend of 5 April 2007. Phenological development was very slow during the two weeks following the freeze, which resulted in a larger-than-normal interval between heading of early and late-maturing varieties.

** Scale of 0-10 with 0 representing no lodging or shattering and 10 representing 100 % lodging or shattering

Protein content (12% moisture base) of winter wheat varieties in the 2006-07 OSU wheat variety performance tests

Variety	Alva	Balko	Buffalo	Cherokee	Cimarron County	Elk City	El Reno Conv Till DP	El Reno Conv Till GO	El Reno No-Till DP	El Reno No-Till GO	Frederick	Gage	Goodwell Irrigated	Goodwell Non-irr.	Hooker	Kingfisher	Olustee
	-----protein (12% mb)-----																
2174	10.6	8.4	9.3	11.6	-	10.6	11.8	12.9	12.6	13.4	12.5	9.0	10.8	9.4	-	12.0	11.1
Avalanche (W)	-	8.1	-	-	10.7	-	-	-	-	-	-	-	9.4	10.2	10.3	-	-
Centerfield	10.6	8.6	9.0	11.4	-	10.8	11.9	13.0	12.8	13.1	11.7	8.7	10.5	10.6	-	12.5	10.8
Cutter	10.8	7.9	8.2	11.0	-	11.4	11.2	10.8	12.1	12.0	10.8	7.8	9.9	10.2	-	9.6	10.0
Danby (W)	10.5	7.5	7.4	10.5	10.1	9.6	10.6	10.7	11.2	11.7	10.8	7.4	9.6	9.2	9.7	9.6	9.8
Deliver	10.3	8.0	8.1	10.6	-	9.9	10.7	11.9	11.1	11.7	11.1	8.1	9.8	8.7	-	11.6	10.0
Doans	11.0	7.8	8.8	10.8	-	11.0	10.7	12.3	11.5	12.1	11.3	8.7	9.6	10.4	-	11.9	10.9
Duster	10.1	7.5	8.3	10.7	10.6	10.8	10.4	11.2	11.3	11.4	11.6	8.3	10.2	9.5	9.8	9.6	10.4
Endurance	10.1	7.3	7.6	9.7	10.2	9.7	10.4	11.2	11.3	11.7	11.7	7.4	8.6	9.0	9.1	10.1	10.3
Fannin	11.1	7.2	8.7	10.8	-	11.1	11.6	12.2	12.4	12.9	12.1	8.3	10.3	9.0	-	11.4	10.2
Fuller	11.7	7.8	8.3	10.9	-	10.4	10.9	11.7	12.1	12.1	10.5	8.8	10.2	9.2	-	10.8	9.8
Guymon (W)	-	8.3	-	-	-	-	-	-	-	-	-	-	10.0	9.7	-	-	-
Ike	-	7.9	-	-	-	-	-	-	-	-	-	-	10.7	10.7	-	-	-
Intrada (W)	-	8.1	-	-	10.4	-	-	-	-	-	-	-	9.6	9.6	9.6	-	-
Jagalene	10.6	7.6	7.4	10.8	10.8	10.7	11.4	11.1	11.8	11.8	10.6	7.5	10.5	9.7	8.7	9.4	9.3
Jagger	11.1	8.2	7.9	11.4	11.1	10.9	12.0	11.9	12.4	12.7	12.1	8.2	9.8	10.8	9.5	10.9	9.6
JEI 110	11.6	8.6	8.6	12.0	-	11.0	12.1	12.6	13.3	14.3	11.1	8.9	10.8	9.7	-	10.8	11.1
Lakin (W)	-	7.7	-	-	-	10.7	-	-	-	-	-	-	9.0	10.1	-	-	-
Neosho	-	-	-	11.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OK Bullet	11.6	8.7	8.2	11.0	11.4	10.1	11.4	11.4	11.6	12.0	12.3	8.2	11.0	9.9	10.3	10.5	10.0
Okfield	10.4	7.9	8.3	10.2	-	10.6	10.4	11.5	11.8	11.7	10.8	8.3	9.9	10.1	-	10.5	10.3
Overley	10.7	8.2	8.7	10.5	-	10.2	11.0	10.8	11.7	11.4	10.5	8.8	10.6	9.8	-	10.0	9.4
ProtectionCL	10.5	7.9	8.3	10.7	-	10.3	11.5	11.6	12.5	12.1	10.9	8.4	9.5	9.8	-	10.0	9.5
Santa Fe	11.8	8.2	8.8	11.0	-	11.1	11.4	11.4	12.0	12.3	12.6	8.8	10.3	10.2	-	9.7	9.8
Shocker	11.4	8.6	9.0	11.5	-	-	11.3	12.0	12.4	12.7	11.6	9.1	11.2	11.0	-	11.6	10.7
Stanton	-	7.1	-	-	-	-	-	-	-	-	-	-	9.6	9.3	-	-	-
TAM 110	-	7.6	-	-	10.3	-	-	-	-	-	-	-	9.2	9.9	8.9	-	-
TAM 111	10.8	7.4	7.9	-	11.1	9.9	10.9	11.1	11.6	12.2	11.5	7.7	9.5	10.2	9.2	9.5	10.4
TAM 112	-	7.6	-	-	10.5	-	-	-	-	-	-	-	9.8	10.0	9.2	-	-
Trego (W)	-	8.2	-	-	10.1	-	-	-	-	-	-	-	9.3	9.6	9.3	-	-
OK Bullet 06ERU	12.1	8.1	8.1	11.0	-	10.9	11.1	-	-	-	12.1	8.7	10.8	11.2	-	10.2	11.1
OK00611W	12.3	-	-	-	-	-	-	-	-	-	-	-	10.5	9.6	-	-	-
OK02125	10.5	-	-	11.3	-	-	10.7	-	-	-	11.9	-	10.2	-	-	10.7	-
OK02522W	11.9	8.7	9.2	11.3	-	10.5	11.4	-	-	-	12.1	9.0	10.7	10.0	-	9.8	10.1
OK03305	-	-	-	-	-	9.9	-	-	-	-	-	-	-	-	-	-	9.4
OK03522	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	10.0	-
OK04505	11.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OK05737W	-	8.0	8.8	11.7	-	10.6	11.7	-	-	-	12.4	-	10.6	9.9	-	9.5	-
OK05905C	11.2	-	-	-	-	-	-	-	-	-	12.5	8.5	-	-	-	-	-
Mean	11.0	8.0	8.4	11.0	10.6	10.5	11.2	11.7	12.0	12.2	11.6	8.4	10.1	9.9	9.5	10.5	10.2
LSD	0.5	NS	0.7	0.8	NS	0.4	0.7	0.8	0.6	0.7	1.1	0.7	0.7	NS	0.7	1.1	0.7

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