

# 2024 Kansas WHEAT SEED BOOK



*Kansas Crop  
Improvement Association*

**KANSAS STATE  
UNIVERSITY**

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HIGH PLAINS  
**JOURNAL™**

**KANSAS PERFORMANCE  
TESTS WITH WINTER WHEAT  
VARIETIES**

**REPORT OF PROGRESS 1186**  
Kansas State University Agricultural  
Experiment Station and Cooperative  
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## 2024 WHEAT CROP REVIEW

### Weather and Crop Development

#### *Fall growing conditions*

The 2023-24 winter wheat crop in Kansas had, overall, a great start to the growing season – with the exception of some areas around Hays and in the far northwest portion of the state. During September, the wheat growing areas of the state received anywhere from zero (in the two areas above) to as much as 3.25 inches of precipitation. This triggered much of western Kansas wheat to be sown, even though some of it was toward the early portion of the optimum sowing window (i.e., early- to mid-September).

These rainfalls coupled with timely sowing resulted in what was likely the best-looking fall emerged wheat crop in southwest Kansas during the last three to four years. Subsequently, most of the state received decent rain showers between October and November as well. Overall, the wheat growing region of the state received from ~0.25 to 6.50 inches of precipitation during the period from September 1 to November 30, 2023, resulting in excellent emergence and crop establishment in the fall across the state.

It is important to note, however, that the 2023-24 season occurred after three consecutive years of La Nina, which depleted subsoil moisture for the majority of the state. Thus, the crop was more dependent than usual on in-season rainfall due to primarily moisture-depleted subsoils. The fall was also relatively warm, with departure from normal temperatures during September to November ranging from +1 to +5 degrees Fahrenheit. These conditions were conducive for large amounts of biomass production by the wheat crop that emerged on time. Some wheat fields showed as much as ~2,000 pounds of dry matter production per acre in late November, whereas it has not been unusual to see ~500 pounds of dry matter per acre in the past few years that were less conducive for stand establishment and crop growth.

These conditions had a few major implications: first, the crop was in a good shape going into the winter, potentially prepared for harsher weather due to decent fall development. Second, the larger crop also demanded more water, likely using the majority of whatever water was available in the fall. For many fields in the Hays area and far northwest, which missed the September precipitation events, emergence did not occur until sometime in the winter, so the above implications did not apply. This crop had very variable stands due to the late emergence, which persisted through the growing season.

#### *Winter growing conditions*

With few exceptions, the winter was overall warmer than normal, with about average moisture (though with localized dry/wet patterns within the state) and a few large snowfall events. Departure from normal temperature during January to March ranged from zero to about +5 degrees Fahrenheit, and departure from normal precipitation ranged from –3 inches in parts of south central/southwest Kansas to +2.25 inches in parts of northwest Kansas. During an entire week in mid-January 2024, temperatures dropped to near -20 degrees Fahrenheit, which could have been conducive to winterkill except for the snowfall of up to 10 inches that accompanied the cold spell. Overall, winter conditions were still promising for a decent crop, although they continued to promote above average crop growth.

#### *Early spring growing conditions*

Warmer than average temperatures continued to be the norm during early spring, however drought conditions started to establish across the wheat growing region of the state (central and western Kansas). The period from February 1 to April 30 was +2 to +8 degrees Fahrenheit above normal, with departure from normal precipitation ranging from –6 to zero inches for the majority of the state (with exception of a limited region of northwest Kansas around Phillips and Norton counties that received up to +1.5 to +3 inches of precipitation compared to normal). This very dry spring had a few major consequences to the wheat crop: First, this is the time of the year when many growers are applying nitrogen and sulfur fertilizers, which need moisture to leach into the root zone and be absorbed by the crop. The dry conditions were not conducive for proper fertilizer incorporation into the soil, thus making it likely unavailable for crop uptake in large portions of the state. Second, due to warmer than average temperatures, the crop spring development started relatively early (mid-March in south central Kansas, as compared to some years in which it does not start until as late as the first ten days in April). Third, the dry conditions made the crop more prone to spring freeze damage, since dry soils do not have the same buffer capacity against temperature changes as wet soils. During the last week of March, the air temperatures dropped into the lower teens across the state, being sustained below 24 degrees Fahrenheit for as many as 16 hours. The wheat crop was well past the jointing stages of development in parts of south central and southwest Kansas, stages that are more sensitive to cold temperatures. This resulted in winterkill of many tillers due to cold damage, also impairing the crop's yield potential across the

state, especially in the region around Saline County and south to McPherson and Reno counties.

In general, the warmer than average coupled with dry conditions persisted through most of the month of May. However, there were a few scattered and spotty rainfall events during May that resulted in fields with good yield potential.

The combination of large biomass production in the fall and winter, with severely dry and warm spring conditions and a freeze event late March, with some scattered spring rainfall events resulted in extremely variable wheat conditions across the majority of the state.

The large fall biomass production required those particular fields to use more water during the unproductive vegetative stages of growth, running out of water during the subsequent dry spring. These fields became variable and wavy, with drought-stricken portions near the better, lower parts of the field that accumulated more water. Symptoms of extreme drought stress in these fields included extremely reduced plant height and biomass, and a delayed development that accelerated through the flowering period due to day length.

These fields were common in the southwest portion of the state, in the region from about Ness County south and west, as far east as the Stafford to Barber county lines. Beyond within-field variability in this region, there was very large field-to-field variability depending upon rainfall availability. For instance, it was common to have very low, estimated 20-bushel per acre fields just a few miles away from fields that could average 80 bushels per acre or more in mid-May. We usually see large differences due to cropping systems, especially in dry seasons where previous crop and cropping intensity can cause large differences on the yield potential of the wheat crop. Due to the spotty nature of the rainfall in the season, growers reported that crop status was considerably more related to rainfall distribution than to cropping systems. At times, continuous cropped fields performed better than fallow ground if the continuous cropping happened to receive some rain that the fallow ground did not.

#### *Grain filling period*

Starting during mid-May through early June, the departure from average precipitation became positive and the departure from average temperature became negative. A total of up to 6.5 inches of precipitation accumulated in this period, and temperatures were as many as 1 degree Fahrenheit below average. Combined, precipitation and temperature regimes were nearly ideal for grain yield development, ensuring some grain production and good test weight despite an already limited yield potential due to the spring drought. With grain filling period happening under predominantly cool and wet conditions, most growers were able to harvest an average crop with good

test weight. For some growers in parts of Norton and Phillips counties, yields were very high since that part of the state received some more rainfall events than other parts of the state. (Romulo Lollato, Kansas State University Extension Wheat Specialist and Chip Redmond, Kansas State University Mesonet Manager)

### **Diseases**

All three rusts (stripe rust, leaf rust, and stem rust) were active in the 2023-24 wheat crop with severe stripe rust observed in areas that received rainfall in early May. Conditions in Texas were favorable for stripe rust overwintering in the fall and high levels of stripe rust were confirmed in Texas in January and in Oklahoma in February. Stripe rust was confirmed in Sumner County, Kansas on April 9 and in subsequent counties in the weeks following, but generally stayed at low levels through April. May rainfall brought on more severe stripe rust in parts of the state. Leaf rust came on later in the season and was most severe in south-central counties. Stem rust was active in the state earlier than usual with higher-than-normal levels of this disease on susceptible varieties. Again, rust pressure was highly variable between fields due to variability in moisture patterns.

Wheat streak mosaic virus was widespread across the state, with high prevalence in the norther tier of counties. Interestingly, the virus was active at high levels again in the central corridor of the state with pockets of severe infection. Several fields tested positive for Triticum mosaic virus (TriMV) which appears to be increasing in prevalence. This is important, because the resistance genes that work against wheat streak mosaic virus are not effective against TriMV. WSMV, TriMV, and several other wheat viruses are vectored by the wheat curl mite (see note below in the Insects section about wheat curl mite abundance).

Notable levels of dryland foot rot/Fusarium foot rot were observed through south central Kansas. This disease can be easily confused with drought damage as it results in complete tiller death leading to white tillers. (Kelsey Andersen Onofre, Department of Plant Pathology, Kansas State University)

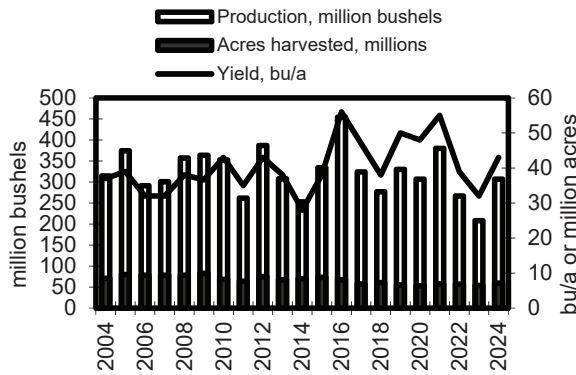
### **Insects**

Fortunately, wheat pests did not cause widespread problems to the 2023-2024 wheat crop. However, there were areas that did have problems. Army cutworm moths were noted depositing eggs in wheat fields in the fall of 2023. These eggs hatched, and the larvae started feeding in late fall 2023, and continued through the winter and early spring 2024. This larval leaf feeding, plus dry conditions in many areas of the state, caused the loss of many acres of wheat.

Another pest that seems to be on the increase across the state is wheat curl mites, which often vector some of the viruses that cause wheat streak mosaic disease. These mites populations can be reduced by controlling volunteer wheat. This is easily said but not always easily accomplished. But we are noting increases of wheat curl mites and Hessian flies, especially in the western third of Kansas. (Jeff Whitworth, Kansas State University Department of Entomology)

**Harvest Statistics**

The Kansas Agricultural Statistics’ July estimate of the 2024 crop was 307 million bushels from 7.15 million acres, up 53% from last year’s crop. Yield per harvested acre is expected to average 43 bushels per acre, up 8 bushels from last year’s final yield. (July 2024, *Crops Report*, Kansas Agricultural Statistics)



**Figure 1. Historical Kansas wheat production**

SY Monument remained the top-seeded variety in Kansas for the fifth consecutive year, accounting for 4.4% of the state’s planted acres. Winterhawk moved into the second position with 4.2%. Bob Dole tied WB Grainfield for third with 3.4%. SY Wolverine rounded out the top 5 with 3.1% of the seeded acreage in Kansas. (March 2024, *Wheat Variety*, Kansas Agricultural Statistics)

TAM 114	6.0	SY Monument	7.6	Rock Star	6.5
SY Wolverine	5.9	WB Grainfield	7.1	KS Venada (D)	
WB Grainfield	5.5	Winterhawk	3.6	LCS Chrome (D)	
Byrd	4.7	Bob Dole	3.1	TAM 111 (D)	
KS Dallas	4.7	WB 4422	2.8	Zenda (D)	
Canvas	11.4	SY Monument	11.2	WB 4515	9.3
Langin	9.6	Rock Star	6.8	Bob Dole	8.4
Joe+	7.9	Bob Dole	5.9	Zenda	4.4
T158	7.1	WB Grainfield	3.9	Everest	3.6
WB Grainfield	4.6	WB 4699	3.0	Pioneer 26R61 (D)	
Winterhawk	14.2	Bob Dole	8.6	Everest	6.5
Joe+	8.4	Doublestop CL Plus	5.4	Zenda	5.5
SY Wolverine	5.1	Zenda	5.4	WB4401	5.4
WB Grainfield	4.0	SY Monument	4.7	WB4515	3.1
WB 4792	3.4	Smith’s Gold	3.4	Doublestop CL Plus (D)	

**Figure 2. Leading wheat varieties in Kansas; percentage of seeded acreage for 2024 crop**

**2024 PERFORMANCE TESTS**

The Kansas Agricultural Experiment Station annually compares both new and currently grown varieties in the state’s major crop-producing areas. These performance tests generate unbiased performance information designed to help Kansas growers select wheat varieties suited for their area and conditions.

One-year or one-location results can be misleading because of the possibility of unusual weather or pest conditions. **Be sure to keep extenuating environmental conditions in mind when examining test results.** For more information please visit: [agronomy.k-state.edu/outreach-and-services/crop-performance-tests](http://agronomy.k-state.edu/outreach-and-services/crop-performance-tests).

**Varieties**

Public varieties are selected for inclusion in the tests on the basis of several criteria. Most represent new or established varieties from Oklahoma, Texas, and Colorado with potential for successful use in Kansas entered at the request of the originating institution.

Originators or marketers enter privately developed varieties voluntarily. Entrants choose both the entries and test sites. The 2024 entrants are listed in Table 1.

**Results and Variety Characterization**

Results from Kansas tests are presented in Tables 3 through 9. Yields are reported as bushels per acre (60 lb/bu) and are adjusted to a moisture content of 13% where moistures were reported at harvest. Yields also are converted to percentages of the test average to speed recognition of the highest-yielding entries. Multi-year averages are presented for those varieties entered more than 1 year.

Additional information such as test weight, heading date, and plant height is helpful for fine-tuning variety comparisons. Planting varieties with a range of maturities helps minimize weather risks.

At the bottom of each table is the (0.05) least significant difference (LSD) for each column of replicated data. One can think of the LSD as a “margin of error” that shows how big the difference between two varieties must be for one to be 95% confident that the difference is real. The use of the LSD is intended to reduce the chance of overemphasizing small differences. Small variations in soil structure, fertility, water-holding characteristics, and other test-site characteristics can cause considerable yield variation among plots of one variety.

**Electronic Access**

To access crop performance testing information electronically, visit the website at: [agronomy.k-state.edu/outreach-and-services/crop-performance-tests](http://agronomy.k-state.edu/outreach-and-services/crop-performance-tests)

## Research and Duplication Policy

When companies submit entries, permission is given to Kansas State University to test varieties and/or hybrids designated on the entry forms in the manner indicated in the test announcements. Seed submitted for testing should be a true sample of the seed being offered for sale.

All results from Kansas Crop Performance Tests belong to the university and the public and shall be controlled by the university to produce the greatest benefit to the public. Performance data may be used in the following ways: 1) Tables may be reproduced in their entirety, provided the source is referenced and data are not manipulated or reinterpreted; and 2) advertising statements by an individual company about the performance of its entries may be made as long as they are accurate statements about the data as published, with no reference to other companies' names or cultivars. In both cases, the following must be included with the reprint or ad citing the appropriate publication number and title: "See the official Kansas State University Agricultural Experiment Station and Cooperative Extension Service Report of Progress 1186 '2024 Kansas Performance Tests with Winter Wheat Varieties,' or the Kansas Crop Performance Test website, [agronomy.k-state.edu/outreach-and-services/crop-performance-tests](http://agronomy.k-state.edu/outreach-and-services/crop-performance-tests) for details. Endorsement or recommendation by Kansas State University is not implied."

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Brian Yutzy, Hutchinson



**Table 1. Entrants in the 2024 Kansas wheat performance tests**

**AgriMAXX Wheat Company**  
7167 Highbanks Road  
Mascoutah, IL 62258  
855-629-9432

**ARMOR/CROPLAN**  
4001 Lexington Ave N  
Arden Hills, MN 55126  
651-481-2222

**PlainsGold**  
4026 S. Timberline Road  
Fort Collins, CO 80525  
970-702-1460

**AgriPro Wheat, Inc.**  
11783 Ascher Rd.  
Junction City, KS 66441  
620-532-6283

**Kansas Wheat Alliance**  
1900 Kimball Avenue  
Manhattan, KS 66502  
785-320-4080

**Polansky Seed, Inc**  
2729 M Street  
Belleville, KS 66935  
785-527-2271

**Agricultural Research Center-KAES**  
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Hays, KS 67601  
785-625-3425

**Limagrain Cereal Seeds**  
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Fort Collins, CO 80525  
970-231-8875

**Watley Seed Company**  
10590 Texas HWY 15  
Spearman, TX 79081  
806-659-3838

**AGSECO**  
P.O. Box 7  
Girard, KS 66743  
620-724-6223

**Oklahoma Genetics, Inc**  
P.O. Box 2113  
Stillwater, OK 74076-2113  
405-744-7741

**WestBred-Bayer Crop Sci.**  
800 North Lindbergh Boulevard  
St. Louis, MO 63167  
314-694-1000

**Table 2. Comparisons of leading winter wheat varieties--agronomy and quality**

Variety <sup>1</sup>	% of Kansas acres 2024	Agronomic Ratings <sup>2</sup>			Relative milling and quality <sup>3</sup>	Resistance or tolerance to: <sup>2</sup>											
		Straw strength	Maturity	Height		Soil-mosaic	Spindle mosaic	Wheat mosaic	Barley dwarf	Leaf rust	Stem rust	Septoria		Tan spot	Powd-mildew	Head scab	Hes-fly
SY Monument	4.4	5	8	6	AC	1	1	7	6	4	5	5	4	5	5	7	7
Winterhawk	4.2	5	5	8	AC	1	1	7	5	7	6	7	6	6	6	7	3
Bob Dole	3.4	5	5	8	EX	1	--	8	7	1	1	1	3	3	5	5	9
WB Grainfield	3.4	3	6	7	AC	1	1	8	7	6	7	7	6	6	6	7	8
SY Wolverine	3.1	1	3	3	AC	1	--	5	5	4	1	7	4	4	3	9	9
Joe+	2.8	2	7	7	AC	8	8	6	7	7	3	8	3	8	5	7	2
Langin	2.2	6	5	3	EX	1	1	7	--	7	8	3	7	8	7	8	8
Canvas	2.1	1	5	3	EX	5	--	1	--	7	1	1	--	--	--	--	--
TAM 114	2.1	4	6	6	EX	8	8	7	6	4	7	3	5	7	5	7	7
Zenda	2.1	2	4	6	AC	1	1	7	5	3	4	4	4	5	5	4	5
T158	1.8	1	3	5	AC	2	2	5	5	8	8	3	7	4	2	8	4
Rock Star	1.6	2	6	5	--	1	1	6	6	5	3	2	3	3	7	6	--
Doublestop CL Plus	1.5	2	9	7	AC	1	1	6	6	3	2	4	6	6	5	8	9
WB 4792	1.5	--	7	5	EX	8	--	5	3	1	--	--	--	5	7	9	3
WB 4699	1.3	--	7	1	AC	3	--	5	3	3	--	--	--	3	1	5	5
AP Bigfoot	1.1	4	3	3	AC	1	--	3	5	1	1	3	3	3	--	7	9
WB 4515	1.1	2	7	5	AC	1	--	9	3	7	1	5	5	5	9	9	5
KS Dallas	1.0	5	5	5	AC	9	--	1	2	1	1	5	--	--	7	9	7
Byrd	0.9	1	5	5	AC	2	2	5	7	8	8	8	--	7	3	7	9
Everest	0.9	5	1	6	LD	1	1	7	4	3	8	8	4	7	3	4	6
KS Providence	0.9	2	5	5	AC	1	--	5	5	1	3	5	5	3	3	8	9
LCS Chrome	0.9	3	8	7	AC	1	1	7	7	2	2	4	4	4	6	7	1
TAM 111	0.9	5	5	7	AC	9	--	7	7	9	1	1	5	3	7	7	7
WB 4462	0.9	6	5	5	AC	1	1	7	5	6	2	2	7	7	7	7	9
LCS Atomic AX	0.8	1	1	4	LD	1	--	--	--	5	9	1	5	--	1	8	--
LCS Chrome	0.8	2	7	7	AC	1	--	7	5	1	3	5	3	3	5	7	1
Smith's Gold	0.8	5	5	5	EX	1	--	--	5	3	1	1	3	7	3	9	1
SY Rugged	0.7	5	3	1	EX	1	--	7	9	3	1	1	7	7	7	9	9
Oakley CL	0.6	6	7	7	AC	7	7	3	6	5	2	4	5	6	2	5	9
SY Grit	0.6	1	5	7	AC	1	--	7	5	7	1	5	5	2	7	9	9
WB 4401	0.6	5	3	3	EX	1	--	9	5	3	1	3	5	7	1	8	7
Jagger	0.5	7	1	5	EX	3	--	5	9	9	5	7	3	3	7	7	9
KS Western Star	0.5	2	4	6	AC	8	8	7	7	8	3	8	5	6	6	7	6
Blends	5.5																
Other White	1.5																
Other Red	36.3																
Other Soft	4.7																

<sup>1</sup> Varieties and percentage seeded acreage from the March 2024 wheat variety survey, Kansas Agricultural Statistics, Topeka, KS.  
<sup>2</sup> Ratings by Andersen et al., Final ratings and descriptions of disease and insect pests are available in "Kansas Wheat Variety Guide 2024" Publication MF991 from Kansas State University.  
<sup>3</sup> Ratings from K-State Wheat Quality Laboratory and USDA-ARS Hard Winter Wheat Quality Laboratory. EX= excellent baking quality; AC=acceptable baking quality; LD= least desirable baking quality.

Table 3. 2024 NORTH CENTRAL Kansas dryland winter wheat performance test

Brand / Name	BE <sup>1</sup>	BL <sup>2</sup>	Av.	BE	BL	Av.	BE	BL	Av.
	yield (bu/a)			% of test average			tw (lb/bu)		
<b>AGRIPRO</b>									
AP PROLIFIC	55.3	25.8	40.5	97.9	92.2	95.0	58.5	52.2	55.4
AP Bigfoot	48.9	23.6	36.3	86.6	84.4	85.5	58.1	49.0	53.6
AP24 AX	57.6	25.7	41.6	101.9	91.9	96.9	57.2	52.5	54.8
SY Wolverine	55.2	30.1	42.7	97.7	107.7	102.7	58.9	55.4	57.2
<b>AGSECO</b>									
AG Icon	40.3	28.3	34.3	71.3	101.2	86.2	59.2	53.9	56.6
AG Golden	62.4	27.3	44.9	110.4	97.7	104.1	56.9	51.1	54.0
AG Radical	50.2	31.3	40.7	88.9	111.7	100.3	57.3	55.4	56.3
<b>ARMOR</b>									
AR Iron Eagle 22AX	54.0	29.9	41.9	95.5	106.8	101.1	58.6	53.4	56.0
<b>CROPLAN</b>									
CP7017 AX	51.7	33.6	42.6	91.5	120.0	105.8	58.7	57.2	57.9
CP7266AX	51.4	20.9	36.2	91.1	74.7	82.9	57.5	50.0	53.8
CP7909	53.6	28.9	41.2	94.8	103.2	99.0	57.8	54.0	55.9
CP7869	60.5	28.1	44.3	107.0	100.6	103.8	58.7	52.7	55.7
CP7220	56.1	33.0	44.5	99.3	118.0	108.6	58.2	56.6	57.4
<b>KWA</b>									
KS BILL SNYDER	72.3	24.6	48.4	128.0	87.9	108.0	60.0	57.4	58.7
KS MAKO	73.1	27.4	50.2	129.4	97.8	113.6	59.9	52.1	56.0
KS PROVIDENCE	54.1	28.8	41.4	95.8	102.9	99.3	58.3	53.3	55.8
<b>LIMAGRAIN</b>									
LCS Atomic AX	54.8	30.8	42.8	96.9	110.2	103.6	59.6	57.4	58.5
LCS Helix AX	61.6	33.8	47.7	109.0	120.7	114.8	60.0	57.5	58.7
LCS Julep	49.8	24.1	36.9	88.1	86.1	87.1	58.2	49.1	53.6
LCS Radar	42.7	21.3	32.0	75.6	76.1	75.9	59.4	49.0	54.2
LCS Runner	52.9	27.7	40.3	93.7	99.0	96.3	58.2	53.9	56.0
LCS Steel AX	54.9	25.6	40.2	97.1	91.7	94.4	56.9	52.0	54.5
LCS Warbird	67.2	28.7	48.0	118.9	102.8	110.8	59.0	54.6	56.8
<b>OGI</b>									
Showdown	63.7	30.1	46.9	112.7	107.4	110.1	58.0	54.7	56.3
Paradox	50.3	24.9	37.6	89.1	88.9	89.0	57.7	53.2	55.4
<b>PLAINSGOLD</b>									
Canvas	64.7	30.3	47.5	114.5	108.4	111.5	59.6	55.4	57.5
Crescent AX	52.9	34.7	43.8	93.6	124.2	108.9	59.5	57.1	58.3
CO18D297R	53.9	27.2	40.5	95.4	97.2	96.3	58.2	52.6	55.4
<b>POLANSKY</b>									
Rock Star	62.6	27.8	45.2	110.8	99.3	105.1	57.7	53.0	55.3
Paradise	65.6	25.5	45.6	116.2	91.3	103.8	58.7	55.2	57.0
High Country	51.5	27.3	39.4	91.2	97.7	94.4	59.4	54.4	56.9
Golden Hawk	55.3	29.3	42.3	97.9	104.8	101.3	57.4	53.0	55.2
<b>WESTBRED</b>									
WB4347	60.1	35.0	47.6	106.5	125.2	115.8	59.7	57.3	58.5
WB4401	73.6	27.7	50.6	130.2	99.0	114.6	59.8	53.8	56.8
WB4422	54.9	25.6	40.2	97.2	91.4	94.3	58.6	55.5	57.1
WB4523	59.6	23.0	41.3	105.6	82.2	93.9	58.5	56.1	57.3
WB4699	41.1	27.3	34.2	72.8	97.8	85.3	56.2	54.9	55.6
AVERAGE	56.5	28.0	42.2	100.0	100.0	100.0	58.5	53.7	56.1
CV (%)	4.3	2.4	--	4.3	2.4	--	0.4	1.2	--
LSD (0.05)	7.8	3.4	--	13.9	12.2	--	1.0	3.2	--

<sup>1</sup>BE=Belleville, KS, North Central Experiment Field, Republic County.

<sup>2</sup>BL=Beloit, KS, Marty Fletchall's field, Mitchell County.

\*Yields must differ by more than the LSD value to be considered statistically different.

**Table 3 continued. 2024 NORTH CENTRAL Kansas dryland winter wheat performance test**

2023-2024 Season	Belleville	Beloit
Date Planted	10/20/2023	11/30/2023
Previous Crop	soybean	soybean
Primary Tillage	no till	no till
Fertility	90-0-0 lbs/a N, P, K	41-0-0 lbs/a N, P, K
Date Harvested	7/5/2024	7/23/2024
Seasonal precipitation (inches)	16.79	12.23
Normal precipitation (inches)	19.48	19.72

**NORTH CENTRAL multi-year averages (2022-2024)**

Brand / Name	-BE-		BL	
	2 yr	3 yr	2 yr	3 yr
	(bushels/acre)			
<b>AGRIPRO</b>				
AP BIGFOOT	31.4	28.2	--	55.2
AP PROLIFIC	37.5	33.7	--	56.8
SY WOLVERINE	46.2	40.0	--	56.7
<b>AGSECO</b>				
AG ICON	29.1	27.8	--	54.9
AG RADICAL	37.2	32.8	--	55.4
<b>KWA</b>				
KS MAKO	48.0	--	--	--
KS PROVIDENCE	37.4	34.5	--	56.0
<b>LIMAGRAIN</b>				
LCS ATOMIC AX	34.8	32.0	--	59.3
LCS HELIX AX	40.7	34.4	--	62.4
LCS Julep	33.4	30.7	--	52.9
LCS Runner	--	40.3	--	59.9
LCS Steel AX	37.0	32.9	--	58.0
<b>OGI</b>				
SHOWDOWN	43.0	37.1	--	58.7
<b>POLANSKY</b>				
HIGH COUNTRY	34.1	29.9	--	54.7
PARADISE	40.6	33.8	--	51.4
ROCK STAR	42.1	36.0	--	59.1
<b>WESTBRED</b>				
WB4401	44.7	38.2	--	59.9
WB4422	38.0	32.4	--	57.0
WB4523	38.3	33.9	--	52.7
WB4699	32.3	29.9	--	56.0
AVERAGE	38.2	33.6	--	56.7

Table 4. 2024 SOUTHEAST Kansas dryland winter wheat performance test

Brand / Name	OT <sup>1</sup>	PA <sup>2</sup>	Av.	OT	PA	Av.	OT	PA	Av.	PA	PA
	yield (bu/a)			% of test average			test weight (lb/bu)			heading (date)	ht (in)
<b>AGRIPRO</b>											
AP PROLIFIC	38.4	95.9	67.1	105.3	100.9	103.1	48.7	59.5	54.1	21-Apr	31.3
<b>AGSECO</b>											
AG Radical	29.4	103.7	66.5	80.7	109.1	94.9	48.3	58.8	53.5	18-Apr	32.8
<b>KWA</b>											
Everest	28.5	81.1	54.8	78.2	85.3	81.7	51.2	60.3	55.8	16-Apr	30.3
KS PROVIDENCE	50.8	98.6	74.7	139.5	103.7	121.6	49.9	59.1	54.5	17-Apr	30.8
Zenda	38.8	85.1	62.0	106.4	89.6	98.0	50.7	60.0	55.4	19-Apr	30.8
<b>LIMAGRAIN</b>											
LCS Atomic AX	36.5	95.7	66.1	100.2	100.7	100.4	52.5	59.2	55.9	16-Apr	31.3
LCS Runner	28.8	91.8	60.3	79.1	96.6	87.8	46.0	58.9	52.5	20-Apr	31.3
<b>OGI</b>											
High Cotton	34.0	87.9	60.9	93.2	92.5	92.9	47.4	60.2	53.8	19-Apr	32.0
<b>POLANSKY</b>											
Rock Star	40.3	96.1	68.2	110.7	101.1	105.9	48.0	58.3	53.2	23-Apr	30.3
High Country	28.0	84.7	56.3	76.8	89.1	83.0	48.8	59.4	54.1	16-Apr	30.0
Golden Hawk	46.2	98.4	72.3	126.7	103.5	115.1	47.5	58.8	53.2	23-Apr	34.3
<b>WESTBRED</b>											
WB4401	34.5	100.7	67.6	94.6	105.9	100.3	46.2	58.7	52.5	16-Apr	31.5
WB4422	37.4	102.3	69.8	102.7	107.6	105.2	48.4	60.6	54.5	23-Apr	34.5
WB4523	38.8	103.5	71.2	106.4	108.9	107.7	46.8	58.9	52.9	16-Apr	29.0
WB4699	36.2	100.3	68.3	99.4	105.5	102.5	48.6	58.8	53.7	22-Apr	30.3
AVERAGE	36.4	95.1	65.7	100.0	100.0	100.0	48.6	59.3	53.9	19-Apr	31.3
CV (%)	6.4	5.3	--	6.4	5.3	--	2.3	0.6	--	1.5	1.1
LSD (0.05)*	6.2	7.1	--	17.1	7.4	--	1.8	0.7	--	2.7	1.5

<sup>1</sup> OT=Ottawa, Kansas, East Central Experiment Field, Franklin County.

<sup>2</sup> PA=Parsons, Kansas, Southeast Research-Extension Center, Labette County.

\* Yields must differ by more than the LSD value to be considered statistically different.

2023-2024 Season	Ottawa	Parsons
Date Planted	11/16/2023	10/4/2023
Previous Crop	soybean	corn
Primary Tillage	strip	no till
Fertility	123-50-50 lbs/a N, P, K	125-50-50 lbs/a N, P, K
Date Harvested	7/3/2024	6/7/2024
Seasonal precipitation (inches)	25.9	30.2
Normal precipitation (inches)	24.8	27.9

#### SOUTHEAST Kansas multi-year averages (2022-2024)

Brand / Name	-OT-		-PA-	
	2 yr	3 yr	2 yr	3 yr
	(bushels/acre)			
<b>AGRIPRO</b>				
PROLIFIC	51.8	60.2	82.8	82.6
<b>AGSECO</b>				
AG RADICAL	48.7	54.6	95.3	88.6
<b>KWA</b>				
EVEREST	46.3	50.3	73.3	70.2
KS PROVIDENCE	64.7	66.4	82.6	77.2
ZENDA	53.9	57.9	71.6	72.8
<b>POLANSKY</b>				
HIGH COUNTRY	46.2	--	74.7	--
ROCK STAR	56.9	59.9	83.8	81.9
<b>WESTBRED</b>				
WB4401	53.7	56.2	92.3	86.0
WB4422	56.0	64.4	91.4	89.2
WB4523	56.5	64.7	92.1	85.5
WB4699	49.0	56.0	88.4	89.6
AVERAGE	53.1	59.1	84.4	82.4

**Table 5. 2024 SOUTHEAST Kansas SOFT winter wheat performance test**

Brand / Name	OT <sup>1</sup>	PA <sup>2</sup>	Av.	OT	PA	Av.	OT	PA	Av.	PA	PA
	yield (bu/a)			% of test average			test weight (lb/bu)			heading (date)	height (in)
<b>AGRIMAXX</b>											
AM 492	44.4	102.1	73.2	100.6	100.2	100.4	52.6	60.0	56.3	16-Apr	30.8
AM 503	46.0	105.0	75.5	104.3	103.0	103.7	52.0	59.5	55.8	22-Apr	33.0
AM 505	51.4	103.2	77.3	116.6	101.3	108.9	52.7	59.1	55.9	22-Apr	31.5
AM 513	44.6	101.2	72.9	101.2	99.3	100.2	49.6	58.6	54.1	22-Apr	31.8
AM 514	36.0	104.8	70.4	81.6	102.8	92.2	48.9	57.4	53.1	22-Apr	32.0
AM 535	49.2	104.1	76.6	111.6	102.1	106.9	50.9	58.0	54.4	22-Apr	31.8
AM 545	48.6	101.4	75.0	110.3	99.5	104.9	49.4	56.7	53.0	24-Apr	31.8
EXP2405	48.6	<b>110.5</b>	79.6	110.2	108.5	109.3	50.6	57.3	54.0	23-Apr	31.0
<b>PIONEER</b>											
P25R65	38.4	104.8	71.6	87.2	102.8	95.0	48.7	57.0	52.8	23-Apr	32.3
P25R74	44.8	104.1	74.5	101.7	102.2	101.9	50.5	58.3	54.4	21-Apr	23.8
P25R76	40.3	91.3	65.8	91.4	89.6	90.5	51.1	58.8	54.9	18-Apr	31.8
<b>WESTBRED</b>											
WB24545	46.5	97.4	71.9	105.4	95.6	100.5	51.5	59.3	55.4	23-Apr	31.5
WB2606	34.4	95.0	64.7	78.0	93.2	85.6	47.6	58.6	53.1	24-Apr	31.3
AVERAGE	44.1	101.9	73.0	100.0	100.0	100.0	50.5	58.3	54.4	21-Apr	31.1
CV (%)	7.7	5.6	--	7.7	5.6	--	1.6	1.0	--	0.8	2.1
LSD (0.05)*	5.1	4.8	--	11.6	4.7	--	1.5	1.0	--	2.3	2.2

<sup>1</sup> OT=Ottawa, Kansas, East Central Experiment Field, Franklin County.

<sup>2</sup> PA=Parsons, Kansas, Southeast Research-Extension Center, Labette County.

\* Yields must differ by more than the LSD value to be considered statistically different. Top LSD value in bold.

2023-2024 Season	Ottawa	Parsons
Date Planted	11/16/2023	10/4/2023
Previous Crop	soybean	corn
Primary Tillage	strip	no till
Fertility	123-50-50 lbs/a N, P, K	125-50-50 lbs/a N, P, K
Date Harvested	7/3/2024	6/7/2024
Seasonal precipitation (inches)	25.9	30.2
Normal precipitation (inches)	24.8	27.9

**SOUTHEAST Kansas SOFT multi-year averages (2022-2024)**

Brand / Name	-OT-		-PA-	
	2 yr	3 yr	2 yr	3 yr
	(bushels/acre)			
<b>AgriMAXX</b>				
AM 503	64.9	--	91.0	87.5
AM 505	65.4	--	94.5	92.6
AM 513	61.4	--	91.3	--
AM 514	55.9	--	94.7	92.3
AM 535	61.4	--	94.2	--
<b>PIONEER</b>				
P25R74	--	--	--	98.4
P25R76	--	--	--	85.2
<b>WESTBRED</b>				
WB2606	53.6	--	--	88.9
AVERAGE	60.4	--	93.1	90.8

Table 6. 2024 CENTRAL Kansas dryland winter wheat performance test

Brand / Name	EL <sup>1</sup>	HL <sup>2</sup>	AS <sup>3</sup>	Av.	EL	HL	AS	Av.	EL	HL	AS	Av.	
	yield (bu/a)				% of test average				test weight (lb/bu)				
<b>AGRIPRO</b>													
AP PROLIFIC	63.5	75.6	72.1	70.4	97.2	105.0	100.2	100.8	59.3	57.9	57.9	58.3	
AP24 AX	65.0	77.3	72.1	71.5	99.6	107.4	100.2	102.4	58.5	57.6	56.2	57.4	
Bigfoot	81.6	70.4	72.4	74.8	124.9	97.8	100.6	107.8	60.1	56.7	57.8	58.2	
SY Wolverine	62.5	76.6	73.1	70.7	95.8	106.4	101.5	101.2	59.0	53.2	56.3	56.2	
<b>AGSECO</b>													
AG Icon	68.6	63.1	73.0	68.2	105.0	87.7	101.5	98.1	59.9	58.8	58.1	58.9	
AG Radical	59.1	78.0	71.9	69.7	90.5	108.4	100.0	99.6	57.3	57.4	56.5	57.1	
<b>KWA</b>													
KS Ahearn	75.2	72.7	73.5	73.8	115.1	101.0	102.1	106.1	60.3	58.3	58.0	58.9	
KS Bill Snyder	76.4	65.2	80.3	74.0	117.0	90.7	111.5	106.4	60.1	57.0	58.5	58.5	
KS Hatchett	57.3	73.4	63.2	64.6	87.7	101.9	87.8	92.5	57.6	56.9	56.6	57.0	
KS Mako	60.6	63.5	78.3	67.5	92.8	88.3	108.8	96.6	59.6	59.3	59.0	59.3	
KS Providence	65.9	75.9	76.7	72.8	100.9	105.4	106.6	104.3	59.7	57.9	59.0	58.8	
<b>LIMAGRAIN</b>													
LCS Atomic AX	58.0	75.5	68.4	67.3	88.8	105.0	95.1	96.3	59.5	58.5	58.0	58.7	
LCS Helix AX	86.1	73.8	73.1	77.7	131.9	102.6	101.5	112.0	60.6	58.9	58.6	59.3	
LCS Julep	48.9	61.5	72.4	60.9	74.9	85.4	100.6	87.0	58.9	56.6	58.0	57.8	
LCS Runner	60.4	73.4	72.7	68.9	92.5	102.0	101.1	98.6	59.5	58.0	57.5	58.3	
LCS Steel AX	69.6	74.9	72.8	72.4	106.6	104.1	101.1	103.9	61.0	59.1	57.6	59.2	
LCS Warbird AX	49.3	69.5	71.7	63.5	75.6	96.5	99.7	90.6	58.8	59.0	58.8	58.9	
<b>OGI</b>													
Doublestop CL+	56.1	63.8	66.8	62.2	85.9	88.6	92.8	89.1	60.5	58.1	59.3	59.3	
High Cotton	65.4	72.8	72.7	70.3	100.1	101.1	101.1	100.8	59.5	57.6	58.1	58.4	
OK Corral	64.7	64.0	68.7	65.8	99.1	88.9	95.4	94.5	58.5	56.5	57.3	57.4	
Paradox	69.1	72.8	65.8	69.2	105.8	101.1	91.5	99.5	59.6	55.7	57.3	57.5	
Showdown	53.0	74.0	75.3	67.4	81.2	102.9	104.6	96.2	58.7	56.9	57.7	57.8	
<b>PLAINSGOLD</b>													
Canvas	74.3	74.8	69.2	72.8	113.8	103.9	96.1	104.6	60.6	59.0	59.0	59.5	
CO18D297R	78.4	64.5	77.0	73.3	120.1	89.6	107.0	105.6	61.0	59.0	58.2	59.4	
Crescent AX	64.7	72.8	60.6	66.0	99.1	101.2	84.2	94.8	59.1	58.3	58.3	58.5	
Kivari AX	61.5	77.5	80.7	73.2	94.1	107.6	112.1	104.6	58.2	57.9	57.4	57.8	
<b>POLANSKY</b>													
Golden Hawk	64.0	74.0	66.4	68.1	98.0	102.8	92.3	97.7	58.4	57.5	56.8	57.5	
High Country	62.8	73.9	65.3	67.3	96.1	102.7	90.8	96.5	58.6	57.8	57.4	58.0	
Paradise	62.4	67.8	62.0	64.0	95.5	94.2	86.1	91.9	59.4	57.8	57.8	58.3	
Rockstar	70.3	75.6	77.0	74.3	107.7	105.0	107.0	106.6	60.1	57.6	58.0	58.6	
<b>WESTBRED</b>													
WB4401	66.4	75.0	69.8	70.4	101.7	104.2	97.0	101.0	58.7	56.8	57.9	57.8	
WB4422	80.3	71.7	69.9	74.0	122.9	99.7	97.1	106.6	60.9	58.5	58.9	59.4	
WB4445CLP	71.7	72.3	77.7	73.9	109.9	100.4	107.9	106.1	60.8	59.5	58.5	59.6	
WB4523	58.4	73.1	78.7	70.0	89.4	101.6	109.3	100.1	59.4	57.5	58.2	58.4	
WB4699	53.9	78.5	77.4	69.9	82.5	109.1	107.6	99.7	58.3	56.1	56.6	57.0	
AVERAGE	65.3	72.0	72.0	69.7	100.0	100.0	100.0	100.0	59.4	57.7	57.9	58.3	
CV (%)	10.7	6.5	5.3	--	10.7	6.5	5.3	--	0.8	0.9	0.3	--	
LSD (0.05)*	8.8	4.7	8.8	--	13.4	6.6	12.3	--	0.9	1.2	1.4	--	

<sup>1</sup>EL=Ellsworth, KS, farmer's field, Ellsworth County.<sup>2</sup>HL= Hillsboro, KS, farmer's field, Marion County.<sup>3</sup>AS=Assaria, KS, farmer's field, Saline County.

\*Yields must differ by more than the LSD value to be considered statistically different.

2023-2024 Season	Ellsworth	Hillsboro	Assaria
Date Planted	10/2/2023	10/18/2023	10/18/2023
Previous Crop	wheat	failed wheat	soybean
Primary Tillage	minimum	conventional	conventional
Date Harvested	6/19/2024	6/25/2024	6/20/2024
Seasonal precipitation (inches)	16.0	18.6	17.9
Normal precipitation (inches)	18.6	22.3	19.7

Table 6 continued. 2024 CENTRAL Kansas dryland winter wheat performance test

## CENTRAL Kansas multi-year averages (2022-2024)

Brand / Name	-EL-		-HL-	-AS-	
	2 yr	3 yr	3 yr	2 yr	3 yr
	(bushels/acre)				
<b>AGRIPRO</b>					
AP BIGFOOT	58.2	59.4	77.6	59.1	56.2
AP PROLIFIC	47.9	55.7	84.3	62.7	56.9
SY WOLVERINE	44.4	57.3	88.8	63.4	59.3
<b>AGSECO</b>					
AG ICON	54.3	56.9	70.0	64.3	59.2
AG RADICAL	48.3	53.3	84.6	64.6	60.9
<b>KWA</b>					
KS AHEARN	51.1	58.2	75.9	61.7	56.3
KS HATCHETT	43.4	53.7	77.8	56.4	53.6
KS MAKO	56.8	--	--	67.1	--
KS PROVIDENCE	58.2	63.0	82.5	67.6	62.4
<b>LIMAGRAIN</b>					
LCS ATOMIC AX	46.2	50.2	81.3	60.9	57.3
LCS HELIX AX	60.3	64.8	80.4	62.2	58.5
LCS JULEP	46.3	56.9	74.8	65.9	60.3
LCS STEEL AX	53.3	63.5	82.3	65.6	60.3
<b>OGI</b>					
DOUBLESTOP CL PLUS	45.5	52.5	72.1	60.3	57.8
SHOWDOWN	45.0	54.4	81.0	62.3	58.3
<b>PLAINSGOLD</b>					
CANVAS	61.2	60.5	80.3	65.6	61.5
CRESCENT AX	47.6	52.3	77.9	56.2	53.2
KIVARI AX	54.5	61.6	76.7	67.3	63.2
<b>POLANSKY</b>					
HIGH COUNTRY	52.4	55.8	77.9	58.7	56.3
PARADISE	48.8	56.4	75.8	52.6	51.4
ROCK STAR	54.7	60.2	81.9	67.0	61.4
<b>WESTBRED</b>					
WB4401	49.6	55.4	85.3	62.8	56.7
WB4422	60.7	68.3	86.7	68.4	64.0
WB4523	46.4	54.3	77.7	65.1	59.8
WB4699	46.6	53.3	83.3	65.7	60.7
AVERAGE	51.3	57.4	79.9	62.9	58.6

Table 7. 2024 SOUTH CENTRAL Kansas dryland winter wheat performance test

Brand / Name	NW <sup>1</sup>	HU <sup>2</sup>	Av.	NW	HU	Av.	NW	HU	Av.
	yield (bu/a)			% of test average			test weight (lb/bu)		
<b>AGRIPRO</b>									
AP PROLIFIC	106.4	52.3	79.4	112.0	103.2	107.6	58.2	57.9	58.1
AP24 AX	99.6	31.6	65.6	104.8	62.3	83.6	56.1	57.1	56.6
Bigfoot	87.9	50.7	69.3	92.5	99.9	96.2	58.3	59.0	58.6
Roadrunner	97.1	53.6	75.3	102.2	105.6	103.9	56.4	56.5	56.4
SY Wolverine	99.5	48.3	73.9	104.7	95.3	100.0	57.7	57.2	57.5
<b>AGSECO</b>									
AG Icon	97.8	55.3	76.6	103.0	109.1	106.0	58.5	59.7	59.1
AG Radical	99.5	54.9	77.2	104.7	108.4	106.5	55.4	58.4	56.9
<b>ARMOR</b>									
AR Iron Eagle 22AX	99.4	50.7	75.1	104.6	100.0	102.3	57.3	59.6	58.5
<b>CROPLAN</b>									
CP7017AX	92.8	51.3	72.0	97.6	101.1	99.4	57.7	59.4	58.6
CP7220	93.9	45.6	69.8	98.8	90.0	94.4	58.0	59.8	58.9
CP7266AX	88.2	38.2	63.2	92.8	75.3	84.0	58.6	57.3	57.9
CP7869	97.4	59.2	78.3	102.5	116.8	109.7	56.9	58.8	57.8
CP7909	99.4	56.5	77.9	104.6	111.4	108.0	58.3	57.6	57.9
<b>KWA</b>									
KS Ahearn	93.1	49.1	71.1	98.0	96.8	97.4	56.9	57.6	57.2
KS Bill Snyder	104.2	53.5	78.8	109.7	105.5	107.6	58.0	58.0	58.0
KS Hatchett	94.7	49.0	71.8	99.7	96.6	98.1	56.7	57.8	57.2
KS Mako	98.6	43.1	70.8	103.8	84.9	94.4	59.0	59.0	59.0
KS Providence	101.1	40.4	70.8	106.4	79.8	93.1	57.2	57.8	57.5
Zenda	93.5	49.0	71.2	98.4	96.6	97.5	58.6	58.4	58.5
<b>LIMAGRAIN</b>									
LCS Atomic AX	92.8	60.8	76.8	97.6	119.9	108.7	58.8	58.9	58.8
LCS Galloway AX	84.9	33.0	58.9	89.3	65.0	77.2	57.8	58.9	58.3
LCS Helix AX	92.3	57.1	74.7	97.1	112.6	104.9	58.7	59.3	59.0
LCS Julep	93.7	43.0	68.3	98.6	84.9	91.7	58.3	57.6	57.9
LCS Runner	89.7	62.0	75.9	94.4	122.4	108.4	57.9	59.0	58.4
LCS Steel AX	98.0	43.4	70.7	103.2	85.6	94.4	56.2	57.4	56.8
LCS Warbird AX	94.4	61.3	77.8	99.3	120.8	110.1	58.6	59.3	59.0
<b>OGI</b>									
Doublestop CL+	93.0	57.5	75.2	97.9	113.4	105.6	59.5	58.8	59.1
Green Hammer	97.6	61.0	79.3	102.8	120.4	111.6	58.9	57.7	58.3
High Cotton	98.8	46.3	72.5	104.0	91.3	97.6	58.0	58.5	58.2
OK Corral	98.2	55.0	76.6	103.4	108.5	106.0	56.4	56.3	56.3
Paradox	94.3	56.1	75.2	99.3	110.6	104.9	56.8	56.3	56.5
Showdown	100.3	64.2	82.3	105.5	126.7	116.1	57.4	58.6	58.0
Smith's Gold	90.3	37.7	64.0	95.0	74.4	84.7	58.6	60.0	59.3
Strad CL+	95.8	53.4	74.6	100.8	105.2	103.0	58.0	57.8	57.9
Uncharted	86.6	45.1	65.9	91.1	89.0	90.1	57.9	56.7	57.3
<b>PLAINSGOLD</b>									
Canvas	88.6	60.7	74.6	93.2	119.7	106.5	56.5	59.8	58.2
CO18D297R	89.5	35.4	62.5	94.2	69.8	82.0	57.1	59.4	58.3
Crescent AX	82.0	54.2	68.1	86.3	106.9	96.6	58.0	58.7	58.4
Kivari AX	83.8	54.5	69.2	88.2	107.6	97.9	55.9	58.0	56.9
<b>POLANSKY</b>									
Golden Hawk	101.6	62.7	82.1	106.9	123.6	115.3	58.0	57.6	57.8
Paradise	89.4	65.1	77.3	94.1	128.5	111.3	58.3	58.7	58.5
Rockstar	95.8	46.7	71.2	100.8	92.0	96.4	56.2	58.0	57.1
<b>WESTBRED</b>									
WB4401	94.4	40.3	67.4	99.3	79.6	89.4	56.5	58.7	57.6
WB4422	105.4	55.4	80.4	110.9	109.3	110.1	58.8	58.5	58.6
WB4445CLP	97.2	54.5	75.8	102.3	107.4	104.9	58.8	59.6	59.2
WB4523	96.7	39.5	68.1	101.7	77.9	89.8	55.9	57.4	56.6
WB4699	97.2	44.8	71.0	102.3	88.4	95.3	56.4	56.5	56.5



**Table 7 continued. 2024 SOUTH CENTRAL Kansas dryland winter wheat performance test**

Brand / Name	NW <sup>1</sup>	HU <sup>2</sup>	Av.	NW	HU	Av.	NW	HU	Av.
AVERAGE	95.0	50.7	72.9	100.0	100.0	100.0	57.6	58.3	57.9
CV (%)	6.0	6.1	--	6.0	6.1	--	0.5	0.6	--
LSD (0.05)*	5.4	8.4	--	5.7	16.6	--	1.0	1.0	--

<sup>1</sup>NW=Newton, KS. farmer's field, Harvey County.

<sup>2</sup>HU= Hutchinson, KS, South Central Experiment Field, Reno County.

\*Yields must differ by more than the LSD value to be considered statistically different.

2023-2024 Season	Newton	Hutchinson
Date Planted	10/18/2023	10/20/2023
Previous Crop	soybean	fallow/failed canola
Primary Tillage	no till	conventional
Date Harvested	6/24/2024	6/21/2024
Seasonal precipitation (inches)	17.01	12.78
Normal precipitation (inches)	18.79	19.39

**SOUTH CENTRAL Kansas multi-year averages (2022-2024)**

Brand / Name	-NW-		-HU-	
	2 yr	3 yr	2 yr	3 yr
<b>AGRIPRO</b>				
AP BIGFOOT	58.8	58.6	54.6	60.8
AP PROLIFIC	75.0	68.0	58.5	60.7
SY WOLVERINE	76.4	70.2	54.7	59.0
<b>AGSECO</b>				
AG ICON	73.8	67.7	56.8	60.9
AG RADICAL	71.1	65.9	54.8	59.8
<b>CROPLAN</b>				
CP7017AX	68.2	62.7	56.5	62.2
CP7266AX	61.8	56.7	52.8	55.7
CP7909	70.5	67.9	54.6	61.9
<b>KWA</b>				
KS AHEARN	67.4	64.3	52.2	57.3
KS HATCHETT	66.0	64.0	51.4	54.6
KS PROVIDENCE	69.3	65.4	51.8	60.0
ZENDA	67.3	61.0	53.3	54.2
<b>LIMAGRAIN</b>				
LCS ATOMIC AX	66.6	64.2	53.1	57.3
LCS GALLOWAY	63.3	--	44.8	--
LCS HELIX AX	63.4	60.3	57.4	59.6
LCS JULEP	72.0	65.8	52.4	55.8
LCS RUNNER	--	73.2	--	69.3
LCS STEEL AX	75.5	68.4	55.9	61.6
<b>OGI</b>				
DOUBLESTOP CL PLUS	65.4	61.6	60.4	58.9
GREEN HAMMER	66.7	61.3	62.1	60.7
OK CORRAL	68.5	65.3	53.1	58.0
PARADOX	67.7	--	54.4	--
SHOWDOWN	65.5	66.0	60.5	62.8
SMITH'S GOLD	65.7	61.8	48.0	52.0
STRAD CL PLUS	68.4	63.7	51.4	53.4
<b>PLAINSGOLD</b>				
CANVAS	67.2	63.8	61.8	65.7
CRESCENT AX	62.3	64.0	60.1	62.9
KIVARI AX	68.4	66.6	56.8	62.8
<b>POLANSKY</b>				
PARADISE	65.4	61.1	58.6	59.3
ROCK STAR	71.1	65.5	51.2	59.0
<b>WESTBRED</b>				
WB4401	67.3	66.0	50.3	54.9
WB4422	75.6	68.5	58.4	63.2
WB4523	69.7	66.8	46.5	52.7
WB4699	69.0	64.0	49.1	53.0
AVERAGE	68.2	64.7	54.5	59.1

Table 8. 2024 SOUTH CENTRAL non-treated dryland winter wheat performance test

Brand/ Name	WL <sup>1</sup>	WL	2 yr	3 yr	WL
	yield (bu/a)	% of test average	multiyear av. (bu/a)		test weight (lb/bu)
<b>AGRIPRO</b>					
AP PROLIFIC	62.2	89.8	46.1	48.9	58.7
AP24 AX	72.3	104.4	--	--	59.4
Bigfoot	61.5	88.8	--	--	60.9
Roadrunner	65.5	94.6	--	--	59.0
<b>AGSECO</b>					
AG Icon	77.6	112.1	51.1	51.0	60.3
AG Radical	75.1	108.5	50.4	53.0	60.5
<b>ARMOR</b>					
AR Iron Eagle 22AX	57.4	82.8	--	--	58.5
<b>CROPLAN</b>					
CP7017AX	56.6	81.7	40.2	--	59.4
CP7220	59.2	85.4	--	--	60.2
CP7266AX	62.9	90.9	41.4	--	58.9
CP7869	84.9	122.6	57.6	--	60.7
CP7909	75.6	109.2	49.5	--	61.1
<b>KWA</b>					
KS Ahearn	71.0	102.5	50.3	47.3	61.2
KS Mako	74.4	107.5	49.9	--	61.5
KS Providence	79.9	115.4	54.7	54.5	60.6
Zenda	60.2	87.0	41.3	43.3	59.7
<b>LIMAGRAIN</b>					
LCS Atomic AX	73.9	106.7	50.5	50.0	61.7
LCS Galloway AX	70.9	102.4	49.8	--	60.1
LCS Helix AX	81.8	118.2	53.5	52.4	62.5
LCS Julep	59.2	85.5	44.6	44.4	59.3
LSC Runner	60.1	86.9	--	54.7	60.5
LCS Steel AX	79.1	114.2	53.3	54.0	59.7
LCS Warbird AX	73.2	105.8	--	--	60.6
<b>OGI</b>					
Doublestop CL+	63.3	91.4	46.3	47.9	57.5
Green Hammer	72.2	104.2	50.2	--	60.0
High Cotton	64.4	93.1	--	--	60.7
OK Corral	69.8	100.7	46.6	44.0	58.1
Paradox	61.8	89.3	--	--	57.0
Showdown	88.2	127.4	57.5	57.9	61.1
Strad CL+	68.0	98.2	58.6	55.4	59.2
Uncharted	49.3	71.2	34.8	38.6	55.2
<b>PLAINSGOLD</b>					
Canvas	68.4	98.8	--	--	60.2
CO18035RA	74.1	107.0	--	--	60.3
CO18D297R	61.1	88.2	--	--	59.3
Crescent AX	69.9	100.9	--	62.8	61.1
Kivari AX	71.8	103.7	--	63.3	60.0
<b>POLANSKY</b>					
Golden Hawk	71.0	102.5	--	--	58.3
Paradise	70.5	101.7	48.8	60.0	60.2
Rockstar	63.2	91.3	45.1	46.6	59.5
<b>WESTBRED</b>					
WB4401	67.2	97.1	47.0	49.5	57.0
WB4422	80.4	116.0	53.0	--	61.1
WB4445CLP	83.2	120.1	--	--	60.9
WB4523	60.0	86.7	43.9	45.1	58.1
WB4699	74.6	107.7	50.2	50.0	59.7
AVERAGE	69.3	100.0	49.1	51.1	59.7
CV (%)	6.1	6.1	--	--	0.7
LSD (0.05)*	8.3	12.0	--	--	0.7

<sup>1</sup>WL=Wellington, KS, farmer's field, Sumner County. No fungicide applied.

\*Yields must differ by more than the LSD value to be considered statistically different.

**2023-2024 Season****Wellington**

Date Planted	10/23/2023
Previous Crop	wheat
Primary Tillage	no till
Date Harvested	6/11/2024
Seasonal precipitation (inches)	16.46
Normal precipitation (inches)	20.76

**Table 9. 2024 WEST CENTRAL Kansas dryland winter wheat performance test**

Brand / Name	RS <sup>1</sup>	LA <sup>2</sup>	SJ <sup>3</sup>	Av.	RS	LA	SJ	Av.	RS	LA	SJ	Av.
	yield (bu/a)				% of test average				test weight (lb/bu)			
<b>AGRIPRO</b>												
AP PROLIFIC	41.6	33.2	--	37.4	79.2	85.3	--	82.3	56.9	55.8	--	56.4
AP Sunbird	59.1	47.0	--	53.0	112.6	120.7	--	116.6	58.2	59.3	--	58.7
AP24 AX	57.1	41.4	--	49.3	108.8	106.4	--	107.6	56.0	55.4	--	55.7
Bigfoot	56.2	39.5	--	47.9	107.1	101.4	--	104.3	57.6	57.9	--	57.7
Roadrunner	52.7	37.0	--	44.9	100.4	95.2	--	97.8	55.0	53.9	--	54.5
SY Wolverine	56.3	45.6	--	51.0	107.3	117.3	--	112.3	57.3	57.9	--	57.6
<b>AGSECO</b>												
AG Golden	52.4	39.5	--	45.9	99.9	101.4	--	100.6	55.9	54.4	--	55.1
<b>ARMOR</b>												
AR Iron Eagle 22AX	52.8	41.3	--	47.0	100.5	106.1	--	103.3	58.0	59.0	--	58.5
<b>CROPLAN</b>												
CP7017AX	56.8	38.7	--	47.8	108.3	99.5	--	103.9	58.2	58.3	--	58.2
CP7220	55.3	34.2	--	44.8	105.4	88.0	--	96.7	58.0	58.6	--	58.3
CP7266AX	37.7	27.5	--	32.6	71.9	70.7	--	71.3	56.9	56.8	--	56.9
CP7869	50.1	40.4	--	45.3	95.5	103.9	--	99.7	57.5	58.1	--	57.8
CP7909	45.5	36.0	--	40.8	86.7	92.6	--	89.7	57.2	55.5	--	56.4
<b>KWA</b>												
KS Bill Snyder	52.8	37.3	--	45.1	100.6	95.9	--	98.2	58.3	44.2	--	51.3
KS Mako	50.5	40.8	--	45.6	96.2	104.9	--	100.5	59.2	59.3	--	59.3
KS Providence	56.0	35.7	--	45.9	106.7	91.7	--	99.2	57.5	55.8	--	56.7
KS Territory	60.1	38.1	--	49.1	114.4	97.8	--	106.1	58.4	58.9	--	58.7
KS Western Star	57.8	37.6	--	47.7	110.1	96.5	--	103.3	58.6	58.7	--	58.6
<b>LIMAGRAIN</b>												
LCS Atomic AX	48.2	42.8	--	45.5	91.9	110.0	--	101.0	56.7	58.6	--	57.7
LCS Galloway AX	48.8	35.5	--	42.1	93.0	91.1	--	92.1	57.7	56.8	--	57.2
LCS Helix AX	49.4	33.0	--	41.2	94.0	84.9	--	89.5	58.8	59.6	--	59.2
LCS Julep	44.8	34.8	--	39.8	85.3	89.3	--	87.3	56.3	56.8	--	56.6
LCS Radar	48.4	33.9	--	41.1	92.2	87.1	--	89.6	57.5	56.1	--	56.8
LCS Runner	45.8	44.7	--	45.3	87.2	115.0	--	101.1	56.9	58.7	--	57.8
LCS Steel AX	56.0	44.1	--	50.1	106.8	113.4	--	110.1	56.6	55.9	--	56.2
LCS Warbird AX	52.1	39.5	--	45.8	99.2	101.4	--	100.3	58.4	58.0	--	58.2
<b>OGI</b>												
Doublestop CL+	40.1	35.3	--	37.7	76.4	90.6	--	83.5	55.7	58.5	--	57.1
High Cotton	54.1	33.4	--	43.8	103.1	85.8	--	94.5	57.9	56.4	--	57.2
Paradox	53.1	32.9	--	43.0	101.1	84.5	--	92.8	54.9	52.3	--	53.6
Showdown	55.5	45.9	--	50.7	105.8	117.9	--	111.8	57.4	57.5	--	57.4
<b>PLAINSGOLD</b>												
Canvas	58.6	39.3	--	48.9	111.6	100.9	--	106.3	57.5	58.6	--	58.0
CO18035RA	58.0	43.7	--	50.9	110.6	112.2	--	111.4	57.5	56.5	--	57.0
CO18D297R	54.2	37.1	--	45.6	103.2	95.3	--	99.3	57.4	57.3	--	57.4
Crescent AX	59.1	41.1	--	50.1	112.5	105.5	--	109.0	58.7	58.2	--	58.4
Kivari AX	63.0	43.6	--	53.3	119.9	112.1	--	116.0	56.4	55.8	--	56.1
<b>POLANSKY</b>												
Golden Hawk	54.0	38.2	--	46.1	103.0	98.3	--	100.6	57.1	55.0	--	56.0
High Country	49.9	45.4	--	47.6	95.0	116.6	--	105.8	57.2	58.9	--	58.1
Rockstar	53.8	44.6	--	49.2	102.6	114.5	--	108.5	56.6	57.2	--	56.9
<b>WESTBRED</b>												
WB4347	61.9	39.9	--	50.9	117.8	102.5	--	110.2	58.5	59.4	--	58.9
WB4401	57.9	40.3	--	49.1	110.2	103.7	--	107.0	56.4	58.8	--	57.6
WB4422	43.3	36.4	--	39.9	82.6	93.6	--	88.1	54.0	58.1	--	56.1
WB4445CLP	42.4	40.9	--	41.7	80.8	105.1	--	93.0	58.2	58.2	--	58.2
WB4523	49.7	37.7	--	43.7	94.8	97.0	--	95.9	57.9	57.8	--	57.9
WB4595	53.6	40.9	--	47.3	102.2	105.0	--	103.6	57.4	60.3	--	58.9
WB4699	52.6	33.4	--	43.0	100.1	85.7	--	92.9	55.1	53.3	--	54.2
WB4792	55.2	41.1	--	48.2	105.2	105.7	--	105.5	57.2	58.9	--	58.1
AVERAGE	52.5	38.9	--	45.7	100.0	100.0	--	100.0	57.2	57.1	--	57.1
CV (%)	7.1	6.1	--	--	7.1	6.1	--	--	0.8	1.5	--	--
LSD (0.05)*	5.7	4.2	--	--	10.9	10.8	--	--	1.1	2.6	--	--

<sup>1</sup>RS=Russell, KS, farmer's field, Russell County.

<sup>2</sup>LA= Larned, KS, farmer's field, Pawnee County.

<sup>3</sup>SJ=St. John, KS, farmer's field, Stafford County. *Abandoned: poor stand establishment and heavy weed pressure.*

\*Yields must differ by more than the LSD value to be considered statistically different.

2023-2024 Season	Russell	Larned	St. John
Date Planted	10/16/2023	10/2/2023	10/24/2023
Previous Crop	fallow	failed sorghum	wheat
Primary Tillage	conventional	no till	conventional
Date Harvested	6/18/2024	6/18/2024	<i>Abandoned</i>
Seasonal precipitation (inches)	9.7	9.0	16.8
Normal precipitation (inches)	13.8	12.5	22.6

Table 9 continued. 2024 WEST CENTRAL Kansas dryland winter wheat performance test

## WEST CENTRAL Kansas multi-year averages (2022-2024)

Brand / Name	-RS-		-LA-		-SJ-
	2 yr	3 yr	2 yr	3 yr	3 yr
	(bushels/acre)				
<b>AGRIPRO</b>					
AP BIGFOOT	38.6	49.2	41.4	44.0	25.7
SY WOLVERINE	43.5	55.5	45.4	48.7	32.5
<b>AGSECO</b>					
AG GOLDEN	48.2	56.4	43.5	46.2	--
<b>KWA</b>					
KS BILL SNYDER	39.7	--	39.7	--	--
KS MAKO	43.1	--	--	--	--
KS PROVIDENCE	43.4	53.3	--	40.2	31.8
KS TERRITORY	47.3	57.1	41.9	44.4	--
KS WESTERN STAR	48.4	54.0	40.7	--	29.0
<b>LIMAGRAIN</b>					
LCS ATOMIC AX	40.0	51.7	46.5	48.5	29.0
LCS GALLOWAY	41.6	--	37.3	--	25.9
LCS HELIX AX	37.8	49.0	39.4	42.7	--
LCS JULEP	40.9	54.4	38.1	41.2	28.6
LCS STEEL AX	53.2	60.4	42.8	46.5	32.1
<b>PLAINSGOLD</b>					
CANVAS	50.6	58.2	--	46.9	29.9
CRESCENT AX	42.1	51.6	--	47.4	31.7
KIVARI AX	53.4	--	--	43.6	--
<b>POLANSKY</b>					
HIGH COUNTRY	40.9	49.3	45.3	49.0	--
ROCK STAR	45.0	54.3	50.6	49.2	30.5
<b>WESTBRED</b>					
WB4422	38.9	54.4	40.9	43.3	29.0
WB4595	42.6	51.6	40.9	43.2	--
WB4792	41.7	47.9	39.5	42.5	35.7
AVERAGE	43.9	53.4	42.1	45.1	30.1



Table 11. 2024 WESTERN Kansas irrigated winter wheat performance test

Brand / Name	CO <sup>1</sup>	GC <sup>2</sup>	HG <sup>3</sup>	Av.	CO	GC	HG	Av.	CO	GC	HG	Av.	CO	CO
	yield (bu/a)				% of test average				tw (lb/bu)				ht (in)	stripe rust**
<b>AGRIPRO</b>														
AP PROLIFIC	78.0	100.3	128.3	102.2	92.6	102.1	94.6	96.4	54.6	58.1	56.7	56.5	33.4	7.2
AP Sunbird	88.1	91.0	157.2	112.1	104.7	92.6	116.0	104.4	54.8	53.0	56.5	54.8	32.6	6.8
Roadrunner	89.3	105.0	137.1	110.5	106.1	106.8	101.2	104.7	52.8	56.8	56.1	55.2	33.6	6.2
SY Wolverine	89.1	103.9	157.8	116.9	105.8	105.7	116.4	109.3	52.6	50.3	52.9	51.9	35.0	5.8
<b>AGSECO</b>														
AG Golden	91.3	113.9	144.9	116.7	108.5	115.9	106.9	110.4	54.2	54.1	55.6	54.6	33.0	6.2
<b>KWA</b>														
KS Big Bow	86.6	111.1	156.0	117.9	102.9	113.1	115.1	110.4	53.9	57.6	57.3	56.2	36.6	4.0
KS Bill Snyder	90.2	116.4	139.0	115.2	107.2	118.5	102.5	109.4	54.7	56.8	57.6	56.4	32.8	4.8
KS Mako	83.7	100.5	142.7	109.0	99.4	102.3	105.3	102.3	54.7	57.0	57.9	56.5	33.4	4.8
KS Providence	84.9	102.5	166.9	118.1	100.8	104.3	123.1	109.4	55.1	55.6	56.6	55.8	33.4	5.2
KS Territory	87.5	90.1	141.2	106.2	103.9	91.7	104.1	99.9	54.0	54.4	57.9	55.4	34.8	5.8
<b>LIMAGRAIN</b>														
LCS Atomic AX	84.6	88.9	133.8	102.4	100.5	90.5	98.7	96.6	55.7	57.3	58.9	57.3	33.0	3.8
LCS Galloway AX	76.0	85.5	132.9	98.1	90.3	87.0	98.0	91.8	54.3	57.1	56.5	56.0	35.6	4.8
LCS Helix AX	88.7	119.1	153.1	120.3	105.4	121.2	113.0	113.2	55.7	58.9	58.6	57.7	33.2	6.6
LCS Julep	82.1	72.2	114.5	89.6	97.5	73.5	84.4	85.2	53.9	52.9	57.4	54.7	34.6	5.0
LCS Radar	75.1	97.2	133.1	101.8	89.2	98.9	98.2	95.4	53.9	57.6	56.7	56.0	33.0	7.0
LCS Steel AX	73.8	88.4	135.4	99.2	87.6	90.0	99.9	92.5	53.6	54.5	58.0	55.4	36.8	6.4
LCS White Lightning	75.9	94.3	90.4	86.9	90.2	96.0	66.7	84.3	52.9	55.8	56.6	55.1	34.2	5.4
<b>OGI</b>														
Breakthrough	79.3	87.8	127.6	98.2	94.2	89.3	94.1	92.5	55.8	54.8	57.0	55.8	34.2	3.8
<b>PLAINSGOLD</b>														
Canvas	93.9	105.0	152.8	117.3	111.6	106.9	112.7	110.4	54.9	56.2	58.3	56.5	32.4	5.2
CO18D297R	86.4	93.6	147.1	109.0	102.6	95.3	108.5	102.1	54.3	58.5	57.9	56.9	37.0	5.6
<b>POLANSKY</b>														
Golden Hawk	98.4	107.2	136.0	113.9	116.8	109.1	100.3	108.8	53.5	54.7	56.1	54.8	34.4	5.6
High Country	82.1	95.8	164.1	114.0	97.5	97.5	121.1	105.4	54.8	56.7	57.5	56.3	34.2	5.6
Rockstar	81.7	102.8	--	92.3	97.0	104.6	--	100.8	53.5	57.7	--	56.1	34.6	5.8
<b>WATLEY</b>														
TAM 115	90.9	89.4	113.5	97.9	108.0	91.0	83.8	94.2	55.8	55.8	59.3	57.0	34.0	6.0
TAM 204	87.8	93.7	116.5	99.4	104.3	95.4	86.0	95.2	55.5	57.0	58.3	56.9	32.4	6.6
<b>WESTBRED</b>														
WB4422	69.0	92.3	115.0	92.1	82.0	93.9	84.8	86.9	53.9	57.0	56.8	55.9	34.8	5.4
WB4523	92.4	108.6	138.6	113.2	109.7	110.5	102.3	107.5	54.4	56.6	57.3	56.1	29.8	4.4
WB4699	70.4	94.5	129.5	98.1	83.6	96.2	95.5	91.8	52.2	54.1	55.7	54.0	30.6	4.6
AVERAGE	84.2	98.2	135.6	106.0	100.0	100.0	100.0	100.0	54.3	56.0	56.7	55.6	33.8	5.5
CV (%)	5.9	9.8	10.9	--	5.9	9.8	10.9	--	1.1	2.1	2.2	--	1.2	--
LSD (0.05)*	7.2	10.3	19.0	--	8.5	10.5	14.0	--	1.0	1.9	2.8	--	1.6	--

<sup>1</sup>CO=Colby, KS, Northwest Agricultural Research Center, Thomas County.

<sup>2</sup>GC=Garden City, KS, Southwest Agricultural Research Center, Finney County.

<sup>3</sup>HG=Hugoton, KS, farmer's field, Stevens County.

\*Yields must differ by more than the LSD value to be considered statistically different.

\*\*Stripe rust ratings provided by Erick DeWolf, KSU Plant Pathology. 1=resistant plants; 9=susceptible.

2023-2024 Season	Colby	Garden City	Hugoton
Date Planted	10/19/2023	10/11/2023	10/9/2023
Previous Crop	sorghum	fallow	failed wheat
Primary Tillage	reduced	conventional	no till
Irrigated	pivot	pivot	pivot
Date Harvested	7/18/2024	7/5/2024	7/1/2024
Seasonal precipitation (inches)	10.7	9.7	8.9
Normal precipitation (inches)	12.9	12.8	12.2

WESTERN irrigated multi-year averages (2022-2024)

Brand / Name	-CO- 3 yr	-GC- 2 yr	-HG- 3 yr	-HG- 3 yr
	(bushels/acre)			
<b>AGRIPRO</b>				
AP PROLIFIC	68.4	92.0	87.2	119.3
ROADRUNNER	73.6	85.3	88.4	117.8

Table 11 continued. 2024 WESTERN Kansas irrigated winter wheat performance test

Brand / Name	WESTERN irrigated multi-year averages (2022-2024)			
	-CO- 3 yr	-GC- 2 yr	-GC- 3 yr	-HG- 3 yr
	(bushels/acre)			
<b>AGRIPRO</b>				
SY WOLVERINE	78.7	91.0	75.4	136.8
<b>AGSECO</b>				
AG GOLDEN	74.3	94.7	95.3	131.8
<b>KWA</b>				
KS BIG BOW	--	95.1	--	--
KS BILL SNYDER	--	95.5	--	--
KS MAKO	--	84.4	--	--
KS PROVIDENCE	71.2	93.6	82.1	135.4
KS TERRITORY	--	85.2	--	--
<b>LIMAGRAIN</b>				
LCS ATOMIC AX	80.3	85.8	83.1	115.2
LCS GALLOWAY	--	78.4	--	--
LCS HELIX AX	72.2	96.9	95.5	141.0
LCS JULEP	64.1	70.3	57.0	112.9
LCS STEEL AX	68.4	82.6	76.4	121.3
<b>OGI</b>				
BREAKTHROUGH	70.1	76.8	64.2	119.3
<b>PLAINSGOLD</b>				
CANVAS	77.7	89.4	83.1	140.6
<b>POLANSKY</b>				
HIGH COUNTRY	75.5	84.4	70.3	140.3
ROCKSTAR	67.3	89.5	90.7	104.0
<b>WATLEY</b>				
TAM 204	70.8	78.2	76.1	105.8
<b>WESTBRED</b>				
WB4422	67.6	82.2	90.9	116.5
WB4523	--	91.5	--	--
WB4699	69.4	85.1	85.9	115.9
AVERAGE	71.9	86.7	81.3	123.4

To access crop performance testing information electronically, visit our website. The information contained in this publication, plus more, is available for viewing or downloading at:

[www.agronomy.k-state.edu/outreach-and-services/crop-performance-tests](http://www.agronomy.k-state.edu/outreach-and-services/crop-performance-tests)

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