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2017-2018 Small Grains Variety Performance Tests

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Wheat Crop Overview

At the time of writing this report, 2018 Oklahoma wheat production is estimated to be 52.0 million bushels, which is 47 percent less than the 2017 production (Table 1) and 62 percent less than the 2016 production. The lower total grain production is the result of less wheat acres harvested across the state, primarily from abandonment due to drought or baled for hay, and the below-average yield. The 4.3 million planted acres was only down 4 percent compared to the previous year, but that was still 18 percent lower than the previous 10-year average. Number of harvested acres is estimated at 2.0 million, which is 31 percent less than in 2017 (Table 1), and the lowest number in the state since 1913. The statewide average yield is projected at 26 buushels per acre. This is 8 bu/ac (24 percent) less than the 2017 state average and 3.6 bu/ac (12 percent) less than the previous ten-year average.

Table 1. Oklahoma wheat production for 2017 and 2018 as estimated by USDA NASS, June 2018.

	2017	*2018*
Harvested Acres	2.9 million	2.0 million
Yield (bu/ac)	34	26
Total bushels	98.6 million	52.0 million

The 2017-2018 wheat growing season was a fight from start to finish for many producers across the state. The growing season got an early start due to an unusual August for Oklahoma. Temperatures were below normal, and rainfall totals were above normal for the month. This prompted producers interested in targeting fall forage to begin planting at the end of August. Planting continued to move rapidly through the Labor Day weekend, and most of the wheat during this time was sown into adequate soil moisture and emerged rapidly. Those producers who waited until after Labor Day to plant saw more unfavorable conditions as temperatures rose, and available soil moisture quickly dried up. Wheat planted during this time was "dusted-in" and finally received precipitation toward the end of the month into the beginning of October to get the seed to germinate. Wheat planting intended for grain-only was stalled during the average timeframe of early to mid-October due to these precipitation events. Once the ground dried enough, most producers were able to quickly make up time and get the crop planted, but some needed until November to finish.

After mid-October, the rain quit falling for the remainder of the calendar year. Crop conditions during the early part of the season were average but quickly deteriorated as the season progressed. This also led to a disappointing fall forage production and grazing season for most producers. Those who planted during late August to early September and were able to protect the crop from fall armyworm achieved good stands and had some available pasture later in the fall. However, those who waited until after Labor Day or later to plant were not as fortunate. The later planting and lack of precipitation resulted in low total fall forage production or no available pasture at all.

Drought conditions and average to below average temperatures persisted throughout January into February. Even for the producers who had available fall pasture, the drought conditions limited the overall number of days of grazing.

Some precipitation finally fell in parts of the state during late February into early March. For many fields, this was the first precipitation received since planting. Below average temperatures were observed coming out of winter, and plants broke winter dormancy later than normal. Below average temperatures persisted, resulting in slow overall growth and development during this time. The first hollow stem growth stage was reached for many varieties during the second to third week of March, which was 7 to 10 days later than normal. Unfortunately, the rain received during late February to early March was not quite enough to give any grazed wheat the boost it needed to recover well.

Overall growth and development continued at a slower than normal pace due to the second coldest April on record. Three separate and widespread freeze events also occurred during the first week of April, resulting in significant injury in some areas. Most wheat headed during mid- to late April because of the cooler temperatures, with this being 7 to 14 days behind normal. The prevailing thought was that this would translate into a later than normal harvest. However, the cold

temperatures in April were followed by the warmest May on record. The warm temperatures and lack of rainfall advanced the crop quickly at this point, resulting in suboptimal conditions for the grain-fill period.

Most wheat was mature in southwestern Oklahoma by the end of May and by the beginning of June in the central to northern parts of the state. Producers for the most part were not delayed by rainfall events, and with the dry weather during June, much of the wheat was harvested timely and quickly. Overall, harvest was almost complete in the state by late June.

Yields throughout Oklahoma were variable depending on location but were below average overall. Part of this variability was due to overgrazing and whether an area caught or missed a rainfall event during early spring. Field averages of 15 to 30 bushels per acre were the norm across much of the state, but higher averages, even into the 50 to 60 bushels per acre range, were not uncommon in some areas that received timely rainfall. Test weights throughout harvest remained at or above 60 pounds per bushel for early-harvested fields and did not drop much below the upper 50s towards the end of harvest. Protein content also remained at or above acceptable levels.

Different insects were a concern at times during the growing season, but few were widespread or season-long outside of the fall armyworm. Unless treated, the fall armyworm devastated those producers who planted in late August into early September. Many fields had to be replanted, and some producers commented that this was the worst that they had ever observed. Unfortunately, some reports indicated the fall armyworm was still causing damage into early November. The dry weather experienced across the state through the winter provided ideal conditions for winter grain mite and brown wheat mite to thrive on wheat plants coming out of winter dormancy, and there were some reports of fields warranting control. Aphids were not really on the radar screen of most producers until mid-March, but this pest was still not the limiting factor as observed in other years. Despite the low aphid numbers, Barley Yellow Dwarf (BYD) was evident in some fields as flag leaves and heads started to emerge. While there was quite a bit of leaf purpling and yellowing associated with BYD, there was not much stunting observed, with stunting resulting from “hot spots” of aphid pressure with early-season transmission of the virus. Wheat Streak Mosaic (WSM), transmitted by the wheat curl mite, was an issue again for producers in southwestern Oklahoma, but the overall impact of WSM was not as much as the 2016-2017 crop season. Reasons for this were related to later planting and emergence of some wheat; additionally, fields which may have had WSM were abandoned due to the drought or cut and baled for hay before symptoms could be observed.

Diseases were at low levels overall during the season, primarily due to the drought conditions. Parts of central to southcentral Oklahoma did experience low levels of powdery mildew, leaf rust, and stripe rust. In some cases, powdery mildew could be observed high in the canopy. For the remainder of the state, it was difficult to find foliar diseases, especially during stem elongation into the grain-fill period. One disease more prominent than in years past was Fusarium foot dry (dryland root rot). Signs and symptoms of this disease appeared suddenly during early May as hot temperatures returned and as the crop progressed through grain-fill. However, symptoms of this disease can appear similar to symptoms of premature death caused by freeze, drought, and other conditions. In parts of the northwest and panhandle regions, symptoms of dryland root rot may have been confused with symptoms caused by the drought and/or freeze, whereas in others (such as the wheat variety trial at Lahoma), damage caused by the April freeze events was expressed distinctly earlier. Because of the impact that leaf rust and stripe rust have had over the past several years, producers were ready to apply a foliar fungicide to susceptible varieties, but unfavorable conditions for disease development did not warrant an application in most cases. Variety trial results from Apache and Lahoma indicated that producers in these areas were justified in not spraying, as no evidence of a positive response to a fungicide application was found. However at Chickasha where low to medium levels of leaf and stripe rust and medium to high levels of powdery mildew were present, the two fungicide applications implemented at this location contributed to protecting the yield potential for a number of varieties compared to the non-treated plots of those same varieties.

Testing 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 a fungicide, but the formulation and rate of seed treatment used was not confirmed or reported in this document.

Conventional-till plots were eight rows wide with six-inch row spacing and were sown with a Hege small-plot cone seeder. No-till plots were seven rows wide with 7.5-inch row spacing and were sown with a Great Plains no-till drill modified for cone-seeded, small-plot research. With the exception of dryland locations in the Panhandle, plots were planted 25 feet long and trimmed to 19 feet at harvest with the plot combine. Panhandle dryland locations were 35 feet long at planting and trimmed to 29 feet at harvest. Wheel tracks were included in the plot area for yield calculation, for a total plot width of 60 inches. Experimental design for all sites other than Apache and Lahoma was a randomized complete block with four replications. Apache and Lahoma were a split-plot arrangement of a randomized complete block with four replications where whole plots were fungicide treated or non-treated, and sub-plots were wheat variety.

Conventional-till plots received 50 pounds per bushel of 18-46-0 in-furrow at planting. No-till plots received 5 gallons per acre of 10-34-0 at planting. The Marshall dual-purpose (DP) trial, Union City, Walters, and forage trials were sown at 120 pounds per acre. The Panhandle irrigated and dryland locations were sown at 90 and 45 lb/ac, respectively. All other locations were sown at 60 pounds per acre. Grazing intensity, 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 or Winterstieger Delta small plot combine. Grain weight, test weight, and moisture content were collected from each plot, and grain yields were corrected to 12 percent moisture content. Grain moisture at all sites was generally below 12 percent, and maximum and minimum grain moisture for all plots at a location typically ranged no more than 2 percent.

Data Interpretation

Yield and test weight data for each location and regional summary were analyzed using the appropriate statistical methods. At the bottom of each table, the mean and least significant difference (LSD) values are reported. The LSD is a test statistic that aids in determining whether there is a true difference in yield or test weight. In this report, one can be 95% confident that the difference between two varieties is real if the difference is equal to or greater than the LSD value. Data that is not significant is indicted by "NS." For example, if the LSD value is 4 bu/ac in a trial which Variety A yielded 30 bu/ac and Variety B yielded 26, then Variety A would be considered to have a statistically higher yield. However, if Variety C yielded 27 bu/ac, then Variety A and Variety C would be considered to have a similar yield. In that same example trial, there is a 5% chance that the 4 bu/ac difference between Variety A and Variety B does not truly exist, but random chance caused the 5 bushel difference. These chance factors may include differences in fertility, moisture availability, and diseases for example. To aid in determining the varieties with the highest yields and test weights, values highlighted in gray do not differ statistically from the highest value within a column. The performance of a variety may vary from year to year, even at the same location. Tests over two or more years and over multiple locations more accurately predict the variety performance.

Additional Information on the Web

A copy of this publication as well as additional information about wheat management can be found at:

Website: www.wheat.okstate.edu

Blog: www.osuwheat.com


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2017-2018 Oklahoma Wheat Variety Performance Tests Summary.

Source	Variety	Afton	Altus	Alva	Apache	Apache Fungicide	Balko	Buffalo	Cherokee	Chickasha	Chickasha IWM	Goodwell Irrigated	Goodwell Homestead
		grain yield (bu/ac)											
AGSECO	AG Gallant	-	-	-	-	-	-	-	-	51	77	72	-
AGSECO	AG Icon	-	21	-	31	35	-	-	-	52	68	87	-
AgriMAXX	AM Eastwood	-	9	-	-	-	-	-	-	50	74	74	-
OGI	Bentley	29	24	17	38	35	40	37	32	48	80	75	14
AgriPro	Bob Dole	-	7	16	-	-	-	-	30	57	75	78	13
CROPLAN	CP78-26	-	19	-	-	-	-	-	-	62	67	82	-
OGI	Doublestop CL Plus	46	16	17	36	36	33	28	34	55	71	75	13
OGI	Duster	29	14	13	29	30	33	-	25	49	66	91	14
KWA	Everest	42	-	-	-	-	-	-	-	-	-	-	-
OGI	Gallagher	-	13	11	24	25	37	27	22	64	78	88	17
OGI	Iba	-	15	12	34	33	24	31	31	65	74	81	22
KWA	Joe	45	18	17	46	45	44	36	34	58	77	87	13
PlainsGold	Langin	-	11	14	-	-	24	34	36	59	71	81	-
KWA	Larry	-	21	16	-	-	46	29	37	63	76	85	12
LCS	LCS Avenger	-	17	-	-	-	-	-	-	48	59	84	-
LCS	LCS Chrome	37	20	16	38	36	30	35	32	50	58	80	10
LCS	LCS Mint	36	8	15	34	36	40	-	30	53	74	83	16
LCS	LCS Pistol	28	14	14	30	32	43	-	30	47	61	87	15
OGI	Lonerider	33	13	11	25	25	35	27	22	63	78	90	15
Dyna-Gro	Long Branch	-	20	14	35	37	45	-	25	35	52	96	-
OGI	NF 101	-	9	-	25	24	-	-	-	56	70	53	-
KWA	Oakley CL	-	20	16	-	-	51	32	29	55	64	82	-
OGI	Ruby Lee	51	17	14	32	29	30	-	25	60	73	78	13
OGI	Smith's Gold	47	19	16	29	33	32	27	23	63	81	82	15
OGI	Spirit Rider	-	10	-	-	-	-	-	-	57	77	80	15
OGI	Stardust	50	11	-	-	-	-	-	-	57	79	73	17
AgriPro	SY Achieve CL2	-	10	9	-	-	-	-	20	56	69	70	15
AgriPro	SY Benefit	40	7	-	30	32	-	-	-	52	75	80	20
AgriPro	SY Flint	33	13	-	35	36	-	-	-	55	74	83	17
AgriPro	SY Grit	-	15	11	27	30	24	26	31	58	80	84	15
AgriPro	SY Monument	45	-	16	-	-	33	-	37	-	-	90	16
AgriPro	SY Rugged	-	14	16	30	31	37	32	24	57	67	78	-
LCS	T158	44	12	13	30	31	35	-	21	61	75	70	11
Watley	TAM 112	-	20	15	-	-	25	-	37	52	67	79	-
AGSECO	TAM 114	-	4	11	-	-	34	26	34	67	81	92	-
Watley	TAM 204	38	10	11	20	22	31	-	27	40	62	80	13
WestBred	WB4269	57	27	-	-	-	-	-	-	63	78	80	-
WestBred	WB4303	19	22	11	31	28	34	-	24	46	72	85	16
WestBred	WB4458	34	12	12	27	28	37	-	33	59	77	83	13
WestBred	WB4515	35	24	-	-	-	-	-	-	60	74	67	17
WestBred	WB4721	-	19	18	39	35	30	34	33	53	71	83	14
WestBred	WB-Grainfield	37	11	13	42	41	36	-	32	56	79	87	10
WestBred	Winterhawk	-	17	14	-	-	38	34	27	60	78	85	-
KWA	Zenda	42	9	-	-	-	-	-	-	59	71	77	10
OSU Experimentals													
	OCW03S580S-8F	36	-	-	-	-	-	-	-	-	-	-	-
	OCW04S717T-6W	49	7	-	29	27	-	-	24	73	75	-	8
	OCW05S616T-2	43	-	6	28	27	37	28	27	64	73	75	21
	OK12206-2	41	5	6	20	19	37	28	17	62	74	73	10
	OK12716	-	20	9	35	34	46	33	31	51	69	78	13
	OK12D22004-016	51	-	-	-	-	41	-	-	71	77	81	-
	OK13209	-	23	-	33	32	-	-	-	55	70	-	10
	OK13621	-	11	8	-	-	35	24	28	66	73	77	-
	OK14319	45	-	-	-	-	-	-	-	-	-	-	-
	OK14438	57	-	-	-	-	-	-	-	-	-	-	-
	OK14P212	-	22	11	-	-	32	39	34	-	-	80	15
	OK168513	-	-	11	-	-	38	31	-	-	-	74	-
	Mean	**41**	**15**	**13**	**31**	**31**	**36**	**31**	**29**	**57**	**72**	**80**	**14**
	LSD (0.05)	**7**	**7**	**6**	**6**	**5**	**6**	**7**	**11**	**10**	**9**	**12**	**7**

Notes: Shaded values are not statistically different from the highest value within a column.

2017-2018 Oklahoma Wheat Variety Performance Tests Summary. (cont'd)

Source	Variety	Hooker	Keyes	Kildare	Kingfisher	Lahoma	Lahoma Fungicide	Lamont	Marshall Dual-Purpose	Marshall Grain-Only	Thomas	Union City	Walters
		grain yield (bu/ac)											
AGSECO	AG Gallant	-	-	-	-	42	42	-	-	-	-	-	-
AGSECO	AG Icon	-	-	-	-	34	29	-	15	38	-	-	-
AgriMAXX	AM Eastwood	-	-	-	-	26	26	-	-	-	-	-	-
OGI	Bentley	38	35	42	20	48	48	33	14	37	23	27	63
AgriPro	Bob Dole	-	-	36	-	20	19	33	13	39	-	-	-
CROPLAN	CP78-26	-	-	-	-	41	39	-	-	-	-	-	-
OGI	Doublestop CL Plus	35	31	43	8	35	33	36	15	29	22	26	67
OGI	Duster	37	30	31	13	26	25	22	14	37	13	13	63
KWA	Everest	-	-	-	-	-	-	-	-	-	-	-	-
OGI	Gallagher	32	26	26	14	35	35	19	8	32	15	7	56
OGI	Iba	33	29	36	13	30	27	30	15	37	14	23	68
KWA	Joe	38	36	43	9	32	35	30	16	38	24	-	72
PlainsGold	Langin	45	32	-	-	39	40	-	-	-	-	-	-
KWA	Larry	35	29	-	11	30	27	35	-	-	17	-	-
LCS	LCS Avenger	-	-	-	-	29	34	-	-	-	-	-	-
LCS	LCS Chrome	33	23	42	13	35	30	31	16	35	16	21	69
LCS	LCS Mint	41	34	39	13	37	36	34	-	-	23	12	52
LCS	LCS Pistol	36	26	-	14	35	32	23	-	-	15	15	57
OGI	Lonerider	34	28	-	8	30	27	21	-	-	16	19	60
Dyna-Gro	Long Branch	42	35	-	-	39	45	-	19	30	21	-	47
OGI	NF 101	-	-	-	-	22	24	-	-	-	-	8	43
KWA	Oakley CL	36	35	-	-	32	30	-	-	-	-	-	-
OGI	Ruby Lee	37	28	37	18	45	47	31	13	37	17	15	51
OGI	Smith's Gold	34	27	31	10	35	34	24	12	36	18	11	62
OGI	Spirit Rider	-	-	34	-	33	35	26	-	-	-	-	-
OGI	Stardust	-	-	35	-	37	28	28	10	36	-	-	-
AgriPro	SY Achieve CL2	-	-	34	10	27	24	28	5	39	14	-	-
AgriPro	SY Benefit	-	-	32	9	33	32	24	-	-	15	16	50
AgriPro	SY Flint	-	-	-	8	28	21	33	-	-	11	18	59
AgriPro	SY Grit	31	26	-	6	22	19	28	18	36	17	21	62
AgriPro	SY Monument	40	34	38	11	25	23	29	-	-	18	-	-
AgriPro	SY Rugged	30	31	-	10	28	25	-	14	33	18	12	65
LCS	T158	32	27	-	12	38	39	26	17	35	13	17	63
Watley	TAM 112	36	34	-	-	40	41	-	-	-	-	-	-
AGSECO	TAM 114	33	29	-	-	29	30	-	-	-	-	-	-
Watley	TAM 204	27	21	24	12	33	27	16	14	40	15	10	-
WestBred	WB4269	-	-	42	-	49	53	35	15	44	-	-	-
WestBred	WB4303	30	26	32	8	28	27	31	9	41	17	13	67
WestBred	WB4458	38	25	35	7	31	29	26	-	-	19	13	45
WestBred	WB4515	-	-	-	9	35	33	34	18	39	28	18	-
WestBred	WB4721	31	27	-	-	39	40	-	15	35	16	20	56
WestBred	WB-Grainfield	40	33	38	10	28	27	26	-	-	17	26	55
WestBred	Winterhawk	36	30	-	-	27	28	-	-	-	-	-	-
KWA	Zenda	-	-	28	-	27	30	30	-	-	-	-	-
OSU Experimentals													
	OCW03S580S-8F	-	-	-	-	-	-	-	-	-	-	-	-
	OCW04S717T-6W	-	-	-	5	23	23	25	9	34	-	-	-
	OCW05S616T-2	31	34	31	7	22	23	22	10	39	11	9	63
	OK12206-2	32	-	-	7	20	20	-	11	32	9	8	-
	OK12716	36	30	38	10	31	29	24	17	32	17	18	68
	OK12D22004-016	-	-	32	11	28	25	26	-	-	17	-	-
	OK13209	-	-	-	9	32	32	33	-	-	17	17	59
	OK13621	36	-	-	8	31	31	25	-	-	-	-	-
	OK14319	-	-	-	7	25	21	-	14	39	-	23	-
	OK14438	-	-	-	-	-	-	-	-	-	-	-	-
	OK14P212	37	34	-	-	-	-	-	17	40	14	21	-
	OK168513	34	32	-	-	-	-	-	-	-	-	-	-
	Mean	**35**	**30**	**35**	**10**	**32**	**31**	**28**	**14**	**36**	**17**	**16**	**59**
	LSD (0.05)	**6**	**4**	**6**	**3**	**8**	**8**	**6**	**6**	**5**	**6**	**6**	**10**

Notes: Shaded values are not statistically different from the highest value within a column.

2017-2018 Oklahoma Wheat Variety Performance Tests Region Summary.

Licensee	*Variety*	*Statewide*	*Central*	*North Central*	*Northwest*	*Panhandle*	*Southwest*
			grain yield (bu/ac)				
AGSECO	AG Gallant	-	-	-	-	-	-
AGSECO	AG Icon	48	-	-	-	-	-
AgriMAXX	AM Eastwood	43	-	-	-	-	-
OGI	Bentley	54	40	34	28	48	40
AgriPro	Bob Dole	43	-	25	- -	-	
CROPLAN	CP78-26	52	-	-	- -	-	
OGI	Doublestop CL Plus	47	36	29	27	44	39
OGI	Duster	46	31	24	-	47	34
KWA	Everest	-	-	-	-	-	-
OGI	Gallagher	52	37	24	20	46	29
OGI	Iba	49	38	28	24	42	38
KWA	Joe	51	-	30	29	51	46
PlainsGold	Langin	50	-	-	28	46	-
KWA	Larry	50	-	-	27	49	-
LCS	LCS Avenger	45	-	-	-	-	-
LCS	LCS Chrome	46	32	28	28	41	41
LCS	LCS Mint	48	35	-	-	50	32
LCS	LCS Pistol	46	30	-	-	48	33
OGI	Lonerider	50	36	-	20	46	31
Dyna-Gro	Long Branch	48	-	-	-	54	34
OGI	NF 101	39	-	-	-	-	25
KWA	Oakley CL	47	-	-	25	51	-
OGI	Ruby Lee	53	37	32	-	43	32
OGI	Smith's Gold	52	36	27	21	44	35
OGI	Spirit Rider	49	-	-	-	-	-
OGI	Stardust	48	-	27	-	-	-
AgriPro	SY Achieve CL2	43	-	25	-	-	-
AgriPro	SY Benefit	46	33	-	-	-	30
AgriPro	SY Flint	46	33	-	-	-	36
AgriPro	SY Grit	46	36	-	22	41	33
AgriPro	SY Monument	-	-	-	-	49	-
AgriPro	SY Rugged	45	33	-	24	44	35
LCS	T158	50	36	-	-	41	34
Watley	TAM 112	49	-	-	-	43	-
AGSECO	TAM 114	52	-	-	24	47	-
Watley	TAM 204	42	28	24	-	40	25
WestBred	WB4269	58	-	-	-	-	-
WestBred	WB4303	46	32	26	-	44	36
WestBred	WB4458	49	35	-	-	46	28
WestBred	WB4515	48	38	-	-	-	-
WestBred	WB4721	51	-	-	28	43	37
WestBred	WB-Grainfield	48	37	-	-	49	37
WestBred	Winterhawk	49	-	-	25	47	-
KWA	Zenda	45	-	-	-	-	-
OSU Experimentals							
	OCW03S580S-8F	-	-	-	-	-	-
	OCW04S717T-6W	-	-	-	-	-	-
	OCW05S616T-2	-	33	23	20	44	-
	OK12206-2	42	32	-	17	-	23
	OK12716	46	33	26	24	48	39
	OK12D22004-016	-	-	-	-	-	-
	OK13209	-	34	-	-	-	36
	OK13621	48	-	-	20	-	-
	OK14319	-	-	-	-	-	-
	OK14438	-	-	-	-	-	-
	OK14P212	-	-	-	28	46	-
	OK168513	-	-	-	-	45	-
	Mean	**48**	**34**	**27**	**24**	**46**	**34**
	LSD (0.05)	**5**	**4**	**3**	**5**	**4**	**4**

Statewide Region

Licensee	*Variety*	*Grain Yield 2017-18*	*Test Weight 2017-18*
		----bu/ac----	*----lb/bu----*
WestBred	WB4269	58	58.6
OGI	Bentley	54	57.0
OGI	Ruby Lee	53	59.6
OGI	Smith's Gold	52	59.1
OGI	Gallagher	52	57.9
CROPLAN	CP78-26	52	57.2
AGSECO	TAM 114	52	59.6
KWA	Joe	51	58.2
WestBred	WB4721	51	60.0
PlainsGold	Langin	50	58.4
KWA	Larry	50	58.3
OGI	Lonerider	50	56.6
LCS	T158	50	58.8
Watley	TAM 112	49	59.5
WestBred	Winterhawk	49	59.8
OGI	Spirit Rider	49	58.9
OGI	Iba	49	59.5
WestBred	WB4458	49	58.9
Dyna-Gro	Long Branch	48	55.6
LCS	LCS Mint	48	59.0
AGSECO	AG Icon	48	57.4
WestBred	WB-Grainfield	48	58.4
WestBred	WB4515	48	59.7
OGI	Stardust	48	59.0
OGI	Doublestop CL Plus	47	60.1
KWA	Oakley CL	47	58.1
AgriPro	SY Benefit	46	58.5
WestBred	WB4303	46	55.8
AgriPro	SY Grit	46	56.9
LCS	LCS Pistol	46	57.6
AgriPro	SY Flint	46	59.6
OGI	Duster	46	58.4
LCS	LCS Chrome	46	56.9
KWA	Zenda	45	59.0
LCS	LCS Avenger	45	56.2
AgriPro	SY Rugged	45	57.6
AgriMAXX	AM Eastwood	43	57.6
AgriPro	Bob Dole	43	57.3
AgriPro	SY Achieve CL2	43	58.5
Watley	TAM 204	42	53.9
OGI	NF 101	39	58.1
OSU Experimentals			
	OK13621	48	59.3
	OK12716	46	57.5
	OK12206-2	42	55.0
	Mean	**48**	**58.1**
	LSD (0.05)	**5**	**0.7**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Data for varieties reported from the Altus, Chickasha, Chickasha Intensive Management, Goodwell Irrigated, Lahoma and Lahoma Fungicide trials are included in this analysis.

Central Region

Licensee	*Variety*	*Grain Yield 2017-18*	*Test Weight 2017-18*
		----bu/ac----	*----lb/bu----*
OGI	Bentley	40	58.5
WestBred	WB4515	38	60.1
OGI	Iba	38	60.6
WestBred	WB-Grainfield	37	58.8
OGI	Ruby Lee	37	60.1
OGI	Gallagher	37	58.7
OGI	Smith's Gold	36	59.8
OGI	Lonerider	36	58.1
AgriPro	SY Grit	36	58.1
OGI	Doublestop CL Plus	36	60.8
LCS	T158	36	59.3
WestBred	WB4458	35	59.6
LCS	LCS Mint	35	59.8
AgriPro	SY Benefit	33	59.9
AgriPro	SY Flint	33	60.8
AgriPro	SY Rugged	33	58.8
LCS	LCS Chrome	32	57.2
WestBred	WB4303	32	57.2
OGI	Duster	31	59.0
LCS	LCS Pistol	30	58.2
Watley	TAM 204	28	54.7
OSU Experimentals			
	OK13209	34	59.6
	OCW05S616T-2	33	59.6
	OK12716	33	58.4
	OK12206-2	32	56.5
	Mean	**34**	**58.9**
	LSD (0.05)	**4**	**0.7**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Data for varieties reported from the Chickasha, Chickasha Intensive Management, Kingfisher, Thomas and Union City trials are included in this analysis.

Chickasha Regional Wheat Variety Trial

Planting & harvest dates: 10/30/17 & 6/6/18
Management: Grain-only, conventional tillage

Previous crop: Austrian winter pea
Soil type: Dale silt loam

Soil test: pH = 7.3, P = 148, K = 337
Nitrogen: 90 lbs/ac soil test + 9 lbs/ac at planting

Licensee	Variety	Grain Yield 2017-18	Grain Yield 2-Year	Grain Yield 3-Year	Test Weight 2017-18	Lodging 2017-18
		----------bu/ac----------			--lb/bu--	1 - 5
AGSECO	TAM 114	67	53	59	61.0	1
OGI	Iba	65	47	52	60.6	1
OGI	Gallagher	64	46	55	60.1	1
OGI	Smith's Gold	63	49	57	59.6	2
OGI	Lonerider	63	-	-	59.1	1
KWA	Larry	63	40	52	60.2	1
WestBred	WB4269	63	51	-	59.2	2
CROPLAN	CP78-26	62	-	-	58.2	1
LCS	T158	61	44	53	59.7	1
OGI	Ruby Lee	60	47	39	61.0	1
WestBred	WB4515	60	46	54	60.3	1
WestBred	Winterhawk	60	45	50	59.9	1
WestBred	WB4458	59	39	50	60.6	1
KWA	Zenda	59		55	60.4	1
PlainsGold	Langin	59	-	-	58.8	2
AgriPro	SY Grit	58	39	46	59.1	1
KWA	Joe	58	46	56	57.9	1
OGI	Stardust	57	38	-	59.2	2
AgriPro	Bob Dole	57	48	-	59.2	2
OGI	Spirit Rider	57	-	-	59.7	1
AgriPro	SY Rugged	57	42	-	58.7	1
WestBred	WB-Grainfield	56	43	49	58.5	1
OGI	NF 101	56	46	47	59.9	1
AgriPro	SY Achieve CL2	56	41	-	60.3	2
AgriPro	SY Flint	55	38	50	62.3	1
KWA	Oakley CL	55	-	-	58.1	2
OGI	Doublestop CL Plus	55	44	48	61.4	1
WestBred	WB4721	53	41	49	61.0	1
LCS	LCS Mint	53	34	36	59.1	1
AGSECO	AG Icon	52	41	-	57.4	1
AgriPro	SY Benefit	52	37	-	60.4	1
Watley	TAM 112	52	-	-	58.8	4
AGSECO	AG Gallant	51	-	-	60.2	1
AgriMAXX	AM Eastwood	50	-	-	58.6	1
LCS	LCS Chrome	50	39	51	58.1	1
OGI	Duster	49	44	48	58.5	2
OGI	Bentley	48	33	40	57.2	1
LCS	LCS Avenger	48	-	-	56.1	1
LCS	LCS Pistol	47	37	40	56.8	2
WestBred	WB4303	46	38	46	56.4	1
Watley	TAM 204	40	27	41	53.7	1
Dyna-Gro	Long Branch	35	29	37	53.8	2
OSU Experimentals						
	OCW04S717T-6W	73	-	-	57.9	1
	OK12D22004-016	71	-	-	62.1	1
	OK13621	66	48	-	61.0	1
	OCW05S616T-2	64	-	-	60.6	3
	OK12206-2	62	-	-	57.1	1
	OK13209	55	44	-	60.9	1
	OK12716	51	39	-	58.4	1
	Mean	**57**	**42**	**49**	**59.1**	**1**
	LSD (0.05)	**10**	**7**	**7**	**1.3**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Lodging on a 1-to-5 scale, with 1 indicating no lodging. Low to moderate stripe and leaf rust and moderate to severe powdery mildew pressure during grain-fill.

Chickasha Intensive Wheat Management Variety Trial

Planting & harvest dates: 10/30/17 & 6/6/18 Previous crop: Austrian winter pea Soil type: Dale silt loam
Management: Grain-only, conventional tillage Soil test: pH = 7.3, P = 148, K = 337
Nitrogen: 90 lbs/ac soil test + 9 lbs/ac at planting + 40 lbs/ac topdress 3/12/18
Fungicide: 4 fl oz/ac Tilt at jointing on 3/12/18 + 6.8 fl oz/ac Aproach Prima at heading on 4/17/18

Licensee	*Variety*	*Grain Yield*			*Test Weight*	*Lodging*
		2017-18	*2-Year*	*3-Year*	*2017-18*	*2017-18*
		----------*bu/ac*----------			*--lb/bu--*	*1 - 5*
OGI	Smith's Gold	81	67	73	60.8	1
AGSECO	TAM 114	81	71	77	61.5	1
OGI	Bentley	80	63	70	59.4	1
AgriPro	SY Grit	80	64	74	59.9	1
WestBred	WB-Grainfield	79	70	72	60.9	1
OGI	Stardust	79	59	-	61.1	1
WestBred	WB4269	78	67	-	60.0	1
WestBred	Winterhawk	78	68	75	61.0	1
OGI	Lonerider	78	-	-	60.2	1
OGI	Gallagher	78	63	73	60.3	1
OGI	Spirit Rider	77	-	-	61.0	1
WestBred	WB4458	77	61	75	61.3	1
AGSECO	AG Gallant	77	-	-	61.4	1
KWA	Joe	77	63	67	59.9	1
KWA	Larry	76	59	67	60.0	1
AgriPro	Bob Dole	75	62	-	59.9	2
AgriPro	SY Benefit	75	63	-	61.2	1
LCS	T158	75	65	73	60.8	1
OGI	Iba	74	64	69	62.1	1
LCS	LCS Mint	74	53	62	60.8	3
AgriPro	SY Flint	74	60	70	61.9	2
AgriMAXX	AM Eastwood	74	-	-	60.2	1
WestBred	WB4515	74	66	75	59.8	1
OGI	Ruby Lee	73	61	71	61.1	2
WestBred	WB4303	72	62	75	57.3	1
WestBred	WB4721	71	62	65	61.4	1
PlainsGold	Langin	71	-	-	59.4	2
KWA	Zenda	71	59	67	61.3	1
OGI	Doublestop CL Plus	71	59	64	62.2	1
OGI	NF 101	70	61	66	60.7	2
AgriPro	SY Achieve CL2	69	61	-	61.7	2
AGSECO	AG Icon	68	55	-	58.9	1
Watley	TAM 112	67	-	-	60.9	4
CROPLAN	CP78-26	67	-	-	59.3	1
AgriPro	SY Rugged	67	54	-	59.3	1
OGI	Duster	66	62	63	59.5	3
KWA	Oakley CL	64	-	-	59.3	2
Watley	TAM 204	62	52	68	55.4	1
LCS	LCS Pistol	61	55	60	58.6	2
LCS	LCS Avenger	59	-	-	57.3	1
LCS	LCS Chrome	58	48	60	57.2	1
Dyna-Gro	Long Branch	52	49	51	56.5	3
OSU Experimentals						
	OK12D22004-016	77	-	-	63.6	1
	OCW04S717T-6W	75	-	-	57.7	2
	OK12206-2	74	-	-	58.3	1
	OCW05S616T-2	73	-	-	61.9	2
	OK13621	73	63	-	61.4	1
	OK13209	70	59	-	60.8	1
	OK12716	69	62	-	59.0	1
	Mean	**72**	**61**	**69**	**60.1**	**1**
	LSD (0.05)	**9**	**7**	**7**	**1.2**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Lodging on a 1-to-5 scale with 1 indicating no lodging.

Chickasha Standard vs. Intensive Wheat Management Comparison

Planting & harvest dates: 10/30/17 & 6/6/18
Soil type: Dale silt loam
Soil test: pH = 7.3, P = 148, K = 337
Previous crop: Austrian winter pea
Management: Grain-only, conventional tillage
All plots had 99 lbs/ac N available at planting. Intensive Wheat Management (IWM) plots received 40 lbs/ac additional N and 4 fl oz/ac Tilt at jointing on 3/12/18 and 6.8 fl oz/ac Aproach Prima at heading on 4/17/18.

		2017-18 Grain Yield			*2017-18 Test Weight*		
Licensee	*Variety*	*Standard*	*IWM*	*Diff.*	*Standard*	*IWM*	*Diff.*
		bu/ac			*lb/bu*		
AGSECO	TAM 114	67	81	**14**	61.0	61.5	0.5
OGI	Iba	65	74	9	60.6	62.1	**1.5**
OGI	Gallagher	64	78	**14**	60.1	60.3	0.2
OGI	Smith's Gold	63	81	**17**	59.6	60.8	1.2
OGI	Lonerider	63	78	**15**	59.1	60.2	1.1
KWA	Larry	63	76	**13**	60.2	60.0	-0.2
WestBred	WB4269	63	78	**15**	59.2	60.0	0.8
CROPLAN	CP78-26	62	67	5	58.2	59.3	1.1
LCS	T158	61	75	**14**	59.7	60.8	1.1
OGI	Ruby Lee	60	73	**13**	61.0	61.1	0.1
WestBred	WB4515	60	74	**14**	60.3	59.8	-0.5
WestBred	Winterhawk	60	78	**18**	59.9	61.0	1.1
WestBred	WB4458	59	77	**18**	60.6	61.3	0.7
KWA	Zenda	59	71	**12**	60.4	61.3	0.9
PlainsGold	Langin	59	71	**12**	58.8	59.4	0.6
AgriPro	SY Grit	58	80	**22**	59.1	59.9	0.8
KWA	Joe	58	77	**19**	57.9	59.9	**2.0**
OGI	Stardust	57	79	**22**	59.2	61.1	**1.9**
AgriPro	Bob Dole	57	75	**18**	59.2	59.9	0.7
OGI	Spirit Rider	57	77	**20**	59.7	61.0	1.3
AgriPro	SY Rugged	57	67	**10**	58.7	59.3	0.6
WestBred	WB-Grainfield	56	79	**23**	58.5	60.9	**2.4**
OGI	NF 101	56	70	**14**	59.9	60.7	0.8
AgriPro	SY Achieve CL2	56	69	**13**	60.3	61.7	**1.4**
AgriPro	SY Flint	55	74	**19**	62.3	61.9	-0.4
KWA	Oakley CL	55	64	9	58.1	59.3	1.2
OGI	Doublestop CL Plus	55	71	**16**	61.4	62.2	0.8
WestBred	WB4721	53	71	**18**	61.0	61.4	0.4
LCS	LCS Mint	53	74	**21**	59.1	60.8	**1.7**
AGSECO	AG Icon	52	68	**16**	57.4	58.9	**1.5**
AgriPro	SY Benefit	52	75	**23**	60.4	61.2	0.8
Watley	TAM 112	52	67	**15**	58.8	60.9	**2.1**
AGSECO	AG Gallant	51	77	**26**	60.2	61.4	1.2
AgriMAXX	AM Eastwood	50	74	**24**	58.6	60.2	**1.6**
LCS	LCS Chrome	50	58	8	58.1	57.2	-0.9
OGI	Duster	49	66	**17**	58.5	59.5	1.0
OGI	Bentley	48	80	**32**	57.2	59.4	**2.2**
LCS	LCS Avenger	48	59	**11**	56.1	57.3	1.2
LCS	LCS Pistol	47	61	**14**	56.8	58.6	**1.8**
WestBred	WB4303	46	72	**26**	56.4	57.3	0.9
Watley	TAM 204	40	62	**22**	53.7	55.4	**1.7**
Dyna-Gro	Long Branch	35	52	**17**	53.8	56.5	**2.7**
OSU Experimentals							
	OCW04S717T-6W	73	75	2	57.9	57.7	-0.2
	OK12D22004-016	71	77	6	62.1	63.6	**1.5**
	OK13621	66	73	7	61.0	61.4	0.4
	OCW05S616T-2	64	73	9	60.6	61.9	**1.3**
	OK12206-2	62	74	**12**	57.1	58.3	1.2
	OK13209	55	70	**15**	60.9	60.8	-0.1
	OK12716	51	69	**18**	58.4	59.0	0.6
	Mean	**57**	**72**	**16**	**59.1**	**60.1**	**1.0**
	LSD (0.05)	**10**	**9**	**10**	**1.3**	**1.2**	**1.3**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Boldfaced values in the "Diff." column represent a statistical difference between the standard vs. intensive management averages for that variety. Low to moderate stripe and leaf rust and moderate to severe powdery mildew pressure during grain-fill.

Kingfisher Wheat Variety Trial

Planting & harvest dates: 10/3/17 & 6/5/18
Management: Grain-only
Tillage: Conventional

Previous crop: Wheat
Soil type: Tillman silt loam
Soil test: pH = 6.2, P = 38, K = 360

Licensee	*Variety*	*Grain Yield* 2017-18	*Grain Yield* 2-Year	*Test Weight* 2017-18
		----------bu/ac----------		----lb/bu----
OGI	Bentley	20	20	59.1
OGI	Ruby Lee	18	19	59.6
OGI	Gallagher	14	19	58.2
LCS	LCS Pistol	14	19	58.4
LCS	LCS Chrome	13	22	55.3
OGI	Iba	13	17	59.5
LCS	LCS Mint	13	18	58.2
OGI	Duster	13	19	58.7
LCS	T158	12	-	58.2
Watley	TAM 204	12	18	55.4
KWA	Larry	11	14	57.6
AgriPro	SY Monument	11	17	58.1
OGI	Smith's Gold	10	17	60.1
AgriPro	SY Rugged	10	-	58.3
WestBred	WB-Grainfield	10	17	58.6
AgriPro	SY Achieve CL2	10	-	60.0
WestBred	WB4515	9	-	59.0
KWA	Joe	9	15	58.9
AgriPro	SY Benefit	9	-	58.7
AgriPro	SY Flint	8	15	58.6
OGI	Lonerider	8	-	56.9
OGI	Doublestop CL Plus	8	15	58.9
WestBred	WB4303	8	-	57.3
WestBred	WB4458	7	11	58.1
AgriPro	SY Grit	6	-	56.8
OSU Experimentals				
	OK12D22004-016	11	-	59.7
	OK12716	10	19	57.6
	OK13209	9	13	58.8
	OK13621	8	-	
	OK14319	7	-	58.9
	OCW05S616T-2	7	-	57.6
	OK12206-2	7	-	55.7
	OCW04S717T-6W	5	-	58.2
	Mean	**10**	**17**	**58.3**
	LSD (0.05)	**3**	**4**	**1.2**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Drought conditions persisted throughout much of the growing season. This, coupled with freeze injury sustained during early April, resulted in sloughed tillers. Low foliar disease pressure observed during grain-fill, but Fusarium foot rot was present throughout the trial duing the latter part of grain-fill.

Thomas Wheat Variety Trial

Planting & harvest dates: 10/19/17 & 6/7/18
Management: Grain-only
Tillage: Conventional

Previous crop: Wheat
Soil type: Pond Creek silt loam
Soil test: pH = 5.9, P = 42, K = 475

Licensee	*Variety*	*Grain Yield*			*Test Weight*	*Lodging*
		2017-18	*2-Year*	*3-Year*	*2017-18*	*2017-18*
		----------bu/ac----------			*---lb/bu---*	*1 - 5*
WestBred	WB4515	28	-	-	60.6	2
KWA	Joe	24	46	-	60.5	1
OGI	Bentley	23	41	54	58.2	1
LCS	LCS Mint	23	38	51	61.5	1
OGI	Doublestop CL Plus	22	40	49	59.0	1
Dyna-Gro	Long Branch	21	-	-	56.0	2
WestBred	WB4458	19	37	46	58.7	1
AgriPro	SY Monument	18	42	-	57.4	1
AgriPro	SY Rugged	18	-	-	57.1	2
OGI	Smith's Gold	18	41	52	58.6	2
OGI	Ruby Lee	17	35	42	59.4	1
WestBred	WB4303	17	-	-	57.3	1
WestBred	WB-Grainfield	17	38	50	56.9	2
AgriPro	SY Grit	17	-	-	55.9	1
KWA	Larry	17	33	-	58.3	1
LCS	LCS Chrome	16	39	-	57.7	2
WestBred	WB4721	16	-	-	60.1	1
OGI	Lonerider	16	45	-	55.9	1
AgriPro	SY Benefit	15	-	-	58.3	1
Watley	TAM 204	15	34	48	54.7	1
LCS	LCS Pistol	15	36	47	57.7	1
OGI	Gallagher	15	43	54	58.1	2
OGI	Iba	14	40	50	60.0	1
AgriPro	SY Achieve CL2	14	-	-	58.7	2
LCS	T158	13	-	-	58.8	1
OGI	Duster	13	38	47	58.8	1
AgriPro	SY Flint	11	31	42	59.6	1
OSU Experimentals						
	OK12716	17	38	-	57.5	1
	OK12D22004-016	17	-	-	59.1	1
	OK13209	17	-	-	58.8	1
	OK14P212	14	-	-	59.8	1
	OCW05S616T-2	11	-	-	59.2	1
	OK12206-2	9	-	-	54.4	2
	Mean	**17**	**39**	**49**	**58.3**	**1**
	LSD (0.05)	**6**	**6**	**6**	**1.3**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Drought conditions persisted throughout much of the growing season. This, coupled with freeze injury sustained during early April, resulted in sloughed tillers. Low foliar disease pressure observed during grain-fill, but Fusarium foot rot was present throughout the trial duing the latter part of grain-fill.

Union City Wheat Variety Trial

Planting & harvest dates: 9/22/17 & 6/4/18
Management: Dual-purpose
Tillage: Conventional

Previous crop: Wheat
Soil type: Pond Creek silt loam
Soil test: pH = 6.4, P = 47, K = 260

Licensee	*Variety*	*Grain Yield* 2017-18	*Grain Yield* 2-Year	*Grain Yield* 3-Year	*Test Weight* 2017-18
		----------bu/ac----------			---lb/bu---
OGI	Bentley	27	34	45	58.7
WestBred	WB-Grainfield	26	28	38	59.2
OGI	Doublestop CL Plus	26	32	40	62.5
OGI	Iba	23	26	38	60.7
AgriPro	SY Grit	21	-	-	58.6
LCS	LCS Chrome	21	30	-	57.5
WestBred	WB4721	20	-	-	61.5
OGI	Lonerider	19	-	-	58.9
AgriPro	SY Flint	18	30	39	61.6
WestBred	WB4515	18	-	-	60.4
LCS	T158	17	-	-	59.0
AgriPro	SY Benefit	16	-	-	61.2
OGI	Ruby Lee	15	19	30	59.7
LCS	LCS Pistol	15	25	36	59.4
WestBred	WB4458	13	24	32	59.2
OGI	Duster	13	23	34	59.3
WestBred	WB4303	13	-	-	57.4
AgriPro	SY Rugged	12	-	-	60.5
LCS	LCS Mint	12	23	40	59.7
OGI	Smith's Gold	11	29	39	59.7
Watley	TAM 204	10	27	38	54.3
OGI	NF 101	8	-	-	59.4
OGI	Gallagher	7	22	36	56.9
OSU Experimentals					
	OK14319	23	33	-	59.8
	OK14P212	21	-	-	60.9
	OK12716	18	34	47	59.3
	OK13209	17	-	-	58.9
	OCW05S616T-2	9	-	-	58.5
	OK12206-2	8	-	-	56.8
	Mean	**16**	**28**	**38**	**59.3**
	LSD (0.05)	**6**	**7**	**6**	**1.3**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Plots were grazed from 12/5/17 through 2/2218 at an approximate stocking rate of 275 pounds per acre. Drought conditions persisted throughout much of the growing season, and some freeze injury occurred during early April. Low foliar disease pressure throughout grain-fill.

North Central Region

Licensee	*Variety*	*Grain Yield 2017-18*	*Test Weight 2017-18*
		-----bu/ac-----	*---lb/bu---*
OGI	Bentley	34	54.1
OGI	Ruby Lee	32	56.9
KWA	Joe	30	56.0
OGI	Doublestop CL Plus	29	58.0
LCS	LCS Chrome	28	53.9
OGI	Iba	28	56.2
OGI	Stardust	27	56.2
OGI	Smith's Gold	27	55.9
WestBred	WB4303	26	53.2
AgriPro	SY Achieve CL2	25	56.5
AgriPro	Bob Dole	25	54.8
OGI	Gallagher	24	54.7
OGI	Duster	24	55.0
Watley	TAM 204	24	50.7
OSU Experimentals			
	OK12716	26	54.5
	OCW05S61	23	55.5
	Mean	**27**	**55.1**
	LSD (0.05)	**3**	**0.8**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Data for varieties reported from the Homestead, Kildare, Lahoma, Lahoma Fungicide, Lamont, Marshall Dual-purpose and Marshall Grain-only trials are included in this analysis.

Homestead Wheat Variety Trial

Planting & harvest dates: 10/10/17 & 6/7/18
Management: Grain-only
Tillage: Conventional

Previous crop: Fallow
Soil type: Canadian fine sandy loam
Soil test: pH = 6.3, P = 43, K = 393

Licensee	*Variety*	*Grain Yield*			*Test Weight*	*Lodging*
		2017-18	*2-Year*	*3-Year*	*2017-18*	*2017-18*
		----------bu/ac----------			*---lb/bu---*	*1 - 5*
OGI	Iba	22	37	54	56.5	1
AgriPro	SY Benefit	20	-	-	55.1	1
WestBred	WB4515	17	-	-	56.2	1
OGI	Gallagher	17	34	54	55.5	2
OGI	Stardust	17	-	-	55.1	1
AgriPro	SY Flint	17	29	48	57.9	1
AgriPro	SY Monument	16	35	53	54.5	2
WestBred	WB4303	16	-	-	53.2	1
LCS	LCS Mint	16	33	47	56.9	1
OGI	Smith's Gold	15	31	-	56.0	2
OGI	Spirit Rider	15	30	-	56.1	1
LCS	LCS Pistol	15	33	48	52.1	2
AgriPro	SY Achieve CL2	15	-	-	58.4	2
AgriPro	SY Grit	15	-	-	55.2	2
OGI	Lonerider	15	34	-	52.7	2
OGI	Duster	14	33	49	55.4	1
WestBred	WB4721	14	-	-	57.0	2
OGI	Bentley	14	33	53	52.2	1
AgriPro	Bob Dole	13	-	-	53.6	1
WestBred	WB4458	13	31	51	55.5	1
KWA	Joe	13	33	-	56.7	2
OGI	Ruby Lee	13	35	45	57.5	1
Watley	TAM 204	13	30	50	50.0	2
OGI	Doublestop CL Plus	13	33	46	57.7	1
KWA	Larry	12	29	-	54.8	1
LCS	T158	11	-	-	54.3	1
KWA	Zenda	10	-	-	56.0	1
LCS	LCS Chrome	10	32	-	52.8	1
WestBred	WB-Grainfield	10	33	53	53.1	1
OSU Experimentals						
	OCW05S616T-2	21	-	-	55.5	2
	OK14P212	15	-	-	59.1	1
	OK12716	13	30	48	54.4	1
	OK13209	10	26	-	56.6	1
	OK12206-2	10	-	-	50.9	2
	OCW04S717T-6W	8	-	-	50.7	2
	Mean	**14**	**32**	**50**	**55.0**	**1**
	LSD (0.05)	**7**	**6**	**6**	**1.8**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Lodging on a 1-to-5 scale with 1 indicating no lodging. Drought conditions persisted throughout much of the growing season, and some freeze injury occurred during early April. Low foliar disease pressure during grain-fill.

Kildare Wheat Variety Trial

Planting & harvest dates: 10/20/17 & 6/12/18
Management: Grain-only
Tillage: No-till

Previous crop: Wheat
Soil type: Tabler silt loam
Soil test: pH = 7.1, P = 133, K = 423

Licensee	*Variety*	*Grain Yield*			*Test Weight*
		2017-18	*2-Year*	*3-Year*	*2017-18*
		----------*bu/ac*----------			*---lb/bu---*
OGI	Doublestop CL Plus	43	49	51	59.9
KWA	Joe	43	50	-	57.8
LCS	LCS Chrome	42	47	-	55.7
Westbred	WB4269	42	-	-	56.8
OGI	Bentley	42	49	52	54.3
LCS	LCS Mint	39	39	40	57.3
AgriPro	SY Monument	38	43	46	56.3
Westbred	WB-Grainfield	38	50	50	56.9
OGI	Ruby Lee	37	43	51	56.2
AgriPro	Bob Dole	36	-	-	55.3
OGI	Iba	36	45	51	56.8
OGI	Stardust	35	-	-	56.2
Westbred	WB4458	35	41	47	56.6
OGI	Spirit Rider	34	42	46	56.5
AgriPro	SY Achieve CL2	34	-	-	56.2
Westbred	WB4303	32	-	-	53.1
AgriPro	SY Benefit	32	-	-	55.0
OGI	Smith's Gold	31	37	-	56.1
OGI	Duster	31	38	42	54.5
KWA	Zenda	28			55.9
OGI	Gallagher	26	36	40	55.1
Watley	TAM 204	24	35	45	49.8
OSU Experimentals					
	OK12716	38	47	48	55.4
	OK12D22004-016	32	-	-	55.5
	OCW05S616T-2	31	-	-	57.2
	Mean	**35**	**43**	**47**	**55.9**
	LSD (0.05)	**6**	**5**	**6**	**1.4**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Some freeze injury occurred during early April. Low foliar disease pressure during grain-fill.

Lahoma Wheat Variety Trial

Planting & harvest dates: 10/11/17 & 6/11/18
Management: Grain-only
Tillage: Conventional

Previous crop: Wheat
Soil type: Pond Creek silt loam
Soil test: pH = 5.8, P = 72, K = 353

Licensee	Variety	Grain Yield 2017-18	Grain Yield 2-Year	Grain Yield 3-Year	Test Weight 2017-18
		----------bu/ac----------			---lb/bu---
WestBred	WB4269	49	63	-	57.9
OGI	Bentley	48	50	57	55.7
OGI	Ruby Lee	45	55	53	59.0
AGSECO	AG Gallant	42	-	-	58.7
CROPLAN	CP78-26	41	-	-	55.7
Watley	TAM 112	40	38	40	59.4
PlainsGold	Langin	39	50	-	57.2
WestBred	WB4721	39	51	60	59.7
Dyna-Gro	Long Branch	39	42	48	54.3
LCS	T158	38	46	53	58.1
OGI	Stardust	37	41	51	58.7
LCS	LCS Mint	37	38	47	58.6
WestBred	WB4515	35	51	56	59.4
OGI	Doublestop CL Plus	35	49	53	60.1
OGI	Smith's Gold	35	50	58	57.8
LCS	LCS Pistol	35	42	46	56.5
OGI	Gallagher	35	51	56	55.2
LCS	LCS Chrome	35	46	58	55.7
AGSECO	AG Icon	34	49	-	56.8
AgriPro	SY Benefit	33	42	-	57.5
OGI	Spirit Rider	33	-	-	57.8
Watley	TAM 204	33	41	51	51.3
KWA	Joe	32	52	62	56.8
KWA	Oakley CL	32	-	-	57.5
WestBred	WB4458	31	45	55	58.1
OGI	Lonerider	30	-	-	53.6
KWA	Larry	30	37	50	56.8
OGI	Iba	30	43	50	58.0
LCS	LCS Avenger	29	-	-	56.1
AGSECO	TAM 114	29	49	58	58.4
AgriPro	SY Rugged	28	45	-	55.6
WestBred	WB4303	28	48	56	55.0
WestBred	WB-Grainfield	28	46	54	57.0
AgriPro	SY Flint	28	42	51	58.1
WestBred	Winterhawk	27	45	52	58.4
AgriPro	SY Achieve CL2	27	46	-	56.9
KWA	Zenda	27	46	57	57.9
OGI	Duster	26	38	44	56.6
AgriMAXX	AM Eastwood	26	-	-	56.1
AgriPro	SY Monument	25	48	57	56.7
AgriPro	SY Grit	22	38	50	54.7
OGI	NF 101	22	42	47	56.3
AgriPro	Bob Dole	20	45	-	56.0
OSU Experimentals					
	OK13209	32	55	-	58.0
	OK12716	31	46	55	57.0
	OK13621	31	49	-	57.2
	OK12D22004-016	28	-	-	58.9
	OK14319	25	-	-	56.6
	OCW04S717T-6W	23	-	-	51.1
	OCW05S616T-2	22	-	-	54.8
	OK12206-2	20	41	-	49.4
	Mean	**32**	**46**	**53**	**56.8**
	LSD (0.05)	**8**	**9**	**7**	**1.8**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Freeze injury occurred during early April. Low foliar disease pressure during grain-fill, but some Fusarium foot rot was present.

Lahoma Regional Wheat Variety Trial - Fungicide Treated

Planting & harvest dates: 10/11/17 & 6/11/18
Management: Grain-only, conventional tillage
Fungicide = 13 fl oz/ac Nexicor at heading on 4/28/18

Previous crop: Wheat
Soil type: Pond Creek silt loam
Soil test: pH = 5.8, P = 72, K = 353

Licensee	Variety	Grain Yield 2017-18	Grain Yield 2-Year	Grain Yield 3-Year	Test Weight 2017-18
		bu/ac			lb/bu
WestBred	WB4269	53	71	-	58.5
OGI	Bentley	48	63	71	56.0
OGI	Ruby Lee	47	62	69	58.5
Dyna-Gro	Long Branch	45	56	58	55.3
AGSECO	AG Gallant	42	-	-	58.9
Watley	TAM 112	41	54	64	59.5
PlainsGold	Langin	40	62	-	57.8
WestBred	WB4721	40	61	69	59.6
LCS	T158	39	61	70	58.9
CROPLAN	CP78-26	39	-	-	55.0
LCS	LCS Mint	36	47	61	58.7
KWA	Joe	35	56	68	58.1
OGI	Spirit Rider	35	-	-	59.5
OGI	Gallagher	35	55	63	56.2
OGI	Smith's Gold	34	56	65	57.7
LCS	LCS Avenger	34	-	-	55.1
WestBred	WB4515	33	60	66	58.8
OGI	Doublestop CL Plus	33	49	57	59.1
AgriPro	SY Benefit	32	53	-	57.9
LCS	LCS Pistol	32	52	59	57.8
LCS	LCS Chrome	30	48	60	56.1
KWA	Oakley CL	30	-	-	57.9
KWA	Zenda	30	55	64	58.0
AGSECO	TAM 114	30	59	70	59.4
WestBred	WB4458	29	52	63	57.5
AGSECO	AG Icon	29	48	-	57.5
OGI	Stardust	28	45	57	58.4
WestBred	Winterhawk	28	55	63	58.6
OGI	Iba	27	49	58	58.3
Watley	TAM 204	27	52	63	53.7
OGI	Lonerider	27	-	-	53.7
KWA	Larry	27	52	63	56.8
WestBred	WB4303	27	53	65	53.5
WestBred	WB-Grainfield	27	57	65	57.4
AgriMAXX	AM Eastwood	26	-	-	56.4
AgriPro	SY Rugged	25	50	-	56.5
OGI	Duster	25	44	53	57.0
OGI	NF 101	24	50	55	57.0
AgriPro	SY Achieve CL2	24	53	-	57.1
AgriPro	SY Monument	23	53	63	57.2
AgriPro	SY Flint	21	46	56	58.8
AgriPro	Bob Dole	19	47	-	56.2
AgriPro	SY Grit	19	49	62	53.8
OSU Experimentals					
	OK13209	32	55	-	58.6
	OK13621	31	55	-	58.1
	OK12716	29	53	65	56.8
	OK12D22004-016	25	-	-	56.3
	OCW04S717T-6W	23	-	-	52.3
	OCW05S616T-2	23	-	-	55.9
	OK14319	21	-	-	56.3
	OK12206-2	20	49	-	52.7
	Mean	**31**	**54**	**63**	**57.1**
	LSD (0.05)	**8**	**8**	**6**	**1.5**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Freeze injury occurred during early April. Low foliar disease pressure during grain-fill, but some Fusarium foot rot was present.

Lahoma - Fungicide vs. No Fungicide Comparison

Planting & harvest dates: 10/11/17 & 6/11/18
Management: Grain-only, conventional tillage
Fungicide = 13 fl oz/ac Nexicor at heading on 4/28/18

Previous crop: Wheat
Soil type: Pond Creek silt loam
Soil test: pH = 5.6, P = 53, K = 407

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

Notes: Grain yields adjusted to 12 percent moisture. Shaded values are not statistically different from the highest value within a column. NS = not significant. Negative yield and test weight responses to the fungicide application are statistically non-significant and should be regarded as no response. Freeze injury occurred during early April. Low foliar disease pressure during grain-fill, but some Fusarium foot rot was present.

Lamont Wheat Variety Trial

Planting & harvest dates: 10/19/17 & 6/12/18
Management: Grain-only
Tillage: Conventional

Previous crop: Alfalfa
Soil type: Pond Creek silt loam
Soil test: pH = 5.4, P = 44, K = 232

Licensee	Variety	Grain Yield 2017-18	Grain Yield 2-Year †	Test Weight 2017-18	Lodging 2017-18
		----------bu/ac----------		---lb/bu---	1 - 5
OGI	Doublestop CL Plus	36	53	57.6	3
WestBred	WB4269	35	-	55.7	2
KWA	Larry	35	-	54.3	2
WestBred	WB4515	34	-	56.3	2
LCS	LCS Mint	34	53	56.5	3
AgriPro	Bob Dole	33	-	54.9	2
AgriPro	SY Flint	33	43	56.4	3
OGI	Bentley	33	59	52.2	3
OGI	Ruby Lee	31	42	55.5	2
WestBred	WB4303	31	-	50.2	1
LCS	LCS Chrome	31	-	54.3	3
OGI	Iba	30	50	54.5	4
KWA	Joe	30	-	54.4	4
KWA	Zenda	30	-	55.3	3
AgriPro	SY Monument	29	50	53.2	4
AgriPro	SY Grit	28	-	51.3	2
AgriPro	SY Achieve CL2	28	-	55.3	3
OGI	Stardust	28	49	55.2	2
WestBred	WB-Grainfield	26	53	53.0	2
OGI	Spirit Rider	26	53	54.5	4
LCS	T158	26	-	54.4	4
WestBred	WB4458	26	51	55.3	1
OGI	Smith's Gold	24	-	53.8	4
AgriPro	SY Benefit	24	-	54.5	3
LCS	LCS Pistol	23	41	52.5	4
OGI	Duster	22	41	52.9	4
OGI	Lonerider	21	-	49.9	2
OGI	Gallagher	19	40	52.9	3
Watley	TAM 204	16	49	50.2	4
OSU Experimentals					
	OK13209	33	-	55.6	2
	OK12D22004-016	26	-	54.9	1
	OK13621	25	-	54.2	3
	OCW04S717-6W	25	-	49.5	4
	OK12716	24	46	53.0	3
	OCW05S616T-2	22	-	54.2	4
	Mean	**28**	**48**	**53.9**	**3**
	LSD (0.05)	**6**	**8**	**1.4**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Lodging on a 1-to-5 scale, with 1 indicating no lodging. Some freeze injury occurred during early April. Low foliar disease pressure during grain-fill.
† Two-year results are the average of 2018 and 2016. Data was not collected from this location in 2017.

Marshall Grain-only Wheat Variety Trial

Planting & harvest dates: 10/17/17 & 6/12/18
Management: Grain-only
Tillage: Conventional

Previous crop: Wheat
Soil type: Kirkland silt loam
Soil test: pH = 5.7, P = 123, K = 440

		Grain Yield			Test Weight	Lodging
Licensee	*Variety*	*2017-18*	*2-Year*	*3-Year*	*2017-18*	*2017-18*
		----------bu/ac----------			---lb/bu---	*1 - 5*
WestBred	WB4269	44	-	-	56.4	2
WestBred	WB4303	41	-	-	54.4	1
Watley	TAM 204	40	29	34	50.4	1
AgriPro	SY Achieve CL2	39	-	-	56.9	1
WestBred	WB4515	39	-	-	56.5	2
AgriPro	Bob Dole	39	-	-	54.6	2
AGSECO	AG Icon	38	-	-	55.7	2
KWA	Joe	38	40	-	54.1	2
OGI	Ruby Lee	37	33	30	55.9	1
OGI	Bentley	37	32	39	54.8	2
OGI	Iba	37	38	45	55.1	2
OGI	Duster	37	37	43	55.8	2
AgriPro	SY Grit	36	-	-	55.0	1
OGI	Smith's Gold	36	32	-	56.3	1
OGI	Stardust	36	28	-	55.7	1
LCS	LCS Chrome	35	34	-	51.0	1
WestBred	WB4721	35	-	-	56.3	2
LCS	T158	35	-	-	55.6	1
AgriPro	SY Rugged	33	-	-	54.5	2
OGI	Gallagher	32	31	40	54.9	2
Dyna-Gro	Long Branch	30	-	-	50.5	1
OGI	Doublestop CL Plus	29	31	36	56.0	2
OSU Experimentals						
	OK14P212	40	-	-	57.2	2
	OK14319	39	40	-	56.3	1
	OCW05S616T-2	39	-	-	56.4	1
	OCW04S717T-6W	34	-	-	50.9	2
	OK12716	32	30	39	52.2	1
	OK12206-2	32	30	-	50.5	1
	Mean	**36**	**33**	**38**	**54.6**	**1**
	LSD (0.05)	**5**	**6**	**7**	**1.8**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Lodging on a 1-to-5 scale with 1 indicating no lodging. Some freeze injury occurred during early April. Low foliar disease pressure during grain-fill.

Marshall Dual-Purpose Wheat Variety Trial

Planting & harvest dates: 9/20/17 & 6/12/18
Management: Dual-purpose

Previous crop: Wheat
Tillage: Conventional

Soil type: Kirkland silt loam
Soil test: pH = 5.7, P = 123, K = 440

Licensee	Variety	Canopy Cover† 11/15/17	Canopy Cover† 3/12/18	Grain Yield 2017-18	Grain Yield 2-Year	Grain Yield 3-Year	Test Weight 2017-18	Lodging 2017-18
		----------%----------		----------bu/ac----------			---lb/bu---	1 - 5
Dyna-Gro	Long Branch	93	44	19	-	-	49.9	3
WestBred	WB4515	88	39	18	-	-	54.1	3
AgriPro	SY Grit	89	33	18	-	-	53.3	1
LCS	T158	88	40	17	-	-	53.5	2
LCS	LCS Chrome	91	35	16	15	-	51.5	1
KWA	Joe	87	42	16	27	-	54.4	2
WestBred	WB4721	79	37	15	-	-	55.6	2
AGSECO	AG Icon	93	21	15	-	-	54.0	2
OGI	Doublestop CL Plus	91	36	15	-	-	55.0	2
OGI	Iba	82	33	15	-	-	54.1	3
WestBred	WB4269	93	28	15	-	-	56.2	1
AgriPro	SY Rugged	88	32	14	-	-	53.5	4
OGI	Bentley	86	47	14	17	29	53.0	1
Watley	TAM 204	87	29	14	14	20	49.8	1
OGI	Duster	91	31	14	19	30	53.1	2
OGI	Ruby Lee	92	27	13	16	19	56.1	1
AgriPro	Bob Dole	88	34	13	-	-	53.3	1
OGI	Smith's Gold	89	32	12	21	-	52.4	1
OGI	Stardust	89	23	10	12	-	54.5	1
WestBred	WB4303	89	30	9	-	-	53.4	1
OGI	Gallagher	80	31	8	15	27	53.6	1
AgriPro	SY Achieve CL2	89	21	5	-	-	54.8	1
OSU Experimentals								
	OK12716	92	43	17	19	29	52.8	1
	OK14P212	89	31	17	-	-	56.1	1
	OK14319	89	30	14	22	-	54.1	1
	OK12206-2	83	36	11	14	-	49.4	1
	OCW05S616T-2	82	24	10	-	-	54.2	1
	OCW04S717T-6W	78	36	9	-	-	50.6	1
	Mean	**88**	**33**	**14**	**18**	**26**	**53.4**	**2**
	LSD (0.05)	**8**	**7**	**6**	**5**	**6**	**1.6**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Plots were grazed from 12/8/17 through 3/8/18 at a stocking rate of 1.12 acres per head. Cattle were removed when Duster reached first hollow stem (3/8/18). Lodging on a 1-to-5 scale with 1 indicating no lodging. Some freeze injury occurred during early April. Low foliar disease pressure during grain-fill.

† Canopy cover measurements were collected from each plot using the Canopeo app prior to cattle grazing (11/15/17) and after cattle removal (3/12/18).

Marshall Dual-Purpose vs. Grain-Only Comparison

Planting date: 9/20/17 (Dual-purpose) & 10/17/17 (Grain-only)
Harvest date: 6/12/18

Previous crop: Wheat
Tillage: Conventional

Soil type: Kirkland silt loam
Soil test: pH = 5.7, P = 123, K = 440

		Grain Yield									Test Weight		
		2017-18			2-Year			3-Year			2017-18		
Licensee	Variety	Dual-purpose	Grain-only	Diff.	Dual-purpose	Grain-only	Diff.	Dual-purpose	Grain-only	Diff.	Dual-purpose	Grain-only	Diff.
		bu/ac									lb/bu		
Dyna-Gro	Long Branch	19	30	-11	-	-	-	-	-	-	49.9	50.5	-0.6
WestBred	WB4515	18	39	-21	-	-	-	-	-	-	54.1	56.5	-2.4
AgriPro	SY Grit	18	36	-18	-	-	-	-	-	-	53.3	55.0	-1.7
LCS	T158	17	35	-18	-	-	-	-	-	-	53.5	55.6	-2.1
LCS	LCS Chrome	16	35	-19	15	34	-19	-	-	-	51.5	51.0	0.5
KWA	Joe	16	38	-22	27	40	-13	-	-	-	54.4	54.1	0.3
WestBred	WB4721	15	35	-20	-	-	-	-	-	-	55.6	56.3	-0.7
AGSECO	AG Icon	15	38	-23	-	-	-	-	-	-	54.0	55.7	-1.7
OGI	Doublestop CL Plus	15	29	-14	-	31	-	-	36	-	55.0	56.0	-1.0
OGI	Iba	15	37	-22	-	38	-	-	45	-	54.1	55.1	-1.0
WestBred	WB4269	15	44	-29	-	-	-	-	-	-	56.2	56.4	-0.2
AgriPro	SY Rugged	14	33	-19	-	-	-	-	-	-	53.5	54.5	-1.0
OGI	Bentley	14	37	-23	17	32	-15	29	39	-10	53.0	54.8	-1.8
Watley	TAM 204	14	40	-26	14	29	-15	20	34	-14	49.8	50.4	-0.6
OGI	Duster	14	37	-23	19	37	-18	30	43	-13	53.1	55.8	-2.7
OGI	Ruby Lee	13	37	-24	16	33	-17	19	30	-11	56.1	55.9	0.2
AgriPro	Bob Dole	13	39	-26	-	-	-	-	-	-	53.3	54.6	-1.3
OGI	Smith's Gold	12	36	-24	21	32	-11	-	-	-	52.4	56.3	-3.9
OGI	Stardust	10	36	-26	12	28	-16	-	-	-	54.5	55.7	-1.2
WestBred	WB4303	9	41	-32	-	-	-	-	-	-	53.4	54.4	-1.0
OGI	Gallagher	8	32	-24	15	31	-16	27	40	-13	53.6	54.9	-1.3
AgriPro	SY Achieve CL2	5	39	-34	-	-	-	-	-	-	54.8	56.9	-2.1
OSU Experimentals													
	OK12716	17	32	-15	19	30	-11	29	39	-10	52.8	52.2	0.6
	OK14P212	17	40	-23	-	-	-	-	-	-	56.1	57.2	-1.1
	OK14319	14	39	-25	22	40	-18	-	-	-	54.1	56.3	-2.2
	OK12206-2	11	32	-21	14	30	-16	-	-	-	49.4	50.5	-1.1
	OCW05S616T-2	10	39	-29	-	-	-	-	-	-	54.2	56.4	-2.2
	OCW04S717T-6W	9	34	-25	-	-	-	-	-	-	50.6	50.9	-0.3
	Mean	**14**	**36**	**-22**	**18**	**33**	**-15**	**26**	**38**	**-12**	**53.4**	**54.6**	**-1.2**
	LSD (0.05)	**6**	**5**	**5**	**5**	**6**	**7**	**6**	**7**	**8**	**1.6**	**1.8**	**1.9**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Boldfaced values in the "Diff." column represent a statistical difference between the dual-purpose vs. grain-only averages for that variety. Plots were grazed from 12/8/17 through 3/8/18 at a stocking rate of 1.12 ac/hd. Cattle were removed when Duster reached first hollow stem (3/8/18). Some freeze injury occurred during early April. Low foliar disease pressure during grain-fill.

Northwest Region

Licensee	*Variety*	*Grain Yield 2017-18*	*Test Weight 2017-18*
		-----bu/ac-----	*---lb/bu---*
KWA	Joe	29	57.1
WestBred	WB4721	28	58.3
OGI	Bentley	28	55.3
PlainsGold	Langin	28	57.2
LCS	LCS Chrome	28	55.7
KWA	Larry	27	56.6
OGI	Doublestop CL Plus	27	58.5
KWA	Oakley CL	25	56.3
WestBred	Winterhawk	25	59.0
OGI	Iba	24	55.9
AgriPro	SY Rugged	24	54.6
AGSECO	TAM 114	24	57.2
AgriPro	SY Grit	22	53.9
OGI	Smith's Gold	21	56.6
OGI	Gallagher	20	55.7
OGI	Lonerider	20	53.1
OSU Experimentals			
	OK14P212	28	58.0
	OK12716	24	55.1
	OK13621	20	55.7
	OCW05S616T-2	20	56.5
	OK12206-2	17	52.3
	Mean	**24**	**56.1**
	LSD (0.05)	**5**	**1.1**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Data for varieties reported from the Alva, Buffalo and Cherokee trials are included in this analysis.

Alva Wheat Variety Trial

Planting & harvest dates: 10/17/17 & 6/8/18
Management: Grain-only
Tillage: Conventional

Previous crop: Wheat
Soil type: Grant silt loam
Soil test: pH = 5.9, P = 60, K = 406

Licensee	*Variety*	*Grain Yield*			*Test Weight*
		2017-18	*2-Year*	*3-Year*	*2017-18*
			----------bu/ac----------		*---lb/bu---*
WestBred	WB4721	18	-	-	57.2
KWA	Joe	17	42	-	54.4
OGI	Bentley	17	36	45	52.1
OGI	Doublestop CL Plus	17	40	46	56.1
AgriPro	SY Rugged	16	-	-	50.6
AgriPro	Bob Dole	16	-	-	51.0
OGI	Smith's Gold	16	35	39	54.5
LCS	LCS Chrome	16	41	-	52.9
AgriPro	SY Monument	16	40	45	52.9
KWA	Larry	16	38	-	53.0
KWA	Oakley CL	16	-	-	54.1
LCS	LCS Mint	15	40	47	57.2
Watley	TAM 112	15	32	41	55.2
WestBred	Winterhawk	14	34	41	56.2
Dyna-Gro	Long Branch	14	-	-	52.5
LCS	LCS Pistol	14	35	40	51.2
PlainsGold	Langin	14	34	-	54.3
OGI	Ruby Lee	14	36	41	54.6
LCS	T158	13	-	-	53.2
WestBred	WB-Grainfield	13	39	45	53.0
OGI	Duster	13	32	41	54.2
WestBred	WB4458	12	-	-	54.0
OGI	Iba	12	37	43	53.1
OGI	Gallagher	11	34	41	52.6
AGSECO	TAM 114	11	-	-	54.5
WestBred	WB4303	11	-	-	50.0
OGI	Lonerider	11	33	-	50.2
Watley	TAM 204	11	28	37	48.6
AgriPro	SY Grit	11	-	-	49.6
AgriPro	SY Achieve CL2	9	-	-	53.3
OSU Experimentals					
	OK14P212	11	-	-	54.9
	OK168513	11	-	-	53.2
	OK12716	9	36	42	50.8
	OK13621	8	-	-	51.2
	OK12206-2	6	34	-	49.5
	OCW05S616T-2	6	-	-	54.0
	Mean	**13**	**36**	**42**	**53.1**
	LSD (0.05)	**6**	**5**	**4**	**1.5**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Sever drought conditions persisted throughout much of the growing season and freeze injury occurred during early April. Low foliar disease pressure during grain-fill.

Buffalo Wheat Variety Trial

Planting & harvest dates: 10/16/17 & 6/8/18
Management: Grain-only
Tillage: No-till

Previous crop: Fallow
Soil type: St. Paul silt loam
Soil test: pH = 7.6, P = 37, K = 550

Licensee	*Variety*	*Grain Yield*			*Test Weight*
		2017-18	*2-Year †*	*3-Year*	*2017-18*
			----------bu/ac----------		*---lb/bu---*
OGI	Bentley	37	56	65	58.8
KWA	Joe	36	62	-	60.3
LCS	LCS Chrome	35	56	-	57.9
WestBred	Winterhawk	34	56	63	60.6
WestBred	WB4721	34	-	-	57.9
PlainsGold	Langin	34	54	-	59.1
KWA	Oakley CL	32	-	-	57.6
AgriPro	SY Rugged	32	-	-	58.2
OGI	Iba	31	56	64	57.6
KWA	Larry	29	-	-	58.6
OGI	Doublestop CL Plus	28	56	62	59.5
OGI	Lonerider	27	-	-	56.0
OGI	Smith's Gold	27	-	-	58.7
OGI	Gallagher	27	46	52	57.6
AGSECO	TAM 114	26	-	-	58.2
AgriPro	SY Grit	26	-	-	56.5
OSU Experimentals					
	OK14P212	39	-	-	59.5
	OK12716	33	-	-	57.8
	OK168513	31	-	-	57.4
	OCW05S616T-2	28	-	-	57.5
	OK12206-2	28	-	-	55.6
	OK13621	24	-	-	58.8
	Mean	**31**	**55**	**61**	**58.2**
	LSD (0.05)	**7**	**8**	**6**	**1.6**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Drought conditions persisted through much of the growing season. Low foliar disease pressure during grain-fill. T158, TAM 112 and TAM 204 were removed from the analysis due to too few usable observations from suboptimal stand establishment.
† P-value = 0.0594.

Cherokee Wheat Variety Trial

Planting & harvest dates: 10/10/17 & 6/13/18
Management: Grain-only
Tillage: Conventional

Previous crop: Wheat
Soil type: Dale silt loam
Soil test: pH = 6.9, P = 45, K = 594

Licensee	*Variety*	*Grain Yield*			*Test Weight*	*Lodging*
		2017-18	*2-Year*	*3-Year*	*2017-18*	*2017-18*
		----------*bu/ac*----------			*---lb/bu---*	*1 - 5*
AgriPro	SY Monument	37	58	62	56.9	2
Watley	TAM 112	37	48	54	58.7	2
KWA	Larry	37	54	-	58.2	2
PlainsGold	Langin	36	54	-	58.1	3
OGI	Doublestop CL Plus	34	54	57	59.8	2
AGSECO	TAM 114	34	-	-	59.0	2
KWA	Joe	34	61	-	56.7	2
WestBred	WB4458	33	-	-	58.5	1
WestBred	WB4721	33	-	-	59.8	2
LCS	LCS Chrome	32	55	-	56.2	2
OGI	Bentley	32	53	59	55.1	2
WestBred	WB-Grainfield	32	58	63	56.3	2
OGI	Iba	31	54	60	57.1	2
AgriPro	SY Grit	31	-	-	55.7	1
LCS	LCS Pistol	30	47	51	56.3	2
AgriPro	Bob Dole	30	-	-	56.7	2
LCS	LCS Mint	30	46	52	57.7	2
KWA	Oakley CL	29	-		57.1	3
WestBred	Winterhawk	27	55	61	60.2	2
Watley	TAM 204	27	46	53	53.2	1
OGI	Ruby Lee	25	50	51	57.9	1
OGI	Duster	25	42	51	55.5	2
Dyna-Gro	Long Branch	25	-		53.3	3
AgriPro	SY Rugged	24	-	-	55.5	3
WestBred	WB4303	24	-	-	54.7	1
OGI	Smith's Gold	23	45	-	56.7	2
OGI	Gallagher	22	46	50	57.0	2
OGI	Lonerider	22	-		53.1	2
LCS	T158	21	-	-	55.4	3
AgriPro	SY Achieve CL2	20	-	-	56.8	2
OSU Experimentals						
	OK14P212	34	-	-	59.5	1
	OK12716	31	58	64	56.6	2
	OK13621	28	-	-	57.1	2
	OCW05S616T-2	27	-	-	58.1	2
	OCW04S717T-6W	24	-	-	53.6	1
	OK12206-2	17	41	-	52.0	1
	Mean	**29**	**51**	**56**	**56.7**	**2**
	LSD (0.05)	**11**	**8**	**6**	**2.0**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Lodging on a 1-to-5 scale with 1 indicating no lodging. Freeze injury occurred during early April. Low foliar disease pressure during grain-fill.

Panhandle Region

Licensee	*Variety*	*Grain Yield 2017-18*	*Test Weight 2017-18*
		----bu/ac----	*----lb/bu----*
Dyna-Gro	Long Branch	54	55.5
KWA	Oakley CL	51	57.2
KWA	Joe	51	57.3
LCS	LCS Mint	50	57.7
AgriPro	SY Monument	49	55.2
WestBred	WB-Grainfield	49	56.5
KWA	Larry	49	55.9
LCS	LCS Pistol	48	55.9
OGI	Bentley	48	55.1
OGI	Duster	47	56.4
WestBred	Winterhawk	47	57.9
AGSECO	TAM 114	47	57.2
OGI	Lonerider	46	53.3
WestBred	WB4458	46	55.5
OGI	Gallagher	46	55.4
PlainsGold	Langin	46	56.2
AgriPro	SY Rugged	44	55.1
OGI	Smith's Gold	44	56.4
OGI	Doublestop CL Plus	44	56.8
WestBred	WB4303	44	52.8
Watley	TAM 112	43	57.3
OGI	Ruby Lee	43	56.8
WestBred	WB4721	43	57.4
OGI	Iba	42	57.0
LCS	LCS Chrome	41	55.7
LCS	T158	41	56.4
AgriPro	SY Grit	41	53.6
Watley	TAM 204	40	51.5
OSU Experimentals			
	OK12716	48	55.1
	OK14P212	46	57.7
	OK168513	45	55.7
	OCW05S616T-2	44	55.5
	Mean	**46**	**55.9**
	LSD (0.05)	**4**	**0.6**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Data for varieties reported from the Balko, Goodwell Irrigated, Hooker and Keyes trials are included in this analysis.

Balko Wheat Variety Trial

Planting & harvest dates: 10/13/17 & 6/30/18
Management: Grain-only
Tillage: No-till

Previous crop: Fallow
Soil type: Darrouzett clay loam
Soil test: pH = 5.9, P = 51, K = 1,130

Licensee	Variety	Shatter	Grain Yield 2017-18	Grain Yield 2-Year	Grain Yield 3-Year †	Test Weight 2017-18	Lodging 2017-18
			bu/ac			lb/bu	1 - 5
KWA	Oakley CL	1.2	51	-	-	56.3	2
KWA	Larry	2.2	46	38	-	55.7	2
Dyna-Gro	Long Branch	1.4	45	-	-	53.8	2
KWA	Joe	1.6	44	46	-	55.6	2
LCS	LCS Pistol	1.6	43	43	54	54.7	2
LCS	LCS Mint	2.0	40	38	51	56.3	2
OGI	Bentley	2.2	40	34	-	54.1	2
WestBred	Winterhawk	1.6	38	37	49	55.9	2
OGI	Gallagher	1.2	37	32	46	54.1	2
WestBred	WB4458	1.8	37	-	-	54.0	2
AgriPro	SY Rugged	1.2	37	-	-	54.2	2
WestBred	WB-Grainfield	2.2	36	36	51	54.7	2
OGI	Lonerider	1.8	35	33	-	51.8	1
LCS	T158	1.6	35	-	-	55.0	2
AGSECO	TAM 114	1.4	34	-	-	54.6	2
WestBred	WB4303	1.0	34	-	-	51.6	2
AgriPro	SY Monument	2.2	33	34	-	54.6	2
OGI	Doublestop CL Plus	1.8	33	33	45	55.7	1
OGI	Duster	2.2	33	32	47	54.9	2
OGI	Smith's Gold	2.2	32	31	-	55.2	2
Watley	TAM 204	1.6	31	31	45	51.3	2
WestBred	WB4721	2.6	30	-	-	55.7	1
LCS	LCS Chrome	2.6	30	32	-	55.1	2
OGI	Ruby Lee	2.4	30	27	36	55.4	2
Watley	TAM 112	2.0	25	26	38	54.2	3
PlainsGold	Langin	3.2	24	30	-	54.4	2
AgriPro	SY Grit	2.4	24	-	-	53.1	2
OGI	Iba	1.4	24	30	44	53.7	2
OSU Experimentals							
	OK12716	1.0	46	39	-	54.3	2
	OK12D22004-016	1.2	41	-	-	54.3	1
	OK168513	1.8	38	-	-	54.5	2
	OCW05S616T-2	1.4	37	-	-	54.0	2
	OK12206-2	1.4	37	-	-	52.4	2
	OK13621	1.4	35	-	-	54.6	2
	OK14P212	2.2	32	-	-	56.4	2
	Mean	**1.8**	**36**	**34**	**46**	**54.5**	**2**
	LSD (0.05)		**6**	**5**	**5**	**1.0**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Severe drought conditions persisted throughout much of the growing season, and some freeze injury occurred during early April. There was low foliar disease pressure throughout grain-fill, but Fusarium foot rot (dryland root rot) symptoms appeared during May and remained throughout grain-fill. Rainfall during mid-June prevented a timely harvest. As a result, all varieties began to shatter before beging harvested. Shattering was rated for each plot using a 0-to-10 scale with 0 representing no shattering and 10 representing complete shatter loss.
† Three-year results are the average of 2018, 2017 and 2015. Data was not collected in 2016 due to severe hail damage in early May.

Goodwell Irrigated Wheat Variety Trial

Planting & harvest dates: 10/12/17 & 6/29/18
Management: Grain-only
Tillage: Conventional

Previous crop: Fallow
Soil type: Gruver clay loam
Soil test: pH = 7.9, P =20, K = 1,198

Licensee	Variety	Grain Yield 2017-18	Grain Yield 2-Year	Grain Yield 3-Year	Test Weight 2017-18	Lodging 2017-18
		----------bu/ac----------			---lb/bu---	1 - 5
Dyna-Gro	Long Branch	96	72	78	56.8	2
AGSECO	TAM 114	92	67	74	59.5	2
OGI	Duster	91	71	77	58.4	1
AgriPro	SY Monument	90	65	72	56.5	1
OGI	Lonerider	90	72	80	56.1	1
OGI	Gallagher	88	67	73	57.5	2
AGSECO	AG Icon	87	65	-	56.7	1
LCS	LCS Pistol	87	68	73	58.0	2
KWA	Joe	87	71	79	58.0	1
WestBred	WB-Grainfield	87	68	73	57.9	2
KWA	Larry	85	67	74	56.9	1
WestBred	WB4303	85	66	70	54.4	1
WestBred	Winterhawk	85	69	75	59.0	1
AgriPro	SY Grit	84	63	69	55.4	1
LCS	LCS Avenger	84	-	-	57.0	1
AgriPro	SY Flint	83	66	74	55.1	1
WestBred	WB4721	83	66	73	58.7	1
LCS	LCS Mint	83	63	71	57.9	1
WestBred	WB4458	83	71	73	57.0	1
OGI	Smith's Gold	82	64	71	58.5	2
KWA	Oakley CL	82	-	-	57.7	2
CROPLAN	CP78-26	82	-	-	56.1	1
OGI	Iba	81	66	74	57.9	1
PlainsGold	Langin	81	61	-	57.8	2
AgriPro	SY Benefit	80	62	-	57.4	1
WestBred	WB4269	80	66	-	56.5	1
LCS	LCS Chrome	80	61	70	57.0	1
Watley	TAM 204	80	69	76	54.1	1
OGI	Spirit Rider	80	60	71	57.2	1
Watley	TAM 112	79	58	64	58.6	2
AgriPro	SY Rugged	78	67	-	56.0	2
AgriPro	Bob Dole	78	62	-	56.5	2
OGI	Ruby Lee	78	61	69	58.3	1
KWA	Zenda	77	67	73	56.9	1
OGI	Bentley	75	64	70	56.0	2
OGI	Doublestop CL Plus	75	60	62	57.6	1
AgriMAXX	AM Eastwood	74	-	-	56.3	1
OGI	Stardust	73	58	-	57.7	1
AGSECO	AG Gallant	72	-	-	58.2	1
LCS	T158	70	63	67	57.2	1
AgriPro	SY Achieve CL2	70	57	-	57.3	1
WestBred	WB4515	67	54	63	58.2	1
OGI	NF 101	53	50	57	56.4	1
OSU Experimentals						
	OK12D22004-016	81	71	-	58.3	1
	OK14P212	80	-	-	58.6	1
	OK12716	78	62	73	56.4	1
	OK13621	77	63	-	58.7	1
	OCW05S616T-2	75	-	-	56.5	2
	OK168513	74	-	-	56.5	1
	OK12206-2	73	65	-	54.0	1
	Mean	**80**	**64**	**72**	**57.1**	**1**
	LSD (0.05)	**12**	**8**	**7**	**0.7**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Lodging on a 1-to-5 scale with 1 indicating no lodging. Low foliar disease pressure observed throughout grain-fill.

Hooker Wheat Variety Trial

Planting & harvest dates: 10/12/17 & 6/22/18
Management: Grain-only
Tillage: No-till

Previous crop: Fallow
Soil type: Dalhart fine sandy loam
Soil test: pH = 7.1, P = 105, K = 788

Licensee	Variety	Grain Yield 2017-18	Grain Yield 2-Year †	Grain Yield 3-Year	Test Weight 2017-18
		----------bu/ac----------			---lb/bu---
PlainsGold	Langin	45	-	-	55.0
Dyna-Gro	Long Branch	42	-	-	54.7
LCS	LCS Mint	41	49	50	56.9
WestBred	WB-Grainfield	40	55	54	55.9
AgriPro	SY Monument	40	41	-	54.4
WestBred	WB4458	38	-	-	54.5
OGI	Bentley	38	49	-	54.3
KWA	Joe	38	-	-	56.8
OGI	Ruby Lee	37	40	41	55.1
OGI	Duster	37	47	49	55.1
KWA	Oakley CL	36	-	-	56.3
LCS	LCS Pistol	36	45	43	55.2
Watley	TAM 112	36	37	39	56.9
WestBred	Winterhawk	36	45	50	56.4
KWA	Larry	35	-	-	54.6
OGI	Doublestop CL Plus	35	45	48	55.6
OGI	Smith's Gold	34	-	-	55.2
OGI	Lonerider	34	43	-	52.3
LCS	LCS Chrome	33	-	-	55.2
OGI	Iba	33	40	43	57.1
AGSECO	TAM 114	33	35	37	55.9
LCS	T158	32	-	-	55.5
OGI	Gallagher	32	37	40	53.5
WestBred	WB4721	31	-	-	56.2
AgriPro	SY Grit	31	-	-	51.1
WestBred	WB4303	30	-	-	50.9
AgriPro	SY Rugged	30	-	-	53.3
Watley	TAM 204	27	43	48	49.8
OSU Experimentals					
	OK14P212	37	-	-	56.7
	OK12716	36	-	-	53.9
	OK13621	36	-	-	56.3
	OK168513	34	-	-	54.3
	OK12206-2	32	-	-	51.3
	OCW05S616T-2	31	-	-	54.1
	Mean	**35**	**43**	**45**	**54.7**
	LSD (0.05)	**6**	**9**	**8**	**1.0**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Severe drought conditions persisted throughout much of the growing season and some freeze injury occurred during early April. There was low foliar disease pressure throughout grain-fill, but Fusarium foot rot (dryland root rot) symptoms appeared during May and remained throughout grain-fill.

† Two-year results are the average of 2018 and 2016. Three-year results are the average of 2018, 2016 and 2015. Data was not reported in 2017 due to excessive variability.

Keyes Wheat Variety Trial

Planting & harvest dates: 10/12/17 & 6/21/18
Management: Grain-only
Tillage: No-till

Previous crop: Fallow
Soil type: Sherm clay loam
Soil test: pH = 7.2, P = 77, K = 1,151

Licensee	*Variety*	*Grain Yield*		*Test Weight*
		2017-18	*2-Year †*	*2017-18*
		----------bu/ac----------		*----lb/bu----*
KWA	Joe	36	-	58.9
Dyna-Gro	Long Branch	35	-	56.7
KWA	Oakley CL	35	-	58.5
OGI	Bentley	35	-	55.9
AgriPro	SY Monument	34	-	55.3
Watley	TAM 112	34	54	59.1
LCS	LCS Mint	34	57	59.4
WestBred	WB-Grainfield	33	67	57.5
PlainsGold	Langin	32	-	57.5
OGI	Doublestop CL Plus	31	57	58.2
AgriPro	SY Rugged	31	-	56.8
OGI	Duster	30	56	57.4
WestBred	Winterhawk	30	58	60.1
AGSECO	TAM 114	29	49	59.0
KWA	Larry	29	-	56.4
OGI	Iba	29	57	59.2
OGI	Lonerider	28	-	53.4
OGI	Ruby Lee	28	50	58.3
WestBred	WB4721	27	-	58.9
LCS	T158	27	65	58.0
OGI	Smith's Gold	27	-	56.8
OGI	Gallagher	26	49	56.5
LCS	LCS Pistol	26	47	55.9
AgriPro	SY Grit	26	-	55.1
WestBred	WB4303	26	-	54.4
WestBred	WB4458	25	44	56.4
LCS	LCS Chrome	23	-	55.7
Watley	TAM 204	21	49	51.0
OSU Experimentals				
	OCW05S616T-2		-	57.2
	OK14P212		-	58.9
	OK168513	32	-	57.5
	OK12716	30	-	55.7
	Mean	**30**	**54**	**57.0**
	LSD (0.05)	**4**	**10**	**1.0**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Severe drought conditions persisted throughout much of the growing season, and some freeze injury occurred during early April. There was low foliar disease pressure throughout grain-fill, but Fusarium foot rot (dryland root rot) symptoms appeared during May and remained throughout grain-fill.
† Two-year results are the average of 2018 and 2015. Data not collected in 2017 due to severe hail damage and not collected in 2016 due to excessive variability.

Southwest Region Summary

Licensee	*Variety*	*Grain Yield 2017-18*	*Test Weight 2017-18*
		----bu/ac----	*----lb/bu----*
KWA	Joe	46	61.6
LCS	LCS Chrome	41	58.8
OGI	Bentley	40	59.0
OGI	Doublestop CL Plus	39	61.0
OGI	Iba	38	61.0
WestBred	WB4721	37	61.1
WestBred	WB-Grainfield	37	59.2
WestBred	WB4303	36	56.9
AgriPro	SY Flint	36	61.4
OGI	Smith's Gold	35	59.2
AgriPro	SY Rugged	35	59.9
Dyna-Gro	Long Branch	34	57.3
LCS	T158	34	60.1
OGI	Duster	34	60.6
LCS	LCS Pistol	33	59.1
AgriPro	SY Grit	33	57.0
LCS	LCS Mint	32	60.0
OGI	Ruby Lee	32	59.6
OGI	Lonerider	31	57.3
AgriPro	SY Benefit	30	59.7
OGI	Gallagher	29	58.6
WestBred	WB4458	28	59.1
OGI	NF 101	25	59.0
Watley	TAM 204	25	54.5
OSU Experimentals			
	OK12716	39	58.7
	OK13209	36	59.7
	OK12206-2	23	54.9
	Mean	**34**	**59.1**
	LSD (0.05)	**4**	**0.8**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Data from the Altus, Apache, Apache Fungicide and Walters trials are included in this analysis.

Altus Regional Wheat Variety Trial

Planting & harvest dates: 10/23/17 & 5/30/18
Management: Grain-only
Tillage: Conventional

Previous crop: Wheat
Soil type: Hollister silty clay loam
Soil test: pH = 7.0, P = 72, K = 876

Licensee	*Variety*	*Grain Yield*			*Test Weight*	*Lodging*
		2017-18	*2-Year*	*3-Year*	*2017-18*	*2017-18*
		bu/ac			*lb/bu*	*1 - 5*
WestBred	WB4269	27	33	-	59.8	2
WestBred	WB4515	24	25	32	61.2	2
OGI	Bentley	24	22	31	57.5	2
WestBred	WB4303	22	24	30	58.1	2
KWA	Larry	21	19	29	59.1	2
AGSECO	AG Icon	21	26	-	56.8	2
Dyna-Gro	Long Branch	20	26	34	56.8	2
Watley	TAM 112	20	-	-	59.6	2
LCS	LCS Chrome	20	23	34	57.2	2
KWA	Oakley CL	20	-	-	58.2	1
CROPLAN	CP78-26	19	-	-	59.2	2
OGI	Smith's Gold	19	27	36	60.0	2
WestBred	WB4721	19	28	36	59.8	2
KWA	Joe	18	29	37	58.8	1
WestBred	Winterhawk	17	26	35	61.9	1
OGI	Ruby Lee	17	22	22	59.9	2
LCS	LCS Avenger	17	-	-	55.6	2
OGI	Doublestop CL Plus	16	24	29	60.3	2
AgriPro	SY Grit	15	19	27	57.8	2
OGI	Iba	15	23	33	60.2	2
AgriPro	SY Rugged	14	21	-	59.7	2
LCS	LCS Pistol	14	20	25	58.1	2
OGI	Duster	14	24	33	60.1	1
OGI	Gallagher	13	23	29	58.3	2
AgriPro	SY Flint	13	20	30	61.2	2
OGI	Lonerider	13	-	-	57.3	2
LCS	T158	12	23	34	58.5	1
WestBred	WB4458	12	20	29	59.0	2
WestBred	WB-Grainfield	11	19	30	58.6	2
PlainsGold	Langin	11	-	-	59.2	2
OGI	Stardust	11	22	-	59.2	2
AgriPro	SY Achieve CL2	10	23	-	57.7	2
OGI	Spirit Rider	10	-	-	58.3	2
Watley	TAM 204	10	17	27	55.4	2
KWA	Zenda	9	20	30	59.4	2
AgriMAXX	AM Eastwood	9	-	-	58.3	1
OGI	NF 101	9	16	18	58.4	2
LCS	LCS Mint	8	15	25	59.0	2
AgriPro	Bob Dole	7	25	-	56.2	2
AgriPro	SY Benefit	7	15	-	56.5	2
AGSECO	TAM 114	4	21	28	56.1	2
OSU Experimentals						
	OK13209	23	26	-	59.5	2
	OK14P212	22	-	-	61.4	2
	OK12716	20	23	39	57.8	2
	OK13621	11	22	-	59.3	2
	OCW04S717T-6W	7	-	-	57.6	2
	OK12206-2	5	-	-	54.4	2
	Mean	**15**	**23**	**30**	**58.6**	**2**
	LSD (0.05)	**7**	**6**	**5**	**1.7**	

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Lodging on a 1-to-5 scale with 1 indicating no lodging. Drought conditions persisted throughout much of the growing season, and some freeze injury occurred during early April when most varieties were in the boot to heading growth stages. Low foliar disease pressure throughout grain-fill. AG Gallant and OCW05S616T-2 were removed from the analysis due to too few usable observations.

Apache Wheat Variety Trial

Planting & harvest dates: 10/19/17 & 6/5/18
Management: Grain-only
Tillage: No-till

Previous crop: Soybean
Soil type: Hollister silt loam
Soil test: pH = 6.3, P = 28, K = 435

Licensee	Variety	Grain Yield 2017-18	Grain Yield 2-Year	Grain Yield 3-Year	Test Weight 2017-18
		----------bu/ac----------			---lb/bu---
KWA	Joe	46	-	-	62.9
WestBred	WB-Grainfield	42	55	61	59.7
WestBred	WB4721	39	-	-	61.3
LCS	LCS Chrome	38	53	-	59.2
OGI	Bentley	38	49	58	60.1
OGI	Doublestop CL Plus	36	47	52	60.0
Dyna-Gro	Long Branch	35	-	-	58.2
AgriPro	SY Flint	35	43	51	60.8
OGI	Iba	34	52	55	60.9
LCS	LCS Mint	34	43	-	60.7
OGI	Ruby Lee	32	49	45	59.6
AGSECO	AG Icon	31	-	-	59.1
WestBred	WB4303	31	-	-	57.0
AgriPro	SY Benefit	30	-	-	60.8
LCS	T158	30	-	-	60.4
LCS	LCS Pistol	30	44	47	59.1
AgriPro	SY Rugged	30	-	-	59.6
OGI	Duster	29	43	42	60.1
OGI	Smith's Gold	29	47	-	58.6
WestBred	WB4458	27	49	60	58.6
AgriPro	SY Grit	27	-	-	55.8
OGI	NF 101	25	-	-	59.6
OGI	Lonerider	25	-	-	55.9
OGI	Gallagher	24	48	53	58.2
Watley	TAM 204	20	42	50	53.2
OSU Experimentals					
	OK12716	35	49	55	58.8
	OK13209	33	49	-	58.6
	OCW04S717T-6W	29	-	-	56.7
	OCW05S616T-2	28	-	-	59.3
	OK12206-2	20	-	-	54.9
	Mean	**31**	**48**	**53**	**58.9**
	LSD (0.05)	**6**	**7**	**7**	**1.2**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Drought conditions which followed after planting behind soybean reduced the yield potential at this location. Freeze injury also occurred during early April. Low foliar disease pressure observed during grain-fill.

Apache Fungicide Wheat Variety Trial

Planting & harvest dates: 10/19/17 & 6/5/18
Management: Grain-only
Tillage: No-till
Fungicide: 13.7 fl oz/ac Trivapro at heading on 4/17/18

Previous crop: Soybean
Soil type: Hollister silt loam
Soil test: pH = 6.3, P = 28, K = 435

Licensee	*Variety*	*Grain Yield*			*Test Weight*
		2017-18	*2-Year*	*3-Year*	*2017-18*
		----------bu/ac----------			*---lb/bu---*
KWA	Joe	45	-	-	63.5
WestBred	WB-Grainfield	41	63	71	60.3
Dyna-Gro	Long Branch	37	-	-	57.8
LCS	LCS Mint	36	52	-	60.9
LCS	LCS Chrome	36	54	-	59.7
OGI	Doublestop CL Plus	36	49	55	60.7
AgriPro	SY Flint	36	47	55	61.8
WestBred	WB4721	35	-	-	61.0
OGI	Bentley	35	54	63	59.7
AGSECO	AG Icon	35	-	-	59.4
OGI	Iba	33	51	59	60.8
OGI	Smith's Gold	33	49	-	58.4
LCS	LCS Pistol	32	48	53	59.7
AgriPro	SY Benefit	32	-	-	61.4
AgriPro	SY Rugged	31	-	-	59.8
LCS	T158	31	-	-	61.0
OGI	Duster	30	46	47	60.6
AgriPro	SY Grit	30	-	-	56.1
OGI	Ruby Lee	29	51	59	59.3
WestBred	WB4458	28	52	65	58.7
WestBred	WB4303	28	-	-	56.6
OGI	Lonerider	25	-	-	56.4
OGI	Gallagher	25	51	56	58.9
OGI	NF 101	24	-	-	59.1
Watley	TAM 204	22	46	57	54.4
OSU Experimentals					
	OK12716	34	49	57	58.8
	OK13209	32	48	-	59.0
	OCW05S616T-2	27	-	-	59.9
	OCW04S717T-6W	27	-	-	56.5
	OK12206-2	19	-	-	55.0
	Mean	**31**	**51**	**58**	**59.1**
	LSD (0.05)	**5**	**7**	**7**	**0.9**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value withing a column. Drought conditions which followed after planting behind soybean reduced the yield potential at this location. Freeze injury also occurred during early April.

Apache Wheat Variety Trial - Fungicide vs. No Fungicide Comparison

Planting & harvest dates: 10/19/17 & 6/5/18
Management: Grain-only, no-till

Previous crop: Soybean
Fungicide: 13.7 fl oz/ac Trivapro at heading on 4/17/18

Soil type: Hollister silt loam
Soil test: pH = 6.3, P = 28, K = 435

		Grain Yield									Test Weight		
		2017-18			2-Year			3-Year			2017-18		
Licensee	Variety	No Fungicide	Fungicide	Diff.	No Fungicide	Fungicide	Diff.	No Fungicide	Fungicide	Diff.	No Fungicide	Fungicide	Diff.
		bu/ac									lb/bu		
KWA	Joe	46	45	-1	-	-	-	-	-	-	62.9	63.5	0.6
WestBred	WB-Grainfield	42	41	-1	55	63	8	61	71	10	59.7	60.3	0.6
WestBred	WB4721	39	35	-4	-	-	-	-	-	-	61.3	61.0	-0.3
LCS	LCS Chrome	38	36	-2	53	54	1	-	-	-	59.2	59.7	0.
OGI	Bentley	38	35	-3	49	54	5	58	63	5	60.1	59.7	-0.4
OGI	Doublestop CL Plus	36	36	0	47	49	2	52	55	3	60.0	60.7	0.7
Dyna-Gro	Long Branch	35	37	2	-	-	-	-	-	-	58.2	57.8	-0.4
AgriPro	SY Flint	35	36	1	43	47	4	51	55	4	60.8	61.8	1.0
OGI	Iba	34	33	-1	52	51	-1	55	59	4	60.9	60.8	-0.1
LCS	LCS Mint	34	36	2	43	52	9	-	-	-	60.7	60.9	0.2
OGI	Ruby Lee	32	29	-3	49	51	2	45	59	14	59.6	59.3	-0.3
AGSECO	AG Icon	31	35	4	-	-	-	-	-	-	59.1	59.4	0.3
WestBred	WB4303	31	28	-3	-	-	-	-	-	-	57.0	56.6	-0.4
AgriPro	SY Benefit	30	32	2	-	-	-	-	-	-	60.8	61.4	0.6
LCS	T158	30	31	1	-	-	-	-	-	-	60.4	61.0	0.6
LCS	LCS Pistol	30	32	2	44	48	4	47	53	6	59.1	59.7	0.6
AgriPro	SY Rugged	30	31	1	-	-	-	-	-	-	59.6	59.8	0.2
OGI	Duster	29	30	1	43	46	3	42	47	5	60.1	60.6	0.5
OGI	Smith's Gold	29	33	4	47	49	2	-	-	-	58.6	58.4	-0.2
WestBred	WB4458	27	28	1	49	52	3	60	65	5	58.6	58.7	0.1
AgriPro	SY Grit	27	30	3	-	-	-	-	-	-	55.8	56.1	0.3
OGI	NF 101	25	24	-1	-	-	-	-	-	-	59.6	59.1	-0.5
OGI	Lonerider	25	25	0	-	-	-	-	-	-	55.9	56.4	0.5
OGI	Gallagher	24	25	1	48	51	3	53	56	3	58.2	58.9	0.7
Watley	TAM 204	20	22	2	42	46	4	50	57	7	53.2	54.4	1.2
OSU Experimentals													
	OK12716	35	34	-1	49	49	0	55	57	2	58.8	58.8	0.0
	OK13209	33	32	-1	49	48	-1	-	-	-	58.6	59.0	0.4
	OCW04S717T-6W	29	27	-2	-	-	-	-	-	-	56.7	56.5	-0.2
	OCW05S616T-2	28	27	-1	-	-	-	-	-	-	59.3	59.9	0.6
	OK12206-2	20	19	-1	-	-	-	-	-	-	54.9	55.0	0.1
	Mean	31	31	0	48	51	3	53	58	**5**	**58.9**	**59.1**	**0.2**
	LSD (0.05)	**6**	**5**	**NS**	**7**	**7**	**NS**	**7**	**7**	**NS**	**1.2**	**0.9**	**NS**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. NS = not significant. Negative yield and test weight responses to fungicide application are statistically non-significant and should be regarded as no response. Drought conditions which followed after planting behind soybean reduced the yield potential at this location. Freeze injury also occurred during early April. Low foliar disease pressure observed during grain-fill.reached first hollow stem (3/8/18). Some freeze injury occurred during early April. Low foliar disease pressure during grain-fill.

Walters Wheat Variety Trial

Planting & harvest dates: 10/19/17 & 5/30/18
Management: Dual-purpose
Tillage: No-till

Previous crop: Canola
Soil type: Foard silt loam
Soil test: pH = 4.9, P = 126, K = 416

Licensee	*Variety*	*Grain Yield*			*Test Weight*
		2017-18	*2-Year*	*3-Year*	*2017-18*
		----------bu/ac----------			*---lb/bu---*
KWA	Joe	72	-	-	61.4
LCS	LCS Chrome	69	45	-	59.0
OGI	Iba	68	44	40	62.2
OGI	Doublestop CL Plus	67	44	41	63.2
WestBred	WB4303	67	-	-	56.2
AgriPro	SY Rugged	65	-	-	60.4
OGI	Duster	63	41	42	61.6
OGI	Bentley	63	41	39	58.7
LCS	T158	63	-	-	60.7
AgriPro	SY Grit	62	-	-	58.5
OGI	Smith's Gold	62	39	-	59.9
OGI	Lonerider	60	-	-	59.5
AgriPro	SY Flint	59	38	40	61.9
LCS	LCS Pistol	57	39	36	59.5
WestBred	WB4721	56	-	-	62.4
OGI	Gallagher	56	37	38	59.2
WestBred	WB-Grainfield	55	35	32	58.2
LCS	LCS Mint	52	32	-	59.6
OGI	Ruby Lee	51	35	32	59.5
AgriPro	SY Benefit	50	-	-	60.1
Dyna-Gro	Long Branch	47	-	-	56.5
WestBred	WB4458	45	29	28	60.0
OGI	NF 101	43	-	-	58.9
OSU Experimentals					
	OK12716	68	45	-	59.4
	OCW05S616T-2	63	-	-	62.0
	OK13209	59	-	-	61.9
	Mean	**59**	**39**	**37**	**60.0**
	LSD (0.05)	**10**	**5**	**5**	**1.3**

Notes: Grain yields adjusted to 12 percent moisture. Shaded values are not statistically different from the highest value within a column. Plots were grazed from 12/7/17 through 2/28/18 at a stocking rate of 160 pounds per acre. TAM 204 and OK12206-2 were removed from the analysis due to feral hog damage prior to harvest. Low to moderate stripe and leaf rust pressure throughout grain-fill.

Afton Wheat Variety Trial

Planting & harvest dates: 10/20/17 & 6/8/18
Management: Grain-only
Tillage: Conventional

Previous crop: Corn
Soil type: Taloka silt loam
Soil test: pH = 7.2, P = 68, K = 236

Licensee	*Variety*	*Grain Yield*			*Test Weight*
		2017-18	*2-Year*	*3-Year*	*2017-18*
			----------bu/ac----------		*---lb/bu---*
WestBred	WB4269	57	-	-	59.2
OGI	Ruby Lee	51	46	45	59.9
OGI	Stardust	50	-	-	58.9
OGI	Smith's Gold	47	-	-	58.1
OGI	Doublestop CL Plus	46	38	38	62.4
KWA	Joe	45	36	-	59.3
AgriPro	SY Monument	45	39	-	57.6
LCS	T158	44	-	-	59.3
KWA	Zenda	42	-	-	59.5
KWA	Everest	42	-	-	60.7
AgriPro	SY Benefit	40	42	-	59.7
Watley	TAM 204	38	35	38	51.8
LCS	LCS Chrome	37	29	-	57.7
WestBred	WB-Grainfield	37	34	37	58.1
LCS	LCS Mint	36	32	-	58.2
WestBred	WB4515	35	-	-	57.7
WestBred	WB4458	34	33	32	57.2
AgriPro	SY Flint	33	34	35	59.4
OGI	Lonerider	33	34	-	55.1
OGI	Duster	29	31	35	56.3
OGI	Bentley	29	30	34	52.6
LCS	LCS Pistol	28	29	33	56.7
WestBred	WB4303	19	-	-	52.3
OSU Experimentals					
	OK14438	57	-	-	60.4
	OK12D22004-016	51	45	-	60.9
	OCW04S717T-6W	49	-	-	55.8
	OK14319	45	37	-	56.9
	OCW05S616T-2	43	-	-	61.4
	OK12206-2	41	39	-	56.9
	OCW03S580S-8F	36	-	-	55.2
	Mean	**41**	**36**	**36**	**57.8**
	LSD (0.05)	**7**	**6**	**5**	**1.4**

Notes: Grain yields adjusted to 12 percent moisture content. Shaded values are not statistically different from the highest value within a column. Extremely low levels of Fusarium head blight were present. However, severe Septoria leaf blotch and moderate to severe levels of powdery mildew were present during grain-fill. Gallagher and Iba were removed from the analysis due to poor stand establishment.

2017-2018 Oklahoma Wheat Variety Performance Tests – Heading Date and Plant Height

Licensee	Variety	Altus	Chickasha	Goodwell Irrigated	Lahoma	Stillwater	Altus	Chickasha	Goodwell Irrigated	Lahoma	Stillwater
		50% heading					plant height at harvest - inches				
AGSECO	AG Gallant	4/13	4/30	4/30	4/29	4/18	20	31	63	27	60
AGSECO	AG Icon	4/15	4/30	5/4	5/3	4/24	22	32	73	29	64
AgriMAXX	AM Eastwood	4/14	4/20	4/29	4/29	4/13	21	28	60	24	64
OGI	Bentley	4/13	4/24	5/3	5/3	4/23	23	34	82	31	67
AgriPro	Bob Dole	4/14	4/25	5/2	4/30	4/23	23	37	77	29	70
CROPLAN	CP78-26	4/20	4/30	5/1	5/3	5/1	19	35	74	32	71
OGI	Doublestop CL Plus	4/18	4/30	5/7	5/3	4/28	22	33	74	32	65
OGI	Duster	4/12	4/30	5/6	5/4	4/23	20	31	74	30	64
OGI	Gallagher	4/13	4/24	5/6	5/3	4/23	20	33	71	30	56
OGI	Iba	4/14	4/30	5/7	5/3	4/23	20	31	69	30	63
KWA	Joe	4/14	4/30	5/3	4/30	4/28	20	36	77	31	67
PlainsGold	Langin	4/12	4/23	5/1	4/29	4/18	21	29	64	29	63
KWA	Larry	4/15	4/30	5/7	5/2	4/23	20	34	71	29	64
LCS	LCS Avenger	4/21	4/24	5/6	5/4	4/28	19	31	61	28	64
LCS	LCS Chrome	4/20	5/4	5/3	5/4	4/28	22	33	68	30	66
LCS	LCS Mint	4/21	4/30	5/5	5/4	4/28	18	35	75	29	66
LCS	LCS Pistol	4/14	4/25	5/2	5/1	4/23	17	32	69	28	58
OGI	Lonerider	4/12	4/23	5/2	5/4	4/18	19	27	66	25	51
Dyna-Gro	Long Branch	4/22	4/30	5/5	5/4	5/1	22	35	73	32	72
OGI	NF 101	4/13	4/23	5/2	4/30	4/18	19	35	75	30	64
KWA	Oakley CL	4/20	4/30	5/7	5/4	4/28	19	34	72	29	63
OGI	Ruby Lee	4/11	4/23	5/2	5/1	4/22	21	34	78	30	63
OGI	Smith's Gold	4/12	4/24	5/4	5/3	4/26	17	32	72	28	59
OGI	Spirit Rider	4/13	4/30	5/7	5/4	4/24	20	32	67	29	59
OGI	Stardust	4/13	4/23	4/30	5/3	4/23	21	34	67	30	64
AgriPro	SY Achieve CL2	4/13	4/20	4/30	4/29	4/13	22	33	65	29	65
AgriPro	SY Benefit	4/14	4/23	5/1	4/30	4/23	19	32	72	28	65
AgriPro	SY Flint	4/12	4/30	5/2	5/4	4/23	20	31	68	27	63
AgriPro	SY Grit	4/13	4/30	5/1	5/3	4/18	22	35	73	29	62
AgriPro	SY Monument	-	-	5/7	5/4	4/23	-	-	74	30	65
AgriPro	SY Rugged	4/12	4/24	5/2	4/30	4/13	19	32	67	26	56
LCS	T158	4/17	4/24	5/2	4/30	4/23	19	32	66	29	62
Watley	TAM 112	4/11	5/3	4/29	4/29	4/22	20	34	72	30	64
AGSECO	TAM 114	4/20	4/30	5/1	5/2	4/28	18	32	72	30	63
Watley	TAM 204	4/14	4/23	5/1	5/3	4/28	21	33	65	27	64
WestBred	WB4269	4/10	4/24	5/2	4/30	4/23	18	30	66	26	59
WestBred	WB4303	4/11	4/23	5/1	4/30	4/13	22	31	67	27	61
WestBred	WB4458	4/12	4/20	5/2	4/30	4/18	21	32	72	27	65
WestBred	WB4515	4/17	4/30	5/2	5/4	4/28	19	33	67	29	64
WestBred	WB4721	4/17	4/30	5/2	5/3	4/28	22	33	72	30	65
WestBred	WB-Grainfield	4/19	4/25	5/4	5/1	4/23	20	35	72	29	63
WestBred	Winterhawk	4/13	4/26	5/4	5/1	4/23	19	34	73	30	69
KWA	Zenda	4/18	4/30	5/4	4/30	4/23	20	32	67	32	66
OSU Experimentals											
	OCW03S580S-8F	-	-	-	-	4/23	-	-	-	-	71
	OCW04S717T-6W	4/14	4/25	-	5/3	4/28	21	34	-	29	78
	OCW05S616T-2	4/14	4/24	5/2	4/30	4/25	19	34	76	29	79
	OK12206-2	4/15	4/30	5/5	5/3	4/26	19	33	67	26	64
	OK12716	4/13	4/25	5/1	5/3	4/23	21	33	73	32	72
	OK12D22004-016	-	4/20	4/29	4/30	4/13	-	28	60	26	60
	OK13209	4/13	4/25	-	5/3	4/23	23	34	-	32	70
	OK13621	4/11	4/23	5/1	4/29	4/16	20	32	73	29	72
	OK14319	-	-	-	5/3	4/26	-	-	-	27	70
	OK14438	-	-	-	-	4/23	-	-	-	-	70
	OK14P212	4/16	-	5/4	-	4/26	22	-	71	-	72
	OK168513	-	-	5/1	-	4/26	-	-	66	-	66
	Mean	**4/14**	**4/26**	**5/2**	**5/1**	**4/23**	**20**	**33**	**70**	**29**	**65**

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

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Northern Seed TriCal Forage
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Oklahoma Genetics Inc. (OGI)
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Varieties: Bentley, Doublestop CL Plus, Duster, Gallagher, Iba, Lonerider, Maton II, NF 101, NF 201, NF 402, Ruby Lee, Smith's Gold, Spirit Rider, Stardust

Oklahoma Foundation Seed Services (OSU)
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Wheat protein data are available in Extension Current Report CR-2135 Protein Content of Winter Wheat Varieties in Oklahoma, 2017-2018.

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